

Anexo M. Flujos energéticos anuales para combinación de materiales, casa 1

HOUR	Ganancias internas												
	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	371	371	371	371	371	371	371	371	371	371	371	371	
1	371	371	371	371	371	371	371	371	371	371	371	371	
2	371	371	371	371	371	371	371	371	371	371	371	371	
3	371	371	371	371	371	371	371	371	371	371	371	371	
4	431	428	425	430	430	424	430	428	427	430	427	427	
5	710	706	702	708	709	700	709	705	704	709	704	704	
6	743	742	742	742	743	742	743	742	742	743	742	742	
7	654	667	680	660	656	684	656	668	672	656	672	672	
8	535	546	557	540	538	560	538	547	550	538	550	550	
9	480	486	493	483	481	496	481	487	489	481	489	489	
10	432	432	432	432	432	432	432	432	432	432	432	432	
11	619	619	619	619	619	619	619	619	619	619	619	619	
12	632	632	632	632	632	632	632	632	632	632	632	632	
13	636	636	636	636	636	636	636	636	636	636	636	636	
14	543	543	543	543	543	543	543	543	543	543	543	543	
15	432	432	432	432	432	432	432	432	432	432	432	432	
16	432	432	432	432	432	432	432	432	432	432	432	432	
17	432	432	432	432	432	432	432	432	432	432	432	432	
18	452	455	458	453	452	458	452	455	456	452	456	456	
19	764	764	764	764	764	764	764	764	764	764	764	764	
20	743	743	743	743	743	743	743	743	743	743	743	743	
21	516	518	520	517	517	521	517	518	519	517	519	519	
22	371	371	371	371	371	371	371	371	371	371	371	371	
23	371	371	371	371	371	371	371	371	371	371	371	371	
	12412	12439	12468	12424	12417	12476	12417	12441	12450	12417	12450	12450	149261

Perdidas y ganancias por ventilación													
HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-455	-466	-528	-614	-616	-616	-616	-616	-586	-480	-462	-455	
1	-455	-466	-528	-614	-616	-616	-627	-662	-663	-493	-461	-455	
2	-572	-533	-613	-615	-615	-615	-626	-662	-663	-494	-476	-521	
3	-571	-532	-613	-616	-616	-616	-627	-662	-664	-495	-475	-520	
4	-674	-672	-681	-729	-781	-702	-734	-807	-730	-544	-560	-667	
5	-896	-893	-907	-973	-1084	-1082	-1087	-1076	-979	-800	-890	-893	
6	-863	-867	-872	-864	-861	-871	-878	-932	-936	-697	-726	-864	
7	-385	-399	-409	-393	-391	-412	-404	-456	-462	-244	-227	-291	
8	0	-7	-1	-31	-33	-34	-33	-27	0	0	0	0	
9	7	0	0	0	0	0	0	0	0	11	39	36	
10	258	137	11	0	0	19	35	41	69	170	214	285	
11	352	244	164	57	54	91	209	166	103	228	285	380	
12	309	215	144	50	47	80	183	146	90	199	249	333	
13	304	181	15	0	0	25	32	8	26	202	242	271	
14	238	183	16	0	0	0	15	8	0	30	93	226	
15	158	132	3	0	0	0	0	0	0	10	35	67	
16	7	7	0	0	0	0	0	0	0	0	0	0	
17	0	0	0	-24	-27	-14	0	0	-6	0	0	0	
18	0	0	-82	-203	-258	-178	-160	-155	-131	-50	-35	-15	
19	-96	-122	-312	-457	-461	-462	-461	-461	-418	-266	-240	-200	
20	-232	-293	-445	-504	-567	-467	-444	-435	-394	-251	-227	-218	
21	-320	-331	-378	-450	-452	-455	-452	-453	-429	-344	-328	-322	
22	-323	-332	-378	-453	-455	-455	-455	-455	-430	-345	-329	-323	
23	-441	-395	-464	-509	-564	-480	-463	-455	-430	-353	-376	-452	
	-4650	-5209	-6858	-7942	-8296	-7860	-7593	-7945	-7633	-5006	-4655	-4598	-78245

Ganancias solares directas

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	425	494	778	1010	1076	981	880	991	1237	1135	926	593	
7	2338	2583	3449	4107	4456	4136	4145	4564	4625	3983	3413	2583	
8	6595	6646	6904	7185	7374	6907	6955	7680	7996	7669	7373	6492	
9	8859	9149	8770	8241	8139	7456	8438	8793	9299	8705	8597	8556	
10	8088	8429	7957	7014	6498	6546	6979	7398	7653	6782	6600	6867	
11	4530	4907	4708	3703	3353	3392	3640	3905	3677	3354	3347	3828	
12	1797	1672	1197	1112	1239	1260	1146	1096	1112	1107	956	1171	
13	1477	1578	1723	1877	1950	1805	1749	1771	1823	1749	1595	1489	
14	1795	1975	2121	2146	2008	1845	1868	1996	1996	1933	1755	1707	
15	1722	1779	1653	1539	1460	1366	1332	1332	1322	1317	1430	1588	
16	1010	1024	955	865	838	815	817	783	723	677	720	888	
17	254	306	305	266	254	287	278	225	151	75	0	156	
18	0	0	0	0	0	0	0	0	0	0	0	0	
19	0	0	0	0	0	0	0	0	0	0	0	0	
20	0	0	0	0	0	0	0	0	0	0	0	0	
21	0	0	0	0	0	0	0	0	0	0	0	0	
22	0	0	0	0	0	0	0	0	0	0	0	0	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	38890	40542	40520	39065	38645	36796	38227	40534	41614	38486	36712	35918	465949

A1 Tapia pisada / Teja de barro, tierra y caña brava pañetada

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	57	53	46	48	54	53	56	53	49	51	57	58	
1	62	57	47	46	50	53	54	50	46	49	54	57	
2	48	46	38	32	37	40	40	36	32	38	43	47	
3	41	36	25	21	27	31	28	22	22	31	36	40	
4	43	40	32	27	32	32	31	27	29	35	39	42	
5	41	40	34	28	29	29	29	27	29	34	36	39	
6	34	31	25	20	21	20	19	18	19	21	26	31	
7	18	17	14	11	12	12	12	11	10	11	12	16	
8	7	8	10	16	22	24	21	18	14	9	6	6	
9	18	18	28	51	74	80	74	62	40	24	22	20	
10	31	32	42	83	124	133	125	101	58	38	35	32	
11	82	86	121	200	266	279	267	230	188	169	147	106	
12	391	403	485	628	721	709	695	662	610	572	518	425	
13	884	941	1044	1209	1330	1317	1290	1269	1230	1203	1122	966	
14	1525	1583	1731	1894	2030	1986	1935	2020	1991	1920	1781	1583	
15	2109	2304	2456	2580	2692	2528	2579	2665	2686	2475	2222	2027	
16	2214	2458	2740	2899	2889	2760	2787	2845	2802	2529	2336	2163	
17	2479	2684	2784	2779	2741	2631	2651	2767	2750	2541	2383	2284	
18	2279	2477	2472	2376	2301	2204	2207	2258	2254	2080	1948	2029	
19	1655	1848	1817	1732	1658	1578	1580	1632	1614	1482	1388	1475	
20	1050	1114	1001	929	887	840	819	823	814	768	770	891	
21	474	497	459	426	422	419	434	412	364	311	325	394	
22	99	119	114	104	105	118	119	95	56	26	5	62	
23	15	15	18	24	28	27	27	27	25	21	20	17	
	15656	16907	17583	18163	18552	17903	17879	18130	17732	16438	15331	14810	205084

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-509	-554	-710	-821	-863	-798	-780	-777	-731	-543	-505	-497	
1	-596	-631	-750	-896	-895	-891	-897	-931	-915	-675	-622	-598	
2	-711	-696	-821	-906	-904	-898	-897	-935	-928	-686	-644	-665	
3	-813	-755	-903	-960	-1002	-927	-916	-952	-942	-700	-686	-775	
4	-873	-893	-979	-1089	-1128	-1067	-1089	-1159	-1070	-799	-791	-870	
5	-881	-893	-977	-1091	-1159	-1161	-1161	-1160	-1077	-864	-896	-881	
6	-894	-907	-979	-1055	-1060	-1055	-1076	-1141	-1139	-842	-824	-903	
7	-757	-730	-799	-807	-811	-811	-830	-889	-889	-596	-565	-642	
8	-487	-461	-517	-540	-537	-534	-544	-572	-558	-417	-405	-447	
9	-486	-493	-501	-522	-544	-476	-499	-568	-532	-381	-370	-455	
10	-221	-338	-468	-485	-506	-481	-473	-487	-446	-259	-269	-203	
11	-176	-253	-287	-289	-230	-183	-117	-212	-298	-83	-75	-126	
12	370	294	305	363	454	470	533	442	347	549	556	496	
13	1085	1042	1023	1142	1261	1268	1252	1216	1207	1324	1277	1146	
14	1667	1681	1700	1842	1972	1939	1908	1985	1950	1924	1851	1741	
15	2443	2504	2413	2514	2626	2480	2544	2634	2683	2590	2401	2299	
16	2409	2579	2790	2870	2858	2753	2857	2887	2805	2625	2473	2369	
17	2666	2799	2833	2727	2684	2610	2719	2803	2739	2635	2518	2483	
18	2413	2535	2341	2123	1996	1990	2013	2049	2078	2112	2023	2136	
19	1683	1830	1567	1382	1305	1226	1238	1281	1283	1284	1247	1438	
20	964	966	639	513	421	452	445	448	475	555	594	738	
21	124	138	44	-67	-81	-84	-69	-90	-108	-65	-43	33	
22	-263	-255	-307	-407	-414	-384	-371	-399	-419	-345	-352	-300	
23	-430	-390	-518	-658	-749	-607	-580	-572	-532	-377	-382	-441	
	7727	8119	6139	4883	4694	4831	5210	4901	4983	7966	7511	7076	74040

A2 Tapia pisada / Teja de barro, mortero y machimbre

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	57	53	46	48	54	53	56	53	49	51	57	58	
1	62	57	47	46	50	53	54	50	46	49	54	57	
2	48	46	38	32	37	40	40	36	32	38	43	47	
3	41	36	25	21	27	31	28	22	22	31	36	40	
4	43	40	32	27	32	32	31	27	29	35	39	42	
5	41	40	34	28	29	29	29	27	29	34	36	39	
6	34	31	25	20	21	20	19	18	19	21	26	31	
7	18	17	14	11	12	12	12	11	10	11	12	16	
8	7	8	10	16	22	24	21	18	14	9	6	6	
9	109	117	182	265	324	314	288	286	300	285	240	159	
10	753	774	951	1196	1315	1251	1220	1227	1206	1129	1020	828	
11	1791	1912	2135	2475	2652	2588	2554	2569	2533	2466	2300	1968	
12	3165	3290	3602	3958	4202	4061	3988	4210	4164	4009	3716	3292	
13	4412	4825	5154	5430	5641	5289	5398	5610	5649	5203	4668	4247	
14	4662	5175	5780	6128	6101	5832	5883	6013	5913	5337	4928	4560	
15	5252	5688	5896	5891	5825	5593	5640	5875	5830	5388	5050	4838	
16	4841	5261	5252	5052	4904	4703	4708	4807	4796	4428	4146	4314	
17	3537	3947	3880	3704	3553	3385	3386	3491	3454	3177	2977	3156	
18	2252	2388	2147	1994	1912	1815	1769	1771	1746	1646	1652	1910	
19	1011	1062	981	911	905	901	932	882	776	663	690	840	
20	206	247	234	209	208	238	240	189	105	42	0	124	
21	0	0	0	0	0	0	0	0	0	0	0	0	
22	2	3	4	6	7	7	6	6	7	6	5	4	
23	15	15	18	24	28	27	27	27	25	21	20	17	
	32359	35032	36487	37492	37861	36298	36329	37225	36754	34079	31721	30593	422230

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-837	-860	-990	-1177	-1181	-1176	-1171	-1174	-1118	-894	-845	-833	
1	-975	-934	-1116	-1264	-1347	-1220	-1200	-1223	-1193	-909	-897	-991	
2	-1108	-1103	-1281	-1429	-1428	-1423	-1422	-1460	-1426	-1099	-1045	-1062	
3	-1115	-1112	-1294	-1441	-1438	-1431	-1434	-1477	-1441	-1107	-1052	-1069	
4	-1166	-1192	-1318	-1484	-1524	-1463	-1501	-1621	-1559	-1129	-1088	-1163	
5	-1340	-1288	-1439	-1489	-1555	-1557	-1573	-1622	-1566	-1194	-1212	-1267	
6	-1353	-1302	-1441	-1453	-1456	-1452	-1480	-1567	-1566	-1160	-1140	-1289	
7	-1189	-1193	-1213	-1276	-1349	-1253	-1297	-1428	-1326	-918	-927	-1110	
8	-919	-924	-932	-1014	-1120	-1120	-1122	-1114	-1002	-817	-911	-919	
9	-792	-790	-733	-665	-612	-613	-653	-707	-694	-440	-483	-709	
10	531	431	475	695	814	768	736	700	707	981	944	749	
11	2023	2053	2216	2436	2603	2574	2626	2620	2575	2609	2487	2223	
12	3408	3437	3679	3950	4192	4079	4091	4283	4196	4161	3952	3596	
13	5012	5143	5151	5384	5595	5292	5438	5639	5733	5588	5153	4868	
14	5205	5555	5940	6144	6106	5892	6099	6173	5991	5595	5299	5130	
15	5772	6053	6033	5891	5821	5634	5820	6004	5888	5621	5377	5306	
16	5165	5437	5214	4986	4837	4666	4680	4751	4763	4616	4386	4594	
17	3769	4113	3842	3614	3461	3305	3336	3429	3376	3158	3036	3371	
18	2429	2531	2011	1740	1607	1585	1553	1557	1554	1562	1622	1942	
19	901	939	722	560	551	549	580	525	446	445	490	660	
20	-12	-11	-130	-245	-300	-172	-134	-187	-243	-179	-206	-86	
21	-356	-366	-537	-798	-892	-770	-745	-734	-669	-452	-420	-382	
22	-457	-494	-732	-944	-952	-948	-949	-952	-884	-632	-594	-560	
23	-677	-703	-925	-1026	-1139	-957	-920	-908	-844	-603	-595	-661	
	21919	23420	21202	19695	19294	18789	19358	19507	19698	22803	21331	20338	247354

A3 Tapia pisada / Teja de asbesto

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	57	53	46	48	54	53	56	53	49	51	57	58	
1	62	57	47	46	50	53	54	50	46	49	54	57	
2	48	46	38	32	37	40	40	36	32	38	43	47	
3	41	36	25	21	27	31	28	22	22	31	36	40	
4	43	40	32	27	32	32	31	27	29	35	39	42	
5	41	40	34	28	29	29	29	27	29	34	36	39	
6	34	31	25	20	21	20	19	18	19	21	26	31	
7	180	194	290	392	458	429	393	410	474	476	402	265	
8	1296	1334	1633	2002	2148	2019	1974	2028	2063	1956	1764	1429	
9	3146	3360	3751	4291	4543	4398	4336	4426	4444	4343	4049	3461	
10	5590	5809	6370	6963	7339	7056	6923	7381	7367	7088	6573	5820	
11	7810	8547	9139	9629	9948	9291	9507	9928	10028	9219	8270	7518	
12	8268	9185	10264	10902	10823	10307	10426	10687	10513	9477	8750	8088	
13	9329	10104	10482	10488	10357	9943	10028	10465	10372	9582	8980	8597	
14	8616	9363	9351	9007	8743	8395	8395	8572	8539	7885	7382	7680	
15	6312	7043	6922	6611	6362	6066	6070	6243	6165	5672	5313	5633	
16	4028	4271	3843	3571	3440	3272	3188	3182	3133	2955	2962	3419	
17	1829	1918	1776	1652	1649	1645	1696	1601	1413	1211	1261	1524	
18	389	464	440	394	399	456	459	359	206	90	16	239	
19	5	6	6	6	8	10	9	6	3	1	0	3	
20	0	0	0	0	0	0	0	0	0	0	0	0	
21	0	0	0	0	0	0	0	0	0	0	0	0	
22	2	3	4	6	7	7	6	6	7	6	5	4	
23	15	15	18	24	28	27	27	27	25	21	20	17	
	57141	61919	64536	66160	66502	63579	63694	65554	64978	60241	56038	54011	744353

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-2042	-2094	-2387	-2780	-2789	-2784	-2780	-2782	-2647	-2154	-2066	-2039	
1	-2009	-2078	-2389	-2789	-2796	-2791	-2798	-2832	-2722	-2159	-2054	-2011	
2	-2124	-2143	-2460	-2800	-2804	-2799	-2838	-3005	-3022	-2226	-2076	-2078	
3	-2557	-2394	-2786	-2820	-2815	-2808	-2851	-3021	-3036	-2234	-2132	-2324	
4	-2607	-2475	-2810	-2864	-2900	-2839	-2902	-3100	-3042	-2234	-2168	-2417	
5	-2782	-2785	-2860	-3052	-3291	-3048	-3137	-3390	-3074	-2309	-2418	-2769	
6	-2794	-2799	-2862	-3027	-3310	-3313	-3325	-3341	-3094	-2475	-2712	-2804	
7	-2404	-2393	-2298	-2199	-2138	-2166	-2252	-2394	-2335	-1564	-1687	-2229	
8	82	103	407	750	894	767	683	610	658	1186	1065	536	
9	3131	3315	3720	4147	4385	4249	4188	4298	4405	4334	4066	3474	
10	5853	5930	6358	6927	7302	7037	6920	7383	7401	7270	6894	6198	
11	9060	9238	9266	9630	9941	9394	9759	10175	10342	10036	9301	8897	
12	9540	10054	10827	11065	10975	10598	11153	11257	10849	10287	9776	9467	
13	10568	10932	10947	10613	10472	10190	10637	10927	10654	10377	9979	9901	
14	9657	9997	9366	8955	8685	8423	8464	8562	8575	8488	8151	8622	
15	7115	7655	6914	6545	6296	6001	6051	6201	6103	5727	5582	6323	
16	4607	4749	3797	3505	3374	3205	3123	3116	3070	2945	3054	3642	
17	1819	1904	1719	1562	1557	1565	1629	1530	1336	1159	1214	1480	
18	328	406	299	43	-14	170	244	145	-10	-9	-68	169	
19	-116	-128	-564	-1124	-1339	-1022	-960	-943	-830	-409	-333	-232	
20	-466	-572	-1167	-1590	-1651	-1572	-1559	-1560	-1413	-904	-824	-725	
21	-987	-1163	-1627	-1864	-2047	-1774	-1712	-1687	-1545	-1060	-986	-953	
22	-1545	-1591	-1806	-2147	-2158	-2154	-2154	-2157	-2044	-1635	-1562	-1543	
23	-1615	-1610	-1839	-2152	-2204	-2129	-2116	-2114	-2003	-1605	-1563	-1614	
	37712	40058	35765	32534	31625	30400	31467	31878	32576	38832	36433	34971	414251

A4 Tapia pisada / Teja termoacústica (Estrutech)

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	57	53	46	48	54	53	56	53	49	51	57	58	
1	62	57	47	46	50	53	54	50	46	49	54	57	
2	48	46	38	32	37	40	40	36	32	38	43	47	
3	41	36	25	21	27	31	28	22	22	31	36	40	
4	43	40	32	27	32	32	31	27	29	35	39	42	
5	41	40	34	28	29	29	29	27	29	34	36	39	
6	34	31	25	20	21	20	19	18	19	21	26	31	
7	18	17	14	11	12	12	12	11	10	11	12	16	
8	30	33	51	72	87	85	77	76	82	77	63	43	
9	206	212	264	341	385	371	359	355	339	308	278	227	
10	488	519	586	702	776	763	747	738	701	668	623	534	
11	851	883	972	1104	1202	1179	1159	1187	1133	1076	998	885	
12	1185	1295	1384	1495	1591	1514	1543	1563	1524	1398	1254	1142	
13	1258	1393	1552	1667	1708	1656	1661	1659	1592	1439	1329	1232	
14	1411	1526	1583	1597	1617	1585	1582	1610	1567	1450	1359	1303	
15	1308	1419	1414	1369	1365	1324	1320	1316	1295	1198	1122	1168	
16	959	1068	1050	1006	990	957	954	961	939	865	809	857	
17	615	651	589	551	540	520	503	493	483	455	456	524	
18	283	297	275	257	262	264	271	251	219	188	195	236	
19	59	71	67	60	62	72	72	55	30	12	0	35	
20	0	0	0	0	0	0	0	0	0	0	0	0	
21	0	0	0	0	0	0	0	0	0	0	0	0	
22	2	3	4	6	7	7	6	6	7	6	5	4	
23	15	15	18	24	28	27	27	27	25	21	20	17	
	9014	9705	10070	10484	10882	10594	10550	10541	10172	9431	8814	8537	118794

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-547	-539	-631	-725	-749	-711	-699	-699	-666	-534	-518	-547	
1	-518	-551	-659	-777	-776	-771	-778	-812	-801	-587	-541	-520	
2	-633	-616	-730	-788	-784	-779	-778	-816	-814	-598	-563	-587	
3	-640	-625	-743	-799	-795	-787	-795	-851	-859	-612	-570	-594	
4	-736	-731	-800	-844	-880	-819	-846	-929	-865	-613	-611	-713	
5	-744	-732	-798	-845	-912	-913	-917	-930	-872	-677	-716	-724	
6	-774	-779	-806	-829	-850	-820	-842	-906	-875	-644	-659	-783	
7	-545	-549	-558	-580	-615	-616	-625	-655	-627	-420	-429	-471	
8	-252	-254	-232	-237	-224	-225	-237	-248	-223	-151	-173	-238	
9	66	64	108	171	207	203	189	169	154	220	224	149	
10	725	638	573	655	728	733	732	731	735	810	807	789	
11	1085	1034	1054	1105	1195	1208	1273	1272	1174	1223	1200	1154	
12	1527	1500	1466	1487	1580	1540	1661	1654	1585	1606	1527	1517	
13	1571	1576	1583	1640	1679	1659	1713	1678	1602	1632	1574	1532	
14	1659	1700	1604	1564	1576	1567	1621	1628	1558	1517	1489	1554	
15	1518	1558	1366	1303	1299	1267	1266	1252	1242	1232	1196	1282	
16	1003	1090	999	940	923	890	893	898	876	824	794	890	
17	642	664	534	461	448	440	435	422	406	407	423	508	
18	225	243	135	3	-44	34	55	37	27	88	112	167	
19	-62	-62	-192	-301	-303	-286	-281	-301	-303	-206	-200	-144	
20	-218	-259	-397	-499	-572	-460	-440	-439	-393	-242	-220	-215	
21	-382	-399	-501	-618	-630	-630	-630	-629	-587	-450	-434	-416	
22	-428	-457	-547	-631	-654	-620	-614	-614	-578	-438	-418	-421	
23	-556	-520	-599	-667	-713	-638	-625	-623	-592	-471	-483	-556	
	2986	2994	1229	189	134	466	731	289	304	2916	2811	2613	17662

B1 Ladrillo macizo (temoza) / Teja de barro, tierra y caña brava pañetada

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	2	3	6	13	19	20	17	15	12	8	6	4	
9	18	18	28	51	74	80	74	62	40	24	22	20	
10	31	32	42	83	124	133	125	101	58	38	35	32	
11	204	216	328	497	615	611	563	536	532	474	417	284	
12	1133	1145	1414	1837	2139	2089	2042	2017	1855	1648	1539	1278	
13	2866	2772	2833	3287	3678	3615	3554	3539	3322	3280	3329	3035	
14	4381	4234	4042	4326	4739	4667	4782	4702	4469	4494	4654	4505	
15	5210	5184	4832	4878	5217	5189	5303	5197	4992	4964	4936	4884	
16	4644	4752	4657	4506	4754	4762	4782	4640	4406	4447	4514	4532	
17	4570	4521	4050	3813	4090	4192	4041	3876	3881	4106	4197	4304	
18	4428	4482	4101	3757	3929	3838	3771	3629	3728	3857	3920	4154	
19	3726	3847	3543	3165	3137	3048	3034	3011	3089	3193	3197	3420	
20	2766	2697	2255	1948	1921	1863	1789	1725	1758	1849	2094	2476	
21	1392	1347	1157	998	1013	1018	1028	943	870	843	952	1209	
22	316	360	323	268	274	319	309	237	147	74	0	197	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	35687	35610	33611	33427	35723	35444	35214	34230	33159	33299	33812	34334	413550

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-983	-1130	-1555	-1775	-1948	-1698	-1641	-1617	-1502	-1052	-978	-953	
1	-1475	-1513	-1714	-2045	-2055	-2055	-2065	-2096	-2024	-1591	-1505	-1475	
2	-1577	-1571	-1789	-2047	-2055	-2055	-2065	-2096	-2024	-1591	-1517	-1532	
3	-1964	-1773	-2069	-2221	-2413	-2137	-2088	-2099	-2029	-1617	-1659	-1950	
4	-2052	-2085	-2300	-2614	-2664	-2605	-2627	-2690	-2530	-2022	-1978	-2046	
5	-2052	-2085	-2300	-2617	-2692	-2694	-2694	-2692	-2535	-2070	-2066	-2049	
6	-2055	-2091	-2292	-2573	-2583	-2579	-2626	-2774	-2778	-2071	-1981	-2052	
7	-2168	-2045	-2308	-2322	-2327	-2327	-2372	-2515	-2519	-1813	-1736	-1927	
8	-1884	-1763	-2017	-2044	-2040	-2040	-2078	-2191	-2179	-1625	-1564	-1718	
9	-1990	-1996	-2022	-2127	-2257	-2036	-2120	-2358	-2154	-1588	-1621	-1948	
10	-1717	-1832	-1975	-2085	-2292	-2271	-2264	-2263	-2064	-1585	-1749	-1691	
11	-1539	-1603	-1548	-1455	-1340	-1317	-1315	-1486	-1543	-972	-1042	-1425	
12	368	284	487	834	1134	1112	1115	947	734	1172	1170	817	
13	3102	2894	2851	3202	3586	3543	3493	3477	3346	3438	3519	3250	
14	4588	4374	4061	4329	4742	4671	4804	4716	4474	4562	4855	4793	
15	6270	5793	4875	4878	5217	5257	5425	5340	5234	5578	5725	5951	
16	5578	5403	5087	4656	4897	5002	5332	5078	4675	5042	5263	5534	
17	5496	5166	4479	3940	4207	4419	4590	4314	4144	4701	4943	5298	
18	5225	4955	4066	3570	3690	3741	3708	3508	3675	4346	4530	4855	
19	4274	4238	3390	2881	2850	2762	2789	2748	2831	3106	3289	3880	
20	3151	2955	1968	1605	1532	1545	1488	1429	1491	1717	2064	2562	
21	1128	1072	809	578	590	596	606	521	471	526	650	915	
22	20	52	-32	-241	-250	-154	-113	-186	-272	-244	-302	-99	
23	-410	-372	-708	-1165	-1403	-1052	-980	-953	-851	-505	-471	-470	
	17334	15327	7444	3142	4126	5628	6302	4062	4071	13842	15839	16520	113637

B2 Ladrillo macizo (temoza) / Teja de barro, mortero y machimbre

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	2	3	6	13	19	20	17	15	12	8	6	4	
9	109	117	182	265	324	314	288	286	300	285	240	159	
10	753	774	951	1196	1315	1251	1220	1227	1206	1129	1020	828	
11	1914	2042	2341	2772	3000	2920	2850	2875	2877	2771	2571	2146	
12	3908	4032	4531	5168	5621	5441	5335	5565	5409	5085	4738	4145	
13	6395	6657	6944	7508	7989	7586	7662	7880	7742	7279	6875	6316	
14	7519	7826	8091	8560	8809	8512	8729	8695	8391	7911	7801	7481	
15	8354	8568	8271	8189	8349	8253	8364	8407	8137	7876	7763	7695	
16	7271	7555	7169	6659	6769	6705	6702	6602	6400	6346	6324	6682	
17	5627	5783	5146	4737	4902	4946	4775	4600	4584	4742	4791	5176	
18	4401	4393	3777	3374	3540	3448	3333	3142	3220	3423	3624	4034	
19	3082	3060	2708	2344	2383	2371	2386	2261	2252	2373	2499	2785	
20	1921	1830	1489	1228	1242	1261	1211	1090	1050	1123	1324	1709	
21	919	850	698	572	590	599	594	531	506	532	627	815	
22	219	243	213	170	176	207	196	148	98	54	0	138	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	52394	53733	52517	52755	55028	53834	53662	53324	52184	50937	50203	50113	630684

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-1312	-1436	-1834	-2131	-2266	-2076	-2033	-2015	-1889	-1403	-1318	-1289	
1	-1855	-1815	-2080	-2413	-2507	-2384	-2367	-2388	-2303	-1826	-1781	-1868	
2	-1975	-1977	-2250	-2570	-2580	-2580	-2589	-2620	-2523	-2005	-1918	-1930	
3	-2267	-2130	-2461	-2701	-2850	-2642	-2607	-2623	-2528	-2024	-2026	-2245	
4	-2345	-2385	-2640	-3009	-3060	-3001	-3039	-3152	-3020	-2352	-2275	-2338	
5	-2511	-2480	-2762	-3015	-3088	-3090	-3106	-3154	-3024	-2400	-2382	-2435	
6	-2514	-2485	-2753	-2971	-2980	-2975	-3029	-3200	-3205	-2389	-2297	-2438	
7	-2601	-2509	-2723	-2791	-2864	-2768	-2839	-3054	-2956	-2135	-2098	-2395	
8	-2316	-2227	-2431	-2518	-2624	-2626	-2656	-2732	-2624	-2025	-2069	-2190	
9	-2295	-2293	-2255	-2270	-2325	-2173	-2274	-2497	-2316	-1648	-1734	-2202	
10	-965	-1064	-1032	-905	-972	-1023	-1054	-1077	-912	-345	-537	-739	
11	661	703	954	1270	1494	1440	1428	1345	1330	1720	1521	924	
12	3406	3427	3861	4421	4872	4721	4674	4788	4583	4784	4567	3917	
13	7029	6995	6980	7444	7921	7567	7679	7900	7873	7701	7396	6972	
14	8126	8248	8301	8630	8876	8624	8995	8904	8516	8234	8303	8183	
15	9600	9342	8495	8255	8412	8412	8701	8709	8439	8609	8700	8959	
16	8334	8261	7511	6772	6876	6916	7156	6942	6633	7034	7175	7759	
17	6599	6479	5488	4827	4984	5114	5208	4940	4781	5224	5461	6187	
18	5241	4950	3736	3187	3301	3335	3249	3016	3151	3797	4130	4662	
19	3492	3347	2545	2060	2096	2085	2131	1992	1993	2267	2532	3102	
20	2175	1978	1199	847	811	921	909	794	774	982	1264	1739	
21	648	568	228	-153	-221	-90	-70	-124	-90	139	273	499	
22	-174	-187	-457	-778	-789	-718	-691	-739	-737	-531	-544	-359	
23	-657	-684	-1115	-1533	-1793	-1402	-1320	-1289	-1162	-731	-684	-690	
	31524	30626	22505	17955	18724	19587	20456	18666	18784	28677	29659	29785	286948

B3 Ladrillo macizo (temoza) / Teja de asbesto

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	162	177	276	380	446	418	382	400	464	465	389	249	
8	1291	1329	1629	1998	2145	2015	1970	2025	2061	1955	1764	1426	
9	3146	3360	3751	4291	4543	4398	4336	4426	4444	4343	4049	3461	
10	5590	5809	6370	6963	7339	7056	6923	7381	7367	7088	6573	5820	
11	7932	8677	9346	9927	10296	9623	9803	10235	10372	9524	8540	7696	
12	9011	9927	11193	12111	12242	11687	11773	12042	11757	10552	9772	8941	
13	11311	11936	12271	12566	12705	12240	12292	12734	12465	11658	11187	10666	
14	11473	12014	11662	11439	11452	11075	11241	11254	11017	10459	10255	10602	
15	9413	9923	9298	8909	8887	8727	8794	8775	8471	8160	8026	8489	
16	6457	6566	5760	5178	5305	5274	5183	4977	4737	4873	5141	5788	
17	3920	3755	3042	2686	2999	3206	3086	2710	2543	2776	3075	3544	
18	2538	2469	2069	1774	2027	2090	2023	1731	1680	1867	1987	2363	
19	2076	2005	1732	1439	1487	1480	1463	1385	1478	1712	1809	1949	
20	1715	1583	1254	1020	1034	1023	971	901	944	1081	1324	1585	
21	919	850	698	572	590	599	594	531	506	532	627	815	
22	219	243	213	170	176	207	196	148	98	54	0	138	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	77173	80623	80564	81423	83673	81118	81030	81655	80404	77099	74518	73532	952812

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-2517	-2670	-3232	-3734	-3874	-3685	-3641	-3623	-3418	-2664	-2538	-2494	
1	-2888	-2960	-3353	-3939	-3956	-3956	-3965	-3996	-3831	-3075	-2938	-2888	
2	-2991	-3018	-3428	-3941	-3956	-3956	-4005	-4165	-4118	-3131	-2949	-2946	
3	-3708	-3412	-3952	-4081	-4226	-4018	-4023	-4168	-4124	-3150	-3105	-3499	
4	-3786	-3668	-4131	-4389	-4436	-4377	-4439	-4631	-4503	-3457	-3355	-3593	
5	-3953	-3977	-4183	-4578	-4824	-4581	-4670	-4921	-4533	-3515	-3588	-3937	
6	-3956	-3983	-4174	-4544	-4834	-4836	-4874	-4974	-4733	-3704	-3869	-3953	
7	-3815	-3708	-3807	-3714	-3653	-3682	-3794	-4020	-3966	-2781	-2858	-3514	
8	-1315	-1200	-1092	-754	-610	-739	-851	-1008	-964	-22	-94	-735	
9	1628	1812	2198	2542	2672	2689	2568	2508	2783	3126	2815	1980	
10	4357	4435	4851	5327	5516	5246	5129	5606	5783	5944	5413	4710	
11	7697	7887	8005	8464	8832	8260	8560	8900	9098	9147	8334	7597	
12	9538	10044	11009	11535	11655	11239	11735	11762	11236	10910	10391	9788	
13	12585	12784	12776	12673	12798	12464	12878	13188	12794	12491	12222	12005	
14	12578	12691	11726	11442	11455	11156	11360	11293	11100	11126	11155	11675	
15	10942	10944	9376	8909	8887	8778	8932	8907	8654	8715	8906	9976	
16	7776	7573	6094	5291	5412	5455	5598	5307	4940	5362	5843	6807	
17	4649	4270	3365	2776	3080	3374	3501	3040	2740	3225	3638	4296	
18	3139	2826	2024	1490	1681	1921	1939	1604	1587	2225	2440	2889	
19	2475	2279	1258	376	206	514	591	524	717	1412	1709	2210	
20	1721	1417	162	-498	-540	-480	-516	-579	-396	257	646	1100	
21	17	-229	-861	-1220	-1377	-1095	-1038	-1076	-967	-469	-293	-71	
22	-1262	-1284	-1530	-1981	-1995	-1924	-1896	-1944	-1897	-1534	-1512	-1342	
23	-1595	-1591	-2029	-2659	-2858	-2574	-2517	-2495	-2322	-1733	-1652	-1643	
	47316	47262	37072	30793	31055	31193	32562	31039	31660	44705	44761	44418	453836

B4 Ladrillo macizo (temoza) / Teja termoacústica (Estrutech)

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	26	28	47	69	84	80	73	73	80	76	63	40	
9	206	212	264	341	385	371	359	355	339	308	278	227	
10	488	519	586	702	776	763	747	738	701	668	623	534	
11	973	1013	1180	1402	1551	1512	1455	1494	1477	1381	1269	1064	
12	1929	2039	2315	2707	3012	2897	2893	2921	2772	2476	2278	1996	
13	3244	3228	3346	3750	4061	3958	3929	3933	3690	3520	3540	3304	
14	4273	4182	3899	4034	4330	4270	4433	4297	4051	4029	4236	4229	
15	4413	4303	3795	3672	3894	3989	4048	3852	3607	3690	3838	4027	
16	3390	3364	2969	2615	2856	2961	2951	2758	2545	2783	2989	3226	
17	2705	2487	1855	1585	1890	2081	1893	1603	1613	2019	2268	2542	
18	2430	2301	1904	1638	1890	1898	1835	1623	1693	1964	2166	2359	
19	2128	2068	1793	1493	1541	1543	1526	1435	1506	1722	1808	1980	
20	1714	1582	1254	1020	1034	1023	971	902	944	1081	1323	1584	
21	918	850	698	572	591	599	594	531	506	532	627	815	
22	219	243	213	170	176	207	196	148	98	54	0	138	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	29056	28419	26118	25770	28071	28152	27903	26663	25622	26303	27306	28065	327448

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-1021	-1114	-1476	-1679	-1834	-1611	-1560	-1540	-1437	-1043	-990	-1002	
1	-1397	-1432	-1623	-1926	-1936	-1936	-1945	-1976	-1910	-1504	-1424	-1397	
2	-1500	-1491	-1698	-1929	-1936	-1936	-1945	-1976	-1910	-1504	-1436	-1455	
3	-1792	-1643	-1910	-2060	-2206	-1998	-1968	-1997	-1946	-1529	-1543	-1770	
4	-1915	-1924	-2122	-2368	-2416	-2357	-2383	-2460	-2326	-1835	-1798	-1889	
5	-1915	-1924	-2122	-2371	-2444	-2446	-2451	-2462	-2330	-1883	-1886	-1892	
6	-1936	-1963	-2118	-2347	-2374	-2344	-2391	-2539	-2514	-1873	-1816	-1931	
7	-1957	-1865	-2067	-2095	-2130	-2131	-2167	-2281	-2257	-1637	-1600	-1756	
8	-1649	-1557	-1731	-1741	-1728	-1731	-1770	-1866	-1845	-1359	-1331	-1509	
9	-1438	-1440	-1413	-1434	-1506	-1356	-1432	-1621	-1468	-988	-1027	-1345	
10	-771	-857	-933	-945	-1058	-1058	-1059	-1046	-883	-516	-673	-699	
11	-277	-317	-207	-61	86	74	75	-3	-71	334	233	-146	
12	1525	1490	1648	1958	2260	2182	2244	2158	1972	2229	2141	1838	
13	3588	3428	3412	3699	4005	3934	3955	3939	3742	3746	3817	3636	
14	4580	4393	3965	4050	4345	4300	4517	4360	4083	4155	4493	4606	
15	5346	4848	3828	3667	3890	4045	4147	3958	3793	4220	4520	4935	
16	4172	3914	3296	2726	2962	3140	3369	3089	2746	3241	3583	4055	
17	3472	3031	2180	1674	1971	2248	2307	1932	1810	2473	2848	3324	
18	3037	2662	1860	1450	1651	1784	1751	1496	1624	2323	2620	2887	
19	2529	2346	1630	1199	1242	1250	1271	1166	1245	1616	1842	2298	
20	1969	1731	931	593	539	633	603	542	624	920	1249	1609	
21	622	536	264	26	41	50	44	-18	-8	141	259	466	
22	-144	-149	-272	-465	-490	-390	-356	-401	-432	-336	-368	-220	
23	-537	-502	-789	-1174	-1367	-1083	-1025	-1003	-911	-599	-572	-584	
	12591	10201	2533	-1553	-433	1263	1831	-549	-609	8792	11141	12059	57267

C1 Ladrillo perforado (estructural) / Teja de barro, tierra y caña brava pañetada

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	2	3	6	13	19	20	17	15	12	8	6	4	
9	18	18	28	51	74	80	74	62	40	24	22	20	
10	31	32	42	83	124	133	125	101	58	38	35	32	
11	119	126	184	290	372	380	357	322	292	262	229	160	
12	616	628	766	994	1151	1127	1103	1073	988	899	827	684	
13	1485	1496	1587	1839	2042	2014	1976	1958	1865	1833	1791	1593	
14	2391	2387	2432	2632	2851	2799	2798	2833	2743	2701	2652	2469	
15	3048	3177	3177	3277	3457	3335	3405	3433	3385	3230	3044	2893	
16	2950	3153	3321	3386	3454	3366	3392	3389	3289	3110	2995	2880	
17	3111	3240	3167	3092	3150	3104	3072	3103	3093	3015	2931	2895	
18	2929	3083	2965	2794	2794	2699	2681	2673	2700	2617	2544	2672	
19	2281	2453	2339	2166	2106	2023	2020	2049	2060	2000	1935	2063	
20	1569	1593	1381	1237	1200	1149	1113	1096	1100	1095	1171	1370	
21	751	754	670	599	601	601	614	573	517	472	515	640	
22	163	190	175	150	151	174	173	134	79	36	0	100	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	21464	22333	22240	22603	23546	23004	22920	22814	22221	21340	20697	20475	265657

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-847	-959	-1294	-1480	-1611	-1422	-1378	-1360	-1267	-903	-843	-824	
1	-1218	-1249	-1415	-1685	-1693	-1693	-1702	-1733	-1680	-1315	-1242	-1218	
2	-1320	-1307	-1490	-1687	-1693	-1693	-1702	-1733	-1680	-1315	-1254	-1275	
3	-1612	-1459	-1701	-1818	-1963	-1755	-1720	-1736	-1685	-1334	-1361	-1590	
4	-1690	-1714	-1880	-2125	-2173	-2114	-2136	-2199	-2064	-1640	-1611	-1684	
5	-1690	-1714	-1880	-2128	-2201	-2203	-2204	-2201	-2069	-1688	-1699	-1687	
6	-1693	-1720	-1871	-2084	-2093	-2088	-2126	-2247	-2249	-1677	-1613	-1690	
7	-1714	-1622	-1820	-1831	-1836	-1836	-1872	-1988	-1990	-1419	-1358	-1513	
8	-1429	-1340	-1529	-1554	-1550	-1549	-1579	-1664	-1650	-1231	-1185	-1304	
9	-1499	-1505	-1522	-1596	-1688	-1520	-1585	-1768	-1620	-1192	-1212	-1460	
10	-1226	-1341	-1476	-1552	-1698	-1675	-1668	-1672	-1525	-1146	-1260	-1200	
11	-1133	-1203	-1202	-1172	-1092	-1057	-1022	-1173	-1254	-789	-821	-1062	
12	104	23	97	248	402	407	441	296	161	582	602	407	
13	1720	1622	1604	1774	1972	1964	1938	1913	1887	1990	1980	1807	
14	2590	2525	2450	2633	2853	2802	2819	2846	2746	2759	2822	2729	
15	3886	3667	3209	3275	3456	3385	3496	3539	3566	3697	3650	3715	
16	3658	3647	3644	3499	3561	3547	3806	3719	3491	3559	3560	3638	
17	3812	3728	3490	3182	3231	3271	3486	3433	3290	3463	3495	3646	
18	3530	3440	2920	2607	2555	2585	2597	2546	2630	2975	2997	3198	
19	2680	2729	2176	1882	1819	1737	1765	1780	1802	1894	1968	2380	
20	1822	1741	1091	894	811	831	811	801	833	954	1111	1400	
21	481	473	322	179	178	178	192	151	118	155	213	346	
22	-133	-117	-180	-339	-349	-286	-250	-289	-335	-281	-302	-195	
23	-410	-371	-641	-996	-1188	-904	-847	-824	-742	-463	-442	-458	
	6669	5974	1102	-1874	-1990	-1088	-440	-1563	-1286	5635	6195	6106	23440

C2 Ladrillo perforado (estructural) / Teja de barro, mortero y machimbre

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	2	3	6	13	19	20	17	15	12	8	6	4	
9	109	117	182	265	324	314	288	286	300	285	240	159	
10	753	774	951	1196	1315	1251	1220	1227	1206	1129	1020	828	
11	1828	1951	2197	2565	2758	2688	2644	2662	2637	2558	2382	2022	
12	3390	3514	3883	4324	4631	4479	4396	4620	4541	4334	4026	3550	
13	5012	5380	5696	6059	6352	5984	6083	6297	6282	5831	5336	4874	
14	5526	5977	6479	6864	6920	6643	6744	6824	6663	6116	5798	5444	
15	6191	6559	6615	6586	6588	6398	6464	6641	6528	6141	5871	5703	
16	5576	5955	5832	5538	5468	5309	5311	5350	5282	5009	4805	5030	
17	4169	4502	4264	4016	3961	3857	3806	3827	3796	3650	3526	3768	
18	2902	2995	2640	2411	2405	2309	2242	2186	2193	2184	2249	2553	
19	1638	1666	1504	1344	1352	1346	1372	1299	1223	1180	1238	1428	
20	725	726	614	517	521	547	534	461	391	369	401	603	
21	278	257	211	173	179	181	180	161	153	161	190	247	
22	66	74	64	51	53	63	59	45	30	16	0	42	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	38165	40450	41138	41922	42846	41389	41360	41901	41237	38971	37088	36255	482722

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-1175	-1265	-1574	-1835	-1929	-1800	-1770	-1758	-1654	-1254	-1184	-1160	
1	-1598	-1551	-1781	-2053	-2145	-2022	-2005	-2026	-1958	-1549	-1518	-1611	
2	-1718	-1714	-1951	-2210	-2217	-2217	-2227	-2258	-2178	-1728	-1655	-1673	
3	-1914	-1816	-2093	-2298	-2399	-2259	-2239	-2261	-2183	-1741	-1728	-1885	
4	-1982	-2014	-2219	-2520	-2569	-2510	-2548	-2661	-2553	-1970	-1907	-1976	
5	-2149	-2109	-2342	-2526	-2597	-2599	-2616	-2663	-2558	-2018	-2014	-2073	
6	-2152	-2114	-2333	-2482	-2489	-2485	-2529	-2673	-2676	-1995	-1929	-2076	
7	-2146	-2085	-2235	-2300	-2373	-2277	-2339	-2527	-2427	-1741	-1720	-1981	
8	-1862	-1803	-1943	-2027	-2133	-2135	-2156	-2205	-2095	-1631	-1691	-1776	
9	-1805	-1803	-1755	-1739	-1757	-1657	-1739	-1907	-1782	-1252	-1324	-1714	
10	-474	-573	-533	-371	-378	-427	-459	-486	-373	95	-48	-248	
11	1066	1103	1301	1554	1742	1699	1721	1659	1619	1904	1742	1287	
12	3142	3167	3470	3835	4140	4015	4000	4137	4010	4193	3999	3507	
13	5647	5723	5732	6017	6307	5988	6123	6336	6413	6253	5857	5529	
14	6129	6400	6689	6934	6987	6755	7010	7034	6788	6430	6270	6119	
15	7216	7216	6829	6653	6652	6540	6772	6909	6772	6727	6625	6723	
16	6414	6504	6068	5615	5540	5460	5630	5583	5448	5550	5473	5863	
17	4915	5042	4499	4069	4008	3966	4103	4059	3927	3987	4013	4535	
18	3546	3435	2590	2224	2166	2179	2138	2055	2106	2425	2596	3005	
19	1898	1838	1331	1060	1065	1060	1107	1025	964	1055	1211	1601	
20	846	763	322	136	90	208	232	166	115	219	311	577	
21	2	-30	-259	-552	-633	-508	-484	-494	-443	-232	-164	-69	
22	-327	-356	-605	-876	-888	-850	-828	-842	-800	-569	-544	-455	
23	-657	-683	-1047	-1364	-1577	-1255	-1187	-1160	-1053	-689	-655	-678	
	20862	21275	16161	12944	12613	12869	13710	13042	13429	20469	20016	19371	196761

C3 Ladrillo perforado (estructural) / Teja de asbesto

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	162	177	276	380	446	418	382	400	464	465	389	249	
8	1291	1329	1629	1998	2145	2015	1970	2025	2061	1955	1764	1426	
9	3146	3360	3751	4291	4543	4398	4336	4426	4444	4343	4049	3461	
10	5590	5809	6370	6963	7339	7056	6923	7381	7367	7088	6573	5820	
11	7847	8586	9202	9719	10053	9391	9597	10021	10132	9312	8352	7572	
12	8493	9410	10545	11268	11253	10725	10834	11097	10889	9802	9059	8346	
13	9929	10659	11023	11117	11067	10638	10713	11151	11005	10210	9648	9223	
14	9481	10165	10050	9743	9563	9206	9256	9383	9289	8664	8251	8564	
15	7250	7915	7641	7307	7126	6871	6894	7009	6863	6425	6134	6497	
16	4763	4966	4423	4057	4005	3877	3792	3725	3619	3535	3621	4136	
17	2462	2474	2159	1965	2058	2117	2117	1937	1755	1685	1810	2135	
18	1039	1071	933	812	892	950	933	774	652	628	612	882	
19	632	611	528	439	455	455	449	423	449	519	548	592	
20	519	479	380	309	313	310	294	273	286	327	401	480	
21	278	257	211	173	179	181	180	161	153	161	190	247	
22	66	74	64	51	53	63	59	45	30	16	0	42	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	62948	67342	69185	70592	71490	68671	68729	70231	69458	65135	61401	59672	804854

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-2381	-2499	-2971	-3438	-3537	-3408	-3378	-3366	-3182	-2514	-2404	-2366	
1	-2631	-2696	-3054	-3578	-3594	-3594	-3603	-3634	-3486	-2799	-2675	-2631	
2	-2734	-2754	-3129	-3580	-3594	-3594	-3643	-3803	-3774	-2854	-2687	-2689	
3	-3356	-3099	-3584	-3678	-3776	-3635	-3656	-3806	-3779	-2868	-2807	-3140	
4	-3424	-3297	-3711	-3900	-3945	-3886	-3948	-4140	-4036	-3075	-2987	-3231	
5	-3591	-3606	-3763	-4089	-4333	-4090	-4179	-4430	-4066	-3133	-3221	-3575	
6	-3594	-3612	-3754	-4056	-4343	-4346	-4375	-4447	-4204	-3310	-3501	-3590	
7	-3361	-3285	-3319	-3223	-3162	-3191	-3294	-3493	-3437	-2387	-2480	-3100	
8	-860	-776	-604	-264	-119	-248	-352	-481	-435	372	284	-321	
9	2118	2303	2698	3073	3240	3205	3103	3098	3318	3522	3225	2468	
10	4848	4926	5350	5860	6110	5842	5725	6198	6321	6384	5903	5201	
11	8103	8287	8351	8748	9080	8520	8853	9214	9387	9331	8555	7961	
12	9274	9784	10619	10949	10923	10534	11061	11111	10664	10320	9823	9379	
13	11203	11511	11528	11245	11184	10886	11323	11624	11334	11043	10682	10562	
14	10580	10842	10115	9746	9566	9286	9375	9422	9371	9323	9122	9611	
15	8559	8818	7710	7307	7126	6906	7003	7106	6986	6834	6831	7740	
16	5856	5816	4652	4134	4077	4000	4072	3948	3755	3879	4141	4911	
17	2966	2833	2377	2018	2104	2226	2396	2159	1886	1987	2190	2643	
18	1444	1311	878	527	545	765	828	643	542	854	907	1232	
19	881	771	45	-624	-825	-511	-432	-443	-312	201	388	709	
20	393	202	-715	-1209	-1261	-1193	-1193	-1208	-1055	-505	-307	-62	
21	-630	-828	-1348	-1619	-1788	-1512	-1452	-1447	-1319	-839	-730	-640	
22	-1415	-1453	-1679	-2079	-2094	-2056	-2033	-2047	-1960	-1571	-1512	-1438	
23	-1595	-1590	-1961	-2490	-2642	-2427	-2383	-2366	-2213	-1691	-1623	-1631	
	36653	37909	30731	25780	24942	24479	25818	25412	26306	36504	35117	34003	363654

C4 Ladrillo perforado (estructural) / Teja termoacústica (Estrutech)

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	26	28	47	69	84	80	73	73	80	75	63	40	
9	206	212	264	341	385	371	359	355	339	308	278	227	
10	488	519	586	702	776	763	747	738	701	668	623	534	
11	888	923	1035	1194	1307	1280	1249	1280	1237	1168	1080	939	
12	1410	1520	1665	1861	2020	1932	1951	1973	1901	1723	1564	1400	
13	1858	1947	2093	2296	2419	2351	2346	2346	2226	2067	1997	1858	
14	2276	2328	2282	2333	2436	2396	2443	2421	2317	2229	2228	2187	
15	2247	2290	2133	2064	2129	2130	2144	2082	1993	1951	1943	2032	
16	1694	1762	1630	1492	1554	1563	1557	1504	1425	1445	1469	1574	
17	1248	1207	972	863	948	992	923	829	825	929	1005	1136	
18	934	904	768	675	754	758	744	666	665	726	792	879	
19	686	676	589	494	510	517	512	472	477	530	548	624	
20	519	479	380	309	313	310	294	273	286	327	401	480	
21	278	257	211	173	179	181	180	161	153	161	190	247	
22	66	74	64	51	53	63	59	45	30	16	0	42	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	14824	15126	14719	14917	15867	15687	15581	15218	14655	14323	14181	14199	179297

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-885	-944	-1215	-1383	-1497	-1334	-1297	-1283	-1202	-894	-856	-874	
1	-1140	-1169	-1324	-1566	-1573	-1573	-1583	-1614	-1566	-1227	-1161	-1140	
2	-1243	-1227	-1399	-1568	-1573	-1573	-1583	-1614	-1566	-1227	-1173	-1198	
3	-1439	-1329	-1542	-1657	-1755	-1615	-1600	-1635	-1602	-1246	-1245	-1410	
4	-1553	-1553	-1701	-1880	-1925	-1866	-1893	-1970	-1859	-1453	-1430	-1526	
5	-1553	-1553	-1701	-1882	-1954	-1955	-1960	-1971	-1864	-1501	-1518	-1529	
6	-1573	-1592	-1698	-1858	-1884	-1853	-1892	-2012	-1985	-1480	-1448	-1569	
7	-1502	-1441	-1579	-1604	-1639	-1640	-1668	-1754	-1728	-1243	-1222	-1342	
8	-1194	-1133	-1243	-1250	-1237	-1240	-1271	-1339	-1316	-965	-953	-1095	
9	-947	-949	-914	-903	-937	-841	-897	-1031	-933	-592	-617	-856	
10	-280	-366	-434	-411	-464	-462	-463	-454	-345	-77	-184	-208	
11	128	83	139	222	334	333	368	311	219	518	455	218	
12	1261	1230	1257	1372	1528	1476	1569	1507	1399	1639	1574	1428	
13	2205	2156	2164	2272	2391	2355	2399	2375	2282	2297	2278	2193	
14	2583	2545	2354	2354	2456	2430	2532	2489	2355	2352	2460	2542	
15	2962	2722	2162	2064	2129	2173	2218	2157	2125	2338	2444	2699	
16	2252	2158	1853	1569	1626	1685	1842	1729	1561	1757	1881	2159	
17	1788	1593	1191	916	995	1101	1202	1051	956	1236	1400	1671	
18	1342	1147	714	488	515	628	639	534	579	952	1086	1229	
19	935	837	417	199	211	225	247	198	216	404	521	797	
20	640	516	54	-118	-182	-81	-74	-86	-35	157	297	447	
21	-25	-63	-223	-373	-371	-368	-370	-389	-361	-230	-178	-102	
22	-297	-319	-420	-563	-589	-522	-493	-504	-495	-374	-368	-317	
23	-537	-501	-722	-1005	-1151	-935	-892	-875	-802	-557	-543	-572	
	1928	848	-3810	-6565	-6546	-5452	-4920	-6180	-5967	584	1500	1645	-32935

D1 Ladrillo hueco (H15) / Teja de barro, tierra y caña brava pañetada

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	2	3	6	13	19	20	17	15	12	8	6	4	
9	18	18	28	51	74	80	74	62	40	24	22	20	
10	31	32	42	83	124	133	125	101	58	38	35	32	
11	82	86	121	200	266	279	267	230	188	169	147	106	
12	416	429	527	688	792	776	755	724	680	634	572	461	
13	1035	1092	1232	1455	1618	1597	1563	1544	1482	1422	1329	1139	
14	1927	1955	2094	2316	2506	2452	2395	2480	2415	2342	2229	2003	
15	2688	2842	2925	3073	3242	3072	3157	3209	3189	2998	2805	2620	
16	2843	3042	3222	3365	3402	3300	3340	3359	3270	3034	2886	2743	
17	2972	3150	3173	3105	3119	3037	3056	3131	3076	2930	2825	2765	
18	2703	2849	2729	2586	2575	2521	2489	2483	2483	2397	2316	2439	
19	2091	2255	2147	2012	1988	1910	1897	1910	1913	1843	1788	1906	
20	1471	1519	1351	1220	1187	1138	1114	1103	1113	1115	1138	1286	
21	822	818	714	633	632	627	631	595	556	531	594	716	
22	283	289	252	214	218	233	234	197	152	128	127	224	
23	45	49	43	35	36	42	40	30	20	11	0	28	
	19429	20428	20606	21049	21798	21217	21154	21173	20647	19624	18819	18492	244436

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-641	-698	-992	-1221	-1272	-1207	-1192	-1186	-1106	-802	-752	-716	
1	-876	-941	-1159	-1350	-1411	-1328	-1319	-1342	-1294	-950	-886	-865	
2	-1146	-1128	-1287	-1442	-1447	-1447	-1456	-1487	-1445	-1127	-1075	-1101	
3	-1241	-1177	-1356	-1485	-1535	-1467	-1463	-1490	-1450	-1134	-1110	-1203	
4	-1430	-1382	-1522	-1674	-1783	-1631	-1632	-1688	-1578	-1243	-1264	-1434	
5	-1444	-1462	-1594	-1796	-1868	-1869	-1870	-1867	-1751	-1429	-1449	-1440	
6	-1447	-1467	-1586	-1751	-1759	-1755	-1775	-1838	-1803	-1393	-1363	-1443	
7	-1277	-1261	-1394	-1495	-1502	-1502	-1533	-1630	-1631	-1152	-1086	-1159	
8	-1120	-1052	-1197	-1220	-1216	-1215	-1239	-1305	-1291	-963	-928	-1022	
9	-1115	-1079	-1167	-1179	-1193	-1135	-1172	-1280	-1249	-920	-890	-1026	
10	-893	-1008	-1136	-1186	-1258	-1159	-1178	-1268	-1153	-787	-818	-863	
11	-837	-909	-942	-987	-1007	-970	-906	-995	-1012	-671	-734	-788	
12	-249	-323	-291	-207	-105	-92	-49	-176	-269	100	79	-109	
13	918	873	896	1080	1242	1241	1207	1134	1098	1358	1320	1098	
14	2117	2088	2113	2288	2477	2425	2384	2469	2421	2383	2339	2209	
15	3079	3092	2938	3073	3242	3090	3188	3245	3249	3176	3075	2978	
16	3393	3376	3342	3402	3437	3381	3517	3516	3418	3384	3327	3335	
17	3519	3532	3424	3170	3177	3165	3378	3388	3228	3279	3263	3350	
18	3211	3182	2810	2450	2384	2455	2549	2495	2471	2685	2695	2939	
19	2452	2456	1977	1728	1701	1646	1652	1638	1677	1880	1917	2169	
20	1658	1597	1071	876	798	820	826	815	846	982	1098	1397	
21	722	679	369	212	210	205	209	173	157	225	333	500	
22	-4	-10	-103	-231	-234	-203	-189	-226	-252	-190	-175	-72	
23	-365	-321	-458	-642	-739	-574	-531	-529	-504	-366	-383	-405	
	6984	6657	2756	413	339	874	1406	566	777	6325	6533	6329	39959

D2 Ladrillo hueco (H15) / Teja de barro, mortero y machimbre

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	2	3	6	13	19	20	17	15	12	8	6	4	
9	109	117	182	265	324	314	288	286	300	285	240	159	
10	753	774	951	1196	1315	1251	1220	1227	1206	1129	1020	828	
11	1791	1912	2135	2475	2652	2588	2554	2569	2533	2466	2300	1968	
12	3190	3316	3644	4018	4273	4128	4048	4272	4234	4071	3771	3329	
13	4563	4976	5343	5675	5929	5569	5672	5885	5902	5421	4875	4420	
14	5064	5547	6143	6550	6577	6298	6342	6473	6338	5758	5376	4980	
15	5832	6226	6365	6384	6374	6136	6218	6420	6333	5910	5633	5431	
16	5470	5845	5734	5518	5416	5243	5260	5321	5264	4933	4696	4893	
17	4030	4412	4269	4030	3932	3791	3790	3855	3779	3566	3419	3637	
18	2676	2761	2404	2203	2186	2131	2051	1996	1976	1964	2020	2320	
19	1447	1468	1312	1191	1235	1232	1249	1160	1075	1023	1090	1271	
20	626	653	585	499	508	536	535	468	405	389	367	518	
21	348	321	255	207	210	208	197	183	192	219	269	322	
22	186	172	142	116	120	122	120	108	103	108	127	165	
23	45	49	43	35	36	42	40	30	20	11	0	28	
	36132	38552	39513	40375	41106	39609	39601	40268	39672	37261	35209	34273	461571

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-970	-1004	-1271	-1576	-1590	-1585	-1584	-1583	-1494	-1152	-1092	-1052	
1	-1256	-1243	-1525	-1718	-1863	-1657	-1621	-1634	-1573	-1185	-1161	-1259	
2	-1543	-1534	-1748	-1965	-1971	-1971	-1981	-2012	-1944	-1540	-1477	-1498	
3	-1543	-1534	-1748	-1965	-1971	-1971	-1981	-2015	-1949	-1541	-1477	-1498	
4	-1722	-1682	-1861	-2069	-2180	-2027	-2044	-2150	-2067	-1573	-1561	-1727	
5	-1903	-1856	-2056	-2194	-2264	-2265	-2282	-2329	-2241	-1759	-1765	-1826	
6	-1906	-1862	-2047	-2150	-2155	-2151	-2178	-2264	-2230	-1711	-1679	-1829	
7	-1709	-1724	-1809	-1964	-2039	-1944	-2000	-2168	-2068	-1474	-1449	-1627	
8	-1553	-1515	-1611	-1694	-1799	-1801	-1817	-1846	-1735	-1363	-1434	-1495	
9	-1421	-1376	-1400	-1321	-1262	-1272	-1326	-1420	-1411	-979	-1002	-1280	
10	-140	-239	-193	-5	62	89	31	-82	-1	453	395	89	
11	1362	1397	1560	1738	1826	1787	1837	1836	1861	2021	1829	1561	
12	2789	2820	3082	3380	3633	3516	3509	3665	3580	3712	3476	2992	
13	4845	4974	5024	5323	5576	5266	5392	5557	5624	5622	5196	4820	
14	5655	5962	6352	6590	6611	6377	6576	6656	6463	6055	5787	5599	
15	6409	6641	6559	6451	6437	6245	6464	6615	6454	6207	6050	5985	
16	6149	6234	5766	5518	5416	5295	5341	5380	5376	5375	5240	5560	
17	4622	4845	4433	4058	3954	3860	3995	4014	3865	3803	3781	4238	
18	3227	3178	2480	2067	1996	2050	2090	2003	1947	2135	2295	2746	
19	1670	1565	1132	907	948	969	994	882	840	1041	1160	1390	
20	682	620	302	118	77	196	247	180	129	248	298	574	
21	242	175	-212	-519	-602	-481	-467	-472	-404	-162	-44	84	
22	-198	-250	-528	-768	-773	-766	-766	-779	-717	-477	-417	-332	
23	-613	-633	-865	-1010	-1129	-925	-871	-865	-816	-591	-596	-625	
	21175	21959	17816	15232	14938	14834	15558	15169	15489	21165	20353	19590	213278

D3 Ladrillo hueco (H15) / Teja de asbesto

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	162	177	276	380	446	418	382	400	464	465	389	249	
8	1291	1329	1629	1998	2145	2015	1970	2025	2061	1955	1764	1426	
9	3146	3360	3751	4291	4543	4398	4336	4426	4444	4343	4049	3461	
10	5590	5809	6370	6963	7339	7056	6923	7381	7367	7088	6573	5820	
11	7810	8547	9139	9629	9948	9291	9507	9928	10028	9219	8270	7518	
12	8293	9211	10306	10962	10894	10374	10486	10749	10582	9538	8805	8124	
13	9480	10255	10670	10733	10645	10223	10301	10739	10624	9800	9188	8770	
14	9019	9735	9714	9428	9220	8861	8854	9032	8964	8306	7830	8100	
15	6891	7581	7391	7105	6912	6610	6648	6787	6668	6194	5896	6225	
16	4657	4856	4325	4037	3952	3811	3741	3696	3601	3460	3513	3999	
17	2322	2384	2165	1978	2028	2051	2101	1965	1738	1600	1703	2005	
18	813	836	697	604	673	773	741	584	435	408	384	649	
19	441	413	336	286	338	342	327	284	302	362	400	434	
20	420	406	350	291	300	298	295	280	299	347	367	395	
21	348	321	255	207	210	208	197	183	192	219	269	322	
22	186	172	142	116	120	122	120	108	103	108	127	165	
23	45	49	43	35	36	42	40	30	20	11	0	28	
	60914	65441	67559	69043	69749	66893	66969	68597	67892	63423	59527	57690	783697

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-2175	-2238	-2669	-3179	-3199	-3193	-3192	-3191	-3022	-2413	-2313	-2258	
1	-2289	-2388	-2798	-3244	-3312	-3229	-3219	-3242	-3101	-2434	-2318	-2279	
2	-2559	-2575	-2926	-3336	-3347	-3347	-3397	-3556	-3539	-2666	-2508	-2514	
3	-2985	-2817	-3239	-3345	-3347	-3347	-3398	-3559	-3545	-2667	-2556	-2753	
4	-3164	-2965	-3352	-3449	-3556	-3403	-3445	-3629	-3551	-2678	-2641	-2981	
5	-3344	-3354	-3477	-3757	-4000	-3757	-3846	-4097	-3749	-2874	-2971	-3329	
6	-3347	-3360	-3468	-3723	-4009	-4012	-4023	-4038	-3759	-3026	-3251	-3344	
7	-2924	-2924	-2893	-2887	-2829	-2857	-2955	-3134	-3077	-2120	-2208	-2747	
8	-551	-488	-272	70	215	85	-12	-122	-75	640	541	-40	
9	2502	2729	3053	3490	3735	3590	3515	3586	3688	3794	3547	2902	
10	5181	5260	5690	6226	6550	6359	6214	6602	6693	6742	6345	5538	
11	8399	8582	8610	8932	9164	8607	8970	9391	9629	9448	8642	8235	
12	8920	9437	10231	10495	10416	10035	10571	10639	10234	9838	9300	8863	
13	10402	10762	10820	10551	10454	10163	10592	10845	10545	10411	10022	9853	
14	10107	10405	9778	9401	9190	8909	8941	9045	9046	8947	8639	9091	
15	7751	8243	7440	7105	6912	6611	6695	6812	6669	6313	6256	7002	
16	5591	5546	4350	4037	3952	3834	3783	3745	3683	3704	3907	4608	
17	2673	2636	2311	2006	2050	2120	2288	2115	1824	1803	1959	2347	
18	1125	1053	768	370	375	635	780	591	383	564	605	973	
19	653	497	-154	-777	-942	-602	-546	-586	-436	187	338	498	
20	228	59	-735	-1227	-1274	-1204	-1178	-1193	-1041	-477	-319	-65	
21	-389	-622	-1301	-1585	-1757	-1486	-1435	-1425	-1281	-769	-610	-487	
22	-1286	-1346	-1602	-1970	-1979	-1972	-1972	-1984	-1876	-1480	-1385	-1315	
23	-1550	-1540	-1779	-2136	-2194	-2097	-2067	-2071	-1975	-1594	-1564	-1578	
	36969	38592	32386	28068	27268	26442	27664	27544	28367	37193	35457	34220	380170

D4 Ladrillo hueco (H15) / Teja termoacústica (Estrutech)

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	26	28	47	69	84	80	73	73	80	75	63	40	
9	206	212	264	341	385	371	359	355	339	308	278	227	
10	488	519	586	702	776	763	747	738	701	668	623	534	
11	851	883	972	1104	1202	1179	1159	1187	1133	1076	998	885	
12	1210	1321	1426	1555	1661	1581	1603	1625	1594	1459	1309	1178	
13	1409	1543	1740	1913	1996	1936	1935	1934	1845	1657	1536	1405	
14	1814	1897	1946	2018	2093	2051	2041	2070	1992	1871	1806	1723	
15	1888	1956	1883	1863	1915	1868	1897	1860	1798	1720	1705	1760	
16	1589	1652	1532	1472	1502	1497	1506	1475	1407	1369	1360	1437	
17	1108	1116	978	877	918	926	907	857	808	844	898	1005	
18	707	670	532	467	535	580	553	476	449	506	563	646	
19	495	478	398	340	392	404	389	333	329	373	400	467	
20	420	406	350	291	300	298	295	280	299	347	367	395	
21	348	321	255	207	210	208	197	183	192	219	269	322	
22	186	172	142	116	120	122	120	108	103	108	127	165	
23	45	49	43	35	36	42	40	30	20	11	0	28	
	12790	13223	13094	13370	14125	13906	13821	13584	13089	12611	12302	12217	158132

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-679	-682	-913	-1125	-1159	-1119	-1111	-1108	-1041	-792	-765	-766	
1	-798	-861	-1068	-1232	-1292	-1209	-1199	-1222	-1180	-863	-805	-788	
2	-1068	-1048	-1196	-1323	-1327	-1327	-1337	-1368	-1331	-1039	-994	-1023	
3	-1068	-1048	-1196	-1323	-1327	-1327	-1342	-1389	-1367	-1046	-994	-1023	
4	-1293	-1221	-1343	-1429	-1536	-1383	-1389	-1458	-1373	-1057	-1084	-1277	
5	-1306	-1301	-1416	-1550	-1620	-1622	-1627	-1638	-1547	-1242	-1268	-1283	
6	-1327	-1339	-1413	-1526	-1550	-1519	-1540	-1603	-1539	-1195	-1198	-1323	
7	-1065	-1080	-1154	-1268	-1306	-1307	-1328	-1395	-1369	-975	-950	-988	
8	-885	-845	-911	-917	-903	-907	-931	-981	-956	-697	-696	-813	
9	-563	-522	-559	-486	-442	-456	-484	-543	-562	-319	-295	-422	
10	54	-33	-95	-45	-24	54	27	-50	27	282	259	129	
11	424	378	398	406	418	420	484	488	461	635	541	492	
12	908	883	869	917	1021	977	1079	1035	969	1157	1051	913	
13	1404	1407	1456	1578	1661	1633	1668	1595	1493	1666	1617	1484	
14	2109	2107	2017	2010	2081	2053	2098	2112	2030	1976	1977	2022	
15	2155	2146	1891	1863	1915	1878	1909	1863	1808	1818	1870	1961	
16	1987	1887	1551	1472	1502	1519	1553	1526	1489	1583	1647	1857	
17	1496	1397	1125	905	941	994	1095	1007	894	1052	1168	1375	
18	1023	889	604	331	345	499	592	483	419	662	785	970	
19	707	563	218	46	94	135	134	55	91	391	470	586	
20	476	372	34	-136	-195	-92	-59	-72	-21	185	284	444	
21	215	142	-176	-339	-339	-342	-352	-366	-322	-159	-58	51	
22	-169	-212	-343	-455	-474	-438	-432	-441	-411	-283	-241	-193	
23	-492	-451	-539	-651	-703	-606	-576	-580	-564	-460	-483	-519	
	2245	1528	-2159	-4277	-4219	-3492	-3068	-4050	-3902	1280	1838	1866	-16410

E1 Bloque de concreto / Teja de barro, tierra y caña brava pañetada

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	2	3	6	13	19	20	17	15	12	8	6	4	
9	18	18	28	51	74	80	74	62	40	24	22	20	
10	31	32	42	83	124	133	125	101	58	38	35	32	
11	82	86	121	200	266	279	267	230	188	169	147	106	
12	418	432	530	693	798	782	760	730	686	640	577	465	
13	1048	1105	1250	1477	1644	1623	1588	1569	1505	1441	1348	1155	
14	1963	1989	2127	2354	2550	2495	2437	2522	2454	2380	2270	2041	
15	2741	2891	2968	3118	3292	3122	3209	3259	3234	3045	2858	2674	
16	2901	3095	3266	3408	3448	3349	3390	3406	3313	3080	2936	2795	
17	3017	3192	3208	3135	3154	3074	3093	3164	3106	2966	2865	2808	
18	2742	2883	2752	2605	2600	2550	2515	2503	2504	2426	2350	2476	
19	2131	2292	2177	2038	2018	1940	1926	1935	1940	1876	1824	1945	
20	1509	1556	1383	1246	1215	1165	1141	1129	1141	1146	1171	1321	
21	853	847	737	652	651	646	649	612	573	551	618	745	
22	300	305	265	225	229	245	245	206	162	137	139	239	
23	49	54	47	38	39	46	43	33	22	12	0	31	
	19805	20780	20907	21336	22121	21549	21479	21476	20938	19939	19166	18857	248353

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-648	-706	-1013	-1253	-1305	-1239	-1224	-1218	-1136	-820	-769	-731	
1	-893	-962	-1192	-1387	-1454	-1363	-1352	-1374	-1324	-969	-903	-882	
2	-1178	-1161	-1325	-1487	-1492	-1492	-1502	-1533	-1489	-1161	-1108	-1133	
3	-1273	-1211	-1394	-1530	-1580	-1512	-1508	-1536	-1494	-1168	-1143	-1236	
4	-1474	-1422	-1568	-1725	-1840	-1679	-1679	-1733	-1621	-1279	-1302	-1479	
5	-1489	-1509	-1647	-1857	-1929	-1931	-1932	-1929	-1810	-1477	-1495	-1486	
6	-1492	-1514	-1638	-1813	-1821	-1817	-1836	-1900	-1862	-1441	-1409	-1489	
7	-1323	-1308	-1447	-1556	-1564	-1564	-1595	-1696	-1697	-1201	-1133	-1205	
8	-1178	-1105	-1258	-1282	-1278	-1277	-1302	-1371	-1357	-1012	-976	-1074	
9	-1173	-1132	-1229	-1241	-1255	-1197	-1235	-1347	-1316	-969	-937	-1078	
10	-955	-1069	-1199	-1253	-1330	-1224	-1246	-1342	-1220	-837	-869	-924	
11	-899	-971	-1005	-1054	-1082	-1045	-981	-1070	-1080	-727	-795	-849	
12	-309	-383	-349	-263	-161	-148	-106	-237	-329	56	33	-167	
13	900	854	881	1070	1236	1235	1198	1122	1084	1358	1320	1090	
14	2153	2121	2146	2324	2517	2464	2423	2508	2459	2422	2380	2247	
15	3132	3141	2981	3118	3292	3140	3241	3294	3295	3225	3132	3035	
16	3478	3444	3387	3445	3483	3433	3571	3567	3468	3448	3400	3419	
17	3593	3594	3473	3205	3216	3209	3432	3435	3266	3333	3327	3424	
18	3278	3236	2846	2474	2414	2492	2592	2529	2500	2732	2752	3007	
19	2516	2507	2009	1754	1732	1679	1683	1664	1707	1930	1974	2230	
20	1715	1648	1104	902	826	847	854	841	874	1016	1139	1451	
21	770	722	392	231	229	223	227	190	174	246	361	536	
22	14	6	-90	-220	-223	-191	-178	-216	-242	-180	-163	-57	
23	-361	-316	-454	-641	-739	-572	-527	-527	-503	-365	-383	-402	
	6904	6504	2411	-39	-108	471	1018	121	347	6160	6433	6247	36469

E2 Bloque de concreto / Teja de barro, mortero y machimbre

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	2	3	6	13	19	20	17	15	12	8	6	4	
9	109	117	182	265	324	314	288	286	300	285	240	159	
10	753	774	951	1196	1315	1251	1220	1227	1206	1129	1020	828	
11	1791	1912	2135	2475	2652	2588	2554	2569	2533	2466	2300	1968	
12	3192	3319	3647	4024	4279	4135	4053	4278	4240	4076	3776	3332	
13	4577	4990	5360	5698	5955	5594	5697	5910	5924	5441	4894	4436	
14	5101	5581	6176	6588	6620	6340	6384	6515	6376	5796	5417	5018	
15	5884	6275	6408	6429	6424	6186	6270	6469	6379	5958	5686	5485	
16	5527	5899	5778	5561	5463	5292	5311	5368	5307	4979	4746	4946	
17	4074	4454	4305	4059	3966	3828	3827	3888	3809	3601	3459	3681	
18	2714	2795	2428	2223	2211	2160	2077	2017	1997	1992	2053	2357	
19	1487	1506	1342	1216	1265	1263	1278	1185	1102	1056	1127	1310	
20	664	690	617	526	535	563	562	494	432	421	401	554	
21	380	350	278	226	229	226	215	200	209	239	293	351	
22	203	188	154	127	131	133	131	118	112	118	139	180	
23	49	54	47	38	39	46	43	33	22	12	0	31	
	36507	38907	39814	40664	41427	39939	39927	40572	39960	37577	35557	34640	465491

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-976	-1012	-1293	-1608	-1623	-1617	-1616	-1615	-1523	-1171	-1109	-1067	
1	-1273	-1265	-1558	-1756	-1905	-1692	-1654	-1666	-1602	-1203	-1178	-1275	
2	-1575	-1568	-1785	-2010	-2017	-2017	-2026	-2057	-1987	-1575	-1510	-1530	
3	-1575	-1568	-1785	-2010	-2017	-2017	-2027	-2060	-1992	-1576	-1510	-1530	
4	-1767	-1721	-1907	-2120	-2236	-2075	-2090	-2196	-2111	-1609	-1599	-1772	
5	-1948	-1903	-2109	-2255	-2326	-2327	-2344	-2391	-2299	-1807	-1811	-1872	
6	-1951	-1909	-2100	-2211	-2217	-2213	-2240	-2325	-2289	-1759	-1725	-1875	
7	-1755	-1771	-1862	-2025	-2101	-2005	-2063	-2235	-2134	-1523	-1495	-1673	
8	-1610	-1568	-1673	-1755	-1861	-1863	-1880	-1913	-1802	-1413	-1482	-1547	
9	-1478	-1429	-1462	-1383	-1324	-1334	-1389	-1486	-1478	-1029	-1050	-1332	
10	-202	-301	-256	-72	-10	25	-36	-156	-68	404	343	28	
11	1301	1335	1497	1671	1752	1712	1762	1762	1793	1966	1767	1500	
12	2729	2761	3024	3324	3577	3461	3452	3604	3520	3668	3429	2934	
13	4827	4955	5009	5313	5570	5259	5384	5545	5610	5621	5197	4812	
14	5692	5996	6385	6625	6651	6417	6615	6696	6501	6093	5828	5637	
15	6462	6690	6601	6496	6487	6294	6516	6664	6500	6255	6107	6043	
16	6234	6302	5811	5561	5463	5346	5395	5431	5426	5440	5313	5644	
17	4696	4907	4482	4092	3993	3904	4049	4061	3903	3857	3845	4313	
18	3294	3231	2516	2091	2025	2086	2133	2037	1976	2183	2351	2814	
19	1734	1616	1164	932	978	1001	1025	908	869	1091	1217	1452	
20	739	671	335	144	104	224	275	207	156	281	339	628	
21	290	218	-189	-500	-583	-462	-449	-455	-387	-141	-16	120	
22	-180	-233	-515	-757	-762	-755	-756	-769	-707	-467	-405	-317	
23	-609	-629	-861	-1010	-1129	-922	-867	-862	-814	-590	-596	-622	
	21099	21805	17469	14777	14489	14430	15169	14729	15061	20996	20250	19513	209787

E3 Bloque de concreto / Teja de asbesto

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	162	177	276	380	446	418	382	400	464	465	389	249	
8	1291	1329	1629	1998	2145	2015	1970	2025	2061	1955	1764	1426	
9	3146	3360	3751	4291	4543	4398	4336	4426	4444	4343	4049	3461	
10	5590	5809	6370	6963	7339	7056	6923	7381	7367	7088	6573	5820	
11	7810	8547	9139	9629	9948	9291	9507	9928	10028	9219	8270	7518	
12	8296	9214	10309	10968	10901	10380	10491	10755	10589	9544	8810	8128	
13	9493	10269	10687	10756	10671	10248	10326	10765	10647	9820	9207	8786	
14	9055	9769	9747	9467	9263	8903	8896	9074	9002	8344	7871	8138	
15	6944	7630	7434	7150	6962	6659	6700	6837	6714	6241	5949	6279	
16	4714	4909	4369	4080	3999	3861	3791	3743	3644	3506	3563	4051	
17	2367	2426	2200	2008	2062	2088	2138	1998	1768	1636	1744	2049	
18	852	870	720	623	698	801	767	605	456	437	417	686	
19	481	450	367	311	368	372	355	309	329	394	437	474	
20	458	442	382	317	327	325	322	305	327	379	401	431	
21	380	350	278	226	229	226	215	200	209	239	293	351	
22	203	188	154	127	131	133	131	118	112	118	139	180	
23	49	54	47	38	39	46	43	33	22	12	0	31	
	61291	65793	67859	69332	70071	67220	67293	68902	68183	63740	59876	58058	787618

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-2182	-2246	-2690	-3211	-3231	-3225	-3224	-3224	-3052	-2432	-2330	-2272	
1	-2306	-2409	-2831	-3281	-3354	-3264	-3252	-3275	-3131	-2453	-2335	-2295	
2	-2591	-2608	-2964	-3381	-3393	-3393	-3443	-3602	-3583	-2701	-2541	-2546	
3	-3017	-2850	-3277	-3390	-3393	-3393	-3443	-3605	-3588	-2702	-2589	-2785	
4	-3208	-3004	-3399	-3500	-3613	-3451	-3491	-3674	-3594	-2714	-2678	-3026	
5	-3390	-3401	-3530	-3818	-4062	-3818	-3908	-4158	-3808	-2922	-3017	-3374	
6	-3393	-3406	-3521	-3785	-4071	-4074	-4085	-4100	-3817	-3074	-3298	-3390	
7	-2969	-2971	-2946	-2948	-2890	-2919	-3018	-3201	-3144	-2169	-2255	-2792	
8	-608	-541	-334	8	153	24	-75	-189	-142	590	494	-92	
9	2445	2676	2992	3429	3673	3528	3452	3519	3622	3745	3499	2850	
10	5120	5198	5627	6159	6478	6294	6147	6528	6626	6692	6294	5477	
11	8337	8520	8547	8865	9090	8532	8895	9317	9561	9393	8580	8174	
12	8861	9377	10173	10438	10360	9979	10514	10578	10174	9794	9253	8805	
13	10383	10744	10805	10541	10447	10156	10583	10833	10531	10411	10022	9845	
14	10143	10438	9811	9437	9231	8948	8980	9085	9085	8985	8680	9129	
15	7805	8292	7482	7150	6962	6661	6747	6862	6715	6362	6313	7059	
16	5676	5614	4395	4080	3999	3885	3837	3796	3733	3768	3980	4692	
17	2746	2698	2360	2040	2089	2164	2342	2161	1862	1857	2022	2421	
18	1192	1107	805	394	404	672	823	625	412	611	662	1041	
19	718	549	-123	-752	-912	-570	-514	-560	-407	237	394	560	
20	285	110	-702	-1201	-1247	-1177	-1150	-1167	-1014	-443	-279	-11	
21	-341	-579	-1278	-1567	-1738	-1467	-1417	-1408	-1263	-748	-582	-450	
22	-1268	-1330	-1589	-1960	-1968	-1961	-1961	-1975	-1867	-1470	-1373	-1300	
23	-1546	-1536	-1775	-2135	-2194	-2094	-2063	-2068	-1974	-1593	-1564	-1575	
	36892	38442	32038	27612	26820	26037	27276	27098	27937	37024	35352	34145	376673

E4 Bloque de concreto / Teja termoacústica (Estrutech)

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	26	28	47	69	84	80	73	73	80	75	63	40	
9	206	212	264	341	385	371	359	355	339	308	278	227	
10	488	519	586	702	776	763	747	738	701	668	623	534	
11	851	883	972	1104	1202	1179	1159	1187	1133	1076	998	885	
12	1212	1324	1429	1561	1668	1588	1608	1631	1600	1465	1314	1181	
13	1423	1557	1757	1935	2022	1962	1960	1959	1868	1677	1555	1420	
14	1850	1931	1979	2057	2136	2094	2083	2112	2030	1909	1847	1761	
15	1940	2005	1926	1908	1965	1918	1950	1909	1844	1768	1758	1814	
16	1646	1706	1576	1515	1548	1546	1557	1521	1450	1415	1410	1489	
17	1153	1159	1014	906	953	963	944	891	838	880	938	1049	
18	746	704	556	486	560	609	578	496	470	534	597	683	
19	535	515	428	366	423	434	418	358	356	405	437	506	
20	458	442	382	317	327	325	322	305	327	379	401	431	
21	380	350	278	226	229	226	215	200	209	239	293	351	
22	203	188	154	127	131	133	118	112	118	118	139	180	
23	49	54	47	38	39	46	43	33	22	12	0	31	
	13166	13577	13395	13658	14448	14237	14147	13886	13379	12928	12651	12582	162054

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-686	-690	-934	-1157	-1191	-1152	-1143	-1140	-1071	-811	-782	-780	
1	-815	-882	-1101	-1269	-1334	-1243	-1232	-1255	-1210	-881	-822	-804	
2	-1100	-1081	-1234	-1369	-1373	-1373	-1382	-1413	-1375	-1074	-1027	-1055	
3	-1100	-1081	-1234	-1369	-1373	-1373	-1387	-1434	-1411	-1081	-1027	-1055	
4	-1337	-1260	-1389	-1479	-1592	-1431	-1435	-1504	-1417	-1092	-1121	-1322	
5	-1352	-1347	-1469	-1611	-1682	-1683	-1688	-1699	-1605	-1290	-1315	-1329	
6	-1373	-1386	-1465	-1587	-1612	-1581	-1602	-1664	-1598	-1243	-1245	-1368	
7	-1111	-1127	-1206	-1330	-1367	-1368	-1391	-1461	-1435	-1025	-996	-1034	
8	-942	-899	-973	-979	-965	-968	-994	-1047	-1023	-747	-744	-865	
9	-620	-576	-620	-547	-504	-517	-547	-609	-629	-369	-343	-474	
10	-8	-94	-157	-112	-96	-11	-40	-124	-40	232	207	68	
11	363	316	335	339	344	345	409	414	393	580	480	430	
12	848	824	811	861	966	922	1022	975	909	1113	1004	855	
13	1386	1388	1441	1568	1654	1626	1660	1583	1479	1665	1618	1476	
14	2146	2141	2050	2045	2121	2092	2136	2152	2068	2014	2018	2060	
15	2208	2195	1934	1908	1965	1927	1962	1912	1853	1866	1926	2019	
16	2072	1955	1596	1515	1548	1570	1607	1577	1539	1647	1720	1940	
17	1569	1459	1174	939	980	1039	1148	1053	932	1106	1232	1449	
18	1090	943	640	355	374	535	634	517	449	709	841	1038	
19	771	615	249	71	124	167	165	81	121	440	527	648	
20	533	424	67	-110	-168	-65	-31	-45	6	219	325	498	
21	264	186	-153	-320	-320	-323	-334	-350	-305	-138	-30	87	
22	-151	-196	-330	-444	-463	-427	-421	-432	-402	-273	-229	-178	
23	-488	-446	-535	-650	-703	-603	-572	-577	-563	-459	-483	-517	
	2167	1381	-2503	-4732	-4667	-3895	-3456	-4490	-4335	1108	1734	1787	-19901

F1 Poliestireno Expandido (Durapanel)/Teja de barro, tierra y caña brava pañetada

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	2	3	6	13	19	20	17	15	12	8	6	4	
9	24	25	38	67	93	97	90	78	58	40	36	29	
10	70	71	91	147	198	205	196	173	124	94	89	77	
11	186	183	216	309	390	400	387	349	298	279	263	215	
12	542	543	607	756	864	850	845	804	741	708	669	579	
13	1048	1093	1169	1330	1464	1458	1433	1403	1351	1334	1265	1117	
14	1653	1704	1832	1979	2128	2092	2041	2114	2075	2021	1896	1708	
15	2219	2401	2523	2634	2763	2611	2652	2724	2745	2558	2318	2134	
16	2327	2563	2826	2972	2975	2846	2870	2918	2880	2623	2440	2275	
17	2588	2790	2875	2855	2819	2708	2728	2840	2828	2631	2478	2386	
18	2369	2560	2538	2430	2355	2258	2259	2305	2304	2137	2018	2113	
19	1703	1893	1853	1762	1689	1610	1611	1660	1640	1510	1421	1518	
20	1062	1127	1012	938	897	850	829	831	819	771	770	898	
21	474	497	459	426	422	419	434	412	364	311	325	394	
22	97	116	110	98	98	112	113	89	50	20	0	58	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	16364	17569	18155	18716	19174	18536	18505	18715	18289	17045	15994	15505	212567

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-659	-702	-864	-999	-1047	-981	-966	-960	-904	-695	-660	-651	
1	-814	-817	-931	-1086	-1107	-1083	-1087	-1116	-1092	-845	-807	-817	
2	-920	-896	-1025	-1119	-1122	-1122	-1131	-1162	-1136	-881	-844	-875	
3	-1015	-946	-1093	-1162	-1210	-1142	-1138	-1165	-1141	-888	-879	-978	
4	-1073	-1082	-1164	-1292	-1337	-1278	-1303	-1376	-1291	-994	-984	-1066	
5	-1106	-1101	-1188	-1296	-1365	-1367	-1370	-1378	-1296	-1042	-1076	-1088	
6	-1109	-1106	-1180	-1251	-1256	-1252	-1275	-1348	-1348	-1006	-990	-1091	
7	-952	-924	-992	-1009	-1028	-1009	-1034	-1112	-1091	-749	-725	-834	
8	-668	-642	-701	-733	-751	-750	-762	-788	-752	-576	-581	-626	
9	-656	-662	-657	-660	-672	-615	-645	-724	-689	-501	-499	-619	
10	-266	-382	-489	-479	-489	-465	-463	-486	-454	-240	-249	-209	
11	-53	-135	-157	-147	-69	-32	30	-64	-156	46	59	1	
12	557	469	468	540	646	661	732	633	524	725	753	694	
13	1363	1272	1192	1312	1443	1463	1455	1411	1396	1545	1521	1419	
14	1923	1900	1889	1995	2144	2118	2111	2168	2105	2116	2072	2002	
15	2683	2707	2574	2648	2776	2650	2732	2798	2830	2777	2612	2542	
16	2642	2777	2936	3009	3010	2911	3013	3028	2952	2818	2684	2593	
17	2878	2996	2984	2869	2828	2754	2866	2949	2889	2785	2685	2686	
18	2613	2716	2474	2243	2117	2111	2131	2168	2199	2225	2154	2296	
19	1795	1934	1670	1478	1402	1324	1336	1380	1382	1365	1331	1537	
20	1042	1046	718	587	499	528	527	536	550	612	649	811	
21	191	204	87	-55	-78	-56	-36	-56	-74	-21	13	95	
22	-218	-215	-307	-438	-447	-416	-402	-426	-438	-351	-350	-277	
23	-459	-433	-596	-754	-863	-699	-665	-652	-600	-430	-431	-479	
	7719	7978	5648	4201	4024	4253	4656	4258	4365	7795	7458	7066	69421

F2 Poliestireno Expandido (Durapanel) / Teja de barro, mortero y machimbre

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	2	3	6	13	19	20	17	15	12	8	6	4	
9	115	124	193	280	342	331	304	302	318	301	254	169	
10	792	814	1000	1259	1389	1324	1291	1299	1272	1185	1074	873	
11	1896	2008	2229	2584	2776	2709	2673	2689	2643	2576	2417	2077	
12	3316	3430	3724	4086	4345	4202	4138	4352	4295	4144	3868	3446	
13	4576	4977	5280	5551	5775	5429	5542	5744	5770	5334	4811	4398	
14	4790	5296	5881	6213	6199	5937	5988	6107	5998	5438	5043	4685	
15	5362	5785	5963	5945	5896	5675	5714	5934	5890	5470	5146	4945	
16	4954	5367	5338	5125	4990	4789	4790	4880	4874	4522	4249	4426	
17	3646	4052	3972	3779	3631	3462	3462	3564	3531	3267	3072	3259	
18	2342	2471	2214	2047	1967	1869	1820	1819	1796	1703	1722	1993	
19	1059	1106	1018	941	936	932	963	910	803	691	723	883	
20	218	260	246	218	217	249	251	196	111	45	0	131	
21	0	0	0	0	0	0	0	0	0	0	0	0	
22	0	0	0	0	0	0	0	0	0	0	0	0	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	33068	35693	37064	38041	38482	36928	36953	37811	37313	34684	32385	31289	429711

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-987	-1008	-1143	-1355	-1365	-1359	-1358	-1358	-1291	-1045	-1001	-987	
1	-1194	-1120	-1296	-1454	-1559	-1412	-1390	-1409	-1370	-1080	-1083	-1210	
2	-1318	-1303	-1485	-1642	-1646	-1646	-1656	-1687	-1634	-1294	-1245	-1273	
3	-1318	-1303	-1485	-1642	-1646	-1646	-1657	-1690	-1640	-1295	-1245	-1273	
4	-1365	-1382	-1503	-1687	-1733	-1674	-1715	-1838	-1780	-1324	-1281	-1359	
5	-1565	-1495	-1650	-1694	-1761	-1763	-1782	-1840	-1785	-1372	-1392	-1474	
6	-1568	-1501	-1641	-1650	-1653	-1648	-1678	-1774	-1775	-1324	-1306	-1477	
7	-1385	-1387	-1407	-1479	-1565	-1450	-1501	-1651	-1528	-1071	-1087	-1302	
8	-1100	-1105	-1115	-1206	-1334	-1337	-1340	-1329	-1197	-976	-1087	-1099	
9	-962	-959	-890	-803	-741	-752	-799	-863	-851	-561	-612	-873	
10	486	387	454	701	831	783	747	700	698	1001	964	743	
11	2146	2171	2345	2578	2764	2724	2773	2767	2717	2739	2622	2350	
12	3595	3613	3841	4127	4384	4269	4290	4474	4373	4337	4150	3795	
13	5290	5373	5320	5554	5777	5487	5641	5835	5923	5809	5397	5141	
14	5462	5775	6129	6296	6278	6070	6303	6355	6146	5787	5520	5392	
15	6013	6256	6194	6025	5972	5804	6008	6168	6035	5807	5588	5550	
16	5398	5635	5360	5125	4990	4824	4837	4892	4910	4809	4597	4819	
17	3981	4309	3993	3756	3605	3449	3484	3575	3526	3308	3203	3575	
18	2629	2712	2144	1860	1728	1705	1672	1676	1675	1675	1754	2102	
19	1013	1044	825	657	649	647	678	625	544	526	575	759	
20	66	68	-51	-172	-222	-95	-51	-99	-167	-123	-151	-12	
21	-289	-300	-494	-786	-889	-742	-712	-701	-635	-408	-364	-320	
22	-412	-455	-732	-975	-985	-980	-979	-979	-903	-638	-592	-537	
23	-706	-745	-1003	-1123	-1253	-1049	-1005	-988	-912	-656	-644	-699	
	21910	23280	20710	19011	18626	18209	18810	18861	19079	22631	21280	20331	242738

F3 Poliestireno Expandido (Durapanel) / Teja de asbesto

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	162	177	276	380	446	418	382	400	464	465	389	249	
8	1291	1329	1629	1998	2145	2015	1970	2025	2061	1955	1764	1426	
9	3152	3366	3762	4307	4561	4416	4351	4442	4463	4359	4064	3470	
10	5629	5848	6419	7027	7413	7129	6994	7452	7433	7145	6627	5864	
11	7914	8643	9233	9739	10072	9412	9627	10048	10138	9329	8386	7627	
12	8419	9325	10385	11030	10966	10448	10576	10829	10643	9612	8902	8242	
13	9492	10256	10607	10609	10490	10083	10171	10598	10493	9713	9123	8747	
14	8744	9484	9452	9091	8842	8500	8500	8666	8623	7986	7497	7805	
15	6422	7140	6989	6666	6433	6148	6143	6301	6225	5754	5409	5739	
16	4141	4377	3929	3644	3526	3358	3271	3255	3211	3049	3066	3531	
17	1938	2023	1867	1727	1727	1722	1773	1674	1491	1301	1357	1627	
18	479	547	506	448	454	510	511	407	256	147	85	322	
19	54	51	43	36	39	42	41	34	29	29	33	46	
20	12	13	11	9	9	11	10	8	5	3	0	7	
21	0	0	0	0	0	0	0	0	0	0	0	0	
22	0	0	0	0	0	0	0	0	0	0	0	0	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	57849	62579	65108	66711	67123	64212	64320	66139	65535	60847	56702	54702	751827

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-2192	-2242	-2541	-2957	-2973	-2968	-2966	-2966	-2820	-2306	-2221	-2193	
1	-2227	-2264	-2570	-2980	-3008	-2984	-2988	-3017	-2899	-2329	-2240	-2230	
2	-2333	-2343	-2664	-3013	-3023	-3023	-3072	-3232	-3230	-2421	-2276	-2288	
3	-2759	-2586	-2976	-3022	-3023	-3023	-3073	-3235	-3235	-2422	-2325	-2527	
4	-2807	-2664	-2995	-3067	-3109	-3050	-3115	-3317	-3264	-2428	-2361	-2613	
5	-3007	-2993	-3071	-3257	-3497	-3254	-3346	-3607	-3294	-2487	-2598	-2976	
6	-3010	-2998	-3062	-3223	-3507	-3509	-3524	-3548	-3303	-2639	-2879	-2992	
7	-2599	-2587	-2491	-2401	-2354	-2364	-2456	-2617	-2538	-1717	-1847	-2421	
8	-98	-78	224	557	680	550	464	395	463	1027	889	357	
9	2961	3146	3563	4009	4256	4110	4042	4142	4248	4213	3937	3309	
10	5808	5885	6337	6933	7319	7052	6930	7384	7392	7290	6914	6192	
11	9183	9356	9395	9772	10102	9544	9905	10322	10485	10166	9435	9023	
12	9727	10229	10990	11241	11167	10788	11352	11448	11027	10464	9974	9666	
13	10846	11162	11116	10783	10654	10385	10840	11122	10844	10598	10223	10174	
14	9914	10217	9554	9108	8857	8602	8668	8744	8730	8679	8372	8884	
15	7355	7858	7075	6679	6446	6171	6239	6365	6250	5914	5793	6566	
16	4840	4947	3944	3644	3526	3364	3279	3257	3217	3138	3264	3866	
17	2031	2101	1871	1704	1701	1709	1777	1676	1485	1309	1380	1683	
18	527	587	432	163	107	291	362	264	112	104	64	329	
19	-4	-24	-461	-1027	-1242	-924	-861	-844	-732	-328	-248	-133	
20	-388	-493	-1088	-1516	-1573	-1496	-1476	-1473	-1337	-848	-768	-651	
21	-920	-1097	-1583	-1853	-2045	-1747	-1680	-1654	-1512	-1015	-930	-891	
22	-1500	-1551	-1806	-2178	-2191	-2186	-2185	-2185	-2063	-1641	-1560	-1521	
23	-1644	-1652	-1917	-2248	-2318	-2221	-2201	-2193	-2072	-1658	-1612	-1652	
	37704	39916	35276	31851	30952	29817	30915	31231	31954	38663	36380	34961	409620

F4 Poliestireno Expandido (Durapanel) / Teja termoacústica (Estrutech)

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	26	28	47	69	84	80	73	73	80	75	63	40	
9	213	219	275	357	403	389	375	372	357	324	293	237	
10	527	558	635	766	851	836	819	810	767	725	677	579	
11	955	980	1067	1213	1326	1301	1278	1307	1243	1185	1115	994	
12	1336	1435	1506	1623	1733	1655	1693	1705	1654	1533	1406	1296	
13	1422	1544	1677	1788	1841	1797	1805	1792	1714	1570	1472	1382	
14	1539	1646	1684	1682	1715	1691	1687	1704	1651	1551	1473	1428	
15	1418	1515	1481	1424	1436	1407	1393	1374	1355	1280	1218	1274	
16	1072	1174	1136	1079	1075	1043	1036	1033	1017	958	913	969	
17	724	756	680	626	618	597	579	566	561	546	551	627	
18	374	381	342	311	316	318	322	298	269	245	265	320	
19	107	116	104	90	93	104	103	83	57	40	33	78	
20	12	13	11	9	9	11	10	8	5	3	0	7	
21	0	0	0	0	0	0	0	0	0	0	0	0	
22	0	0	0	0	0	0	0	0	0	0	0	0	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	9725	10365	10645	11037	11500	11229	11173	11125	10730	10035	9479	9231	126274

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-696	-686	-785	-903	-933	-894	-886	-882	-839	-685	-673	-701	
1	-736	-737	-840	-968	-988	-964	-968	-997	-978	-758	-726	-739	
2	-842	-816	-934	-1001	-1002	-1002	-1012	-1043	-1022	-793	-763	-797	
3	-842	-816	-934	-1001	-1002	-1002	-1017	-1064	-1058	-800	-763	-797	
4	-935	-921	-985	-1047	-1089	-1030	-1059	-1146	-1086	-807	-804	-909	
5	-969	-940	-1010	-1050	-1117	-1119	-1127	-1148	-1091	-855	-896	-931	
6	-989	-978	-1006	-1026	-1047	-1017	-1041	-1113	-1084	-808	-826	-970	
7	-741	-743	-752	-783	-831	-813	-829	-877	-829	-573	-589	-663	
8	-433	-436	-416	-430	-438	-442	-455	-464	-418	-310	-349	-417	
9	-104	-106	-49	33	79	64	43	13	-3	99	95	-15	
10	680	593	553	661	745	748	743	732	726	829	827	783	
11	1208	1151	1183	1246	1356	1358	1420	1419	1316	1352	1335	1280	
12	1715	1676	1628	1664	1772	1730	1860	1844	1762	1783	1725	1716	
13	1848	1806	1752	1810	1862	1855	1917	1873	1792	1853	1818	1805	
14	1916	1920	1793	1716	1748	1746	1824	1811	1713	1708	1710	1815	
15	1759	1762	1527	1437	1449	1437	1454	1416	1388	1418	1407	1526	
16	1236	1288	1145	1079	1075	1049	1049	1038	1023	1016	1004	1115	
17	854	861	685	603	592	584	583	568	555	557	590	711	
18	425	423	268	124	77	154	174	156	148	202	244	327	
19	50	42	-89	-204	-205	-188	-182	-202	-204	-124	-115	-45	
20	-140	-179	-319	-426	-494	-384	-357	-351	-317	-185	-165	-142	
21	-316	-332	-458	-607	-627	-602	-597	-595	-553	-406	-378	-353	
22	-383	-417	-547	-662	-686	-652	-645	-642	-597	-444	-416	-399	
23	-586	-563	-677	-763	-827	-730	-710	-702	-661	-524	-531	-594	
	2979	2852	733	-498	-531	-114	182	-356	-317	2745	2761	2606	13042

Anexo N. Flujos energéticos anuales para combinación de materiales, casa 2

Ganancias internas													
HOUR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	
0	703	703	703	703	703	703	703	703	703	703	703	703	
1	703	703	703	703	703	703	703	703	703	703	703	703	
2	703	703	703	703	703	703	703	703	703	703	703	703	
3	703	703	703	703	703	703	703	703	703	703	703	703	
4	870	867	864	869	869	864	869	867	866	869	866	866	
5	1175	1174	1172	1174	1175	1172	1175	1173	1173	1175	1173	1173	
6	1192	1198	1204	1195	1193	1206	1193	1199	1200	1193	1200	1200	
7	1065	1084	1103	1074	1070	1109	1070	1087	1092	1070	1092	1092	
8	800	815	831	807	803	836	803	817	821	803	821	821	
9	732	743	756	737	734	759	734	745	748	734	748	748	
10	661	663	664	662	661	665	661	663	663	661	663	663	
11	763	764	766	763	763	767	763	764	765	763	765	765	
12	966	966	966	966	966	966	966	966	966	966	966	966	
13	1158	1156	1155	1157	1158	1154	1158	1156	1156	1158	1156	1156	
14	895	895	895	895	895	895	895	895	895	895	895	895	
15	638	638	638	638	638	638	638	638	638	638	638	638	
16	638	638	638	638	638	638	638	638	638	638	638	638	
17	638	638	638	638	638	638	638	638	638	638	638	638	
18	642	645	648	644	643	649	643	645	646	643	646	646	
19	1136	1136	1136	1136	1136	1136	1136	1136	1136	1136	1136	1136	
20	1343	1343	1343	1343	1343	1343	1343	1343	1343	1343	1343	1343	
21	1081	1083	1085	1082	1082	1086	1082	1083	1084	1082	1084	1084	
22	825	825	825	825	825	825	825	825	825	825	825	825	
23	825	825	825	825	825	825	825	825	825	825	825	825	
	20855	20908	20964	20880	20867	20983	20867	20915	20930	20867	20930	20930	250896

Perdidas y ganancias por ventilación													
HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-896	-917	-1039	-1208	-1213	-1213	-1213	-1213	-1154	-944	-909	-896	
1	-896	-917	-1039	-1208	-1213	-1213	-1235	-1304	-1306	-971	-908	-896	
2	-1127	-1049	-1207	-1212	-1210	-1210	-1233	-1304	-1306	-972	-936	-1026	
3	-1124	-1047	-1207	-1213	-1213	-1213	-1235	-1304	-1308	-974	-935	-1024	
4	-1378	-1376	-1398	-1490	-1596	-1442	-1501	-1653	-1497	-1112	-1148	-1367	
5	-1496	-1500	-1530	-1629	-1813	-1827	-1818	-1808	-1645	-1338	-1496	-1501	
6	-1344	-1360	-1377	-1350	-1344	-1378	-1370	-1463	-1472	-1088	-1141	-1359	
7	-616	-637	-653	-629	-625	-657	-646	-729	-737	-390	-363	-464	
8	0	-10	-1	-40	-42	-44	-42	-35	0	0	0	0	
9	9	0	0	0	0	0	0	0	0	15	52	47	
10	329	175	15	0	0	24	44	52	88	217	273	364	
11	382	266	180	62	59	100	227	181	112	248	311	415	
12	448	311	209	73	69	116	266	212	131	288	361	483	
13	555	329	28	0	0	45	59	15	47	368	439	493	
14	364	280	24	0	0	0	24	13	0	45	143	347	
15	205	173	4	0	0	0	0	0	0	13	45	87	
16	10	9	0	0	0	0	0	0	0	0	0	0	
17	0	0	0	-32	-35	-18	0	0	-8	0	0	0	
18	0	-1	-103	-257	-328	-226	-203	-196	-166	-64	-44	-18	
19	-130	-165	-422	-618	-625	-625	-624	-624	-565	-359	-325	-271	
20	-432	-546	-828	-938	-1057	-869	-827	-811	-734	-467	-422	-405	
21	-692	-713	-813	-972	-975	-978	-975	-976	-924	-742	-708	-693	
22	-740	-761	-866	-1038	-1042	-1042	-1042	-1042	-985	-791	-754	-740	
23	-1010	-904	-1063	-1165	-1293	-1099	-1060	-1043	-985	-809	-861	-1036	
	-9579	-10360	-13086	-14864	-15496	-14769	-14404	-15032	-14414	-9827	-9326	-9460	-150617

Ganancias solares directas

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	275	229	216	287	367	369	327	312	328	487	586	414	
7	1723	1433	1094	1160	1450	1470	1396	1271	1180	1890	2307	2163	
8	4960	3804	2309	1908	2363	2418	2327	2083	2095	4027	5518	5667	
9	8154	6225	3554	2321	2851	3022	3028	2566	2923	5755	8255	8876	
10	10101	7943	4549	2564	3146	3389	3368	2842	3479	6740	8986	9883	
11	9130	7605	4825	2422	3031	3311	3203	2684	3375	6501	8723	9519	
12	10188	8262	4657	2404	2851	3136	2835	2416	3506	6942	9384	10664	
13	10477	8845	5470	3304	3692	3629	3484	3209	4057	6667	8771	10287	
14	9035	7762	5232	3462	3493	3361	3358	3330	3782	5842	7283	8479	
15	6888	5646	3490	2439	2465	2394	2292	2184	2299	3361	4905	6375	
16	3336	2739	1816	1373	1409	1408	1401	1287	1207	1533	2142	2999	
17	753	744	536	413	420	487	466	361	234	153	0	491	
18	0	0	0	0	0	0	0	0	0	0	0	0	
19	0	0	0	0	0	0	0	0	0	0	0	0	
20	0	0	0	0	0	0	0	0	0	0	0	0	
21	0	0	0	0	0	0	0	0	0	0	0	0	
22	0	0	0	0	0	0	0	0	0	0	0	0	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	75020	61237	37748	24057	27538	28394	27485	24545	28465	49898	66860	75817	527064

0 Estado actual

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	264	219	153	133	166	174	178	151	143	206	265	279	
1	311	261	176	135	169	184	184	154	151	225	276	298	
2	271	237	169	112	149	166	160	130	130	204	256	276	
3	282	237	147	94	124	145	130	101	118	206	264	292	
4	298	260	176	127	154	156	149	128	141	207	257	293	
5	265	237	174	134	143	141	140	132	135	187	219	249	
6	207	178	121	95	100	100	94	87	85	111	152	192	
7	104	90	65	54	57	58	57	51	45	53	68	94	
8	25	26	21	18	19	22	21	16	11	7	2	17	
9	11	12	16	19	21	19	18	19	23	24	21	15	
10	61	62	71	83	84	78	77	81	87	88	82	68	
11	219	228	279	348	390	374	353	362	387	393	360	274	
12	802	813	932	1128	1256	1218	1181	1183	1144	1105	1031	879	
13	1682	1759	1883	2168	2378	2320	2288	2277	2200	2183	2076	1823	
14	2739	2801	2954	3218	3476	3409	3366	3425	3327	3262	3122	2834	
15	3669	3903	4021	4185	4443	4248	4320	4362	4304	4079	3777	3520	
16	3768	4078	4373	4545	4661	4517	4525	4517	4378	4073	3859	3671	
17	4056	4303	4308	4265	4332	4251	4228	4284	4196	3999	3848	3775	
18	3679	3912	3778	3607	3628	3524	3504	3468	3409	3245	3124	3308	
19	2685	2911	2787	2647	2629	2546	2537	2541	2453	2326	2238	2402	
20	1713	1772	1557	1448	1439	1392	1344	1308	1254	1212	1252	1469	
21	792	811	732	684	702	707	723	668	579	511	545	668	
22	186	214	198	186	197	224	220	174	108	64	34	125	
23	69	64	61	73	90	92	88	81	70	81	88	80	
	28158	29388	29152	29506	30807	30065	29885	29700	28878	28051	27216	26901	347707

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-746	-903	-1301	-1538	-1621	-1448	-1406	-1418	-1325	-871	-731	-695	
1	-884	-1034	-1383	-1720	-1701	-1666	-1669	-1741	-1681	-1124	-967	-884	
2	-1077	-1128	-1442	-1730	-1702	-1669	-1634	-1729	-1712	-1158	-1015	-993	
3	-1326	-1264	-1652	-1865	-1966	-1746	-1680	-1758	-1726	-1173	-1102	-1257	
4	-1422	-1538	-1855	-2160	-2201	-2100	-2136	-2263	-2086	-1458	-1369	-1437	
5	-1499	-1569	-1865	-2157	-2255	-2260	-2256	-2262	-2109	-1630	-1612	-1515	
6	-1572	-1633	-1910	-2126	-2127	-2126	-2171	-2305	-2313	-1673	-1567	-1633	
7	-1623	-1557	-1764	-1787	-1789	-1782	-1823	-1958	-1963	-1344	-1262	-1411	
8	-1281	-1204	-1378	-1443	-1453	-1443	-1459	-1532	-1508	-1125	-1094	-1179	
9	-1378	-1387	-1452	-1608	-1743	-1553	-1597	-1745	-1579	-1120	-1116	-1338	
10	-973	-1154	-1423	-1580	-1746	-1729	-1709	-1687	-1482	-988	-1054	-961	
11	-837	-968	-1066	-1139	-1130	-1063	-970	-1079	-1110	-546	-544	-737	
12	307	188	194	232	354	357	424	305	205	719	761	607	
13	1853	1765	1685	1849	2053	2026	2004	1979	1987	2223	2175	1964	
14	2783	2790	2721	2935	3159	3143	3137	3189	3089	3136	3114	2924	
15	4263	4165	3766	3842	4099	3951	4069	4122	4142	4239	4088	4052	
16	4159	4266	4363	4300	4409	4332	4548	4463	4229	4215	4115	4100	
17	4434	4482	4298	3984	4041	4045	4243	4205	3994	4121	4093	4201	
18	3907	3942	3348	2977	2920	2975	2985	2895	2898	3257	3243	3481	
19	2683	2811	2178	1873	1851	1768	1782	1753	1690	1852	1909	2315	
20	1498	1438	768	567	468	560	523	457	483	708	820	1064	
21	31	37	-137	-323	-356	-345	-327	-378	-394	-269	-246	-112	
22	-599	-587	-679	-858	-857	-798	-775	-841	-886	-697	-713	-665	
23	-720	-672	-960	-1289	-1476	-1169	-1117	-1120	-1043	-641	-616	-708	
	9981	9286	3054	-764	-769	260	986	-448	-200	8653	9310	9183	48532

A1 Tapia pisada / Teja de barro, tierra y caña brava pañetada

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	402	339	243	237	320	347	350	282	237	322	407	424	
1	471	401	278	239	327	366	363	287	245	346	418	450	
2	406	358	261	193	289	331	313	237	203	307	380	412	
3	414	348	219	157	235	286	254	183	175	298	382	427	
4	423	368	245	183	255	271	256	199	194	286	359	414	
5	365	322	230	181	219	229	223	191	177	250	299	342	
6	278	235	158	128	150	155	144	124	111	148	204	258	
7	139	119	84	73	85	89	87	73	59	69	91	125	
8	33	33	26	24	27	32	30	22	13	9	2	22	
9	5	5	6	6	7	6	6	6	6	7	6	6	
10	9	9	10	10	10	10	10	10	10	11	10	9	
11	72	77	114	152	178	168	155	160	183	187	159	105	
12	487	503	611	748	806	763	744	756	764	726	654	537	
13	1153	1248	1410	1636	1733	1673	1653	1685	1688	1651	1527	1294	
14	2122	2213	2430	2652	2782	2676	2626	2803	2813	2711	2506	2210	
15	2994	3283	3519	3692	3806	3548	3625	3794	3851	3549	3180	2888	
16	3195	3543	3957	4191	4143	3929	3974	4096	4050	3654	3375	3128	
17	3603	3898	4035	4031	3967	3798	3828	4008	3991	3693	3467	3327	
18	3322	3613	3605	3469	3358	3213	3217	3293	3291	3044	2845	2965	
19	2433	2712	2673	2556	2444	2322	2326	2407	2377	2187	2045	2169	
20	1554	1650	1484	1379	1320	1249	1217	1223	1206	1138	1143	1319	
21	706	741	685	636	630	626	648	614	543	465	486	589	
22	159	188	183	176	186	208	206	166	106	62	34	108	
23	96	88	88	121	162	169	159	142	112	122	129	114	
	24841	26294	26554	26870	27439	26464	26414	26761	26405	25242	24108	23642	311034

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-401	-534	-842	-1014	-994	-880	-856	-916	-890	-528	-374	-343	
1	-250	-464	-850	-1107	-1025	-968	-968	-1085	-1079	-549	-370	-248	
2	-465	-553	-867	-1111	-1022	-955	-895	-1047	-1112	-588	-425	-373	
3	-593	-633	-1008	-1209	-1202	-1028	-963	-1101	-1141	-605	-474	-505	
4	-696	-854	-1191	-1418	-1412	-1288	-1328	-1497	-1365	-781	-677	-727	
5	-810	-902	-1206	-1424	-1490	-1483	-1478	-1507	-1405	-1021	-989	-841	
6	-920	-994	-1274	-1405	-1388	-1381	-1420	-1528	-1544	-1079	-984	-1025	
7	-942	-922	-1056	-1072	-1062	-1058	-1087	-1188	-1205	-773	-704	-789	
8	-630	-593	-685	-751	-754	-736	-735	-777	-763	-565	-549	-582	
9	-694	-703	-790	-955	-1067	-912	-923	-996	-895	-600	-568	-667	
10	-387	-574	-888	-1051	-1142	-1117	-1095	-1079	-938	-548	-541	-418	
11	-413	-563	-717	-835	-861	-759	-641	-716	-739	-309	-278	-335	
12	204	91	69	20	72	70	166	92	49	421	450	385	
13	1185	1131	1078	1183	1276	1244	1234	1245	1314	1551	1488	1293	
14	1973	2042	2017	2181	2255	2229	2215	2390	2411	2427	2303	2073	
15	3111	3204	3044	3119	3230	2996	3093	3269	3389	3328	3064	2911	
16	3107	3344	3616	3671	3617	3438	3592	3675	3597	3416	3208	3055	
17	3503	3690	3693	3476	3403	3287	3436	3544	3457	3440	3299	3252	
18	3069	3282	2934	2611	2421	2414	2438	2468	2512	2700	2580	2712	
19	2025	2266	1823	1554	1437	1316	1324	1366	1367	1505	1462	1702	
20	938	943	460	254	87	179	148	98	187	437	480	613	
21	-292	-271	-409	-600	-679	-685	-663	-692	-668	-515	-531	-420	
22	-850	-835	-903	-1040	-1037	-998	-993	-1065	-1101	-867	-890	-898	
23	-797	-747	-935	-1110	-1209	-991	-968	-1002	-973	-604	-590	-730	
	9975	9851	5113	1967	1454	1934	2633	1951	2465	9293	9390	9095	65121

A2 Tapia pisada / Teja de barro, mortero y machimbre

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	402	339	243	237	320	347	350	282	237	322	407	424	
1	471	401	278	239	327	366	363	287	245	346	418	450	
2	406	358	261	193	289	331	313	237	203	307	380	412	
3	414	348	219	157	235	286	254	183	175	298	382	427	
4	423	368	245	183	255	271	256	199	194	286	359	414	
5	365	322	230	181	219	229	223	191	177	250	299	342	
6	278	235	158	128	150	155	144	124	111	148	204	258	
7	139	119	84	73	85	89	87	73	59	69	91	125	
8	33	33	26	24	27	32	30	22	13	9	2	22	
9	134	145	221	302	356	338	308	318	368	376	317	204	
10	1013	1046	1273	1564	1688	1597	1556	1581	1596	1517	1366	1119	
11	2423	2627	2969	3449	3656	3529	3486	3554	3560	3481	3219	2725	
12	4487	4680	5138	5603	5877	5655	5553	5927	5941	5718	5287	4668	
13	6292	6903	7399	7765	8007	7468	7635	7991	8103	7462	6682	6066	
14	6698	7429	8307	8809	8719	8275	8366	8617	8519	7680	7093	6563	
15	7590	8219	8522	8526	8395	8038	8101	8484	8451	7815	7324	7013	
16	7047	7670	7661	7376	7137	6825	6836	7003	7001	6478	6050	6294	
17	5200	5791	5702	5452	5212	4949	4957	5133	5072	4675	4382	4641	
18	3327	3529	3175	2950	2823	2672	2604	2616	2578	2434	2446	2826	
19	1506	1580	1463	1356	1344	1337	1383	1309	1157	990	1031	1255	
20	306	368	349	310	310	356	361	282	157	62	0	181	
21	0	0	0	0	0	0	0	0	0	0	0	0	
22	15	15	19	30	40	41	36	33	31	33	34	23	
23	96	88	88	121	162	169	159	142	112	122	129	114	
	49065	52613	54030	55028	55633	53355	53361	54588	54060	50878	47902	46566	627079

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-871	-973	-1243	-1524	-1450	-1421	-1418	-1486	-1445	-1031	-862	-824	
1	-794	-898	-1374	-1635	-1672	-1439	-1402	-1505	-1478	-885	-765	-812	
2	-1035	-1135	-1528	-1861	-1774	-1707	-1647	-1799	-1826	-1180	-1001	-943	
3	-1026	-1145	-1570	-1897	-1828	-1751	-1706	-1853	-1855	-1189	-999	-928	
4	-1115	-1284	-1678	-1984	-1980	-1856	-1919	-2160	-2066	-1254	-1103	-1146	
5	-1468	-1468	-1868	-1995	-2058	-2051	-2069	-2170	-2106	-1494	-1442	-1394	
6	-1578	-1560	-1936	-1976	-1956	-1949	-1998	-2138	-2157	-1535	-1437	-1579	
7	-1562	-1586	-1651	-1745	-1832	-1691	-1757	-1960	-1831	-1235	-1223	-1460	
8	-1250	-1257	-1279	-1430	-1590	-1576	-1563	-1553	-1400	-1139	-1275	-1260	
9	-1134	-1131	-1130	-1170	-1174	-1113	-1148	-1204	-1138	-689	-732	-1034	
10	660	500	425	600	721	657	616	578	655	1172	1141	915	
11	2641	2676	2839	3108	3259	3243	3344	3384	3394	3551	3369	2983	
12	4582	4635	4964	5243	5511	5330	5356	5684	5649	5664	5366	4851	
13	6896	7096	7093	7344	7583	7115	7326	7668	7882	7740	7117	6696	
14	7124	7663	8167	8433	8282	7981	8305	8483	8288	7763	7321	7019	
15	7974	8377	8307	8048	7910	7616	7877	8188	8076	7764	7420	7318	
16	7144	7549	7194	6803	6561	6292	6315	6441	6497	6372	6030	6328	
17	5166	5656	5235	4844	4597	4353	4397	4528	4444	4262	4105	4589	
18	3136	3320	2495	2092	1887	1850	1795	1783	1776	1925	2031	2466	
19	899	985	599	354	338	331	367	261	147	281	364	582	
20	-499	-497	-678	-869	-984	-745	-708	-843	-875	-652	-705	-607	
21	-1007	-1021	-1269	-1673	-1868	-1693	-1658	-1639	-1493	-1088	-1091	-1040	
22	-1133	-1184	-1518	-1815	-1815	-1813	-1828	-1863	-1771	-1280	-1236	-1272	
23	-1151	-1194	-1519	-1638	-1768	-1493	-1455	-1483	-1419	-928	-895	-1045	
	30599	32124	27077	23657	22900	22470	23422	23342	23948	30915	29498	28403	318355

A3 Tapia pisada / Teja de asbesto

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	402	339	243	237	320	347	350	282	237	322	407	424	
1	471	401	278	239	327	366	363	287	245	346	418	450	
2	406	358	261	193	289	331	313	237	203	307	380	412	
3	414	348	219	157	235	286	254	183	175	298	382	427	
4	423	368	245	183	255	271	256	199	194	286	359	414	
5	365	322	230	181	219	229	223	191	177	250	299	342	
6	278	235	158	128	150	155	144	124	111	148	204	258	
7	369	369	469	601	709	680	626	630	705	729	646	480	
8	1824	1885	2281	2797	3022	2865	2790	2827	2844	2697	2422	2003	
9	4311	4674	5284	6140	6509	6283	6206	6327	6337	6197	5730	4849	
10	7992	8335	9153	9983	10471	10075	9894	10561	10585	10187	9420	8317	
11	11213	12302	13188	13842	14274	13312	13610	14244	14445	13300	11909	10809	
12	11941	13247	14811	15701	15539	14749	14915	15362	15180	13679	12634	11695	
13	13495	14615	15154	15157	14924	14295	14410	15090	15025	13890	13016	12464	
14	12508	13614	13595	13093	12676	12128	12143	12434	12432	11499	10739	11171	
15	9238	10292	10146	9709	9284	8815	8830	9146	9040	8329	7796	8247	
16	5939	6306	5679	5282	5052	4778	4658	4684	4621	4365	4380	5048	
17	2723	2855	2640	2447	2424	2407	2488	2359	2091	1798	1879	2275	
18	572	683	647	575	573	655	664	522	299	127	19	347	
19	7	8	8	7	6	7	7	5	4	2	0	4	
20	0	0	0	0	0	0	0	0	0	0	0	0	
21	0	0	0	0	0	0	0	0	0	0	0	0	
22	15	15	19	30	40	41	36	33	31	33	34	23	
23	96	88	88	121	162	169	159	142	112	122	129	114	
	85002	91659	94796	96803	97460	93244	93339	95869	95093	88911	83202	80573	1095951

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-2600	-2742	-3247	-3821	-3756	-3727	-3724	-3792	-3636	-2838	-2612	-2553	
1	-2276	-2539	-3200	-3822	-3750	-3693	-3693	-3810	-3670	-2677	-2424	-2274	
2	-2491	-2627	-3217	-3826	-3747	-3680	-3677	-4014	-4114	-2795	-2479	-2399	
3	-3093	-2984	-3708	-3875	-3801	-3724	-3737	-4068	-4143	-2804	-2547	-2726	
4	-3182	-3123	-3816	-3962	-3953	-3829	-3927	-4280	-4193	-2838	-2650	-2945	
5	-3535	-3615	-3905	-4236	-4547	-4189	-4311	-4704	-4269	-3092	-3171	-3548	
6	-3645	-3707	-3973	-4233	-4614	-4617	-4644	-4682	-4347	-3420	-3691	-3750	
7	-3306	-3309	-3216	-3086	-2979	-3008	-3134	-3361	-3298	-2168	-2316	-3067	
8	130	165	570	1026	1244	1100	983	842	874	1629	1457	768	
9	4314	4634	5201	5794	6095	5947	5888	6045	6199	6157	5742	4874	
10	8334	8454	8969	9684	10169	9801	9641	10317	10408	10314	9765	8769	
11	12890	13139	13124	13558	13938	13195	13725	14355	14670	14336	13269	12679	
12	13511	14236	15335	15585	15405	14815	15612	15831	15326	14570	13846	13419	
13	15016	15539	15520	14981	14732	14290	14918	15389	15088	14756	14186	14074	
14	13647	14212	13248	12622	12149	11789	11871	12056	12140	12075	11539	12159	
15	10028	10804	9722	9136	8709	8240	8320	8605	8493	8024	7809	8871	
16	6402	6617	5201	4709	4476	4203	4082	4109	4074	3975	4146	5000	
17	2343	2461	2148	1838	1809	1811	1902	1741	1462	1336	1449	1852	
18	39	186	-38	-423	-518	-248	-146	-311	-538	-405	-473	-159	
19	-616	-605	-1302	-2113	-2425	-1975	-1894	-1893	-1727	-984	-858	-748	
20	-1159	-1315	-2178	-2809	-2932	-2769	-2768	-2824	-2558	-1692	-1591	-1526	
21	-1912	-2164	-2830	-3202	-3524	-3134	-3045	-3005	-2750	-1959	-1902	-1858	
22	-2693	-2756	-3057	-3540	-3543	-3542	-3557	-3592	-3433	-2717	-2625	-2682	
23	-2495	-2494	-2829	-3251	-3295	-3174	-3170	-3212	-3082	-2366	-2283	-2411	
	53651	56467	48522	42734	41342	39882	41515	41742	42976	54417	51586	49819	564653

A4 Tapia pisada / Teja termoacústica (Estrutech)

Ganancias solares indirectas (sol-aire)

HOUR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	
0	402	339	243	237	320	347	350	282	237	322	407	424	
1	471	401	278	239	327	366	363	287	245	346	418	450	
2	406	358	261	193	289	331	313	237	203	307	380	412	
3	414	348	219	157	235	286	254	183	175	298	382	427	
4	423	368	245	183	255	271	256	199	194	286	359	414	
5	365	322	230	181	219	229	223	191	177	250	299	342	
6	278	235	158	128	150	155	144	124	111	148	204	258	
7	139	119	84	73	85	89	87	73	59	69	91	125	
8	66	70	82	100	118	119	109	103	107	105	83	74	
9	267	275	335	411	444	420	409	415	420	399	359	295	
10	637	690	780	906	960	926	915	933	934	914	845	716	
11	1176	1227	1347	1469	1540	1482	1455	1553	1557	1499	1386	1224	
12	1650	1809	1939	2035	2098	1957	2001	2094	2123	1956	1752	1590	
13	1758	1948	2177	2307	2284	2168	2193	2258	2232	2013	1859	1722	
14	1984	2148	2227	2232	2198	2105	2120	2220	2214	2051	1921	1836	
15	1862	2025	2025	1952	1891	1807	1808	1853	1855	1719	1606	1668	
16	1391	1549	1529	1464	1397	1324	1327	1377	1363	1260	1179	1244	
17	907	960	863	801	765	723	705	709	700	663	671	773	
18	417	436	403	373	368	366	378	358	318	274	287	349	
19	86	104	99	87	87	100	101	79	45	18	0	51	
20	0	0	0	0	0	0	0	0	0	0	0	0	
21	0	0	0	0	0	0	0	0	0	0	0	0	
22	15	15	19	30	40	41	36	33	31	33	34	23	
23	96	88	88	121	162	169	159	142	112	122	129	114	
	15210	15834	15631	15679	16232	15781	15706	15703	15412	15052	14651	14531	185422

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-455	-512	-729	-876	-831	-754	-741	-805	-796	-515	-392	-413	
1	-138	-349	-719	-937	-853	-797	-797	-914	-916	-423	-254	-136	
2	-353	-438	-737	-941	-851	-783	-723	-876	-949	-462	-309	-261	
3	-345	-447	-779	-978	-905	-828	-789	-956	-1022	-480	-308	-246	
4	-499	-623	-935	-1065	-1057	-933	-979	-1168	-1072	-513	-418	-501	
5	-613	-671	-950	-1072	-1135	-1128	-1129	-1178	-1111	-753	-730	-615	
6	-749	-811	-1025	-1082	-1088	-1044	-1084	-1191	-1165	-796	-748	-852	
7	-639	-663	-711	-748	-781	-778	-794	-852	-829	-520	-509	-544	
8	-293	-298	-278	-319	-307	-294	-295	-314	-286	-185	-217	-284	
9	90	87	72	28	2	57	57	50	74	246	269	189	
10	943	806	597	592	641	635	646	676	757	984	994	991	
11	1398	1289	1218	1184	1204	1257	1374	1432	1391	1575	1557	1501	
12	1887	1848	1773	1675	1732	1644	1824	1875	1873	1984	1884	1876	
13	1949	1949	1920	1912	1885	1814	1902	1921	1904	2016	1949	1893	
14	1986	2087	1889	1786	1696	1700	1804	1883	1859	1858	1805	1833	
15	1802	1861	1543	1379	1315	1243	1248	1281	1321	1382	1340	1467	
16	1087	1208	1044	891	821	748	759	805	816	826	791	925	
17	579	606	372	193	151	128	119	90	71	208	261	390	
18	-111	-57	-282	-486	-568	-457	-432	-475	-485	-257	-204	-156	
19	-537	-507	-765	-930	-936	-915	-915	-970	-969	-692	-668	-621	
20	-805	-866	-1075	-1245	-1386	-1174	-1164	-1216	-1096	-743	-726	-796	
21	-1045	-1068	-1217	-1416	-1491	-1493	-1493	-1488	-1376	-1085	-1111	-1088	
22	-1091	-1130	-1253	-1367	-1387	-1343	-1348	-1380	-1333	-1001	-984	-1074	
23	-978	-933	-1052	-1123	-1157	-1036	-1032	-1074	-1059	-739	-734	-894	
	3070	2368	-2079	-4945	-5286	-4531	-3982	-4844	-4398	1915	2538	2584	-17590

B1 Ladrillo macizo (temoza) / Teja de barro, tierra y caña brava pañetada

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	1	1	1	2	2	2	2	2	2	2	2	1	
9	5	5	6	6	7	6	6	6	6	7	6	6	
10	9	9	10	10	10	10	10	10	10	11	10	9	
11	222	220	297	447	571	563	501	482	490	509	485	327	
12	1417	1360	1471	1922	2379	2407	2295	2134	1851	1913	1914	1651	
13	3693	3405	3114	3597	4346	4402	4262	3962	3518	4023	4356	4072	
14	6040	5509	4799	4961	5894	6055	6035	5546	5120	5847	6467	6339	
15	7583	7186	6229	6015	6992	7109	7164	6584	6235	6917	7254	7270	
16	7147	7028	6496	6074	6956	7150	7025	6403	6025	6644	7079	7137	
17	7636	7291	6165	5562	6254	6587	6299	5793	5697	6597	7187	7482	
18	7442	7192	5986	5251	5837	5851	5711	5230	5175	5830	6343	6993	
19	5986	5847	4915	4315	4580	4552	4492	4268	4102	4623	4956	5498	
20	4263	3942	3017	2629	2778	2760	2616	2426	2286	2579	3124	3835	
21	2064	1899	1507	1348	1454	1489	1492	1321	1121	1142	1374	1807	
22	454	492	405	360	392	467	451	332	182	93	0	287	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	53962	51386	44418	42499	48452	49410	48361	44499	41820	46737	50557	52714	574815

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-1508	-1748	-2423	-2767	-3040	-2645	-2554	-2516	-2335	-1625	-1504	-1458	
1	-2301	-2360	-2674	-3193	-3209	-3209	-3224	-3271	-3158	-2483	-2349	-2301	
2	-2456	-2448	-2788	-3197	-3209	-3209	-3224	-3271	-3158	-2483	-2366	-2388	
3	-3081	-2774	-3240	-3478	-3788	-3342	-3261	-3271	-3159	-2523	-2596	-3062	
4	-3208	-3265	-3605	-4107	-4183	-4094	-4126	-4219	-3968	-3177	-3107	-3203	
5	-3208	-3265	-3605	-4111	-4226	-4228	-4229	-4222	-3975	-3250	-3240	-3207	
6	-3209	-3267	-3590	-4041	-4054	-4053	-4125	-4356	-4368	-3256	-3108	-3205	
7	-3420	-3220	-3644	-3662	-3664	-3664	-3735	-3965	-3977	-2862	-2734	-3037	
8	-2993	-2798	-3213	-3266	-3268	-3268	-3325	-3501	-3480	-2591	-2489	-2726	
9	-3211	-3220	-3276	-3484	-3730	-3382	-3509	-3870	-3506	-2581	-2635	-3155	
10	-2840	-3014	-3250	-3490	-3889	-3872	-3850	-3811	-3424	-2627	-2892	-2802	
11	-2620	-2737	-2745	-2710	-2590	-2556	-2548	-2796	-2868	-1844	-1895	-2465	
12	130	-61	-38	297	752	820	780	389	27	1111	1277	852	
13	4027	3571	3130	3455	4194	4278	4148	3850	3548	4248	4625	4372	
14	6332	5705	4817	4962	5895	6056	6055	5557	5122	5939	6765	6761	
15	9258	8144	6297	6015	6992	7216	7360	6814	6623	7894	8508	8968	
16	8639	8067	7188	6317	7186	7539	7913	7110	6460	7603	8281	8740	
17	9116	8320	6858	5770	6444	6955	7187	6500	6123	7556	8388	9082	
18	8728	7955	5938	4968	5476	5711	5626	5049	5103	6625	7332	8127	
19	6878	6486	4688	3888	4149	4121	4126	3873	3712	4499	5120	6253	
20	4901	4380	2590	2127	2212	2295	2173	1993	1893	2387	3093	3990	
21	1673	1493	999	738	842	876	879	709	542	677	931	1374	
22	20	44	-106	-389	-376	-226	-162	-281	-431	-372	-443	-147	
23	-594	-535	-1068	-1796	-2175	-1615	-1502	-1458	-1297	-753	-698	-689	
	25053	19453	3240	-5154	-1259	2504	2873	-2964	-3951	16112	22264	24674	102845

B2 Ladrillo macizo (temoza) / Teja de barro, mortero y machimbre

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	1	1	1	2	2	2	2	2	2	2	2	1	
9	134	145	221	302	356	338	308	318	368	376	317	204	
10	1013	1046	1273	1564	1688	1597	1556	1581	1596	1517	1366	1119	
11	2573	2770	3153	3744	4049	3924	3832	3876	3866	3803	3546	2947	
12	5417	5536	5998	6777	7450	7299	7105	7305	7029	6905	6548	5782	
13	8832	9059	9103	9727	10620	10197	10244	10268	9933	9834	9511	8843	
14	10616	10725	10675	11117	11831	11653	11775	11359	10826	10817	11054	10691	
15	12179	12122	11233	10848	11581	11599	11640	11273	10835	11183	11398	11395	
16	10999	11155	10199	9260	9950	10047	9887	9309	8976	9467	9753	10303	
17	9233	9183	7833	6983	7498	7737	7428	6918	6779	7579	8102	8796	
18	7446	7109	5556	4732	5303	5311	5098	4552	4463	5220	5944	6853	
19	5059	4715	3706	3115	3481	3567	3549	3170	2883	3426	3942	4583	
20	3015	2661	1883	1560	1768	1867	1760	1485	1238	1503	1981	2697	
21	1358	1159	822	713	824	862	844	707	578	677	889	1218	
22	310	318	240	214	246	299	281	199	108	64	0	202	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	78185	77704	71896	70658	76647	76299	75309	72322	69480	72373	74353	75634	890860

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-1979	-2187	-2824	-3277	-3496	-3187	-3115	-3086	-2890	-2128	-1992	-1940	
1	-2846	-2794	-3199	-3721	-3857	-3681	-3658	-3690	-3557	-2819	-2744	-2865	
2	-3026	-3031	-3448	-3946	-3961	-3961	-3976	-4023	-3872	-3076	-2942	-2958	
3	-3514	-3286	-3802	-4166	-4414	-4065	-4005	-4023	-3874	-3107	-3122	-3485	
4	-3628	-3695	-4091	-4673	-4751	-4662	-4717	-4882	-4669	-3650	-3532	-3622	
5	-3867	-3831	-4267	-4682	-4794	-4797	-4819	-4884	-4677	-3723	-3693	-3761	
6	-3868	-3832	-4252	-4611	-4622	-4621	-4703	-4966	-4980	-3712	-3560	-3758	
7	-4040	-3885	-4238	-4335	-4434	-4296	-4405	-4737	-4603	-3324	-3254	-3708	
8	-3613	-3462	-3807	-3945	-4105	-4109	-4153	-4278	-4118	-3165	-3214	-3404	
9	-3650	-3648	-3616	-3699	-3837	-3583	-3734	-4079	-3749	-2670	-2799	-3521	
10	-1793	-1940	-1937	-1838	-2026	-2098	-2139	-2153	-1831	-907	-1211	-1469	
11	434	502	812	1233	1530	1446	1437	1303	1265	2017	1752	853	
12	4508	4483	4857	5520	6190	6080	5969	5981	5627	6354	6194	5317	
13	9738	9536	9145	9616	10501	10148	10240	10273	10116	10437	10254	9775	
14	11483	11326	10968	11214	11922	11808	12145	11650	10999	11275	11783	11706	
15	14121	13317	11560	10944	11671	11836	12143	11732	11310	12329	12864	13375	
16	12676	12271	10766	9449	10130	10393	10636	9876	9359	10559	11103	12013	
17	10779	10286	8399	7138	7639	8021	8148	7485	7110	8378	9195	10419	
18	8794	7992	5499	4449	4942	5147	4982	4364	4367	5849	6783	7882	
19	5752	5205	3464	2688	3050	3136	3169	2767	2493	3275	4021	5133	
20	3463	2940	1453	1004	1141	1370	1317	1052	832	1298	1908	2771	
21	958	743	139	-335	-347	-132	-115	-238	-283	103	371	753	
22	-262	-305	-721	-1164	-1154	-1041	-997	-1079	-1101	-784	-790	-521	
23	-948	-983	-1652	-2324	-2734	-2118	-1989	-1940	-1744	-1077	-1003	-1005	
	45672	41722	25208	16539	20184	23034	23661	18425	17530	37732	42372	43980	356059

B3 Ladrillo macizo (temoza) / Teja de asbesto

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	230	250	385	527	624	592	540	557	645	660	554	355	
8	1792	1852	2257	2775	2996	2834	2761	2806	2833	2691	2422	1982	
9	4311	4674	5284	6140	6509	6283	6206	6327	6337	6197	5730	4849	
10	7992	8335	9153	9983	10471	10075	9894	10561	10585	10187	9420	8317	
11	11363	12445	13372	14137	14667	13707	13955	14566	14751	13622	12236	11032	
12	12871	14103	15671	16875	17112	16393	16467	16740	16268	14867	13894	12809	
13	16035	16772	16858	17119	17537	17024	17019	17367	16855	16262	15845	15241	
14	16426	16909	15964	15402	15788	15507	15552	15177	14738	14636	14700	15299	
15	13826	14195	12856	12031	12470	12376	12369	11935	11424	11696	11870	12628	
16	9891	9791	8217	7166	7865	8000	7709	6991	6596	7354	8084	9057	
17	6756	6247	4771	3978	4710	5195	4959	4144	3797	4702	5599	6430	
18	4692	4262	3028	2356	3052	3293	3158	2459	2183	2913	3516	4374	
19	3559	3143	2250	1766	2143	2237	2173	1867	1729	2438	2911	3333	
20	2709	2293	1533	1250	1458	1511	1398	1203	1080	1441	1981	2516	
21	1358	1159	822	713	824	862	844	707	578	677	889	1218	
22	310	318	240	214	246	299	281	199	108	64	0	202	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	114121	116748	112661	112432	118472	116188	115285	113606	110507	110407	109651	109642	1359720

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-3707	-3956	-4828	-5575	-5802	-5492	-5421	-5392	-5082	-3935	-3742	-3668	
1	-4327	-4434	-5024	-5908	-5934	-5934	-5949	-5996	-5748	-4611	-4403	-4327	
2	-4482	-4522	-5138	-5911	-5934	-5934	-6006	-6237	-6160	-4691	-4420	-4414	
3	-5581	-5125	-5940	-6144	-6387	-6038	-6035	-6238	-6162	-4722	-4669	-5284	
4	-5695	-5534	-6229	-6651	-6724	-6635	-6725	-7002	-6796	-5234	-5080	-5421	
5	-5934	-5978	-6304	-6923	-7283	-6934	-7061	-7418	-6839	-5321	-5422	-5914	
6	-5934	-5979	-6290	-6868	-7280	-7289	-7349	-7510	-7171	-5597	-5814	-5930	
7	-5783	-5608	-5804	-5676	-5580	-5613	-5781	-6138	-6070	-4257	-4347	-5316	
8	-2233	-2040	-1958	-1489	-1270	-1432	-1607	-1883	-1843	-398	-483	-1376	
9	1797	2118	2714	3265	3432	3477	3302	3170	3589	4176	3675	2387	
10	5881	6015	6608	7246	7423	7046	6887	7586	7922	8235	7414	6386	
11	10683	10965	11096	11683	12209	11397	11817	12274	12541	12802	11651	10549	
12	13437	14084	15228	15863	16084	15565	16225	16128	15304	15260	14674	13886	
13	17858	17979	17572	17253	17650	17324	17832	17994	17322	17453	17324	17153	
14	18006	17875	16048	15403	15789	15616	15711	15223	14850	15587	16001	16847	
15	16175	15744	12975	12031	12470	12461	12587	12150	11728	12589	13253	14927	
16	11934	11339	8774	7355	8045	8304	8403	7544	6936	8162	9219	10684	
17	7956	7091	5312	4132	4851	5479	5653	4697	4128	5452	6538	7682	
18	5698	4859	2966	1934	2537	3050	3042	2271	2053	3520	4279	5257	
19	4237	3614	1563	222	287	831	909	614	619	2010	2799	3803	
20	2803	2122	-47	-936	-807	-654	-743	-929	-852	258	1023	1851	
21	53	-400	-1423	-1864	-2003	-1573	-1503	-1604	-1540	-767	-440	-65	
22	-1822	-1877	-2261	-2889	-2883	-2770	-2726	-2808	-2763	-2222	-2178	-1931	
23	-2293	-2283	-2962	-3937	-4260	-3798	-3704	-3668	-3407	-2514	-2391	-2371	
	68727	66069	46648	35616	38630	40454	41758	36828	36559	61235	64461	65395	602380

B4 Ladrillo macizo (temoza) / Teja termoacústica (Estrutech)

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	34	37	57	79	93	88	80	83	96	98	83	53	
9	267	275	335	411	444	420	409	415	420	399	359	295	
10	637	690	780	906	960	926	915	933	934	914	845	716	
11	1326	1370	1530	1764	1933	1877	1801	1875	1863	1821	1713	1446	
12	2580	2666	2799	3209	3671	3601	3552	3472	3211	3143	3013	2705	
13	4298	4105	3881	4269	4897	4897	4802	4535	4062	4385	4688	4499	
14	5902	5444	4596	4540	5310	5484	5529	4963	4521	5188	5882	5964	
15	6451	5928	4735	4275	5077	5368	5347	4642	4239	5087	5680	6049	
16	5344	5034	4068	3348	4210	4545	4378	3684	3339	4249	4882	5253	
17	4940	4353	2994	2332	3052	3512	3176	2494	2406	3567	4390	4928	
18	4537	4015	2784	2154	2848	3004	2871	2295	2203	3061	3785	4377	
19	3639	3238	2341	1846	2224	2330	2267	1940	1770	2454	2911	3380	
20	2709	2293	1533	1250	1458	1511	1398	1203	1080	1441	1981	2516	
21	1358	1159	822	713	824	862	844	707	578	677	889	1218	
22	310	318	240	214	246	299	281	199	108	64	0	202	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	44332	40925	33495	31310	37247	38724	37650	33440	30830	36548	41101	43601	449203

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-1563	-1726	-2310	-2629	-2877	-2520	-2438	-2405	-2242	-1611	-1523	-1529	
1	-2190	-2245	-2544	-3023	-3038	-3038	-3053	-3099	-2995	-2358	-2233	-2190	
2	-2344	-2333	-2657	-3027	-3038	-3038	-3053	-3099	-2995	-2358	-2250	-2276	
3	-2833	-2588	-3011	-3246	-3490	-3142	-3088	-3126	-3040	-2397	-2430	-2804	
4	-3012	-3034	-3348	-3755	-3828	-3739	-3777	-3890	-3674	-2909	-2848	-2977	
5	-3012	-3034	-3348	-3759	-3871	-3873	-3880	-3893	-3682	-2982	-2981	-2982	
6	-3038	-3083	-3342	-3717	-3754	-3716	-3789	-4019	-3989	-2973	-2871	-3032	
7	-3116	-2962	-3299	-3337	-3382	-3383	-3442	-3628	-3601	-2610	-2539	-2792	
8	-2656	-2502	-2805	-2834	-2822	-2827	-2885	-3039	-3003	-2211	-2157	-2427	
9	-2427	-2429	-2414	-2501	-2661	-2413	-2528	-2824	-2537	-1735	-1798	-2298	
10	-1509	-1634	-1765	-1847	-2106	-2120	-2108	-2055	-1729	-1095	-1357	-1392	
11	-809	-885	-810	-691	-525	-541	-533	-649	-738	40	-61	-628	
12	1813	1695	1665	1952	2411	2394	2438	2172	1851	2674	2712	2342	
13	4791	4389	3973	4184	4803	4848	4816	4526	4138	4713	5086	4972	
14	6345	5750	4690	4568	5336	5527	5644	5050	4569	5371	6267	6521	
15	7949	6801	4796	4275	5077	5464	5515	4826	4555	5948	6784	7523	
16	6619	5930	4616	3537	4390	4849	5080	4240	3678	5013	5864	6609	
17	6192	5237	3536	2486	3193	3795	3870	3047	2737	4324	5351	6220	
18	5547	4616	2721	1871	2487	2841	2756	2107	2106	3667	4548	5259	
19	4317	3713	2100	1405	1776	1890	1887	1537	1377	2303	2990	3930	
20	3158	2572	1056	628	739	941	861	679	610	1207	1888	2582	
21	920	696	190	-78	30	68	49	-87	-166	107	351	706	
22	-220	-251	-456	-716	-726	-571	-518	-596	-663	-506	-537	-323	
23	-776	-722	-1185	-1809	-2123	-1660	-1566	-1531	-1384	-888	-842	-854	
	18146	11971	-3951	-12063	-7999	-3964	-3742	-9756	-10817	8734	15414	18160	20133

C1 Ladrillo perforado (estructural) / Teja de barro, tierra y caña brava pañetada

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	1	1	1	2	2	2	2	2	2	2	2	1	
9	5	5	6	6	7	6	6	6	6	7	6	6	
10	9	9	10	10	10	10	10	10	10	11	10	9	
11	117	120	169	241	296	288	260	257	276	285	257	172	
12	769	763	871	1103	1282	1261	1213	1173	1093	1085	1035	874	
13	1921	1901	1926	2229	2524	2499	2443	2374	2242	2369	2383	2135	
14	3308	3211	3146	3351	3724	3699	3658	3633	3511	3660	3705	3460	
15	4382	4464	4339	4395	4770	4625	4696	4639	4572	4568	4413	4214	
16	4391	4597	4726	4761	4994	4904	4897	4794	4648	4559	4496	4341	
17	4823	4925	4680	4495	4659	4642	4576	4548	4507	4572	4593	4584	
18	4568	4696	4326	4008	4108	4011	3972	3879	3861	3887	3904	4184	
19	3508	3661	3351	3088	3090	2997	2982	2971	2899	2925	2926	3176	
20	2374	2343	1948	1758	1761	1706	1640	1587	1533	1574	1743	2081	
21	1117	1091	934	851	880	887	903	828	718	670	755	957	
22	238	270	237	211	220	258	255	193	107	48	0	146	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	31531	32057	30670	30509	32327	31795	31513	30894	29985	30222	30228	30340	372071

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-1280	-1462	-1987	-2272	-2477	-2182	-2114	-2086	-1941	-1375	-1279	-1243	
1	-1871	-1918	-2174	-2590	-2603	-2603	-2618	-2664	-2581	-2020	-1909	-1871	
2	-2026	-2007	-2288	-2593	-2603	-2603	-2618	-2664	-2581	-2020	-1926	-1958	
3	-2491	-2249	-2624	-2803	-3034	-2702	-2645	-2665	-2582	-2050	-2098	-2460	
4	-2602	-2644	-2901	-3289	-3361	-3273	-3305	-3398	-3187	-2538	-2491	-2597	
5	-2602	-2644	-2901	-3293	-3404	-3407	-3407	-3400	-3194	-2611	-2624	-2601	
6	-2603	-2646	-2887	-3222	-3233	-3231	-3289	-3473	-3482	-2597	-2492	-2598	
7	-2659	-2511	-2827	-2841	-2842	-2842	-2899	-3082	-3091	-2203	-2101	-2344	
8	-2232	-2089	-2396	-2444	-2447	-2447	-2489	-2619	-2595	-1932	-1856	-2033	
9	-2389	-2398	-2440	-2595	-2778	-2519	-2613	-2883	-2611	-1918	-1949	-2338	
10	-2019	-2192	-2414	-2597	-2894	-2874	-2852	-2821	-2522	-1891	-2073	-1980	
11	-1903	-2015	-2051	-2094	-2042	-2010	-1954	-2138	-2197	-1405	-1437	-1803	
12	-92	-228	-208	-91	85	104	143	-80	-237	551	640	384	
13	2255	2075	1943	2124	2411	2414	2367	2294	2272	2593	2652	2435	
14	3591	3406	3165	3352	3725	3700	3678	3645	3513	3737	3953	3838	
15	5688	5225	4391	4395	4770	4706	4842	4810	4862	5300	5361	5504	
16	5505	5375	5241	4941	5165	5193	5558	5321	4971	5274	5392	5536	
17	5927	5692	5195	4640	4791	4911	5237	5075	4822	5286	5488	5776	
18	5526	5264	4261	3725	3747	3844	3851	3690	3760	4461	4628	5024	
19	4150	4108	3108	2662	2659	2566	2599	2566	2509	2769	2991	3691	
20	2790	2596	1517	1255	1195	1241	1198	1154	1140	1368	1662	2141	
21	715	675	426	241	267	275	291	215	139	205	312	524	
22	-196	-178	-273	-503	-508	-414	-358	-420	-498	-416	-443	-287	
23	-594	-535	-955	-1513	-1814	-1368	-1278	-1243	-1115	-683	-649	-669	
	8588	6700	-2079	-7405	-7225	-5521	-4675	-6866	-6426	5885	7752	8071	-3201

C2 Ladrillo perforado (estructural) / Teja de barro, mortero y machimbre

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	1	1	1	2	2	2	2	2	2	2	2	1	
9	134	145	221	302	356	338	308	318	368	376	317	204	
10	1013	1046	1273	1564	1688	1597	1556	1581	1596	1517	1366	1119	
11	2469	2670	3025	3538	3775	3648	3591	3651	3652	3579	3318	2792	
12	4768	4939	5398	5958	6353	6152	6023	6344	6270	6077	5669	5006	
13	7061	7555	7915	8359	8798	8294	8425	8680	8657	8179	7538	6906	
14	7884	8427	9023	9507	9661	9297	9398	9447	9217	8630	8292	7812	
15	8979	9400	9343	9229	9359	9116	9172	9328	9172	8834	8557	8339	
16	8243	8724	8429	7946	7988	7800	7759	7701	7599	7382	7171	7507	
17	6421	6817	6347	5916	5904	5793	5705	5673	5589	5554	5508	5898	
18	4573	4613	3895	3489	3573	3471	3359	3202	3149	3277	3505	4044	
19	2581	2529	2142	1889	1991	2012	2038	1873	1679	1727	1912	2262	
20	1125	1062	813	689	751	813	784	646	484	498	600	942	
21	411	351	249	216	249	261	255	214	175	205	269	369	
22	94	96	73	65	74	91	85	60	33	19	0	61	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	55757	58375	58147	58669	60522	58685	58460	58720	57642	55856	54024	53262	688119

C3 Ladrillo perforado (estructural) / Teja de asbesto

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	230	250	385	527	624	592	540	557	645	660	554	355	
8	1792	1852	2257	2775	2996	2834	2761	2806	2833	2691	2422	1982	
9	4311	4674	5284	6140	6509	6283	6206	6327	6337	6197	5730	4849	
10	7992	8335	9153	9983	10471	10075	9894	10561	10585	10187	9420	8317	
11	11258	12346	13244	13932	14393	13431	13714	14341	14537	13397	12008	10877	
12	12223	13506	15072	16056	16015	15246	15385	15779	15510	14039	13015	12032	
13	14264	15268	15669	15751	15715	15121	15200	15779	15578	14607	13872	13304	
14	13693	14611	14312	13792	13618	13151	13174	13264	13130	12449	11938	12420	
15	10626	11474	10966	10412	10248	9893	9901	9990	9761	9348	9029	9573	
16	7135	7360	6447	5852	5903	5753	5581	5382	5219	5269	5501	6261	
17	3944	3881	3285	2910	3116	3251	3236	2900	2607	2677	3005	3533	
18	1819	1766	1368	1114	1323	1453	1419	1108	869	970	1077	1565	
19	1082	956	686	539	653	682	662	569	526	739	881	1011	
20	820	694	464	378	441	457	423	364	327	436	600	761	
21	411	351	249	216	249	261	255	214	175	205	269	369	
22	94	96	73	65	74	91	85	60	33	19	0	61	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	91694	97420	98914	100442	102348	98574	98436	100001	98672	93890	89321	87270	1156982

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-3479	-3670	-4391	-5080	-5239	-5029	-4981	-4962	-4687	-3685	-3517	-3453	
1	-3897	-3993	-4524	-5305	-5328	-5328	-5343	-5389	-5171	-4148	-3963	-3897	
2	-4052	-4081	-4637	-5308	-5328	-5328	-5400	-5631	-5583	-4227	-3980	-3984	
3	-4991	-4600	-5324	-5469	-5633	-5398	-5420	-5632	-5585	-4249	-4171	-4681	
4	-5088	-4913	-5526	-5833	-5903	-5814	-5903	-6180	-6015	-4595	-4465	-4815	
5	-5327	-5357	-5600	-6105	-6461	-6113	-6240	-6597	-6058	-4682	-4806	-5308	
6	-5328	-5358	-5586	-6049	-6459	-6468	-6513	-6627	-6285	-4938	-5199	-5323	
7	-5022	-4899	-4987	-4855	-4759	-4792	-4945	-5255	-5185	-3598	-3714	-4623	
8	-1472	-1331	-1141	-668	-449	-611	-771	-1000	-958	262	151	-683	
9	2619	2939	3550	4154	4384	4341	4198	4158	4484	4839	4361	3204	
10	6702	6836	7444	8139	8418	8044	7884	8576	8823	8971	8232	7207	
11	11400	11687	11790	12298	12756	11943	12412	12932	13212	13240	12110	11211	
12	13215	13917	15058	15475	15418	14849	15588	15658	15040	14700	14037	13419	
13	16087	16483	16384	15921	15866	15460	16052	16438	16046	15798	15351	15216	
14	15264	15576	14396	13793	13619	13260	13334	13311	13242	13386	13189	13923	
15	12605	12826	11069	10412	10248	9950	10069	10146	9966	9995	10106	11464	
16	8801	8647	6827	5980	6024	5958	6049	5755	5447	5832	6330	7480	
17	4766	4463	3650	3003	3198	3435	3703	3272	2828	3182	3638	4376	
18	2496	2168	1289	692	808	1183	1268	911	711	1356	1575	2153	
19	1509	1236	-17	-1005	-1203	-725	-619	-693	-585	280	671	1241	
20	692	338	-1120	-1807	-1824	-1707	-1718	-1768	-1605	-762	-409	2	
21	-904	-1218	-1996	-2361	-2578	-2174	-2091	-2098	-1944	-1239	-1059	-914	
22	-2039	-2099	-2428	-3003	-3015	-2958	-2922	-2946	-2830	-2266	-2178	-2071	
23	-2293	-2282	-2849	-3654	-3900	-3551	-3480	-3453	-3224	-2444	-2343	-2351	
	52264	53315	41331	33365	32660	32427	34211	32926	34084	51008	49947	48793	496331

C4 Ladrillo perforado (estructural) / Teja termoacústica (Estrutech)

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	34	37	57	79	93	88	80	83	96	98	83	53	
9	267	275	335	411	444	420	409	415	420	399	359	295	
10	637	690	780	906	960	926	915	933	934	914	845	716	
11	1222	1270	1402	1558	1659	1601	1560	1650	1650	1596	1485	1291	
12	1931	2068	2199	2390	2574	2455	2470	2511	2453	2315	2133	1928	
13	2527	2601	2693	2901	3074	2994	2982	2947	2786	2730	2715	2562	
14	3170	3145	2944	2931	3140	3128	3152	3050	2912	3000	3120	3085	
15	3251	3206	2845	2655	2855	2884	2879	2697	2577	2738	2839	2994	
16	2587	2604	2297	2034	2248	2299	2250	2075	1961	2164	2299	2458	
17	2127	1987	1508	1264	1457	1567	1453	1249	1216	1542	1796	2031	
18	1664	1519	1124	912	1119	1164	1132	944	888	1118	1346	1568	
19	1161	1052	777	620	733	774	756	642	567	755	881	1059	
20	820	694	464	378	441	457	423	364	327	436	600	761	
21	411	351	249	216	249	261	255	214	175	205	269	369	
22	94	96	73	65	74	91	85	60	33	19	0	61	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	21903	21595	19747	19320	21120	21109	20801	19834	18995	20029	20770	21231	246454

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-1335	-1440	-1874	-2134	-2314	-2057	-1998	-1975	-1847	-1362	-1298	-1314	
1	-1759	-1804	-2044	-2420	-2432	-2432	-2446	-2493	-2418	-1894	-1793	-1759	
2	-1914	-1892	-2157	-2424	-2432	-2432	-2446	-2493	-2418	-1894	-1810	-1846	
3	-2243	-2063	-2395	-2572	-2736	-2502	-2472	-2520	-2463	-1924	-1931	-2201	
4	-2405	-2413	-2645	-2937	-3006	-2918	-2956	-3069	-2893	-2270	-2233	-2371	
5	-2405	-2413	-2645	-2941	-3049	-3052	-3058	-3071	-2901	-2343	-2366	-2376	
6	-2432	-2462	-2639	-2899	-2933	-2894	-2953	-3136	-3103	-2314	-2256	-2425	
7	-2355	-2253	-2482	-2516	-2560	-2562	-2606	-2746	-2715	-1950	-1906	-2099	
8	-1895	-1793	-1988	-2012	-2001	-2005	-2049	-2156	-2118	-1552	-1524	-1734	
9	-1606	-1608	-1578	-1612	-1709	-1550	-1633	-1837	-1642	-1072	-1112	-1481	
10	-688	-812	-929	-953	-1111	-1122	-1111	-1065	-827	-359	-538	-571	
11	-92	-163	-116	-75	22	5	61	9	-67	479	398	34	
12	1591	1528	1495	1564	1745	1678	1801	1702	1587	2114	2075	1875	
13	3020	2893	2785	2853	3019	2984	3036	2970	2862	3058	3114	3035	
14	3604	3452	3038	2958	3166	3171	3267	3138	2961	3169	3455	3597	
15	4379	3883	2890	2655	2855	2953	2997	2822	2794	3354	3637	4059	
16	3486	3238	2669	2162	2369	2503	2725	2451	2189	2683	2975	3405	
17	3002	2609	1874	1357	1539	1752	1920	1621	1436	2054	2450	2914	
18	2346	1925	1044	629	758	973	981	747	764	1503	1844	2156	
19	1589	1335	520	178	286	335	360	230	173	572	861	1368	
20	1047	787	-17	-244	-278	-113	-114	-160	-143	188	456	732	
21	-37	-122	-383	-574	-545	-534	-539	-580	-569	-365	-269	-144	
22	-437	-473	-624	-829	-858	-759	-713	-734	-729	-550	-537	-463	
23	-776	-721	-1072	-1526	-1762	-1413	-1342	-1315	-1201	-818	-794	-834	
	1685	-782	-9273	-14312	-13967	-11991	-11288	-13660	-13288	-1493	898	1557	-85914

D1 Ladrillo hueco (H15) / Teja de barro, tierra y caña brava pañetada

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	1	1	1	2	2	2	2	2	2	2	2	1	
9	5	5	6	6	7	6	6	6	6	7	6	6	
10	9	9	10	10	10	10	10	10	10	11	10	9	
11	72	77	114	152	178	168	155	160	183	187	159	105	
12	518	532	648	808	886	843	814	821	826	791	720	582	
13	1341	1422	1584	1874	2052	2007	1968	1965	1909	1892	1783	1520	
14	2638	2651	2775	3051	3312	3230	3156	3265	3185	3192	3080	2774	
15	3789	3952	3999	4161	4437	4233	4317	4351	4319	4186	3984	3726	
16	4126	4335	4507	4662	4789	4652	4692	4662	4533	4338	4202	4017	
17	4404	4605	4550	4414	4538	4452	4447	4476	4392	4299	4218	4140	
18	4140	4301	4038	3780	3822	3779	3719	3656	3637	3633	3600	3808	
19	3269	3438	3156	2918	2947	2857	2832	2800	2759	2753	2755	2986	
20	2275	2286	1939	1736	1754	1702	1657	1601	1556	1632	1734	1995	
21	1256	1206	997	889	926	933	932	858	762	758	888	1099	
22	419	408	331	291	313	343	341	276	191	166	180	332	
23	63	65	49	43	50	61	57	40	22	13	0	41	
	28325	29293	28704	28797	30023	29278	29105	28949	28292	27860	27321	27141	343088

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-936	-1025	-1480	-1839	-1910	-1822	-1802	-1794	-1672	-1205	-1126	-1062	
1	-1298	-1403	-1746	-2030	-2131	-1992	-1975	-2008	-1936	-1410	-1312	-1281	
2	-1733	-1706	-1947	-2183	-2191	-2191	-2205	-2252	-2188	-1705	-1627	-1665	
3	-1869	-1777	-2046	-2245	-2317	-2220	-2214	-2253	-2190	-1714	-1677	-1812	
4	-2167	-2089	-2301	-2534	-2710	-2463	-2462	-2542	-2373	-1874	-1911	-2179	
5	-2190	-2222	-2423	-2737	-2846	-2848	-2849	-2842	-2663	-2176	-2206	-2189	
6	-2191	-2224	-2408	-2666	-2674	-2673	-2700	-2788	-2736	-2121	-2074	-2186	
7	-1927	-1908	-2114	-2278	-2284	-2284	-2331	-2482	-2489	-1755	-1647	-1753	
8	-1715	-1607	-1840	-1886	-1888	-1888	-1921	-2019	-1993	-1484	-1425	-1562	
9	-1747	-1684	-1846	-1897	-1950	-1875	-1923	-2066	-1990	-1462	-1410	-1611	
10	-1460	-1634	-1845	-1984	-2158	-2010	-2032	-2144	-1899	-1291	-1333	-1415	
11	-1390	-1500	-1568	-1724	-1843	-1815	-1713	-1784	-1710	-1152	-1253	-1321	
12	-601	-707	-680	-635	-560	-562	-496	-639	-709	-107	-125	-399	
13	1086	1018	1007	1248	1424	1407	1358	1269	1255	1745	1717	1392	
14	2902	2835	2793	3001	3259	3177	3121	3233	3186	3240	3226	3059	
15	4344	4308	4017	4161	4437	4257	4360	4401	4404	4433	4368	4236	
16	4974	4843	4681	4715	4839	4774	4955	4897	4765	4886	4890	4934	
17	5252	5195	4945	4517	4630	4654	4954	4880	4631	4847	4905	5055	
18	4943	4830	4183	3582	3542	3692	3838	3698	3632	4090	4202	4605	
19	3848	3758	2901	2491	2516	2465	2464	2390	2408	2837	2982	3412	
20	2581	2420	1523	1234	1187	1237	1237	1179	1163	1439	1688	2193	
21	1139	1027	493	279	313	320	319	245	183	313	513	797	
22	0	-25	-179	-350	-335	-288	-272	-336	-395	-299	-262	-101	
23	-531	-469	-674	-934	-1074	-826	-759	-759	-728	-526	-550	-586	
	9314	8254	1446	-2694	-2724	-1774	-1048	-2516	-2044	7549	8553	8561	30877

D2 Ladrillo hueco (H15) / Teja de barro, mortero y machimbre

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	1	1	1	2	2	2	2	2	2	2	2	1	
9	134	145	221	302	356	338	308	318	368	376	317	204	
10	1013	1046	1273	1564	1688	1597	1556	1581	1596	1517	1366	1119	
11	2423	2627	2969	3449	3656	3529	3486	3554	3560	3481	3219	2725	
12	4517	4709	5175	5663	5957	5735	5623	5992	6003	5783	5353	4713	
13	6481	7076	7574	8004	8326	7802	7950	8270	8324	7702	6938	6292	
14	7214	7867	8652	9207	9249	8828	8895	9079	8890	8162	7667	7126	
15	8385	8887	9003	8994	9026	8723	8793	9040	8919	8452	8128	7851	
16	7978	8462	8211	7847	7783	7548	7554	7569	7484	7161	6877	7183	
17	6002	6498	6217	5834	5782	5602	5576	5601	5473	5281	5133	5454	
18	4145	4218	3607	3261	3287	3238	3106	2978	2925	3023	3201	3669	
19	2342	2307	1946	1718	1847	1873	1889	1702	1540	1556	1741	2072	
20	1027	1004	804	667	743	809	801	660	508	556	591	856	
21	550	465	311	254	296	307	284	244	219	292	402	511	
22	275	235	167	145	167	175	171	144	117	137	180	247	
23	63	65	49	43	50	61	57	40	22	13	0	41	
	52550	55612	56180	56954	58215	56167	56051	56774	55950	53494	51115	50064	659126

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-1406	-1463	-1881	-2349	-2366	-2364	-2363	-2363	-2228	-1708	-1614	-1544	
1	-1843	-1837	-2270	-2558	-2779	-2464	-2409	-2428	-2335	-1746	-1707	-1844	
2	-2303	-2289	-2607	-2933	-2943	-2943	-2957	-3004	-2903	-2298	-2203	-2235	
3	-2303	-2289	-2607	-2933	-2943	-2943	-2957	-3005	-2904	-2298	-2203	-2235	
4	-2586	-2518	-2788	-3100	-3278	-3031	-3052	-3204	-3075	-2347	-2337	-2598	
5	-2848	-2787	-3085	-3308	-3414	-3416	-3439	-3504	-3364	-2649	-2659	-2742	
6	-2849	-2789	-3071	-3237	-3242	-3241	-3278	-3399	-3348	-2577	-2526	-2740	
7	-2547	-2572	-2709	-2951	-3054	-2916	-3001	-3254	-3116	-2217	-2166	-2424	
8	-2334	-2271	-2435	-2565	-2725	-2729	-2749	-2795	-2630	-2057	-2150	-2240	
9	-2187	-2112	-2186	-2111	-2057	-2076	-2148	-2275	-2233	-1551	-1574	-1977	
10	-413	-560	-532	-332	-295	-236	-322	-487	-306	430	349	-82	
11	1664	1739	1988	2219	2277	2187	2272	2316	2423	2708	2393	1997	
12	3777	3837	4215	4588	4879	4698	4694	4952	4890	5136	4792	4067	
13	6797	6983	7022	7409	7732	7277	7450	7693	7823	7934	7346	6795	
14	8053	8456	8944	9253	9287	8929	9211	9326	9063	8575	8245	8004	
15	9207	9481	9280	9090	9117	8877	9144	9320	9091	8868	8724	8643	
16	9011	9047	8259	7847	7783	7628	7677	7664	7665	7842	7711	8207	
17	6915	7160	6487	5885	5825	5719	5915	5864	5618	5669	5711	6392	
18	5009	4867	3744	3064	3007	3128	3195	3013	2895	3315	3653	4359	
19	2722	2478	1678	1291	1417	1480	1507	1284	1188	1613	1883	2293	
20	1144	980	386	110	117	312	381	239	102	351	503	974	
21	424	277	-367	-794	-875	-688	-675	-701	-643	-261	-47	177	
22	-283	-375	-795	-1126	-1113	-1103	-1107	-1135	-1065	-711	-609	-476	
23	-885	-916	-1257	-1462	-1633	-1328	-1246	-1240	-1175	-849	-855	-902	
	29936	30527	23413	18997	18724	18757	19743	18877	19433	29172	28660	27869	284108

D3 Ladrillo hueco (H15) / Teja de asbesto

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)
0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	230	250	385	527	624	592	540	557	645	660	554	355
8	1792	1852	2257	2775	2996	2834	2761	2806	2833	2691	2422	1982
9	4311	4674	5284	6140	6509	6283	6206	6327	6337	6197	5730	4849
10	7992	8335	9153	9983	10471	10075	9894	10561	10585	10187	9420	8317
11	11213	12302	13188	13842	14274	13312	13610	14244	14445	13300	11909	10809
12	11972	13276	14848	15761	15619	14829	14985	15427	15243	13745	12700	11740
13	13684	14789	15328	15396	15243	14628	14725	15369	15245	14131	13271	12690
14	13023	14051	13941	13491	13206	12682	12672	12896	12803	11981	11313	11734
15	10033	10961	10627	10178	9916	9501	9522	9702	9508	8965	8600	9084
16	6870	7098	6229	5753	5698	5501	5376	5250	5104	5048	5207	5937
17	3525	3562	3155	2829	2994	3060	3107	2827	2492	2404	2630	3089
18	1390	1372	1080	885	1037	1220	1165	884	645	716	773	1190
19	843	734	491	368	509	542	513	398	386	567	710	821
20	721	636	455	357	434	452	440	378	350	494	591	675
21	550	465	311	254	296	307	284	244	219	292	402	511
22	275	235	167	145	167	175	171	144	117	137	180	247
23	63	65	49	43	50	61	57	40	22	13	0	41
88487 94657 96948 98727 100043 96054 96028 98054 96979 91528 86412 84071 1127988												

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)
0	-3135	-3232	-3885	-4647	-4671	-4670	-4669	-4669	-4419	-3515	-3364	-3272
1	-3325	-3477	-4095	-4745	-4856	-4717	-4700	-4733	-4526	-3538	-3366	-3307
2	-3759	-3781	-4297	-4898	-4916	-4916	-4988	-5219	-5191	-3913	-3681	-3691
3	-4370	-4128	-4746	-4911	-4916	-4916	-4988	-5220	-5192	-3913	-3750	-4034
4	-4653	-4357	-4926	-5078	-5251	-5004	-5060	-5324	-5201	-3931	-3885	-4397
5	-4915	-4934	-5122	-5548	-5903	-5554	-5681	-6038	-5527	-4248	-4388	-4896
6	-4916	-4936	-5108	-5493	-5900	-5909	-5924	-5942	-5539	-4462	-4781	-4911
7	-4291	-4295	-4274	-4291	-4200	-4233	-4377	-4655	-4583	-3149	-3259	-4031
8	-954	-848	-585	-109	110	-52	-203	-400	-356	710	581	-212
9	3261	3653	4145	4853	5212	4985	4889	4974	5104	5295	4900	3930
10	7261	7395	8012	8752	9153	8908	8704	9253	9446	9572	8973	7772
11	11913	12203	12273	12669	12956	12139	12653	13286	13699	13493	12293	11693
12	12706	13438	14586	14931	14773	14183	14950	15099	14567	14042	13272	12635
13	14917	15426	15449	15046	14880	14453	15042	15413	15029	14950	14416	14173
14	14575	15005	14024	13442	13153	12737	12777	12899	12915	12888	12462	13144
15	11261	11908	10696	10178	9916	9501	9587	9737	9509	9128	9113	10195
16	8269	8115	6266	5753	5698	5539	5445	5331	5241	5444	5828	6879
17	4091	3966	3400	2879	3037	3177	3420	3077	2637	2743	3055	3655
18	1912	1734	1211	549	603	1031	1255	919	582	985	1149	1734
19	1207	887	-224	-1176	-1347	-826	-753	-869	-686	348	661	962
20	484	162	-1115	-1829	-1832	-1712	-1679	-1742	-1582	-690	-383	54
21	-481	-867	-1928	-2323	-2531	-2129	-2063	-2067	-1900	-1131	-858	-641
22	-1843	-1947	-2334	-2850	-2841	-2832	-2835	-2863	-2727	-2149	-1997	-1885
23	-2230	-2216	-2567	-3076	-3159	-3008	-2961	-2969	-2837	-2287	-2243	-2268
52985 54874 44856 38078 37168 36175 37841 37278 38463 52672 50748 49281 530419												

D4 Ladrillo hueco (H15) / Teja termoacústica (Estrutech)

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	34	37	57	79	93	88	80	83	96	98	83	53	
9	267	275	335	411	444	420	409	415	420	399	359	295	
10	637	690	780	906	960	926	915	933	934	914	845	716	
11	1176	1227	1347	1469	1540	1482	1455	1553	1557	1499	1386	1224	
12	1680	1838	1976	2095	2178	2037	2071	2159	2186	2022	1818	1636	
13	1946	2122	2352	2546	2603	2502	2508	2538	2453	2254	2115	1948	
14	2500	2585	2573	2630	2729	2659	2649	2682	2586	2533	2495	2399	
15	2657	2694	2506	2421	2522	2492	2500	2409	2324	2356	2410	2506	
16	2323	2341	2079	1935	2043	2046	2045	1943	1847	1943	2005	2133	
17	1709	1667	1378	1183	1336	1377	1324	1177	1101	1270	1422	1587	
18	1236	1125	835	683	832	931	879	721	664	864	1042	1193	
19	922	830	582	449	590	635	607	472	427	583	710	868	
20	721	636	455	357	434	452	440	378	350	494	591	675	
21	550	465	311	254	296	307	284	244	219	292	402	511	
22	275	235	167	145	167	175	171	144	117	137	180	247	
23	63	65	49	43	50	61	57	40	22	13	0	41	
	18696	18832	17782	17606	18817	18590	18394	17891	17303	17671	17863	18032	217477

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-990	-1002	-1367	-1701	-1746	-1697	-1686	-1682	-1579	-1192	-1145	-1133	
1	-1187	-1288	-1615	-1861	-1960	-1821	-1804	-1837	-1773	-1284	-1196	-1169	
2	-1621	-1591	-1817	-2014	-2020	-2020	-2034	-2081	-2025	-1580	-1511	-1554	
3	-1621	-1591	-1817	-2014	-2020	-2020	-2040	-2108	-2071	-1588	-1511	-1554	
4	-1970	-1857	-2045	-2182	-2354	-2108	-2113	-2212	-2080	-1606	-1653	-1953	
5	-1993	-1991	-2167	-2384	-2491	-2493	-2500	-2513	-2369	-1908	-1947	-1963	
6	-2020	-2040	-2160	-2342	-2374	-2336	-2364	-2451	-2357	-1837	-1837	-2013	
7	-1624	-1649	-1769	-1953	-2002	-2003	-2038	-2146	-2113	-1502	-1451	-1508	
8	-1378	-1311	-1433	-1454	-1442	-1447	-1481	-1556	-1516	-1104	-1093	-1263	
9	-963	-894	-984	-913	-881	-905	-942	-1021	-1021	-616	-573	-755	
10	-129	-254	-360	-341	-375	-258	-291	-389	-204	241	203	-6	
11	421	352	367	295	222	201	302	364	420	732	581	515	
12	1082	1049	1023	1020	1100	1012	1163	1144	1115	1456	1309	1092	
13	1850	1836	1850	1977	2033	1977	2026	1945	1845	2210	2179	1992	
14	2915	2880	2666	2607	2700	2648	2711	2726	2634	2671	2728	2818	
15	3035	2965	2516	2421	2522	2504	2515	2413	2336	2487	2644	2791	
16	2954	2706	2109	1935	2043	2084	2121	2028	1984	2295	2473	2803	
17	2327	2111	1624	1234	1378	1494	1638	1426	1245	1615	1868	2193	
18	1762	1491	967	486	553	821	969	755	635	1133	1418	1737	
19	1287	986	313	7	143	234	225	54	72	641	852	1089	
20	838	612	-11	-265	-285	-117	-75	-135	-120	259	482	784	
21	386	230	-315	-536	-499	-488	-511	-550	-525	-257	-67	129	
22	-241	-321	-530	-677	-684	-633	-627	-651	-627	-432	-357	-277	
23	-713	-655	-790	-947	-1021	-871	-823	-831	-814	-661	-694	-751	
	2407	774	-5745	-9602	-9460	-8242	-7659	-9308	-8908	173	1702	2044	-51824

E1 Bloque de concreto / Teja de barro, tierra y caña brava pañetada

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	1	1	1	2	2	2	2	2	2	2	2	1	
9	5	5	6	6	7	6	6	6	6	7	6	6	
10	9	9	10	10	10	10	10	10	10	11	10	9	
11	72	77	114	152	178	168	155	160	183	187	159	105	
12	520	535	651	813	893	851	821	827	831	797	726	586	
13	1358	1438	1600	1896	2081	2037	1997	1991	1929	1914	1806	1541	
14	2685	2691	2807	3087	3360	3280	3204	3307	3219	3236	3132	2825	
15	3861	4012	4043	4203	4495	4296	4380	4402	4362	4244	4057	3802	
16	4211	4407	4557	4705	4848	4717	4757	4713	4577	4400	4277	4098	
17	4477	4670	4597	4448	4590	4511	4504	4518	4428	4354	4287	4214	
18	4215	4364	4077	3808	3864	3830	3764	3689	3668	3686	3669	3885	
19	3345	3505	3200	2951	2993	2906	2878	2836	2794	2804	2820	3061	
20	2340	2344	1980	1769	1793	1743	1697	1635	1588	1677	1787	2056	
21	1306	1248	1025	912	953	961	958	880	782	784	924	1146	
22	444	430	346	304	328	359	357	289	202	179	197	355	
23	69	70	53	47	54	66	62	44	24	14	0	45	
	28918	29806	29067	29113	30449	29743	29552	29309	28605	28296	27859	27735	348452

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-947	-1038	-1516	-1893	-1964	-1876	-1856	-1848	-1722	-1237	-1155	-1086	
1	-1327	-1439	-1801	-2093	-2202	-2051	-2030	-2063	-1985	-1442	-1340	-1308	
2	-1787	-1762	-2010	-2259	-2267	-2267	-2282	-2328	-2261	-1764	-1683	-1719	
3	-1924	-1833	-2109	-2321	-2393	-2296	-2290	-2329	-2263	-1773	-1733	-1866	
4	-2241	-2155	-2379	-2619	-2804	-2544	-2539	-2618	-2446	-1933	-1974	-2255	
5	-2266	-2300	-2511	-2840	-2949	-2952	-2952	-2945	-2761	-2256	-2283	-2265	
6	-2267	-2302	-2497	-2769	-2778	-2776	-2804	-2892	-2834	-2201	-2151	-2262	
7	-2004	-1986	-2203	-2381	-2387	-2387	-2436	-2593	-2601	-1838	-1724	-1829	
8	-1810	-1696	-1943	-1989	-1992	-1992	-2026	-2130	-2104	-1567	-1505	-1649	
9	-1843	-1774	-1948	-2000	-2053	-1978	-2028	-2178	-2102	-1545	-1490	-1698	
10	-1564	-1737	-1950	-2096	-2278	-2119	-2145	-2269	-2012	-1374	-1419	-1518	
11	-1493	-1603	-1674	-1836	-1968	-1940	-1839	-1909	-1824	-1245	-1357	-1424	
12	-701	-808	-780	-733	-656	-658	-594	-744	-815	-185	-205	-498	
13	1049	980	969	1216	1399	1383	1331	1233	1213	1734	1710	1374	
14	2949	2874	2825	3033	3302	3223	3164	3271	3220	3283	3278	3110	
15	4417	4369	4061	4203	4495	4319	4423	4452	4447	4492	4447	4318	
16	5105	4940	4733	4758	4898	4843	5026	4956	4822	4979	5003	5066	
17	5372	5292	5015	4560	4689	4726	5039	4945	4682	4933	5012	5180	
18	5065	4926	4245	3618	3592	3756	3913	3753	3677	4175	4309	4733	
19	3965	3849	2947	2524	2562	2517	2515	2427	2446	2917	3080	3524	
20	2679	2502	1567	1266	1227	1278	1279	1215	1195	1488	1754	2285	
21	1217	1092	522	302	340	348	345	268	203	342	556	855	
22	26	-3	-164	-337	-320	-272	-256	-323	-385	-286	-246	-79	
23	-525	-463	-669	-935	-1074	-823	-753	-755	-727	-524	-550	-583	
	9145	7925	730	-3621	-3581	-2538	-1795	-3404	-2937	7173	8334	8406	23837

E2 Bloque de concreto / Teja de barro, mortero y machimbre

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	1	1	1	2	2	2	2	2	2	2	2	1	
9	134	145	221	302	356	338	308	318	368	376	317	204	
10	1013	1046	1273	1564	1688	1597	1556	1581	1596	1517	1366	1119	
11	2423	2627	2969	3449	3656	3529	3486	3554	3560	3481	3219	2725	
12	4520	4711	5178	5668	5964	5742	5630	5998	6009	5789	5359	4718	
13	6498	7092	7589	8025	8355	7832	7979	8296	8344	7724	6961	6312	
14	7261	7907	8684	9243	9297	8879	8943	9121	8924	8206	7719	7178	
15	8457	8948	9047	9037	9083	8786	8856	9091	8962	8510	8201	7927	
16	8062	8534	8261	7890	7842	7614	7619	7620	7528	7223	6952	7264	
17	6075	6562	6264	5869	5834	5662	5632	5644	5510	5336	5202	5528	
18	4219	4281	3646	3289	3329	3289	3151	3011	2956	3077	3270	3745	
19	2418	2373	1990	1751	1893	1921	1935	1738	1574	1607	1806	2146	
20	1092	1062	846	700	783	850	841	694	539	601	644	918	
21	600	508	339	277	323	334	310	266	239	319	439	557	
22	301	257	182	158	182	191	187	157	128	150	197	270	
23	69	70	53	47	54	66	62	44	24	14	0	45	
	53143	56124	56543	57271	58641	56632	56497	57135	56263	53932	51654	50657	664492

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-1418	-1477	-1917	-2402	-2420	-2418	-2418	-2418	-2277	-1739	-1643	-1568	
1	-1871	-1873	-2325	-2621	-2850	-2522	-2464	-2482	-2384	-1778	-1735	-1872	
2	-2357	-2345	-2670	-3009	-3019	-3019	-3034	-3080	-2976	-2356	-2258	-2289	
3	-2357	-2345	-2670	-3009	-3019	-3019	-3034	-3081	-2977	-2356	-2258	-2289	
4	-2661	-2584	-2865	-3185	-3373	-3112	-3130	-3281	-3148	-2407	-2400	-2674	
5	-2925	-2866	-3173	-3411	-3517	-3520	-3543	-3608	-3463	-2730	-2736	-2819	
6	-2925	-2867	-3159	-3340	-3346	-3344	-3382	-3502	-3447	-2657	-2604	-2816	
7	-2624	-2650	-2797	-3054	-3157	-3020	-3106	-3365	-3227	-2300	-2243	-2500	
8	-2430	-2360	-2538	-2668	-2828	-2832	-2854	-2906	-2742	-2140	-2230	-2327	
9	-2282	-2202	-2288	-2215	-2160	-2179	-2253	-2386	-2345	-1634	-1654	-2065	
10	-516	-663	-638	-444	-415	-345	-434	-611	-419	346	263	-185	
11	1561	1636	1883	2106	2152	2061	2146	2191	2309	2616	2290	1894	
12	3676	3736	4115	4490	4782	4602	4595	4847	4785	5059	4712	3968	
13	6760	6945	6984	7377	7707	7254	7423	7656	7781	7923	7339	6777	
14	8100	8495	8975	9285	9330	8974	9254	9364	9097	8619	8297	8055	
15	9280	9542	9324	9133	9174	8939	9207	9370	9134	8928	8803	8725	
16	9142	9144	8311	7890	7842	7697	7749	7723	7721	7935	7825	8339	
17	7035	7257	6556	5928	5884	5791	6000	5930	5668	5755	5818	6518	
18	5131	4963	3806	3100	3057	3192	3269	3068	2941	3399	3761	4488	
19	2840	2568	1724	1324	1462	1532	1558	1321	1227	1693	1981	2404	
20	1241	1062	429	143	156	353	423	274	134	399	569	1066	
21	502	342	-338	-771	-848	-660	-649	-679	-623	-232	-4	235	
22	-256	-352	-779	-1113	-1097	-1088	-1091	-1121	-1054	-699	-593	-453	
23	-879	-910	-1253	-1463	-1633	-1325	-1241	-1237	-1174	-848	-855	-898	
	29767	30196	22697	18071	17864	17992	18991	17987	18541	28796	28445	27714	277061

E3 Bloque de concreto / Teja de asbesto

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	230	250	385	527	624	592	540	557	645	660	554	355	
8	1792	1852	2257	2775	2996	2834	2761	2806	2833	2691	2422	1982	
9	4311	4674	5284	6140	6509	6283	6206	6327	6337	6197	5730	4849	
10	7992	8335	9153	9983	10471	10075	9894	10561	10585	10187	9420	8317	
11	11213	12302	13188	13842	14274	13312	13610	14244	14445	13300	11909	10809	
12	11974	13278	14852	15766	15626	14836	14992	15433	15248	13751	12706	11744	
13	13701	14805	15344	15417	15272	14659	14754	15395	15265	14152	13295	12710	
14	13070	14091	13972	13528	13255	12732	12720	12938	12837	12025	11366	11786	
15	10105	11022	10671	10220	9973	9563	9585	9753	9551	9023	8673	9161	
16	6955	7170	6279	5796	5757	5567	5441	5302	5148	5110	5282	6018	
17	3598	3626	3202	2864	3046	3120	3163	2870	2528	2459	2699	3163	
18	1465	1434	1119	914	1079	1272	1211	917	676	770	842	1266	
19	919	800	535	401	555	591	559	434	421	619	774	896	
20	786	694	496	389	473	494	480	412	382	539	644	737	
21	600	508	339	277	323	334	310	266	239	319	439	557	
22	301	257	182	158	182	191	187	157	128	150	197	270	
23	69	70	53	47	54	66	62	44	24	14	0	45	
	89081	95168	97311	99044	100469	96521	96475	98416	97292	91966	86952	84665	1133360

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-3146	-3246	-3921	-4700	-4725	-4724	-4723	-4723	-4469	-3547	-3392	-3296	
1	-3353	-3513	-4150	-4808	-4927	-4776	-4755	-4788	-4576	-3569	-3394	-3334	
2	-3813	-3836	-4360	-4974	-4992	-4992	-5064	-5295	-5263	-3971	-3736	-3745	
3	-4424	-4184	-4809	-4987	-4992	-4992	-5064	-5296	-5265	-3971	-3806	-4088	
4	-4727	-4423	-5003	-5163	-5346	-5085	-5138	-5401	-5274	-3990	-3947	-4473	
5	-4991	-5013	-5211	-5651	-6006	-5658	-5785	-6141	-5625	-4328	-4465	-4972	
6	-4992	-5014	-5196	-5596	-6004	-6013	-6027	-6046	-5637	-4542	-4858	-4988	
7	-4367	-4373	-4363	-4394	-4304	-4337	-4482	-4766	-4694	-3232	-3337	-4108	
8	-1050	-938	-688	-213	6	-156	-308	-511	-467	627	501	-299	
9	3165	3564	4042	4749	5109	4882	4783	4863	4993	5212	4821	3843	
10	7158	7291	7907	8640	9034	8799	8591	9128	9334	9488	8887	7669	
11	11810	12099	12168	12556	12830	12013	12527	13162	13586	13401	12190	11590	
12	12606	13337	14486	14833	14677	14087	14851	14994	14462	13965	13191	12537	
13	14881	15388	15411	15013	14855	14429	15015	15377	14987	14939	14409	14155	
14	14622	15044	14055	13473	13196	12783	12821	12937	12949	12932	12514	13196	
15	11334	11969	10739	10220	9973	9564	9650	9788	9551	9187	9192	10277	
16	8401	8212	6318	5796	5757	5608	5517	5390	5298	5537	5942	7011	
17	4212	4063	3469	2922	3096	3249	3505	3142	2687	2829	3162	3780	
18	2034	1829	1273	585	652	1095	1329	975	628	1069	1256	1862	
19	1324	978	-178	-1143	-1301	-774	-703	-832	-647	428	759	1074	
20	581	244	-1071	-1796	-1792	-1670	-1637	-1707	-1550	-641	-317	146	
21	-403	-801	-1899	-2300	-2504	-2101	-2037	-2045	-1880	-1103	-815	-583	
22	-1816	-1924	-2319	-2837	-2826	-2816	-2820	-2850	-2717	-2136	-1981	-1863	
23	-2224	-2211	-2563	-3076	-3160	-3005	-2956	-2965	-2836	-2285	-2243	-2264	
	52822	54542	44137	37149	36306	35410	37090	36390	37575	52299	50533	49127	523380

E4 Bloque de concreto / Teja termoacústica (Estrutech)

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	34	37	57	79	93	88	80	83	96	98	83	53	
9	267	275	335	411	444	420	409	415	420	399	359	295	
10	637	690	780	906	960	926	915	933	934	914	845	716	
11	1176	1227	1347	1469	1540	1482	1455	1553	1557	1499	1386	1224	
12	1683	1841	1980	2100	2185	2045	2077	2165	2191	2027	1824	1640	
13	1964	2138	2368	2567	2632	2532	2536	2563	2473	2275	2138	1968	
14	2546	2625	2604	2666	2777	2709	2697	2724	2620	2576	2548	2451	
15	2730	2755	2549	2463	2580	2555	2563	2460	2366	2413	2483	2582	
16	2407	2413	2129	1978	2102	2112	2110	1995	1891	2005	2081	2214	
17	1782	1732	1425	1218	1388	1437	1381	1219	1137	1325	1490	1661	
18	1310	1187	875	711	875	983	925	753	696	917	1111	1269	
19	998	896	626	482	636	684	653	508	462	635	774	943	
20	786	694	496	389	473	494	480	412	382	539	644	737	
21	600	508	339	277	323	334	310	266	239	319	439	557	
22	301	257	182	158	182	191	187	157	128	150	197	270	
23	69	70	53	47	54	66	62	44	24	14	0	45	
	19290	19345	18145	17921	19244	19058	18840	18250	17616	18105	18402	18625	222841

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-1002	-1016	-1403	-1755	-1801	-1751	-1740	-1736	-1629	-1223	-1173	-1157	
1	-1216	-1324	-1670	-1923	-2031	-1879	-1859	-1891	-1822	-1316	-1224	-1196	
2	-1676	-1647	-1880	-2090	-2096	-2096	-2110	-2157	-2098	-1638	-1566	-1608	
3	-1676	-1647	-1880	-2090	-2096	-2096	-2117	-2184	-2143	-1647	-1566	-1608	
4	-2045	-1923	-2123	-2267	-2449	-2189	-2190	-2289	-2153	-1666	-1716	-2029	
5	-2069	-2069	-2255	-2487	-2594	-2597	-2603	-2616	-2468	-1989	-2025	-2040	
6	-2096	-2118	-2249	-2445	-2478	-2439	-2467	-2554	-2455	-1918	-1915	-2089	
7	-1700	-1727	-1858	-2056	-2105	-2106	-2143	-2257	-2225	-1585	-1529	-1584	
8	-1474	-1401	-1536	-1557	-1545	-1550	-1586	-1667	-1627	-1187	-1173	-1350	
9	-1059	-983	-1086	-1017	-984	-1009	-1048	-1132	-1133	-699	-652	-842	
10	-233	-357	-466	-453	-495	-367	-404	-513	-317	158	117	-109	
11	317	249	262	182	97	75	176	239	307	639	478	412	
12	982	949	923	922	1004	916	1064	1038	1009	1378	1229	993	
13	1814	1798	1812	1945	2008	1953	1999	1909	1803	2198	2172	1974	
14	2962	2919	2697	2638	2743	2693	2754	2764	2668	2715	2781	2870	
15	3108	3026	2560	2463	2580	2567	2578	2464	2378	2546	2723	2873	
16	3085	2803	2161	1978	2102	2153	2193	2087	2040	2388	2586	2936	
17	2448	2208	1693	1276	1438	1566	1722	1492	1296	1701	1975	2318	
18	1884	1586	1028	522	602	885	1043	811	681	1217	1525	1865	
19	1404	1076	359	40	188	286	276	91	111	720	950	1201	
20	936	694	32	-232	-246	-76	-33	-99	-88	308	549	876	
21	464	295	-286	-513	-472	-460	-485	-528	-505	-229	-24	188	
22	-214	-298	-514	-664	-669	-617	-612	-638	-616	-420	-341	-255	
23	-707	-649	-786	-948	-1022	-868	-818	-827	-814	-659	-694	-747	
	2237	444	-6465	-10531	-10321	-9006	-8410	-10193	-9800	-208	1487	1892	-58874

F1 Poliestireno Expandido (Durapanel)/Teja de barro, tierra y caña brava pañetada

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	1	1	1	2	2	2	2	2	2	2	2	1	
9	13	13	15	22	27	27	24	23	23	24	23	17	
10	58	54	55	72	93	96	91	82	68	73	76	68	
11	206	191	204	256	315	312	292	280	280	312	308	251	
12	694	677	736	870	970	941	924	901	885	891	862	754	
13	1395	1454	1553	1758	1901	1861	1840	1833	1814	1829	1742	1525	
14	2331	2397	2563	2752	2930	2846	2787	2925	2918	2868	2701	2422	
15	3206	3462	3631	3773	3926	3695	3755	3889	3941	3702	3376	3107	
16	3412	3732	4083	4285	4273	4068	4105	4198	4149	3801	3560	3340	
17	3790	4064	4153	4124	4080	3916	3942	4106	4082	3821	3620	3502	
18	3465	3734	3686	3535	3435	3292	3291	3357	3348	3120	2950	3098	
19	2505	2773	2716	2594	2487	2367	2370	2445	2407	2223	2092	2233	
20	1570	1666	1496	1391	1333	1265	1232	1234	1211	1142	1143	1330	
21	706	741	685	636	630	626	648	614	543	465	486	589	
22	144	173	165	146	146	168	170	133	74	29	0	85	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	23496	25132	25742	26216	26548	25482	25473	26022	25745	24302	22941	22322	299421

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-965	-1032	-1266	-1468	-1532	-1445	-1424	-1416	-1334	-1026	-973	-954	
1	-1195	-1196	-1363	-1588	-1623	-1582	-1588	-1631	-1597	-1235	-1180	-1200	
2	-1356	-1319	-1508	-1643	-1647	-1647	-1662	-1708	-1671	-1294	-1240	-1288	
3	-1492	-1390	-1607	-1704	-1773	-1676	-1670	-1709	-1672	-1303	-1290	-1435	
4	-1569	-1586	-1702	-1895	-1962	-1873	-1910	-2020	-1893	-1456	-1442	-1563	
5	-1624	-1618	-1743	-1900	-2005	-2007	-2012	-2022	-1901	-1529	-1582	-1599	
6	-1625	-1619	-1729	-1829	-1833	-1832	-1864	-1969	-1974	-1473	-1450	-1596	
7	-1384	-1344	-1441	-1465	-1489	-1457	-1496	-1615	-1586	-1081	-1042	-1208	
8	-957	-921	-1010	-1070	-1109	-1110	-1123	-1153	-1092	-836	-844	-899	
9	-981	-991	-1001	-1040	-1088	-1012	-1048	-1145	-1067	-771	-763	-934	
10	-428	-607	-798	-846	-912	-884	-872	-882	-782	-407	-404	-338	
11	-119	-252	-322	-398	-342	-305	-210	-306	-366	-9	29	-38	
12	715	574	545	564	661	673	771	662	575	916	984	920	
13	1861	1716	1577	1728	1868	1866	1863	1838	1879	2141	2121	1973	
14	2730	2687	2646	2775	2952	2883	2888	3001	2959	3004	2958	2854	
15	3884	3912	3712	3795	3947	3754	3880	4004	4066	4017	3802	3702	
16	3866	4038	4240	4338	4324	4163	4312	4356	4254	4090	3918	3798	
17	4205	4359	4310	4142	4091	3980	4142	4263	4168	4042	3919	3939	
18	3825	3967	3589	3252	3074	3069	3097	3149	3189	3243	3146	3364	
19	2633	2827	2439	2167	2056	1937	1954	2022	2017	2002	1953	2252	
20	1530	1535	1058	876	753	793	790	800	816	905	960	1195	
21	283	304	136	-76	-112	-75	-45	-76	-102	-25	26	149	
22	-322	-315	-451	-648	-657	-617	-597	-635	-653	-525	-523	-416	
23	-676	-637	-880	-1108	-1271	-1024	-973	-954	-878	-628	-630	-705	
	10839	11092	7431	4959	4371	4572	5203	4854	5355	10762	10453	9973	89864

F2 Poliestireno Expandido (Durapanel) / Teja de barro, mortero y machimbre

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	1	1	1	2	2	2	2	2	2	2	2	1	
9	142	153	231	317	377	358	327	335	384	393	334	216	
10	1062	1091	1319	1626	1771	1683	1638	1654	1654	1580	1432	1178	
11	2557	2740	3059	3552	3794	3673	3624	3674	3656	3606	3368	2871	
12	4693	4853	5263	5725	6041	5833	5733	6072	6063	5883	5496	4886	
13	6534	7108	7542	7888	8175	7656	7822	8138	8229	7639	6897	6297	
14	6907	7613	8440	8908	8867	8444	8527	8738	8623	7838	7288	6774	
15	7803	8398	8635	8607	8515	8185	8232	8578	8541	7969	7520	7232	
16	7264	7858	7786	7470	7268	6964	6967	7105	7100	6625	6234	6506	
17	5388	5956	5821	5545	5324	5066	5071	5231	5163	4803	4535	4816	
18	3469	3650	3255	3016	2900	2752	2678	2679	2635	2510	2551	2958	
19	1577	1642	1507	1394	1388	1383	1427	1347	1188	1026	1078	1319	
20	322	385	362	321	323	372	376	293	163	65	0	192	
21	0	0	0	0	0	0	0	0	0	0	0	0	
22	0	0	0	0	0	0	0	0	0	0	0	0	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	47719	51448	53221	54371	54745	52371	52424	53846	53401	49939	46735	45246	615466

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-1435	-1470	-1666	-1977	-1988	-1986	-1986	-1986	-1889	-1529	-1461	-1435	
1	-1739	-1630	-1887	-2116	-2270	-2054	-2022	-2050	-1996	-1571	-1575	-1763	
2	-1925	-1902	-2168	-2393	-2399	-2399	-2414	-2460	-2385	-1887	-1815	-1857	
3	-1925	-1902	-2168	-2393	-2399	-2399	-2414	-2461	-2387	-1887	-1815	-1857	
4	-1988	-2015	-2189	-2461	-2530	-2441	-2501	-2683	-2595	-1929	-1868	-1983	
5	-2283	-2183	-2405	-2471	-2573	-2575	-2603	-2685	-2602	-2002	-2035	-2152	
6	-2284	-2185	-2391	-2400	-2401	-2400	-2442	-2579	-2586	-1929	-1902	-2150	
7	-2004	-2008	-2036	-2138	-2259	-2090	-2166	-2388	-2212	-1543	-1561	-1879	
8	-1577	-1585	-1605	-1749	-1946	-1950	-1951	-1929	-1729	-1410	-1569	-1576	
9	-1421	-1419	-1341	-1254	-1195	-1213	-1273	-1354	-1310	-860	-927	-1300	
10	620	467	515	805	950	890	839	775	811	1313	1278	996	
11	2935	2986	3235	3545	3778	3697	3776	3794	3767	3851	3676	3280	
12	5093	5118	5440	5787	6100	5933	5960	6253	6175	6159	5901	5386	
13	7573	7681	7592	7889	8176	7737	7955	8261	8448	8330	7750	7375	
14	7881	8308	8796	9027	8980	8635	8978	9094	8836	8340	7976	7799	
15	8747	9085	8975	8725	8627	8374	8664	8922	8753	8453	8158	8109	
16	7903	8242	7818	7470	7268	7017	7035	7122	7154	7046	6740	7071	
17	5869	6325	5852	5510	5285	5046	5102	5248	5155	4863	4725	5276	
18	3891	4004	3150	2733	2539	2505	2454	2464	2453	2468	2597	3118	
19	1507	1546	1215	967	957	952	997	916	798	778	854	1132	
20	93	95	-79	-248	-318	-132	-66	-141	-246	-184	-225	-24	
21	-432	-446	-724	-1149	-1300	-1084	-1040	-1023	-927	-598	-535	-472	
22	-605	-664	-1066	-1424	-1435	-1433	-1433	-1433	-1322	-937	-870	-790	
23	-1031	-1085	-1464	-1636	-1830	-1527	-1461	-1435	-1325	-951	-936	-1020	
	31463	33363	29399	26649	25817	25103	25988	26242	26839	32384	30561	29284	343092

F3 Poliestireno Expandido (Durapanel) / Teja de asbesto

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	230	250	385	527	624	592	540	557	645	660	554	355	
8	1792	1852	2257	2775	2996	2834	2761	2806	2833	2691	2422	1982	
9	4319	4681	5294	6155	6530	6303	6225	6344	6353	6214	5748	4861	
10	8041	8380	9198	10045	10554	10162	9975	10633	10642	10250	9487	8376	
11	11347	12416	13278	13946	14411	13455	13747	14364	14541	13425	12058	10956	
12	12148	13420	14936	15823	15703	14927	15095	15506	15302	13845	12843	11913	
13	13737	14821	15296	15280	15092	14482	14597	15237	15150	14067	13230	12695	
14	12716	13797	13729	13193	12824	12298	12304	12556	12536	11657	10935	11382	
15	9450	10471	10259	9790	9405	8962	8960	9240	9130	8482	7992	8466	
16	6156	6494	5804	5376	5182	4918	4789	4786	4720	4512	4565	5261	
17	2910	3020	2759	2540	2536	2524	2602	2457	2182	1926	2032	2451	
18	715	804	728	641	650	734	738	586	355	203	123	479	
19	78	69	51	44	50	52	51	43	34	38	47	68	
20	16	17	13	11	13	16	15	10	6	3	0	11	
21	0	0	0	0	0	0	0	0	0	0	0	0	
22	0	0	0	0	0	0	0	0	0	0	0	0	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	83655	90492	93987	96146	96570	92259	92399	95125	94429	87973	82036	79256	1084327

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-3164	-3239	-3670	-4275	-4294	-4292	-4292	-4292	-4081	-3336	-3211	-3164	
1	-3221	-3270	-3713	-4303	-4348	-4307	-4313	-4356	-4188	-3362	-3234	-3226	
2	-3382	-3393	-3858	-4358	-4372	-4372	-4444	-4675	-4673	-3502	-3293	-3314	
3	-3992	-3741	-4306	-4371	-4372	-4372	-4444	-4676	-4675	-3502	-3363	-3656	
4	-4055	-3854	-4327	-4439	-4503	-4414	-4509	-4803	-4721	-3513	-3416	-3781	
5	-4350	-4330	-4442	-4712	-5061	-4713	-4845	-5219	-4765	-3600	-3764	-4306	
6	-4350	-4332	-4428	-4656	-5059	-5068	-5088	-5123	-4777	-3814	-4157	-4321	
7	-3747	-3731	-3601	-3479	-3406	-3407	-3542	-3788	-3679	-2476	-2654	-3486	
8	-197	-163	245	706	889	726	595	466	545	1358	1163	452	
9	4027	4347	4990	5709	6074	5847	5763	5895	6027	5986	5547	4607	
10	8293	8422	9060	9889	10399	10034	9865	10515	10564	10455	9902	8850	
11	13184	13450	13519	13995	14456	13649	14156	14765	15043	14636	13575	12976	
12	14023	14719	15811	16129	15994	15418	16216	16400	15852	15065	14381	13954	
13	15693	16124	16019	15525	15324	14912	15548	15982	15653	15346	14820	14753	
14	14404	14857	13876	13216	12846	12443	12544	12667	12688	12652	12194	12939	
15	10801	11513	10391	9812	9426	8998	9107	9340	9170	8712	8547	9661	
16	7162	7310	5825	5376	5182	4927	4802	4790	4730	4649	4857	5743	
17	3045	3130	2764	2504	2497	2504	2608	2461	2174	1938	2069	2539	
18	795	870	617	219	134	407	514	370	139	138	93	493	
19	-8	-44	-686	-1500	-1806	-1354	-1264	-1237	-1076	-487	-368	-199	
20	-568	-723	-1580	-2187	-2266	-2156	-2126	-2122	-1929	-1225	-1110	-944	
21	-1337	-1589	-2285	-2678	-2957	-2524	-2427	-2389	-2184	-1469	-1346	-1290	
22	-2165	-2237	-2606	-3148	-3163	-3162	-3161	-3161	-2985	-2375	-2258	-2200	
23	-2375	-2385	-2774	-3250	-3357	-3207	-3176	-3164	-2987	-2389	-2324	-2386	
	54516	57711	50841	45724	44257	42517	44087	44646	45865	55885	52650	50694	589393

F4 Poliestireno Expandido (Durapanel) / Teja termoacústica (Estrutech)

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	34	37	57	79	93	88	80	83	96	98	83	53	
9	275	283	345	427	465	440	427	432	436	416	377	306	
10	686	736	826	968	1043	1013	997	1005	992	977	912	775	
11	1310	1340	1437	1572	1678	1626	1593	1673	1653	1624	1535	1371	
12	1856	1983	2064	2157	2262	2135	2181	2238	2245	2122	1961	1808	
13	2000	2154	2320	2430	2452	2356	2379	2405	2358	2190	2074	1953	
14	2192	2332	2361	2331	2347	2275	2281	2342	2319	2209	2117	2047	
15	2075	2204	2137	2033	2011	1954	1938	1947	1945	1872	1802	1887	
16	1609	1738	1655	1558	1527	1463	1458	1479	1462	1406	1363	1457	
17	1094	1125	981	894	878	841	819	807	791	792	824	949	
18	560	557	484	438	445	445	451	422	375	350	392	482	
19	158	165	142	125	130	145	145	116	75	54	47	115	
20	16	17	13	11	13	16	15	10	6	3	0	11	
21	0	0	0	0	0	0	0	0	0	0	0	0	
22	0	0	0	0	0	0	0	0	0	0	0	0	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	13865	14671	14822	15023	15344	14797	14764	14959	14753	14113	13487	13214	173812

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-1019	-1009	-1153	-1330	-1369	-1319	-1309	-1305	-1241	-1013	-992	-1024	
1	-1083	-1081	-1232	-1419	-1452	-1411	-1417	-1460	-1434	-1109	-1064	-1088	
2	-1244	-1204	-1378	-1473	-1476	-1476	-1490	-1537	-1508	-1169	-1123	-1176	
3	-1244	-1204	-1378	-1473	-1476	-1476	-1497	-1564	-1553	-1177	-1123	-1176	
4	-1372	-1355	-1446	-1543	-1607	-1518	-1561	-1691	-1600	-1188	-1184	-1338	
5	-1428	-1386	-1487	-1548	-1649	-1652	-1664	-1693	-1607	-1261	-1323	-1374	
6	-1454	-1436	-1481	-1506	-1533	-1494	-1528	-1632	-1595	-1190	-1213	-1423	
7	-1080	-1085	-1096	-1140	-1208	-1177	-1203	-1279	-1210	-828	-846	-962	
8	-620	-626	-603	-638	-663	-669	-683	-690	-615	-456	-512	-600	
9	-198	-201	-139	-57	-19	-43	-68	-100	-98	75	74	-78	
10	903	774	687	797	871	868	869	873	913	1125	1131	1072	
11	1691	1599	1613	1621	1722	1711	1805	1842	1764	1875	1863	1798	
12	2398	2331	2248	2219	2321	2247	2429	2444	2399	2479	2419	2411	
13	2626	2534	2420	2457	2477	2437	2532	2514	2470	2606	2583	2573	
14	2743	2732	2518	2381	2393	2354	2478	2494	2407	2435	2460	2613	
15	2575	2569	2212	2055	2032	2001	2035	2015	1998	2071	2078	2257	
16	1847	1901	1668	1558	1527	1473	1478	1486	1472	1500	1502	1668	
17	1281	1276	989	858	839	821	825	810	782	809	881	1077	
18	644	627	372	156	84	198	227	207	192	286	361	496	
19	72	54	-149	-317	-317	-294	-285	-314	-318	-194	-177	-72	
20	-213	-273	-477	-623	-720	-561	-522	-514	-467	-275	-245	-213	
21	-470	-493	-672	-892	-924	-883	-875	-872	-810	-595	-555	-519	
22	-563	-611	-801	-975	-1006	-963	-953	-949	-884	-659	-618	-592	
23	-858	-824	-997	-1121	-1219	-1069	-1038	-1026	-965	-763	-775	-869	
	3934	3609	238	-1953	-2372	-1895	-1415	-1941	-1508	3384	3602	3461	7144

Anexo O. Flujos energéticos anuales para combinación de materiales, casa 3

Ganancias internas													
HOUR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	
0	430	431	433	430	430	433	430	431	432	430	431	432	
1	430	431	433	430	430	433	430	431	432	430	431	432	
2	424	425	426	425	424	426	424	424	426	424	425	426	
3	419	419	419	419	419	419	419	419	419	419	419	419	
4	547	544	541	546	546	541	546	544	543	546	543	543	
5	907	904	901	905	906	901	906	904	903	906	903	903	
6	1027	1028	1029	1028	1027	1029	1027	1028	1028	1027	1029	1028	
7	981	993	1006	986	983	1009	983	996	997	983	999	997	
8	759	771	784	764	762	787	762	771	777	762	774	777	
9	689	698	707	693	691	709	691	698	703	691	700	703	
10	640	641	643	640	640	643	640	640	643	640	640	643	
11	743	744	746	743	743	746	743	743	746	743	743	746	
12	1040	1040	1040	1040	1040	1040	1040	1040	1040	1040	1040	1040	
13	1203	1206	1209	1204	1203	1210	1203	1205	1208	1203	1205	1208	
14	791	800	809	795	793	812	793	800	805	793	802	805	
15	636	645	654	640	638	657	638	645	650	638	647	650	
16	636	645	654	640	638	657	638	645	650	638	647	650	
17	636	645	654	640	638	657	638	645	650	638	647	650	
18	651	664	678	657	654	682	654	666	670	654	670	670	
19	1126	1133	1141	1129	1127	1144	1127	1134	1137	1127	1137	1137	
20	1411	1411	1411	1411	1411	1411	1411	1411	1411	1411	1411	1411	
21	1155	1155	1156	1155	1155	1156	1155	1154	1157	1155	1154	1157	
22	651	653	655	652	651	656	651	655	652	651	656	652	
23	570	573	576	571	571	577	571	573	574	571	574	574	
	18502	18599	18705	18543	18520	18735	18520	18602	18653	18520	18627	18653	223179

Perdidas y ganancias por ventilación													
HOUR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	
0	-606	-622	-707	-819	-821	-826	-821	-822	-784	-639	-617	-609	
1	-606	-622	-707	-819	-821	-826	-836	-884	-888	-658	-616	-609	
2	-755	-704	-811	-812	-811	-814	-827	-874	-878	-651	-628	-690	
3	-746	-695	-801	-805	-805	-805	-819	-865	-868	-646	-621	-679	
4	-906	-904	-918	-980	-1050	-947	-987	-1087	-984	-731	-754	-898	
5	-1194	-1196	-1220	-1300	-1447	-1456	-1451	-1442	-1312	-1068	-1193	-1197	
6	-1259	-1268	-1277	-1261	-1257	-1276	-1281	-1364	-1369	-1018	-1062	-1264	
7	-628	-645	-656	-639	-636	-659	-658	-739	-743	-397	-367	-467	
8	0	-10	-1	-42	-44	-46	-44	-36	0	0	0	0	
9	10	0	0	0	0	0	0	0	0	15	53	48	
10	356	190	16	0	0	26	48	56	96	235	295	395	
11	393	274	184	64	61	103	233	186	116	255	319	427	
12	565	393	264	92	87	147	336	267	165	364	456	610	
13	640	382	32	0	0	53	68	17	55	425	510	574	
14	336	263	22	0	0	0	22	12	0	42	133	327	
15	222	191	4	0	0	0	0	0	0	14	50	97	
16	10	10	0	0	0	0	0	0	0	0	0	0	
17	0	0	0	-35	-38	-20	0	0	-9	0	0	0	
18	0	-1	-118	-284	-360	-257	-223	-218	-186	-69	-49	-21	
19	-141	-180	-467	-673	-678	-692	-678	-683	-619	-390	-357	-297	
20	-492	-622	-944	-1069	-1204	-991	-943	-924	-837	-532	-481	-462	
21	-818	-842	-957	-1147	-1153	-1151	-1153	-1150	-1091	-877	-834	-819	
22	-599	-619	-706	-842	-845	-850	-845	-850	-799	-641	-615	-600	
23	-734	-660	-779	-849	-940	-806	-771	-762	-720	-588	-629	-758	
	-6952	-7887	-10547	-12220	-12762	-12093	-11630	-12162	-11655	-7555	-7007	-6892	-119362

Ganancias solares directas

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	431	483	728	957	1043	958	859	949	1156	1099	935	608	
7	2431	2584	3271	3913	4323	4082	4055	4366	4357	3927	3507	2750	
8	6948	6734	6656	6883	7224	6873	6862	7413	7591	7697	7775	7042	
9	9755	9611	8649	7989	8123	7588	8439	8602	9013	9117	9584	9644	
10	9539	9420	8242	7046	6809	6860	7274	7525	7773	7645	7957	8366	
11	6082	6135	5444	4065	3929	4045	4229	4317	4183	4476	4925	5523	
12	3973	3383	2076	1255	1196	1175	1155	1179	1701	2841	3598	4010	
13	4018	3518	2389	1610	1554	1462	1437	1504	1918	2780	3433	3937	
14	3510	3120	2277	1615	1484	1376	1405	1529	1769	2445	2882	3278	
15	2689	2298	1561	1167	1081	998	987	1022	1109	1457	1976	2506	
16	1352	1167	838	661	635	618	625	611	589	686	890	1208	
17	312	322	245	192	183	203	199	164	107	65	0	202	
18	0	0	0	0	0	0	0	0	0	0	0	0	
19	0	0	0	0	0	0	0	0	0	0	0	0	
20	0	0	0	0	0	0	0	0	0	0	0	0	
21	0	0	0	0	0	0	0	0	0	0	0	0	
22	0	0	0	0	0	0	0	0	0	0	0	0	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	51040	48775	42376	37353	37584	36238	37526	39181	41266	44235	47462	49074	512110

0 Estado actual

Ganancias solares indirectas (sol-aire)

HOUR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	
0	12	13	13	16	24	28	27	20	13	12	12	12	
1	11	12	12	15	24	27	27	19	11	11	10	10	
2	9	10	10	12	22	26	24	16	10	9	9	9	
3	8	8	8	11	19	24	21	14	8	8	7	7	
4	8	8	8	10	17	20	18	13	8	7	7	7	
5	6	6	6	9	13	15	14	11	6	6	5	6	
6	4	4	5	6	9	10	9	7	4	4	4	4	
7	3	3	3	4	5	5	5	4	2	2	2	2	
8	4	4	7	15	24	26	23	18	13	9	8	5	
9	39	40	53	88	126	135	124	104	80	75	66	50	
10	162	162	184	249	315	320	304	268	221	218	205	176	
11	399	426	495	622	735	745	719	667	633	642	596	484	
12	1111	1131	1277	1483	1626	1576	1534	1564	1543	1517	1413	1202	
13	2144	2269	2423	2646	2802	2678	2672	2740	2780	2734	2567	2265	
14	3232	3347	3554	3742	3838	3675	3653	3850	3895	3793	3626	3314	
15	4195	4459	4553	4592	4641	4350	4438	4670	4793	4551	4260	4003	
16	4222	4558	4792	4821	4698	4448	4500	4673	4704	4399	4182	4039	
17	4276	4564	4532	4347	4198	3968	4021	4258	4321	4128	3983	3952	
18	3690	3902	3688	3412	3240	3078	3091	3198	3269	3148	3081	3303	
19	2586	2768	2598	2379	2253	2144	2157	2234	2255	2147	2107	2306	
20	1556	1615	1405	1249	1168	1104	1091	1113	1113	1085	1111	1324	
21	727	727	633	560	541	530	549	533	493	455	506	620	
22	203	215	188	161	157	170	171	146	104	76	65	150	
23	30	33	30	29	31	34	33	28	22	17	11	23	
	28637	30284	30477	30478	30526	29136	29225	30168	30301	29053	27843	27273	353401

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-832	-890	-1132	-1328	-1382	-1294	-1275	-1274	-1203	-910	-862	-845	
1	-1044	-1068	-1247	-1455	-1485	-1432	-1433	-1475	-1445	-1099	-1042	-1044	
2	-1224	-1198	-1379	-1527	-1527	-1516	-1525	-1572	-1541	-1187	-1133	-1167	
3	-1351	-1269	-1478	-1591	-1645	-1553	-1547	-1590	-1561	-1207	-1188	-1308	
4	-1469	-1472	-1607	-1779	-1848	-1741	-1766	-1862	-1750	-1344	-1337	-1464	
5	-1522	-1523	-1656	-1821	-1905	-1906	-1910	-1922	-1812	-1459	-1496	-1503	
6	-1530	-1533	-1647	-1768	-1773	-1766	-1796	-1890	-1880	-1416	-1391	-1514	
7	-1343	-1306	-1416	-1462	-1488	-1461	-1494	-1600	-1577	-1097	-1058	-1193	
8	-1017	-974	-1077	-1123	-1140	-1138	-1156	-1202	-1162	-883	-878	-949	
9	-990	-986	-1015	-1032	-1045	-965	-1007	-1121	-1073	-764	-756	-922	
10	-458	-606	-759	-775	-801	-755	-763	-819	-742	-379	-399	-387	
11	-129	-200	-215	-206	-121	-74	-4	-129	-197	147	122	-7	
12	907	814	867	972	1112	1098	1150	1095	1015	1352	1328	1128	
13	2385	2342	2303	2466	2617	2530	2540	2575	2665	2888	2782	2515	
14	3505	3528	3559	3687	3774	3626	3657	3836	3865	3852	3782	3614	
15	4713	4778	4547	4540	4588	4329	4463	4686	4827	4772	4581	4457	
16	4650	4826	4893	4823	4697	4490	4646	4776	4768	4657	4518	4488	
17	4700	4859	4688	4353	4197	4023	4220	4409	4397	4356	4290	4394	
18	4050	4129	3622	3164	2925	2889	2954	3038	3135	3295	3303	3602	
19	2772	2853	2347	1994	1864	1764	1794	1858	1912	2004	2049	2396	
20	1582	1543	1018	778	636	672	694	718	749	883	974	1263	
21	410	383	147	-67	-108	-92	-61	-77	-80	27	112	258	
22	-201	-217	-358	-532	-547	-511	-492	-519	-527	-394	-378	-279	
23	-548	-512	-725	-935	-1069	-858	-813	-802	-747	-531	-534	-579	
	16016	16301	12280	9376	8526	8359	9076	9137	10036	15563	15389	14954	145013

A1 Tapia pisada / Teja de barro, tierra y caña brava pañetada

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	37	36	34	36	44	45	47	41	35	36	38	37	
1	39	39	35	35	43	47	47	40	34	34	35	36	
2	31	31	28	27	36	40	38	31	25	26	27	29	
3	24	22	18	19	26	31	28	22	18	22	24	25	
4	28	26	22	22	29	30	29	24	21	24	25	27	
5	26	25	22	22	25	26	25	23	20	22	23	24	
6	21	19	16	16	17	18	17	15	13	14	16	19	
7	11	11	9	9	10	10	10	9	7	7	8	10	
8	6	7	9	17	26	28	24	20	13	10	8	7	
9	24	24	28	55	89	99	91	70	38	31	28	26	
10	41	41	46	89	148	165	153	113	56	49	46	42	
11	114	119	156	236	336	360	338	277	232	235	206	149	
12	563	574	675	840	961	939	921	883	844	822	755	622	
13	1358	1427	1547	1751	1891	1854	1822	1826	1831	1843	1757	1518	
14	2443	2482	2615	2771	2908	2811	2761	2936	2974	2948	2813	2542	
15	3317	3552	3675	3757	3851	3590	3672	3861	3969	3740	3435	3182	
16	3397	3714	4050	4187	4098	3873	3929	4080	4082	3764	3550	3325	
17	3779	4037	4069	3960	3844	3637	3690	3918	3972	3758	3604	3504	
18	3426	3674	3570	3343	3171	3016	3033	3152	3207	3029	2896	3061	
19	2473	2702	2585	2395	2255	2134	2141	2236	2258	2130	2042	2204	
20	1546	1611	1395	1256	1177	1103	1081	1105	1115	1079	1114	1315	
21	679	696	624	562	548	541	565	543	489	427	459	567	
22	137	160	147	129	127	145	146	117	68	30	4	83	
23	11	11	13	18	22	23	22	20	18	16	15	12	
	23531	25040	25388	25552	25682	24565	24630	25362	25339	24096	22928	22366	294479

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-719	-779	-991	-1142	-1203	-1104	-1080	-1077	-1014	-758	-714	-706	
1	-875	-909	-1051	-1248	-1246	-1241	-1252	-1297	-1274	-964	-900	-877	
2	-1014	-988	-1144	-1256	-1250	-1244	-1250	-1299	-1283	-972	-923	-956	
3	-1160	-1069	-1256	-1327	-1389	-1282	-1269	-1313	-1298	-986	-978	-1112	
4	-1237	-1255	-1363	-1511	-1560	-1482	-1511	-1599	-1488	-1136	-1128	-1231	
5	-1244	-1257	-1364	-1515	-1600	-1602	-1602	-1602	-1496	-1210	-1253	-1241	
6	-1256	-1271	-1360	-1466	-1471	-1464	-1493	-1582	-1582	-1176	-1153	-1260	
7	-1080	-1038	-1137	-1145	-1152	-1152	-1177	-1258	-1258	-856	-816	-924	
8	-727	-687	-774	-802	-796	-792	-809	-852	-834	-621	-602	-666	
9	-725	-733	-748	-778	-804	-709	-745	-851	-799	-566	-556	-681	
10	-377	-524	-695	-727	-758	-720	-713	-738	-678	-408	-431	-350	
11	-305	-401	-445	-465	-372	-308	-234	-374	-479	-157	-149	-236	
12	508	405	416	477	595	609	688	570	475	783	797	699	
13	1638	1577	1544	1688	1825	1814	1798	1783	1828	2020	1978	1772	
14	2655	2633	2606	2736	2868	2780	2755	2921	2948	2977	2934	2780	
15	3818	3859	3652	3709	3803	3568	3670	3864	4012	3947	3730	3608	
16	3721	3930	4165	4194	4101	3912	4082	4191	4134	3944	3791	3667	
17	4092	4245	4183	3936	3814	3658	3841	4025	4010	3936	3841	3835	
18	3671	3804	3441	3055	2818	2783	2826	2926	3026	3126	3051	3262	
19	2573	2733	2305	1984	1841	1721	1743	1829	1876	1909	1903	2217	
20	1499	1481	969	762	621	644	641	668	719	838	924	1167	
21	270	274	127	-32	-55	-62	-38	-59	-78	-25	23	141	
22	-292	-284	-359	-498	-510	-468	-448	-479	-505	-417	-424	-345	
23	-542	-492	-671	-874	-1001	-805	-767	-755	-700	-494	-499	-566	
	12892	13254	10050	7755	7119	7054	7656	7642	8262	12734	12446	11997	118861

A2 Tapia pisada / Teja de barro, mortero y machimbre

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	37	36	34	36	44	45	47	41	35	36	38	37	
1	39	39	35	35	43	47	47	40	34	34	35	36	
2	31	31	28	27	36	40	38	31	25	26	27	29	
3	24	22	18	19	26	31	28	22	18	22	24	25	
4	28	26	22	22	29	30	29	24	21	24	25	27	
5	26	25	22	22	25	26	25	23	20	22	23	24	
6	21	19	16	16	17	18	17	15	13	14	16	19	
7	11	11	9	9	10	10	10	9	7	7	8	10	
8	6	7	9	17	26	28	24	20	13	10	8	7	
9	157	166	239	335	416	408	373	364	386	399	345	230	
10	1096	1113	1325	1624	1753	1649	1615	1654	1677	1631	1499	1224	
11	2772	2916	3170	3583	3758	3632	3596	3693	3772	3797	3624	3115	
12	5092	5176	5455	5769	5988	5707	5655	6094	6222	6169	5887	5307	
13	6957	7453	7722	7882	8025	7463	7643	8090	8353	7872	7226	6682	
14	7161	7829	8548	8829	8614	8153	8257	8588	8619	7948	7498	7016	
15	8009	8557	8619	8384	8156	7716	7838	8308	8420	7970	7640	7427	
16	7277	7804	7585	7108	6762	6438	6474	6717	6823	6448	6162	6505	
17	5282	5765	5519	5124	4844	4587	4596	4791	4831	4560	4376	4713	
18	3312	3450	2991	2701	2548	2396	2347	2385	2392	2311	2386	2816	
19	1449	1486	1333	1203	1177	1166	1216	1163	1042	908	974	1208	
20	286	336	307	264	258	296	300	238	134	54	0	171	
21	0	0	0	0	0	0	0	0	0	0	0	0	
22	2	2	3	4	6	5	5	5	5	5	4	3	
23	11	11	13	18	22	23	22	20	18	16	15	12	
	49086	52280	53022	53031	52583	49914	50202	52335	52880	50283	47840	46643	610099

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-1204	-1231	-1404	-1667	-1673	-1663	-1659	-1665	-1587	-1276	-1218	-1203	
1	-1436	-1356	-1592	-1793	-1914	-1728	-1699	-1730	-1686	-1310	-1308	-1458	
2	-1601	-1589	-1825	-2029	-2026	-2019	-2025	-2074	-2020	-1583	-1517	-1544	
3	-1607	-1597	-1835	-2037	-2035	-2028	-2037	-2089	-2035	-1589	-1520	-1548	
4	-1670	-1698	-1865	-2095	-2146	-2068	-2120	-2283	-2211	-1624	-1567	-1664	
5	-1923	-1840	-2047	-2104	-2186	-2188	-2211	-2286	-2220	-1698	-1720	-1812	
6	-1935	-1855	-2043	-2054	-2057	-2050	-2089	-2212	-2213	-1646	-1621	-1831	
7	-1719	-1724	-1750	-1840	-1946	-1804	-1868	-2055	-1904	-1332	-1352	-1616	
8	-1366	-1373	-1387	-1502	-1658	-1659	-1663	-1652	-1492	-1213	-1350	-1365	
9	-1178	-1177	-1110	-1024	-948	-950	-1007	-1094	-1075	-671	-729	-1060	
10	723	585	636	909	1038	957	919	892	949	1395	1358	1063	
11	3077	3107	3292	3548	3712	3626	3699	3769	3842	3990	3873	3450	
12	5427	5386	5576	5786	6002	5756	5813	6214	6289	6389	6221	5729	
13	7827	7924	7746	7851	7994	7502	7733	8169	8509	8439	7935	7586	
14	7967	8397	8821	8892	8668	8281	8613	8861	8770	8356	8064	7865	
15	8786	9109	8864	8435	8201	7827	8153	8548	8553	8351	8154	8143	
16	7792	8101	7571	7059	6714	6433	6483	6683	6821	6765	6555	6957	
17	5662	6049	5504	5046	4763	4522	4573	4753	4771	4573	4501	5068	
18	3620	3704	2853	2414	2195	2138	2108	2151	2185	2236	2386	2908	
19	1345	1364	1038	792	762	753	803	748	660	659	747	1009	
20	44	43	-122	-287	-361	-196	-141	-199	-275	-199	-233	-61	
21	-418	-432	-677	-1045	-1178	-997	-960	-946	-858	-563	-513	-458	
22	-570	-624	-969	-1271	-1283	-1276	-1275	-1278	-1183	-838	-782	-723	
23	-908	-954	-1273	-1419	-1578	-1323	-1270	-1252	-1161	-828	-814	-891	
	34735	36319	32002	28565	27060	25846	26873	27973	29429	34783	33550	32544	369679

A3 Tapia pisada / Teja de asbesto

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	37	36	34	36	44	45	47	41	35	36	38	37	
1	39	39	35	35	43	47	47	40	34	34	35	36	
2	31	31	28	27	36	40	38	31	25	26	27	29	
3	24	22	18	19	26	31	28	22	18	22	24	25	
4	28	26	22	22	29	30	29	24	21	24	25	27	
5	26	25	22	22	25	26	25	23	20	22	23	24	
6	21	19	16	16	17	18	17	15	13	14	16	19	
7	249	265	386	509	593	560	513	534	628	664	572	374	
8	1889	1920	2293	2757	2890	2678	2634	2771	2907	2834	2602	2117	
9	4880	5135	5585	6265	6473	6198	6144	6413	6649	6699	6394	5492	
10	9011	9156	9653	10177	10471	9923	9832	10709	11018	10923	10428	9398	
11	12331	13216	13696	13971	14138	13100	13446	14308	14824	13962	12816	11843	
12	12713	13905	15187	15681	15250	14370	14601	15236	15318	14123	13322	12457	
13	14236	15210	15329	14902	14461	13676	13896	14762	14980	14179	13592	13205	
14	12958	13894	13508	12651	12025	11469	11515	11948	12149	11484	10975	11586	
15	9427	10290	9845	9142	8667	8213	8233	8561	8623	8142	7811	8410	
16	5923	6169	5351	4842	4593	4328	4238	4292	4289	4148	4276	5039	
17	2619	2684	2411	2189	2160	2144	2225	2122	1895	1658	1777	2190	
18	539	629	576	505	509	580	585	463	264	117	20	329	
19	7	8	8	10	14	18	16	10	4	1	0	4	
20	0	0	0	0	0	0	0	0	0	0	0	0	
21	0	0	0	0	0	0	0	0	0	0	0	0	
22	2	2	3	4	6	5	5	5	5	5	4	3	
23	11	11	13	18	22	23	22	20	18	16	15	12	
	87001	92692	94019	93800	92492	87522	88136	92350	93737	89133	84792	82656	1078330

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-2987	-3056	-3471	-4038	-4052	-4041	-4038	-4043	-3848	-3141	-3023	-2986	
1	-2965	-3049	-3475	-4049	-4057	-4052	-4063	-4108	-3947	-3158	-3019	-2967	
2	-3104	-3128	-3568	-4056	-4061	-4055	-4120	-4359	-4380	-3249	-3041	-3046	
3	-3740	-3494	-4041	-4077	-4070	-4063	-4131	-4373	-4395	-3254	-3116	-3403	
4	-3802	-3595	-4071	-4135	-4181	-4104	-4192	-4470	-4405	-3258	-3163	-3519	
5	-4055	-4055	-4148	-4415	-4753	-4393	-4524	-4900	-4450	-3347	-3503	-4034	
6	-4067	-4070	-4144	-4382	-4799	-4803	-4818	-4836	-4473	-3591	-3946	-4071	
7	-3517	-3505	-3386	-3267	-3190	-3223	-3342	-3550	-3463	-2318	-2487	-3276	
8	92	98	478	910	1041	829	727	676	827	1692	1565	794	
9	4855	5069	5544	6067	6260	5992	5938	6235	6601	6686	6415	5505	
10	9355	9315	9650	10149	10442	9917	9845	10731	11079	11174	10875	9915	
11	14143	14219	13886	13994	14154	13268	13814	14674	15298	15152	14313	13840	
12	14569	15181	16027	15950	15503	14824	15682	16091	15836	15318	14825	14469	
13	16051	16435	16046	15123	14669	14074	14830	15482	15429	15354	15060	15121	
14	14499	14838	13565	12615	11985	11550	11654	11969	12237	12401	12130	12984	
15	10623	11207	9875	9093	8618	8166	8254	8549	8579	8261	8239	9456	
16	6816	6912	5326	4793	4544	4279	4191	4244	4242	4171	4449	5406	
17	2642	2701	2370	2111	2078	2078	2175	2070	1836	1620	1745	2161	
18	494	587	432	74	-4	241	347	229	23	19	-58	271	
19	-114	-133	-746	-1553	-1871	-1402	-1308	-1281	-1122	-532	-423	-277	
20	-608	-757	-1616	-2231	-2309	-2211	-2193	-2190	-1983	-1264	-1147	-993	
21	-1352	-1611	-2288	-2623	-2887	-2483	-2391	-2355	-2154	-1461	-1349	-1302	
22	-2180	-2246	-2557	-3050	-3066	-3059	-3059	-3061	-2897	-2321	-2214	-2177	
23	-2295	-2295	-2625	-3084	-3152	-3056	-3039	-3035	-2875	-2311	-2246	-2300	
	59353	61568	53063	45919	42842	40273	42239	44389	47595	58643	56881	55571	608336

A4 Tapia pisada / Teja termoacústica (Estrutech)

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	37	36	34	36	44	45	47	41	35	36	38	37	
1	39	39	35	35	43	47	47	40	34	34	35	36	
2	31	31	28	27	36	40	38	31	25	26	27	29	
3	24	22	18	19	26	31	28	22	18	22	24	25	
4	28	26	22	22	29	30	29	24	21	24	25	27	
5	26	25	22	22	25	26	25	23	20	22	23	24	
6	21	19	16	16	17	18	17	15	13	14	16	19	
7	11	11	9	9	10	10	10	9	7	7	8	10	
8	41	44	64	90	111	108	98	96	104	106	90	60	
9	298	303	362	455	507	486	472	471	460	443	407	334	
10	750	788	857	995	1080	1055	1037	1039	1021	1022	975	840	
11	1361	1383	1459	1577	1689	1640	1618	1686	1668	1649	1573	1419	
12	1859	1991	2064	2142	2242	2121	2165	2226	2235	2106	1933	1787	
13	1923	2098	2287	2385	2403	2308	2323	2353	2311	2134	2013	1885	
14	2143	2287	2307	2269	2266	2197	2203	2274	2257	2137	2047	1991	
15	1957	2096	2037	1930	1898	1831	1830	1847	1838	1738	1660	1752	
16	1426	1554	1489	1402	1370	1317	1315	1334	1310	1237	1185	1273	
17	900	936	818	754	736	704	682	676	660	637	655	769	
18	404	414	373	345	350	352	363	338	295	257	274	338	
19	81	96	88	79	81	95	94	72	39	15	0	49	
20	0	0	0	0	0	0	0	0	0	0	0	0	
21	0	0	0	0	0	0	0	0	0	0	0	0	
22	2	2	3	4	6	5	5	5	5	5	4	3	
23	11	11	13	18	22	23	22	20	18	16	15	12	
	13373	14212	14405	14631	14991	14489	14468	14642	14394	13687	13027	12719	169038

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-775	-756	-874	-999	-1034	-975	-960	-962	-918	-744	-733	-779	
1	-760	-790	-917	-1073	-1069	-1064	-1075	-1121	-1106	-834	-781	-761	
2	-898	-869	-1010	-1080	-1073	-1067	-1073	-1122	-1115	-842	-803	-841	
3	-905	-877	-1020	-1088	-1083	-1076	-1091	-1163	-1175	-857	-806	-845	
4	-1034	-1017	-1099	-1148	-1194	-1116	-1151	-1260	-1185	-860	-861	-999	
5	-1041	-1018	-1099	-1152	-1234	-1235	-1242	-1263	-1193	-934	-986	-1009	
6	-1079	-1082	-1104	-1132	-1162	-1116	-1146	-1234	-1191	-883	-910	-1082	
7	-767	-771	-781	-810	-861	-862	-875	-912	-870	-595	-615	-671	
8	-379	-383	-356	-363	-344	-346	-363	-381	-349	-233	-260	-358	
9	89	83	135	219	266	252	232	207	197	314	322	212	
10	1056	942	853	951	1034	1032	1033	1047	1082	1214	1220	1173	
11	1670	1587	1582	1600	1705	1696	1783	1812	1738	1848	1844	1773	
12	2341	2286	2191	2158	2256	2183	2346	2372	2345	2410	2322	2314	
13	2367	2370	2362	2381	2397	2345	2432	2417	2357	2418	2366	2317	
14	2512	2551	2374	2260	2252	2210	2296	2337	2279	2261	2257	2366	
15	2276	2316	2007	1881	1850	1796	1799	1802	1806	1825	1801	1947	
16	1527	1624	1456	1353	1321	1268	1274	1290	1264	1215	1199	1360	
17	977	995	778	675	654	638	633	623	600	605	644	781	
18	364	377	230	58	-3	95	124	105	88	159	196	279	
19	-39	-42	-206	-348	-350	-327	-318	-343	-347	-233	-227	-150	
20	-242	-294	-478	-617	-714	-567	-538	-531	-475	-284	-254	-240	
21	-457	-480	-624	-780	-790	-790	-790	-790	-737	-559	-534	-507	
22	-527	-568	-696	-808	-841	-790	-781	-779	-731	-550	-522	-519	
23	-730	-684	-791	-888	-947	-851	-833	-830	-789	-634	-648	-735	
	5546	5500	2913	1250	1036	1333	1716	1321	1575	5227	5231	5026	37674

B1 Ladrillo macizo (temoza) / Teja de barro, tierra y caña brava pañetada

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	3	3	6	14	23	24	21	17	12	9	8	5	
9	24	24	28	55	89	99	91	70	38	31	28	26	
10	41	41	46	89	148	165	153	113	56	49	46	42	
11	202	216	303	459	615	634	580	513	476	464	403	277	
12	1102	1130	1352	1736	2086	2076	2011	1910	1726	1626	1489	1226	
13	2712	2736	2850	3272	3770	3760	3669	3543	3310	3345	3269	2899	
14	4316	4313	4307	4565	5109	5102	5133	4991	4761	4767	4710	4425	
15	5297	5502	5436	5520	6033	5947	6042	5885	5692	5476	5199	4984	
16	4942	5258	5470	5537	5897	5884	5865	5661	5341	5089	4930	4787	
17	5014	5163	4994	4907	5180	5218	5116	5005	4866	4873	4825	4770	
18	4835	5009	4689	4452	4635	4541	4484	4340	4250	4217	4174	4435	
19	3767	3961	3694	3483	3526	3436	3418	3378	3247	3223	3176	3415	
20	2590	2586	2205	2041	2055	1995	1916	1851	1766	1781	1939	2282	
21	1254	1241	1087	1011	1048	1059	1074	983	846	775	857	1075	
22	273	314	284	257	270	317	308	234	130	58	0	168	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	36372	37497	36751	37398	40484	40257	39881	38494	36517	35783	35053	34816	449303

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-1063	-1198	-1610	-1841	-2002	-1770	-1717	-1695	-1579	-1130	-1057	-1035	
1	-1514	-1552	-1758	-2092	-2102	-2102	-2115	-2154	-2088	-1634	-1544	-1514	
2	-1644	-1626	-1854	-2095	-2102	-2102	-2115	-2154	-2088	-1634	-1559	-1587	
3	-1999	-1811	-2111	-2254	-2431	-2178	-2137	-2159	-2096	-1658	-1689	-1969	
4	-2098	-2127	-2330	-2631	-2691	-2616	-2644	-2725	-2557	-2030	-1994	-2089	
5	-2098	-2127	-2330	-2634	-2727	-2729	-2730	-2727	-2563	-2091	-2106	-2093	
6	-2102	-2135	-2320	-2579	-2591	-2584	-2631	-2781	-2782	-2075	-1998	-2098	
7	-2113	-2001	-2242	-2256	-2264	-2264	-2309	-2451	-2453	-1747	-1673	-1864	
8	-1750	-1642	-1873	-1904	-1898	-1897	-1933	-2038	-2023	-1506	-1451	-1597	
9	-1827	-1835	-1863	-1954	-2060	-1852	-1933	-2162	-1988	-1451	-1473	-1776	
10	-1473	-1620	-1799	-1900	-2067	-2033	-2025	-2041	-1865	-1380	-1516	-1440	
11	-1306	-1389	-1374	-1315	-1162	-1108	-1088	-1296	-1398	-802	-859	-1192	
12	500	409	546	832	1178	1205	1217	974	728	1254	1233	913	
13	3017	2901	2876	3196	3687	3703	3629	3494	3342	3550	3515	3179	
14	4576	4495	4334	4570	5113	5110	5164	5012	4769	4845	4926	4759	
15	6330	6110	5477	5520	6033	6010	6155	6016	5914	6049	5942	5993	
16	5808	5863	5863	5674	6027	6104	6370	6063	5587	5636	5619	5713	
17	5869	5759	5387	5015	5277	5421	5619	5406	5105	5419	5510	5684	
18	5566	5443	4630	4213	4330	4393	4374	4178	4158	4649	4722	5073	
19	4249	4292	3484	3121	3160	3071	3091	3035	2917	3084	3207	3792	
20	2889	2754	1834	1600	1555	1587	1529	1472	1423	1599	1856	2309	
21	907	881	640	470	505	515	530	439	333	368	469	698	
22	-107	-81	-175	-368	-371	-274	-236	-310	-402	-350	-387	-212	
23	-528	-478	-810	-1246	-1482	-1133	-1062	-1035	-933	-588	-564	-586	
	18089	17285	10622	7142	8915	10477	11003	8361	7461	16377	17129	17061	149922

B2 Ladrillo macizo (temoza) / Teja de barro, mortero y machimbre

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	3	3	6	14	23	24	21	17	12	9	8	5	
9	157	166	239	335	416	408	373	364	386	399	345	230	
10	1096	1113	1325	1624	1753	1649	1615	1654	1677	1631	1499	1224	
11	2860	3013	3317	3806	4037	3906	3838	3929	4016	4027	3821	3243	
12	5630	5732	6132	6665	7113	6844	6744	7121	7104	6972	6621	5912	
13	8311	8762	9025	9403	9904	9369	9490	9807	9832	9374	8737	8063	
14	9035	9659	10240	10623	10814	10444	10630	10643	10405	9768	9395	8899	
15	9990	10507	10381	10147	10337	10072	10208	10332	10143	9706	9405	9228	
16	8823	9349	9005	8457	8561	8449	8410	8298	8081	7773	7541	7968	
17	6517	6892	6445	6072	6180	6169	6021	5878	5726	5675	5597	5978	
18	4721	4785	4109	3810	4012	3921	3798	3573	3434	3499	3664	4190	
19	2743	2745	2441	2292	2448	2468	2492	2305	2030	2001	2108	2419	
20	1330	1311	1117	1049	1136	1187	1134	984	785	757	825	1138	
21	575	545	463	449	501	518	509	440	357	349	398	508	
22	139	156	139	133	148	178	167	122	66	32	0	87	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	61930	64738	64384	64879	67383	65606	65450	65467	64054	61972	59964	59092	764919

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-1548	-1651	-2023	-2366	-2472	-2329	-2296	-2283	-2152	-1648	-1560	-1532	
1	-2075	-1999	-2300	-2637	-2771	-2589	-2562	-2587	-2500	-1980	-1951	-2095	
2	-2232	-2227	-2535	-2868	-2878	-2878	-2890	-2930	-2825	-2245	-2152	-2174	
3	-2446	-2339	-2690	-2965	-3076	-2924	-2904	-2934	-2833	-2260	-2231	-2405	
4	-2530	-2570	-2832	-3214	-3277	-3202	-3253	-3409	-3281	-2518	-2433	-2522	
5	-2777	-2710	-3013	-3223	-3313	-3315	-3339	-3411	-3287	-2579	-2574	-2664	
6	-2782	-2718	-3003	-3167	-3177	-3170	-3227	-3411	-3414	-2545	-2465	-2669	
7	-2752	-2686	-2855	-2950	-3058	-2917	-3000	-3248	-3099	-2224	-2209	-2556	
8	-2390	-2327	-2486	-2605	-2761	-2763	-2787	-2839	-2680	-2098	-2199	-2296	
9	-2280	-2278	-2225	-2200	-2204	-2093	-2195	-2406	-2264	-1556	-1646	-2154	
10	-374	-510	-469	-264	-271	-355	-393	-411	-237	423	273	-28	
11	2076	2118	2363	2698	2923	2825	2846	2847	2922	3345	3163	2495	
12	5419	5390	5705	6140	6585	6353	6343	6618	6542	6861	6657	5943	
13	9206	9248	9078	9359	9856	9391	9564	9880	10023	9969	9472	8993	
14	9888	10259	10549	10726	10913	10610	11022	10952	10590	10223	10056	9844	
15	11298	11360	10689	10246	10431	10269	10638	10699	10455	10453	10366	10529	
16	9880	10034	9269	8540	8640	8626	8772	8555	8275	8456	8382	9003	
17	7439	7563	6708	6125	6225	6285	6351	6134	5867	6055	6170	6916	
18	5515	5343	4042	3572	3708	3749	3656	3403	3318	3760	4057	4719	
19	3020	2923	2218	1929	2082	2104	2151	1954	1701	1834	2052	2584	
20	1433	1316	743	552	574	747	747	605	429	562	699	1082	
21	219	175	-164	-543	-619	-420	-392	-447	-447	-171	-66	99	
22	-385	-421	-784	-1141	-1144	-1082	-1063	-1109	-1080	-771	-745	-590	
23	-893	-940	-1412	-1791	-2059	-1652	-1565	-1532	-1394	-922	-879	-912	
	39929	40353	32573	27953	28857	29270	30224	28690	28629	38424	38237	37610	400749

B3 Ladrillo macizo (temoza) / Teja de asbesto

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	237	254	377	500	584	550	503	525	621	657	564	364	
8	1886	1917	2290	2754	2887	2674	2631	2768	2905	2834	2602	2115	
9	4880	5135	5585	6265	6473	6198	6144	6413	6649	6699	6394	5492	
10	9011	9156	9653	10177	10471	9923	9832	10709	11018	10923	10428	9398	
11	12419	13312	13843	14194	14417	13374	13688	14544	15069	14192	13013	11971	
12	13251	14461	15865	16577	16375	15508	15690	16263	16200	14927	14056	13061	
13	15589	16519	16633	16423	16340	15582	15744	16480	16459	15682	15103	14586	
14	14831	15725	15200	14444	14225	13760	13888	14003	13935	13304	12872	13469	
15	11407	12240	11607	10904	10848	10569	10603	10585	10346	9878	9575	10212	
16	7468	7714	6771	6191	6391	6339	6174	5874	5547	5473	5656	6502	
17	3854	3810	3337	3136	3495	3725	3650	3209	2790	2773	2998	3455	
18	1948	1964	1694	1614	1973	2106	2036	1651	1307	1305	1298	1703	
19	1301	1267	1117	1098	1285	1320	1293	1152	992	1095	1134	1215	
20	1044	975	810	786	878	891	835	745	651	702	825	967	
21	575	545	463	449	501	518	509	440	357	349	398	508	
22	139	156	139	133	148	178	167	122	66	32	0	87	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	99840	105150	105384	105645	107291	103215	103387	105483	104912	100825	96916	95105	1233153

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-3331	-3476	-4090	-4737	-4851	-4708	-4675	-4661	-4412	-3513	-3365	-3315	
1	-3604	-3692	-4182	-4893	-4914	-4914	-4926	-4965	-4760	-3828	-3662	-3604	
2	-3734	-3766	-4278	-4896	-4914	-4914	-4985	-5214	-5185	-3911	-3677	-3677	
3	-4578	-4236	-4896	-5005	-5112	-4959	-4999	-5219	-5193	-3926	-3827	-4261	
4	-4663	-4467	-5038	-5255	-5312	-5237	-5325	-5596	-5474	-4151	-4030	-4377	
5	-4909	-4925	-5115	-5534	-5880	-5521	-5652	-6025	-5518	-4228	-4357	-4885	
6	-4914	-4933	-5104	-5495	-5919	-5922	-5956	-6034	-5674	-4490	-4791	-4909	
7	-4550	-4467	-4491	-4378	-4302	-4335	-4473	-4743	-4657	-3209	-3344	-4215	
8	-932	-856	-621	-192	-62	-275	-398	-510	-361	807	716	-137	
9	3754	3967	4429	4891	5005	4849	4751	4923	5412	5801	5498	4411	
10	8258	8219	8545	8976	9133	8605	8533	9429	9892	10202	9790	8824	
11	13142	13231	12957	13144	13364	12467	12960	13751	14378	14507	13603	12885	
12	14561	15186	16157	16304	16087	15420	16211	16495	16089	15789	15261	14683	
13	17430	17759	17379	16631	16531	15964	16660	17193	16942	16884	16597	16527	
14	16420	16700	15294	14449	14230	13879	14063	14060	14057	14268	14123	14963	
15	13135	13457	11700	10904	10848	10608	10739	10701	10481	10364	10452	11841	
16	8903	8845	7024	6274	6470	6472	6479	6116	5696	5863	6276	7452	
17	4418	4215	3574	3190	3541	3841	3954	3451	2931	3102	3413	4010	
18	2389	2225	1621	1232	1509	1852	1895	1481	1156	1542	1613	2081	
19	1561	1426	433	-417	-551	-51	40	-75	-81	643	881	1297	
20	781	516	-751	-1392	-1375	-1269	-1305	-1386	-1280	-502	-215	149	
21	-715	-1004	-1775	-2121	-2327	-1906	-1823	-1856	-1744	-1069	-903	-745	
22	-1994	-2043	-2372	-2919	-2927	-2865	-2846	-2892	-2795	-2254	-2177	-2044	
23	-2280	-2282	-2764	-3456	-3633	-3385	-3334	-3315	-3109	-2405	-2311	-2321	
	64548	65599	53636	45305	44639	43696	45588	45109	46791	62286	61564	60633	639394

B4 Ladrillo macizo (temoza) / Teja termoacústica (Estrutech)

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	38	41	61	87	108	105	94	94	103	105	90	58	
9	298	303	362	455	507	486	472	471	460	443	407	334	
10	750	788	857	995	1080	1055	1037	1039	1021	1022	975	840	
11	1448	1479	1606	1800	1968	1914	1860	1922	1913	1878	1770	1547	
12	2398	2547	2741	3038	3367	3258	3255	3253	3117	2910	2667	2391	
13	3277	3407	3591	3906	4282	4214	4170	4071	3790	3637	3524	3266	
14	4017	4117	3998	4062	4466	4489	4576	4329	4043	3956	3944	3873	
15	3938	4047	3798	3693	4080	4187	4199	3871	3561	3474	3425	3554	
16	2971	3099	2908	2751	3168	3328	3251	2916	2569	2562	2564	2736	
17	2134	2063	1744	1701	2071	2285	2108	1762	1554	1752	1876	2034	
18	1813	1750	1492	1455	1814	1877	1814	1526	1337	1445	1552	1711	
19	1376	1355	1197	1167	1352	1397	1371	1214	1027	1109	1134	1259	
20	1044	975	810	786	878	891	835	745	651	702	825	967	
21	575	545	463	449	501	518	509	440	357	349	398	508	
22	139	156	139	133	148	178	167	122	66	32	0	87	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	26216	26672	25767	26478	29790	30182	29718	27775	25569	25376	25151	25165	323859

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-1119	-1175	-1494	-1699	-1834	-1641	-1597	-1580	-1483	-1116	-1076	-1108	
1	-1398	-1433	-1624	-1917	-1926	-1926	-1938	-1978	-1920	-1504	-1424	-1398	
2	-1529	-1507	-1720	-1920	-1926	-1926	-1938	-1978	-1920	-1504	-1439	-1472	
3	-1743	-1619	-1875	-2016	-2124	-1971	-1958	-2009	-1973	-1528	-1517	-1702	
4	-1895	-1888	-2066	-2267	-2325	-2250	-2284	-2386	-2254	-1753	-1727	-1856	
5	-1895	-1888	-2066	-2271	-2361	-2363	-2370	-2388	-2261	-1815	-1840	-1860	
6	-1926	-1946	-2064	-2245	-2281	-2236	-2284	-2433	-2391	-1782	-1754	-1920	
7	-1800	-1734	-1886	-1921	-1973	-1974	-2006	-2104	-2065	-1486	-1472	-1611	
8	-1403	-1337	-1455	-1465	-1447	-1450	-1487	-1568	-1537	-1118	-1109	-1289	
9	-1013	-1019	-980	-957	-990	-891	-956	-1104	-992	-571	-595	-882	
10	-40	-153	-251	-222	-275	-280	-279	-256	-104	242	135	82	
11	669	598	654	750	915	895	930	890	819	1203	1134	818	
12	2333	2291	2321	2513	2839	2779	2875	2776	2598	2882	2758	2528	
13	3746	3694	3694	3889	4259	4235	4263	4128	3870	3948	3904	3723	
14	4433	4413	4102	4094	4496	4539	4705	4428	4100	4128	4250	4345	
15	4788	4566	3832	3693	4080	4238	4284	3954	3708	3927	4013	4332	
16	3614	3557	3154	2834	3247	3460	3563	3162	2718	2906	3026	3406	
17	2753	2509	1983	1754	2117	2401	2411	2004	1696	2088	2312	2630	
18	2259	2015	1418	1216	1510	1706	1672	1356	1221	1682	1867	2090	
19	1636	1516	973	789	969	1024	1030	863	694	942	1078	1424	
20	1147	980	387	221	220	376	350	273	229	477	678	902	
21	180	127	-111	-278	-230	-213	-222	-291	-326	-167	-87	49	
22	-341	-366	-511	-678	-702	-597	-568	-610	-628	-483	-485	-386	
23	-715	-671	-931	-1260	-1428	-1180	-1129	-1110	-1022	-728	-713	-756	
	10741	9530	3484	637	2830	4755	5067	2039	777	8870	9917	10089	68736

C1 Ladrillo perforado (estructural) / Teja de barro, tierra y caña brava pañetada

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	3	3	6	14	23	24	21	17	12	9	8	5	
9	24	24	28	55	89	99	91	70	38	31	28	26	
10	41	41	46	89	148	165	153	113	56	49	46	42	
11	140	149	201	304	420	443	411	349	306	304	266	188	
12	726	742	880	1111	1301	1283	1251	1194	1111	1065	977	805	
13	1768	1823	1941	2212	2459	2430	2381	2345	2278	2298	2215	1936	
14	3010	3036	3127	3314	3574	3504	3479	3558	3515	3498	3387	3112	
15	3916	4142	4208	4291	4512	4303	4389	4473	4491	4265	3969	3727	
16	3865	4181	4480	4596	4643	4482	4515	4559	4463	4165	3968	3767	
17	4153	4378	4349	4247	4248	4115	4122	4247	4242	4096	3973	3887	
18	3852	4078	3909	3678	3614	3477	3472	3512	3523	3389	3283	3476	
19	2865	3083	2920	2724	2640	2528	2527	2582	2558	2461	2385	2570	
20	1862	1906	1640	1493	1443	1373	1334	1331	1312	1291	1363	1607	
21	853	861	764	698	699	698	719	676	597	532	579	720	
22	177	205	187	164	166	193	192	149	83	35	0	107	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	27255	28652	28686	28990	29979	29117	29057	29175	28585	27488	26447	25975	339406

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-963	-1073	-1419	-1624	-1755	-1567	-1524	-1507	-1406	-1021	-958	-941	
1	-1325	-1359	-1539	-1828	-1837	-1837	-1849	-1889	-1835	-1431	-1351	-1325	
2	-1456	-1433	-1635	-1831	-1837	-1837	-1849	-1889	-1835	-1431	-1366	-1398	
3	-1740	-1581	-1841	-1959	-2101	-1898	-1867	-1893	-1843	-1450	-1471	-1706	
4	-1832	-1855	-2022	-2272	-2331	-2256	-2284	-2366	-2215	-1750	-1725	-1824	
5	-1832	-1855	-2022	-2276	-2367	-2370	-2371	-2368	-2221	-1811	-1837	-1827	
6	-1837	-1863	-2012	-2220	-2231	-2224	-2265	-2394	-2395	-1786	-1729	-1833	
7	-1780	-1690	-1884	-1897	-1904	-1904	-1943	-2065	-2065	-1458	-1396	-1560	
8	-1417	-1331	-1515	-1545	-1538	-1537	-1567	-1652	-1635	-1218	-1174	-1294	
9	-1467	-1475	-1497	-1565	-1643	-1474	-1541	-1730	-1596	-1161	-1172	-1418	
10	-1114	-1260	-1433	-1509	-1631	-1596	-1589	-1607	-1470	-1058	-1158	-1080	
11	-1007	-1097	-1117	-1111	-997	-940	-890	-1075	-1181	-672	-696	-923	
12	312	210	262	395	582	601	651	473	330	811	827	627	
13	2073	1992	1967	2151	2394	2391	2358	2310	2310	2502	2461	2216	
14	3266	3218	3154	3319	3579	3512	3510	3579	3523	3569	3582	3426	
15	4787	4664	4241	4291	4512	4354	4481	4579	4670	4731	4577	4558	
16	4565	4671	4796	4706	4747	4659	4921	4881	4661	4604	4522	4514	
17	4843	4859	4664	4327	4320	4275	4526	4569	4433	4534	4524	4623	
18	4439	4426	3843	3440	3309	3318	3347	3346	3419	3724	3715	3985	
19	3236	3330	2704	2362	2274	2163	2194	2235	2228	2308	2373	2842	
20	2064	1993	1268	1052	943	965	947	952	969	1103	1259	1593	
21	502	496	317	157	155	154	175	132	84	125	192	343	
22	-203	-190	-272	-445	-457	-389	-353	-395	-445	-372	-387	-272	
23	-528	-478	-761	-1122	-1324	-1025	-964	-941	-853	-558	-543	-578	
	11586	11319	6247	2996	2862	3538	4254	3285	3632	10834	11069	10748	82370

C2 Ladrillo perforado (estructural) / Teja de barro, mortero y machimbre

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	3	3	6	14	23	24	21	17	12	9	8	5	
9	157	166	239	335	416	408	373	364	386	399	345	230	
10	1096	1113	1325	1624	1753	1649	1615	1654	1677	1631	1499	1224	
11	2798	2945	3214	3651	3843	3715	3670	3764	3846	3866	3683	3154	
12	5255	5344	5660	6040	6328	6051	5984	6405	6489	6412	6109	5490	
13	7367	7849	8116	8342	8594	8040	8202	8610	8801	8326	7683	7100	
14	7728	8383	9060	9372	9280	8846	8975	9210	9159	8499	8072	7586	
15	8608	9147	9152	8918	8816	8429	8555	8921	8942	8495	8174	7972	
16	7745	8272	8015	7516	7307	7047	7060	7196	7203	6849	6579	6948	
17	5656	6106	5799	5411	5248	5066	5028	5120	5102	4898	4745	5096	
18	3738	3854	3329	3037	2991	2857	2786	2744	2707	2671	2772	3231	
19	1841	1867	1668	1533	1561	1560	1602	1509	1341	1238	1317	1574	
20	602	631	552	501	524	565	552	464	331	267	250	464	
21	174	165	140	136	152	157	154	133	108	106	121	154	
22	42	47	42	40	45	54	51	37	20	10	0	26	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	52810	55892	56317	56470	56881	54468	54628	56148	56124	53676	51357	50254	655025

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-1448	-1526	-1832	-2150	-2226	-2126	-2104	-2094	-1979	-1539	-1462	-1437	
1	-1887	-1806	-2080	-2373	-2505	-2324	-2297	-2321	-2247	-1777	-1759	-1907	
2	-2043	-2034	-2316	-2604	-2613	-2613	-2625	-2664	-2573	-2042	-1959	-1986	
3	-2187	-2109	-2420	-2669	-2746	-2643	-2635	-2669	-2580	-2053	-2013	-2142	
4	-2265	-2298	-2524	-2856	-2917	-2842	-2894	-3049	-2939	-2238	-2164	-2256	
5	-2512	-2438	-2705	-2865	-2953	-2956	-2980	-3051	-2945	-2299	-2304	-2398	
6	-2516	-2447	-2695	-2809	-2817	-2810	-2861	-3024	-3026	-2256	-2196	-2404	
7	-2419	-2376	-2497	-2591	-2699	-2557	-2633	-2861	-2711	-1935	-1932	-2252	
8	-2056	-2016	-2128	-2245	-2401	-2404	-2421	-2452	-2293	-1810	-1922	-1993	
9	-1920	-1919	-1859	-1811	-1787	-1715	-1803	-1973	-1872	-1266	-1345	-1797	
10	-14	-150	-103	127	164	82	44	23	158	745	631	332	
11	2375	2411	2620	2902	3088	2994	3043	3069	3139	3475	3326	2763	
12	5230	5191	5421	5704	5989	5748	5777	6117	6143	6418	6251	5657	
13	8262	8338	8169	8314	8563	8079	8293	8696	8991	8921	8418	8030	
14	8578	8982	9369	9475	9378	9012	9367	9519	9344	8948	8712	8511	
15	9755	9913	9453	9017	8909	8614	8964	9262	9210	9136	9001	9093	
16	8637	8842	8202	7572	7360	7180	7322	7373	7348	7425	7286	7805	
17	6413	6663	5985	5437	5268	5138	5258	5297	5195	5170	5184	5855	
18	4389	4326	3255	2798	2687	2674	2629	2571	2579	2834	3050	3631	
19	2008	1960	1437	1170	1195	1196	1254	1154	1011	1058	1217	1634	
20	609	554	176	4	-39	125	165	85	-25	65	102	366	
21	-186	-209	-487	-857	-968	-781	-747	-754	-696	-414	-344	-256	
22	-482	-530	-881	-1218	-1230	-1197	-1180	-1193	-1123	-793	-745	-651	
23	-893	-940	-1363	-1667	-1901	-1543	-1467	-1438	-1314	-892	-858	-903	
	33428	34382	28197	23805	22799	22331	23469	23623	24795	32881	32175	31295	333180

C3 Ladrillo perforado (estructural) / Teja de asbesto

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	237	254	377	500	584	550	503	525	621	657	564	364	
8	1886	1917	2290	2754	2887	2674	2631	2768	2905	2834	2602	2115	
9	4880	5135	5585	6265	6473	6198	6144	6413	6649	6699	6394	5492	
10	9011	9156	9653	10177	10471	9923	9832	10709	11018	10923	10428	9398	
11	12358	13245	13741	14039	14222	13183	13519	14379	14898	14032	12876	11882	
12	12876	14073	15392	15952	15591	14715	14930	15546	15585	14366	13544	12640	
13	14645	15606	15724	15362	15030	14253	14455	15282	15427	14634	14049	13623	
14	13525	14448	14020	13193	12691	12162	12234	12570	12689	12035	11549	12156	
15	10026	10880	10379	9675	9327	8926	8950	9174	9145	8667	8345	8955	
16	6391	6637	5781	5250	5137	4937	4824	4771	4670	4549	4694	5482	
17	2993	3024	2691	2476	2564	2622	2656	2451	2166	1995	2147	2573	
18	965	1033	914	841	952	1042	1024	823	580	477	407	745	
19	398	389	343	339	398	412	403	356	303	332	343	371	
20	316	295	245	238	266	270	253	226	197	213	250	293	
21	174	165	140	136	152	157	154	133	108	106	121	154	
22	42	47	42	40	45	54	51	37	20	10	0	26	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	90723	96304	97317	97237	96790	92078	92563	96163	96981	92529	88313	86269	1123267

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-3231	-3350	-3899	-4520	-4604	-4505	-4482	-4473	-4240	-3403	-3266	-3220	
1	-3415	-3498	-3963	-4629	-4648	-4648	-4660	-4700	-4508	-3626	-3470	-3415	
2	-3546	-3573	-4059	-4632	-4648	-4648	-4719	-4949	-4933	-3708	-3484	-3488	
3	-4319	-4006	-4626	-4710	-4781	-4679	-4729	-4954	-4940	-3718	-3609	-3997	
4	-4397	-4195	-4730	-4897	-4953	-4878	-4965	-5236	-5133	-3872	-3760	-4111	
5	-4644	-4653	-4807	-5176	-5521	-5161	-5293	-5665	-5176	-3948	-4088	-4620	
6	-4648	-4661	-4796	-5137	-5559	-5562	-5590	-5648	-5286	-4201	-4521	-4644	
7	-4217	-4157	-4133	-4018	-3942	-3976	-4107	-4356	-4270	-2920	-3066	-3912	
8	-598	-545	-263	167	298	85	-32	-124	26	1096	993	166	
9	4113	4327	4795	5280	5422	5227	5143	5356	5804	6092	5798	4768	
10	8618	8579	8911	9367	9569	9042	8969	9862	10287	10524	10148	9184	
11	13441	13523	13214	13349	13529	12636	13158	13973	14595	14637	13766	13154	
12	14373	14987	15873	15868	15491	14815	15646	15994	15691	15346	14855	14397	
13	16487	16850	16470	15586	15238	14652	15389	16010	15911	15836	15544	15564	
14	15109	15424	14114	13198	12695	12281	12408	12627	12812	12993	12779	13630	
15	11592	12011	10465	9675	9327	8953	9065	9263	9236	9046	9087	10406	
16	7660	7653	5957	5306	5190	5026	5030	4934	4770	4831	5180	6254	
17	3392	3315	2851	2502	2584	2695	2861	2614	2259	2217	2427	2949	
18	1262	1209	834	459	488	776	867	649	417	617	606	994	
19	549	464	-348	-1175	-1437	-959	-858	-875	-770	-134	47	348	
20	-44	-245	-1318	-1940	-1987	-1891	-1887	-1906	-1733	-999	-812	-567	
21	-1120	-1389	-2098	-2434	-2677	-2267	-2178	-2163	-1993	-1312	-1180	-1100	
22	-2091	-2152	-2469	-2997	-3013	-2980	-2963	-2976	-2837	-2276	-2177	-2105	
23	-2280	-2281	-2715	-3332	-3475	-3277	-3236	-3221	-3029	-2374	-2290	-2312	
	58046	59637	49260	41160	38586	36757	38837	40036	42960	56744	55507	54323	571853

C4 Ladrillo perforado (estructural) / Teja termoacústica (Estrutech)

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	38	41	61	87	108	105	94	94	103	105	90	58	
9	298	303	362	455	507	486	472	471	460	443	407	334	
10	750	788	857	995	1080	1055	1037	1039	1021	1022	975	840	
11	1387	1412	1504	1645	1773	1722	1691	1757	1742	1718	1633	1457	
12	2022	2159	2269	2413	2583	2465	2495	2536	2502	2349	2155	1970	
13	2333	2494	2682	2846	2972	2884	2882	2873	2759	2589	2470	2303	
14	2710	2841	2819	2812	2932	2891	2921	2895	2797	2688	2621	2560	
15	2557	2686	2570	2463	2558	2544	2547	2459	2359	2263	2194	2298	
16	1893	2022	1918	1810	1914	1925	1901	1813	1691	1638	1602	1716	
17	1273	1277	1098	1040	1140	1183	1114	1004	930	974	1025	1152	
18	830	818	712	681	793	814	802	698	610	616	661	753	
19	473	477	423	408	466	489	481	418	338	346	343	415	
20	316	295	245	238	266	270	253	226	197	213	250	293	
21	174	165	140	136	152	157	154	133	108	106	121	154	
22	42	47	42	40	45	54	51	37	20	10	0	26	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	17096	17825	17702	18069	19289	19044	18895	18453	17637	17080	16547	16329	213966

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-1019	-1050	-1302	-1482	-1587	-1438	-1405	-1391	-1310	-1007	-977	-1014	
1	-1210	-1240	-1405	-1653	-1660	-1660	-1673	-1712	-1667	-1301	-1231	-1210	
2	-1340	-1314	-1501	-1656	-1660	-1660	-1673	-1712	-1667	-1301	-1246	-1283	
3	-1485	-1389	-1605	-1721	-1794	-1691	-1689	-1743	-1720	-1321	-1299	-1439	
4	-1630	-1616	-1758	-1909	-1965	-1890	-1924	-2026	-1913	-1474	-1458	-1591	
5	-1630	-1616	-1758	-1912	-2001	-2003	-2011	-2028	-1919	-1535	-1570	-1595	
6	-1660	-1674	-1756	-1887	-1922	-1876	-1918	-2047	-2004	-1494	-1485	-1654	
7	-1467	-1423	-1528	-1562	-1614	-1615	-1640	-1718	-1677	-1198	-1194	-1307	
8	-1069	-1027	-1097	-1105	-1087	-1090	-1121	-1181	-1150	-829	-832	-985	
9	-654	-659	-614	-568	-573	-513	-564	-672	-600	-281	-294	-525	
10	319	207	115	169	161	157	157	178	290	564	493	442	
11	968	891	911	955	1080	1064	1127	1112	1036	1333	1297	1087	
12	2144	2092	2037	2076	2243	2174	2310	2275	2199	2439	2352	2243	
13	2803	2785	2785	2844	2966	2923	2992	2944	2839	2900	2850	2760	
14	3123	3136	2923	2843	2962	2942	3051	2995	2854	2852	2906	3012	
15	3245	3120	2596	2463	2558	2583	2610	2517	2463	2610	2648	2897	
16	2371	2365	2086	1866	1967	2015	2114	1980	1791	1875	1930	2207	
17	1727	1609	1260	1066	1160	1255	1318	1168	1023	1203	1327	1569	
18	1132	999	631	443	489	630	645	524	482	757	859	1002	
19	624	554	192	30	83	116	133	63	5	166	244	475	
20	322	218	-180	-327	-392	-246	-232	-247	-225	-19	81	186	
21	-226	-258	-434	-591	-580	-574	-577	-598	-575	-410	-365	-305	
22	-438	-474	-608	-755	-789	-712	-685	-695	-671	-506	-485	-446	
23	-715	-671	-881	-1136	-1270	-1071	-1031	-1016	-942	-697	-692	-747	
	4235	3565	-891	-3509	-3225	-2180	-1686	-3030	-3058	3326	3859	3779	1185

D1 Ladrillo hueco (H15) / Teja de barro, tierra y caña brava pañetada

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	3	3	6	14	23	24	21	17	12	9	8	5	
9	24	24	28	55	89	99	91	70	38	31	28	26	
10	41	41	46	89	148	165	153	113	56	49	46	42	
11	114	119	156	236	336	360	338	277	232	235	206	149	
12	581	594	705	885	1017	995	970	931	894	869	795	648	
13	1468	1539	1684	1933	2119	2084	2043	2034	2010	2006	1906	1641	
14	2717	2748	2880	3080	3290	3198	3135	3285	3274	3253	3119	2823	
15	3697	3923	4018	4121	4298	4055	4153	4278	4332	4109	3819	3564	
16	3799	4109	4407	4545	4541	4352	4410	4491	4432	4116	3908	3690	
17	4093	4350	4357	4234	4209	4045	4083	4239	4227	4027	3884	3801	
18	3676	3902	3758	3535	3442	3336	3323	3373	3389	3255	3144	3317	
19	2759	2973	2812	2620	2552	2443	2435	2477	2470	2371	2302	2483	
20	1809	1866	1620	1476	1435	1367	1340	1337	1315	1301	1344	1560	
21	891	894	788	721	726	722	734	694	621	569	626	763	
22	251	269	238	215	223	244	244	202	136	96	81	183	
23	28	32	28	27	30	36	34	25	13	7	0	18	
	25951	27386	27531	27786	28478	27525	27507	27843	27451	26303	25216	24713	323690

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-812	-882	-1197	-1435	-1507	-1410	-1388	-1379	-1289	-946	-891	-862	
1	-1074	-1133	-1352	-1583	-1631	-1570	-1568	-1602	-1553	-1164	-1090	-1067	
2	-1327	-1301	-1486	-1651	-1657	-1657	-1669	-1708	-1664	-1293	-1235	-1270	
3	-1468	-1375	-1588	-1715	-1787	-1686	-1678	-1713	-1672	-1303	-1287	-1422	
4	-1642	-1611	-1760	-1942	-2046	-1902	-1915	-1991	-1859	-1459	-1471	-1641	
5	-1652	-1670	-1813	-2032	-2123	-2125	-2126	-2123	-1989	-1621	-1654	-1647	
6	-1657	-1678	-1802	-1977	-1986	-1980	-2007	-2095	-2068	-1578	-1546	-1652	
7	-1459	-1426	-1572	-1650	-1660	-1660	-1694	-1802	-1802	-1262	-1197	-1301	
8	-1191	-1120	-1272	-1300	-1294	-1292	-1318	-1389	-1371	-1021	-986	-1087	
9	-1186	-1162	-1236	-1259	-1280	-1192	-1238	-1373	-1324	-961	-936	-1100	
10	-869	-1016	-1184	-1240	-1309	-1218	-1230	-1311	-1197	-795	-833	-833	
11	-789	-882	-926	-977	-942	-885	-813	-948	-1002	-588	-632	-721	
12	54	-47	-22	61	190	203	266	119	23	455	447	255	
13	1515	1455	1450	1645	1828	1820	1786	1729	1742	2048	2006	1733	
14	2965	2924	2906	3062	3270	3181	3143	3287	3283	3310	3270	3096	
15	4240	4268	4037	4121	4298	4081	4200	4330	4421	4363	4181	4053	
16	4383	4482	4574	4600	4593	4456	4641	4686	4590	4483	4371	4315	
17	4670	4754	4620	4296	4264	4175	4420	4507	4385	4392	4343	4415	
18	4195	4233	3784	3334	3173	3212	3302	3309	3327	3539	3522	3807	
19	3103	3164	2590	2258	2187	2095	2108	2127	2157	2323	2360	2715	
20	1963	1902	1254	1035	935	960	963	963	973	1118	1255	1606	
21	665	633	343	180	182	178	190	150	108	170	268	443	
22	-122	-121	-220	-362	-365	-320	-300	-342	-385	-311	-307	-196	
23	-500	-446	-631	-861	-992	-778	-728	-722	-680	-488	-499	-542	
	12005	11945	7497	4608	4341	4686	5347	4709	5154	11411	11459	11097	94259

D2 Ladrillo hueco (H15) / Teja de barro, mortero y machimbre

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	3	3	6	14	23	24	21	17	12	9	8	5	
9	157	166	239	335	416	408	373	364	386	399	345	230	
10	1096	1113	1325	1624	1753	1649	1615	1654	1677	1631	1499	1224	
11	2772	2916	3170	3583	3758	3632	3596	3693	3772	3797	3624	3115	
12	5110	5196	5485	5814	6045	5762	5704	6142	6272	6215	5927	5333	
13	7066	7565	7859	8064	8253	7694	7864	8299	8532	8035	7375	6804	
14	7436	8094	8813	9138	8996	8540	8632	8937	8919	8253	7804	7296	
15	8389	8928	8962	8748	8602	8181	8320	8725	8783	8339	8025	7809	
16	7679	8200	7943	7465	7205	6917	6955	7128	7172	6800	6520	6871	
17	5596	6079	5807	5398	5209	4995	4989	5112	5086	4829	4656	5009	
18	3562	3678	3179	2893	2819	2716	2636	2605	2573	2538	2633	3073	
19	1735	1757	1560	1429	1474	1476	1510	1404	1253	1149	1233	1487	
20	549	591	532	484	516	560	559	470	335	276	230	416	
21	212	198	164	159	178	181	169	151	132	143	167	196	
22	117	111	94	91	102	105	103	89	72	71	81	103	
23	28	32	28	27	30	36	34	25	13	7	0	18	
	51507	54627	55166	55266	55379	52876	53080	54815	54989	52491	50127	48989	639312

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-1297	-1334	-1610	-1960	-1977	-1969	-1967	-1966	-1861	-1465	-1395	-1358	
1	-1636	-1580	-1893	-2128	-2299	-2056	-2015	-2034	-1965	-1510	-1497	-1648	
2	-1915	-1903	-2167	-2425	-2432	-2432	-2444	-2484	-2401	-1904	-1828	-1858	
3	-1915	-1903	-2167	-2425	-2432	-2432	-2446	-2488	-2409	-1906	-1828	-1858	
4	-2075	-2054	-2262	-2526	-2632	-2488	-2524	-2674	-2583	-1947	-1910	-2073	
5	-2331	-2253	-2496	-2621	-2709	-2711	-2735	-2807	-2712	-2109	-2121	-2218	
6	-2336	-2262	-2485	-2566	-2572	-2566	-2604	-2724	-2699	-2048	-2013	-2223	
7	-2099	-2111	-2185	-2344	-2454	-2312	-2385	-2599	-2448	-1739	-1732	-1993	
8	-1830	-1805	-1885	-2000	-2157	-2159	-2172	-2190	-2029	-1613	-1733	-1787	
9	-1639	-1606	-1598	-1505	-1424	-1433	-1501	-1616	-1600	-1066	-1109	-1478	
10	230	94	146	396	487	460	402	319	431	1008	956	579	
11	2593	2626	2811	3036	3143	3049	3121	3195	3319	3559	3390	2965	
12	4973	4934	5137	5369	5596	5350	5392	5764	5836	6062	5872	5285	
13	7703	7802	7652	7808	7997	7508	7721	8115	8423	8467	7963	7547	
14	8277	8689	9121	9219	9070	8682	9000	9226	9104	8689	8400	8181	
15	9208	9517	9249	8847	8696	8341	8683	9014	8962	8767	8605	8589	
16	8454	8653	7980	7465	7205	6977	7043	7178	7277	7303	7135	7606	
17	6240	6558	5940	5406	5212	5038	5152	5236	5146	5029	5003	5647	
18	4144	4133	3196	2692	2550	2568	2584	2533	2486	2650	2857	3454	
19	1875	1795	1324	1066	1108	1128	1168	1047	941	1073	1204	1507	
20	507	463	162	-13	-46	120	181	96	-21	81	97	379	
21	-24	-73	-460	-833	-941	-757	-732	-736	-672	-368	-267	-156	
22	-401	-460	-829	-1136	-1138	-1127	-1127	-1141	-1063	-732	-664	-575	
23	-865	-908	-1233	-1406	-1568	-1296	-1231	-1219	-1141	-822	-814	-867	
	33841	35012	29448	25416	24283	23483	24564	25045	26321	33459	32571	31647	345090

D3 Ladrillo hueco (H15) / Teja de asbesto

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	237	254	377	500	584	550	503	525	621	657	564	364	
8	1886	1917	2290	2754	2887	2674	2631	2768	2905	2834	2602	2115	
9	4880	5135	5585	6265	6473	6198	6144	6413	6649	6699	6394	5492	
10	9011	9156	9653	10177	10471	9923	9832	10709	11018	10923	10428	9398	
11	12331	13216	13696	13971	14138	13100	13446	14308	14824	13962	12816	11843	
12	12731	13925	15217	15726	15307	14426	14650	15283	15368	14170	13362	12483	
13	14345	15323	15467	15084	14690	13907	14117	14971	15159	14342	13741	13327	
14	13232	14160	13773	12959	12406	11855	11890	12296	12449	11789	11282	11866	
15	9807	10661	10189	9506	9113	8678	8715	8978	8986	8511	8195	8792	
16	6325	6565	5708	5199	5036	4806	4719	4703	4638	4500	4634	5405	
17	2932	2997	2699	2463	2525	2552	2618	2443	2151	1926	2057	2487	
18	789	857	764	697	779	901	874	684	446	344	268	586	
19	293	279	235	235	311	327	311	251	215	242	259	283	
20	263	255	225	221	258	264	259	232	201	222	230	246	
21	212	198	164	159	178	181	169	151	132	143	167	196	
22	117	111	94	91	102	105	103	89	72	71	81	103	
23	28	32	28	27	30	36	34	25	13	7	0	18	
	89419	95041	96164	96034	95288	90483	91015	94829	95847	91342	87080	85004	1107546

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-3080	-3159	-3678	-4331	-4356	-4347	-4345	-4345	-4122	-3329	-3199	-3141	
1	-3164	-3273	-3776	-4384	-4442	-4381	-4379	-4413	-4225	-3359	-3208	-3157	
2	-3417	-3441	-3910	-4452	-4468	-4468	-4539	-4768	-4761	-3570	-3353	-3360	
3	-4047	-3800	-4373	-4465	-4468	-4468	-4540	-4773	-4769	-3571	-3425	-3713	
4	-4207	-3952	-4467	-4566	-4667	-4523	-4596	-4861	-4776	-3581	-3506	-3929	
5	-4463	-4468	-4597	-4933	-5276	-4916	-5048	-5420	-4943	-3758	-3904	-4439	
6	-4468	-4476	-4587	-4893	-5314	-5318	-5333	-5348	-4959	-3993	-4338	-4463	
7	-3897	-3892	-3821	-3772	-3697	-3731	-3859	-4094	-4006	-2724	-2867	-3653	
8	-372	-334	-20	412	543	329	217	139	290	1292	1181	373	
9	4394	4639	5055	5586	5784	5509	5445	5713	6075	6291	6034	5087	
10	8862	8824	9160	9636	9891	9420	9328	10158	10560	10787	10472	9431	
11	13659	13738	13405	13483	13584	12691	13235	14099	14775	14721	13830	13355	
12	14115	14730	15589	15533	15098	14418	15260	15640	15384	14990	14476	14025	
13	15928	16313	15953	15080	14672	14080	14817	15429	15343	15382	15089	15081	
14	14809	15130	13866	12942	12387	11951	12041	12334	12571	12734	12467	13300	
15	11044	11615	10260	9506	9113	8680	8784	9015	8988	8677	8691	9901	
16	7478	7463	5735	5199	5036	4823	4751	4739	4698	4710	5029	6055	
17	3220	3209	2806	2471	2527	2595	2755	2552	2211	2076	2247	2741	
18	1018	1016	775	353	351	670	823	612	324	433	413	816	
19	416	298	-461	-1280	-1525	-1027	-943	-983	-841	-118	34	221	
20	-145	-336	-1332	-1957	-1995	-1896	-1871	-1894	-1730	-983	-816	-554	
21	-957	-1252	-2071	-2410	-2650	-2243	-2163	-2145	-1969	-1266	-1103	-1000	
22	-2010	-2082	-2417	-2914	-2921	-2910	-2910	-2924	-2777	-2215	-2096	-2029	
23	-2252	-2249	-2584	-3070	-3143	-3030	-3000	-3002	-2855	-2305	-2246	-2276	
	58464	60261	50510	42774	40064	37908	39930	41460	44486	57321	55902	54672	583752

D4 Ladrillo hueco (H15) / Teja termoacústica (Estrutech)

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	38	41	61	87	108	105	94	94	103	105	90	58	
9	298	303	362	455	507	486	472	471	460	443	407	334	
10	750	788	857	995	1080	1055	1037	1039	1021	1022	975	840	
11	1361	1383	1459	1577	1689	1640	1618	1686	1668	1649	1573	1419	
12	1877	2011	2094	2187	2299	2176	2214	2274	2285	2153	1973	1813	
13	2033	2211	2425	2567	2631	2538	2544	2562	2490	2297	2162	2008	
14	2418	2552	2571	2577	2647	2584	2578	2622	2557	2442	2353	2271	
15	2338	2468	2380	2294	2345	2296	2311	2264	2200	2107	2045	2134	
16	1828	1950	1846	1760	1812	1795	1796	1745	1660	1589	1543	1639	
17	1213	1250	1106	1027	1101	1112	1075	997	915	906	935	1066	
18	654	643	561	538	621	673	652	559	476	483	522	594	
19	367	367	315	304	378	404	389	313	250	257	259	328	
20	263	255	225	221	258	264	259	232	201	222	230	246	
21	212	198	164	159	178	181	169	151	132	143	167	196	
22	117	111	94	91	102	105	103	89	72	71	81	103	
23	28	32	28	27	30	36	34	25	13	7	0	18	
	15795	16563	16548	16866	17786	17450	17345	17123	16503	15896	15315	15067	198257

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-868	-858	-1081	-1292	-1339	-1281	-1268	-1263	-1193	-932	-910	-935	
1	-959	-1014	-1217	-1408	-1454	-1393	-1391	-1425	-1385	-1034	-970	-952	
2	-1212	-1183	-1352	-1476	-1480	-1480	-1492	-1532	-1495	-1163	-1115	-1155	
3	-1212	-1183	-1352	-1476	-1480	-1480	-1500	-1563	-1549	-1174	-1115	-1155	
4	-1439	-1373	-1496	-1579	-1680	-1536	-1555	-1651	-1556	-1183	-1204	-1408	
5	-1449	-1431	-1549	-1669	-1757	-1759	-1766	-1784	-1686	-1345	-1387	-1414	
6	-1480	-1489	-1546	-1643	-1677	-1632	-1660	-1747	-1677	-1285	-1302	-1474	
7	-1146	-1159	-1216	-1315	-1369	-1370	-1391	-1455	-1414	-1002	-995	-1048	
8	-843	-816	-854	-861	-842	-846	-872	-919	-886	-633	-644	-779	
9	-372	-346	-353	-262	-210	-231	-262	-315	-329	-81	-58	-206	
10	564	451	364	438	483	535	516	474	563	827	818	689	
11	1186	1106	1102	1088	1135	1119	1205	1238	1215	1417	1361	1288	
12	1887	1834	1753	1741	1851	1776	1924	1921	1892	2083	1972	1870	
13	2244	2248	2268	2338	2401	2351	2420	2364	2271	2446	2395	2277	
14	2822	2843	2675	2587	2654	2611	2684	2703	2613	2593	2594	2682	
15	2698	2724	2391	2294	2345	2310	2329	2268	2215	2241	2252	2392	
16	2188	2176	1865	1760	1812	1812	1834	1785	1720	1753	1779	2009	
17	1555	1503	1215	1035	1103	1155	1213	1106	975	1062	1146	1361	
18	888	806	573	336	353	524	600	487	389	572	667	825	
19	491	389	79	-74	-5	48	47	-44	-66	181	231	348	
20	221	127	-194	-344	-400	-251	-216	-236	-222	-4	76	200	
21	-63	-121	-407	-568	-553	-550	-562	-580	-551	-364	-288	-205	
22	-357	-405	-556	-673	-696	-642	-632	-642	-611	-445	-404	-370	
23	-687	-638	-751	-875	-938	-824	-795	-797	-769	-627	-648	-711	
	4657	4191	361	-1898	-1743	-1034	-590	-1607	-1536	3903	4251	4129	13084

E1 Bloque de concreto / Teja de barro, tierra y caña brava pañetada

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	3	3	6	14	23	24	21	17	12	9	8	5	
9	24	24	28	55	89	99	91	70	38	31	28	26	
10	41	41	46	89	148	165	153	113	56	49	46	42	
11	114	119	156	236	336	360	338	277	232	235	206	149	
12	583	596	708	889	1022	1000	974	935	898	873	798	650	
13	1477	1550	1697	1950	2140	2105	2063	2053	2026	2021	1920	1652	
14	2742	2772	2904	3108	3324	3233	3170	3316	3302	3280	3147	2848	
15	3731	3957	4049	4154	4338	4098	4197	4316	4365	4143	3854	3599	
16	3835	4145	4440	4578	4581	4395	4454	4528	4464	4148	3941	3724	
17	4121	4379	4383	4259	4242	4082	4119	4268	4250	4052	3909	3828	
18	3699	3923	3775	3552	3466	3366	3349	3393	3405	3276	3166	3341	
19	2785	2997	2832	2641	2579	2471	2462	2499	2489	2393	2325	2508	
20	1833	1889	1640	1497	1459	1391	1364	1358	1334	1321	1365	1583	
21	910	912	803	736	742	738	750	708	633	582	641	781	
22	262	279	247	224	233	254	254	210	142	103	88	193	
23	31	35	31	29	33	39	37	27	15	7	0	19	
	26191	27621	27745	28011	28755	27820	27796	28088	27661	26523	25442	24948	326601

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-817	-888	-1213	-1458	-1531	-1434	-1411	-1402	-1311	-960	-904	-872	
1	-1087	-1149	-1376	-1610	-1662	-1595	-1592	-1625	-1575	-1178	-1102	-1079	
2	-1351	-1326	-1514	-1685	-1690	-1690	-1702	-1742	-1696	-1319	-1259	-1294	
3	-1492	-1399	-1616	-1748	-1820	-1720	-1712	-1746	-1703	-1329	-1311	-1446	
4	-1674	-1640	-1794	-1979	-2087	-1937	-1949	-2024	-1891	-1485	-1498	-1674	
5	-1685	-1704	-1852	-2077	-2168	-2170	-2171	-2169	-2032	-1656	-1688	-1680	
6	-1690	-1713	-1841	-2022	-2032	-2025	-2052	-2140	-2111	-1613	-1579	-1686	
7	-1493	-1460	-1611	-1695	-1705	-1705	-1740	-1851	-1850	-1299	-1231	-1335	
8	-1233	-1159	-1317	-1345	-1339	-1338	-1364	-1437	-1420	-1058	-1020	-1126	
9	-1228	-1202	-1281	-1304	-1326	-1237	-1284	-1421	-1373	-998	-971	-1138	
10	-914	-1061	-1230	-1289	-1362	-1265	-1279	-1366	-1246	-831	-871	-878	
11	-835	-927	-972	-1026	-997	-940	-868	-1003	-1051	-629	-677	-766	
12	10	-91	-64	19	149	163	224	75	-22	423	413	212	
13	1501	1442	1439	1638	1825	1817	1782	1721	1731	2048	2006	1727	
14	2990	2948	2930	3088	3303	3214	3175	3316	3310	3338	3298	3121	
15	4275	4301	4068	4154	4338	4124	4244	4368	4454	4397	4219	4090	
16	4440	4529	4608	4632	4633	4501	4688	4727	4627	4528	4421	4371	
17	4720	4797	4656	4324	4300	4218	4468	4547	4414	4430	4386	4465	
18	4238	4268	3811	3355	3201	3247	3341	3339	3349	3573	3562	3853	
19	3147	3199	2612	2279	2214	2125	2137	2150	2178	2357	2398	2757	
20	2000	1935	1275	1055	959	984	988	985	991	1140	1281	1642	
21	696	661	359	195	198	194	206	164	120	184	286	466	
22	-111	-110	-211	-354	-356	-310	-291	-334	-378	-305	-299	-186	
23	-497	-443	-628	-861	-991	-776	-725	-720	-679	-487	-499	-540	
	11910	11808	7238	4286	4054	4445	5113	4412	4836	11271	11361	11004	91738

E2 Bloque de concreto / Teja de barro, mortero y machimbre

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	3	3	6	14	23	24	21	17	12	9	8	5	
9	157	166	239	335	416	408	373	364	386	399	345	230	
10	1096	1113	1325	1624	1753	1649	1615	1654	1677	1631	1499	1224	
11	2772	2916	3170	3583	3758	3632	3596	3693	3772	3797	3624	3115	
12	5111	5197	5487	5819	6050	5767	5708	6146	6276	6220	5930	5336	
13	7076	7576	7872	8080	8274	7715	7884	8317	8549	8049	7388	6815	
14	7461	8118	8837	9166	9030	8575	8666	8968	8946	8281	7832	7322	
15	8424	8962	8994	8781	8643	8223	8363	8763	8816	8373	8060	7843	
16	7716	8236	7975	7498	7245	6960	6999	7165	7204	6832	6552	6904	
17	5624	6107	5833	5423	5242	5033	5025	5142	5110	4854	4681	5036	
18	3585	3699	3196	2911	2844	2746	2662	2626	2590	2558	2656	3096	
19	1761	1782	1580	1449	1501	1504	1537	1426	1272	1171	1257	1512	
20	573	615	552	504	540	584	582	491	353	296	251	439	
21	231	216	179	174	194	197	185	165	144	155	183	214	
22	127	121	103	99	111	115	113	97	79	77	88	112	
23	31	35	31	29	33	39	37	27	15	7	0	19	
	51748	54862	55379	55489	55657	53171	53366	55061	55201	52709	50354	49222	642219

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-1302	-1340	-1626	-1984	-2001	-1993	-1991	-1990	-1883	-1478	-1407	-1369	
1	-1648	-1596	-1917	-2155	-2330	-2082	-2040	-2058	-1986	-1524	-1510	-1660	
2	-1939	-1927	-2195	-2458	-2466	-2466	-2478	-2517	-2433	-1930	-1853	-1882	
3	-1939	-1927	-2195	-2458	-2466	-2466	-2479	-2522	-2440	-1931	-1853	-1882	
4	-2107	-2083	-2296	-2563	-2673	-2523	-2558	-2708	-2615	-1973	-1937	-2106	
5	-2365	-2288	-2535	-2666	-2754	-2756	-2781	-2852	-2755	-2144	-2155	-2251	
6	-2369	-2296	-2524	-2611	-2618	-2611	-2649	-2770	-2742	-2083	-2047	-2257	
7	-2132	-2145	-2224	-2389	-2499	-2358	-2431	-2647	-2497	-1775	-1766	-2027	
8	-1872	-1844	-1930	-2046	-2202	-2204	-2218	-2238	-2078	-1650	-1768	-1825	
9	-1681	-1645	-1643	-1550	-1470	-1478	-1547	-1664	-1649	-1103	-1144	-1517	
10	185	49	100	347	434	412	353	265	381	972	918	534	
11	2548	2581	2765	2987	3088	2994	3066	3140	3269	3518	3345	2920	
12	4929	4890	5095	5328	5556	5310	5350	5719	5792	6029	5838	5242	
13	7690	7788	7641	7801	7994	7505	7716	8107	8412	8467	7964	7541	
14	8302	8712	9145	9245	9102	8715	9032	9256	9131	8716	8428	8207	
15	9243	9551	9280	8880	8736	8383	8727	9051	8994	8801	8643	8626	
16	8511	8699	8013	7498	7245	7022	7089	7219	7314	7349	7185	7662	
17	6290	6601	5976	5434	5248	5081	5201	5275	5176	5067	5046	5697	
18	4188	4169	3223	2713	2578	2603	2623	2563	2509	2684	2897	3499	
19	1919	1830	1345	1087	1135	1158	1197	1069	961	1107	1243	1549	
20	545	497	184	7	-23	144	206	118	-3	103	124	415	
21	8	-45	-445	-819	-925	-741	-716	-722	-660	-354	-249	-133	
22	-389	-450	-821	-1127	-1129	-1118	-1118	-1133	-1056	-726	-657	-565	
23	-863	-905	-1230	-1406	-1568	-1294	-1228	-1216	-1140	-821	-814	-865	
	33752	34876	29186	25095	23992	23237	24326	24745	26002	33321	32471	31553	342556

E3 Bloque de concreto / Teja de asbesto

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	237	254	377	500	584	550	503	525	621	657	564	364	
8	1886	1917	2290	2754	2887	2674	2631	2768	2905	2834	2602	2115	
9	4880	5135	5585	6265	6473	6198	6144	6413	6649	6699	6394	5492	
10	9011	9156	9653	10177	10471	9923	9832	10709	11018	10923	10428	9398	
11	12331	13216	13696	13971	14138	13100	13446	14308	14824	13962	12816	11843	
12	12732	13926	15220	15730	15312	14431	14654	15288	15372	14174	13365	12485	
13	14355	15333	15479	15100	14710	13928	14138	14990	15175	14357	13755	13338	
14	13257	14184	13797	12987	12441	11891	11924	12328	12476	11817	11310	11892	
15	9842	10695	10220	9539	9154	8720	8759	9016	9019	8545	8230	8827	
16	6361	6601	5741	5232	5076	4850	4763	4740	4670	4532	4667	5438	
17	2961	3025	2725	2488	2558	2589	2653	2472	2174	1951	2083	2514	
18	812	878	781	715	804	930	901	704	462	364	291	609	
19	319	304	255	255	338	355	337	273	235	264	283	308	
20	286	279	245	241	281	288	283	253	219	242	251	268	
21	231	216	179	174	194	197	185	165	144	155	183	214	
22	127	121	103	99	111	115	113	97	79	77	88	112	
23	31	35	31	29	33	39	37	27	15	7	0	19	
	89659	95275	96377	96256	95565	90778	91303	95076	96057	91560	87310	85236	1110452

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-3085	-3165	-3693	-4354	-4380	-4371	-4369	-4368	-4144	-3343	-3212	-3152	
1	-3177	-3288	-3800	-4411	-4473	-4406	-4403	-4436	-4247	-3372	-3221	-3169	
2	-3441	-3466	-3938	-4485	-4501	-4501	-4572	-4802	-4793	-3595	-3378	-3384	
3	-4071	-3824	-4400	-4499	-4501	-4501	-4573	-4806	-4801	-3597	-3449	-3737	
4	-4239	-3980	-4501	-4603	-4709	-4559	-4630	-4895	-4808	-3607	-3534	-3962	
5	-4496	-4502	-4636	-4978	-5321	-4962	-5093	-5466	-4986	-3793	-3938	-4473	
6	-4501	-4511	-4625	-4938	-5360	-5363	-5378	-5393	-5002	-4028	-4372	-4497	
7	-3930	-3927	-3860	-3817	-3743	-3777	-3905	-4142	-4055	-2761	-2901	-3686	
8	-414	-373	-65	367	497	284	171	90	241	1256	1146	334	
9	4353	4600	5010	5541	5739	5464	5399	5664	6027	6255	5999	5048	
10	8817	8778	9114	9587	9838	9372	9279	10104	10511	10750	10435	9386	
11	13613	13693	13359	13433	13529	12636	13180	14045	14725	14681	13785	13310	
12	14071	14686	15547	15492	15058	14377	15219	15596	15339	14958	14442	13982	
13	15914	16300	15942	15073	14669	14078	14813	15421	15332	15382	15089	15075	
14	14834	15154	13890	12968	12420	11984	12073	12364	12599	12761	12494	13326	
15	11080	11649	10291	9539	9154	8722	8828	9053	9021	8712	8729	9938	
16	7534	7510	5768	5232	5076	4868	4797	4780	4736	4755	5079	6111	
17	3269	3252	2842	2499	2564	2637	2803	2592	2240	2114	2289	2791	
18	1062	1051	802	373	379	705	861	642	347	467	453	862	
19	460	334	-440	-1259	-1498	-997	-914	-960	-820	-84	72	263	
20	-107	-303	-1310	-1937	-1971	-1872	-1846	-1873	-1712	-961	-790	-518	
21	-926	-1224	-2056	-2396	-2634	-2226	-2147	-2131	-1957	-1252	-1086	-977	
22	-1999	-2072	-2409	-2906	-2912	-2901	-2901	-2916	-2771	-2209	-2089	-2019	
23	-2250	-2246	-2582	-3070	-3142	-3027	-2997	-2999	-2855	-2304	-2246	-2275	
	58371	60126	50250	42451	39778	37664	39695	41164	44167	57185	55796	54577	581224

E4 Bloque de concreto / Teja termoacústica (Estrutech)

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	38	41	61	87	108	105	94	94	103	105	90	58	
9	298	303	362	455	507	486	472	471	460	443	407	334	
10	750	788	857	995	1080	1055	1037	1039	1021	1022	975	840	
11	1361	1383	1459	1577	1689	1640	1618	1686	1668	1649	1573	1419	
12	1879	2013	2096	2191	2304	2182	2219	2278	2289	2157	1976	1815	
13	2043	2221	2437	2584	2652	2559	2564	2581	2506	2312	2175	2019	
14	2443	2576	2595	2605	2682	2619	2612	2654	2584	2469	2381	2296	
15	2372	2501	2411	2327	2385	2338	2355	2301	2233	2141	2080	2169	
16	1864	1986	1879	1792	1853	1839	1839	1782	1692	1621	1575	1672	
17	1242	1278	1132	1052	1134	1149	1111	1026	938	930	961	1093	
18	677	664	578	555	646	702	678	579	493	503	545	618	
19	393	391	335	324	405	432	415	335	270	278	283	353	
20	286	279	245	241	281	288	283	253	219	242	251	268	
21	231	216	179	174	194	197	185	165	144	155	183	214	
22	127	121	103	99	111	115	113	97	79	77	88	112	
23	31	35	31	29	33	39	37	27	15	7	0	19	
	16035	16796	16760	17087	18064	17745	17632	17368	16714	16111	15543	15299	201154

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-873	-864	-1096	-1316	-1363	-1304	-1292	-1287	-1214	-946	-923	-945	
1	-972	-1030	-1241	-1435	-1485	-1419	-1416	-1449	-1407	-1048	-982	-963	
2	-1236	-1207	-1379	-1510	-1513	-1513	-1526	-1565	-1527	-1189	-1139	-1179	
3	-1236	-1207	-1379	-1510	-1513	-1513	-1533	-1596	-1581	-1199	-1139	-1179	
4	-1472	-1402	-1530	-1616	-1721	-1571	-1589	-1685	-1588	-1209	-1232	-1441	
5	-1482	-1466	-1588	-1714	-1802	-1804	-1811	-1829	-1729	-1380	-1421	-1448	
6	-1513	-1523	-1585	-1688	-1722	-1677	-1706	-1792	-1720	-1321	-1336	-1507	
7	-1180	-1193	-1255	-1360	-1414	-1416	-1437	-1504	-1463	-1038	-1029	-1082	
8	-885	-855	-899	-906	-888	-891	-918	-967	-935	-669	-679	-817	
9	-414	-386	-398	-308	-256	-277	-308	-363	-377	-118	-93	-245	
10	519	406	318	389	430	487	467	420	514	791	780	644	
11	1140	1061	1056	1039	1081	1064	1150	1184	1166	1376	1316	1243	
12	1843	1791	1711	1700	1810	1736	1883	1877	1848	2050	1938	1828	
13	2230	2235	2257	2331	2398	2349	2415	2355	2260	2446	2395	2271	
14	2847	2867	2699	2613	2686	2644	2716	2733	2641	2621	2621	2708	
15	2733	2758	2423	2327	2385	2352	2373	2306	2248	2275	2290	2429	
16	2245	2222	1898	1792	1853	1857	1881	1826	1757	1799	1828	2065	
17	1604	1546	1251	1063	1140	1198	1261	1145	1004	1099	1188	1411	
18	931	841	600	357	380	559	639	517	412	606	706	870	
19	535	424	100	-53	22	77	76	-22	-45	215	269	390	
20	259	161	-172	-324	-376	-227	-191	-214	-203	18	103	235	
21	-32	-93	-392	-553	-537	-534	-546	-566	-539	-351	-270	-182	
22	-346	-394	-547	-664	-687	-633	-623	-634	-604	-439	-397	-360	
23	-685	-635	-748	-874	-937	-822	-792	-794	-768	-627	-648	-710	
	4560	4057	104	-2220	-2029	-1278	-827	-1904	-1850	3762	4146	4036	10557

F1 Poliestireno Expandido (Durapanel)/Teja de barro, tierra y caña brava pañetada

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	3	3	6	14	23	24	21	17	12	9	8	5	
9	28	29	36	67	104	114	104	82	51	43	39	32	
10	69	71	81	136	207	224	210	167	103	91	84	74	
11	185	188	225	317	435	461	435	368	310	314	286	222	
12	662	671	764	935	1077	1060	1046	991	938	918	855	721	
13	1463	1529	1640	1844	2006	1978	1947	1932	1921	1934	1850	1613	
14	2524	2564	2690	2842	3003	2917	2863	3020	3041	3018	2885	2619	
15	3382	3611	3723	3807	3922	3674	3747	3918	4016	3799	3499	3249	
16	3471	3784	4109	4246	4176	3954	4006	4143	4137	3827	3617	3397	
17	3847	4103	4127	4017	3911	3705	3758	3978	4024	3816	3664	3568	
18	3481	3725	3613	3384	3217	3063	3077	3192	3242	3066	2940	3112	
19	2504	2731	2609	2419	2282	2161	2168	2259	2277	2148	2063	2231	
20	1554	1619	1402	1263	1185	1113	1090	1112	1118	1080	1114	1319	
21	679	696	624	562	548	541	565	543	489	427	459	567	
22	135	158	145	124	122	139	141	112	63	26	0	80	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	23987	25482	25794	25977	26218	25128	25178	25834	25742	24516	23363	22809	300028

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-824	-885	-1103	-1272	-1342	-1245	-1222	-1213	-1141	-868	-824	-814	
1	-1029	-1042	-1184	-1390	-1408	-1390	-1398	-1436	-1405	-1087	-1032	-1031	
2	-1162	-1132	-1294	-1415	-1419	-1419	-1431	-1470	-1437	-1113	-1065	-1105	
3	-1303	-1205	-1396	-1478	-1549	-1448	-1440	-1475	-1445	-1123	-1117	-1257	
4	-1380	-1391	-1498	-1662	-1718	-1643	-1674	-1762	-1649	-1276	-1266	-1371	
5	-1404	-1405	-1515	-1666	-1755	-1757	-1760	-1765	-1655	-1337	-1381	-1389	
6	-1409	-1414	-1505	-1610	-1618	-1611	-1641	-1736	-1734	-1294	-1272	-1394	
7	-1221	-1179	-1278	-1294	-1312	-1298	-1328	-1423	-1406	-967	-932	-1063	
8	-859	-820	-908	-943	-953	-952	-969	-1010	-977	-738	-731	-797	
9	-850	-857	-863	-879	-897	-809	-851	-964	-914	-654	-650	-802	
10	-410	-556	-710	-722	-741	-703	-700	-736	-686	-393	-417	-355	
11	-220	-316	-350	-361	-246	-186	-117	-263	-377	-63	-56	-151	
12	634	527	535	608	747	766	849	715	603	909	931	830	
13	1826	1737	1669	1817	1976	1978	1967	1935	1969	2178	2145	1957	
14	2831	2786	2745	2857	3017	2940	2929	3069	3066	3114	3084	2957	
15	3978	3997	3770	3817	3931	3715	3829	3999	4123	4082	3879	3775	
16	3883	4068	4268	4300	4227	4046	4212	4304	4239	4080	3937	3821	
17	4236	4378	4286	4042	3930	3776	3960	4139	4114	4038	3953	3973	
18	3806	3927	3533	3145	2913	2878	2920	3018	3112	3204	3140	3369	
19	2650	2805	2378	2057	1916	1797	1819	1904	1948	1967	1961	2285	
20	1555	1538	1026	816	679	702	703	733	774	879	965	1220	
21	319	322	159	-24	-53	-42	-14	-35	-53	8	63	187	
22	-260	-255	-360	-521	-534	-492	-471	-499	-519	-421	-423	-328	
23	-564	-523	-728	-945	-1086	-874	-831	-814	-749	-534	-534	-593	
	12823	13105	9677	7277	6705	6729	7341	7215	7801	12591	12358	11924	115546

F2 Poliestireno Expandido (Durapanel) / Teja de barro, mortero y machimbre

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	3	3	6	14	23	24	21	17	12	9	8	5	
9	161	171	247	347	431	422	386	376	399	411	355	237	
10	1124	1143	1361	1671	1812	1709	1673	1708	1724	1674	1537	1256	
11	2843	2985	3239	3663	3857	3732	3694	3783	3850	3876	3704	3188	
12	5191	5273	5544	5864	6104	5827	5780	6202	6316	6265	5987	5407	
13	7061	7555	7815	7975	8140	7588	7768	8197	8444	7963	7319	6777	
14	7243	7910	8623	8900	8709	8259	8359	8671	8685	8018	7571	7093	
15	8074	8616	8668	8434	8226	7799	7913	8365	8467	8028	7704	7493	
16	7352	7875	7644	7166	6840	6519	6551	6780	6877	6511	6229	6578	
17	5350	5832	5577	5182	4911	4656	4664	4852	4883	4618	4436	4776	
18	3367	3501	3033	2742	2594	2443	2391	2424	2426	2348	2429	2867	
19	1480	1515	1357	1227	1203	1194	1242	1186	1060	926	995	1235	
20	294	344	314	271	266	305	308	245	138	56	0	175	
21	0	0	0	0	0	0	0	0	0	0	0	0	
22	0	0	0	0	0	0	0	0	0	0	0	0	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	49543	52723	53428	53456	53116	50477	50750	52806	53281	50703	48274	47087	615644

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-1310	-1337	-1516	-1798	-1812	-1804	-1802	-1801	-1713	-1386	-1328	-1311	
1	-1591	-1490	-1725	-1934	-2076	-1877	-1846	-1869	-1817	-1433	-1439	-1613	
2	-1750	-1733	-1975	-2188	-2194	-2194	-2206	-2246	-2174	-1724	-1659	-1693	
3	-1750	-1733	-1975	-2188	-2194	-2194	-2208	-2250	-2182	-1726	-1659	-1693	
4	-1813	-1834	-1999	-2246	-2304	-2229	-2283	-2446	-2373	-1764	-1705	-1804	
5	-2084	-1989	-2198	-2255	-2341	-2343	-2369	-2448	-2379	-1825	-1848	-1959	
6	-2088	-1997	-2188	-2199	-2204	-2197	-2237	-2366	-2366	-1765	-1739	-1965	
7	-1861	-1864	-1891	-1989	-2106	-1951	-2019	-2219	-2052	-1444	-1468	-1755	
8	-1498	-1505	-1521	-1643	-1816	-1819	-1823	-1811	-1635	-1330	-1479	-1496	
9	-1303	-1301	-1225	-1125	-1041	-1050	-1113	-1208	-1190	-759	-823	-1180	
10	689	553	621	914	1055	975	932	894	941	1410	1372	1057	
11	3162	3191	3386	3652	3838	3747	3816	3880	3943	4084	3966	3536	
12	5553	5508	5694	5916	6153	5913	5974	6359	6417	6515	6355	5860	
13	8015	8083	7871	7980	8145	7666	7902	8321	8650	8597	8102	7771	
14	8143	8551	8960	9013	8816	8440	8787	9009	8888	8492	8214	8042	
15	8946	9246	8982	8543	8329	7975	8313	8682	8664	8486	8303	8310	
16	7954	8239	7674	7166	6840	6567	6614	6796	6927	6900	6700	7112	
17	5806	6182	5606	5152	4878	4639	4692	4867	4876	4674	4613	5205	
18	3755	3827	2945	2504	2290	2234	2202	2243	2272	2315	2475	3015	
19	1422	1436	1111	865	837	829	879	823	731	717	806	1077	
20	100	99	-65	-232	-303	-138	-79	-134	-219	-158	-193	-8	
21	-370	-383	-645	-1037	-1176	-977	-936	-921	-833	-530	-472	-412	
22	-538	-595	-969	-1294	-1308	-1300	-1298	-1298	-1196	-842	-781	-707	
23	-929	-985	-1330	-1490	-1663	-1393	-1334	-1311	-1210	-867	-849	-919	
	34660	36169	31628	28087	26643	25519	26558	27546	28970	34637	33464	32470	366351

F3 Poliestireno Expandido (Durapanel) / Teja de asbesto

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	237	254	377	500	584	550	503	525	621	657	564	364	
8	1886	1917	2290	2754	2887	2674	2631	2768	2905	2834	2602	2115	
9	4884	5141	5593	6276	6488	6213	6157	6426	6662	6711	6405	5499	
10	9039	9186	9689	10224	10530	9983	9889	10764	11065	10965	10466	9430	
11	12403	13285	13765	14052	14237	13201	13543	14399	14902	14041	12896	11916	
12	12812	14002	15276	15775	15366	14491	14726	15344	15412	14219	13422	12556	
13	14340	15313	15422	14995	14576	13800	14021	14869	15071	14271	13685	13300	
14	13039	13976	13583	12722	12120	11575	11618	12031	12215	11554	11048	11663	
15	9492	10349	9894	9192	8737	8296	8309	8619	8671	8201	7875	8477	
16	5997	6240	5410	4900	4670	4408	4315	4355	4344	4210	4344	5112	
17	2687	2750	2469	2247	2227	2212	2292	2182	1948	1715	1837	2254	
18	594	680	619	546	555	627	629	502	299	154	64	380	
19	37	37	32	34	40	45	43	33	23	20	21	31	
20	7	8	7	7	8	9	9	6	4	2	0	5	
21	0	0	0	0	0	0	0	0	0	0	0	0	
22	0	0	0	0	0	0	0	0	0	0	0	0	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	87454	93138	94426	94224	93025	88084	88685	92823	94142	89554	85229	83102	1083886

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-3093	-3162	-3584	-4168	-4191	-4182	-4180	-4180	-3974	-3251	-3132	-3094	
1	-3119	-3182	-3608	-4190	-4219	-4201	-4209	-4247	-4077	-3282	-3150	-3121	
2	-3252	-3272	-3718	-4216	-4230	-4230	-4301	-4530	-4534	-3390	-3184	-3195	
3	-3882	-3630	-4180	-4229	-4230	-4230	-4302	-4535	-4542	-3392	-3255	-3548	
4	-3945	-3732	-4205	-4286	-4340	-4265	-4354	-4633	-4566	-3398	-3301	-3659	
5	-4215	-4203	-4300	-4566	-4908	-4548	-4682	-5062	-4609	-3474	-3631	-4181	
6	-4220	-4212	-4289	-4527	-4946	-4950	-4967	-4989	-4626	-3709	-4065	-4205	
7	-3659	-3646	-3526	-3416	-3350	-3369	-3493	-3714	-3611	-2429	-2602	-3414	
8	-40	-34	344	769	884	670	567	518	684	1576	1436	663	
9	4731	4945	5428	5966	6167	5892	5833	6121	6485	6598	6320	5385	
10	9321	9283	9635	10154	10459	9935	9858	10733	11071	11189	10889	9909	
11	14228	14304	13980	14098	14280	13390	13931	14785	15399	15246	14406	13926	
12	14695	15304	16146	16080	15655	14980	15843	16235	15964	15443	14959	14600	
13	16240	16595	16171	15252	14820	14239	14998	15634	15570	15511	15228	15305	
14	14675	14992	13705	12736	12134	11709	11828	12117	12355	12537	12281	13161	
15	10783	11344	9993	9201	8747	8314	8414	8684	8690	8396	8388	9623	
16	6978	7050	5429	4900	4670	4413	4322	4357	4348	4307	4595	5561	
17	2785	2834	2472	2217	2194	2195	2295	2184	1940	1721	1856	2299	
18	629	709	524	164	91	336	440	321	110	98	31	378	
19	-37	-60	-674	-1481	-1795	-1326	-1232	-1206	-1050	-475	-365	-209	
20	-552	-700	-1559	-2176	-2251	-2154	-2131	-2125	-1928	-1223	-1106	-940	
21	-1303	-1563	-2256	-2614	-2885	-2463	-2367	-2330	-2130	-1429	-1308	-1256	
22	-2147	-2217	-2557	-3073	-3091	-3083	-3082	-3081	-2911	-2325	-2212	-2161	
23	-2316	-2326	-2682	-3154	-3238	-3126	-3103	-3094	-2925	-2350	-2281	-2328	
	59285	61421	52689	45441	42427	39946	41926	43963	47133	58495	56797	55499	605022

F4 Poliestireno Expandido (Durapanel) / Teja termoacústica (Estrutech)

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	38	41	61	87	108	105	94	94	103	105	90	58	
9	303	308	369	467	522	501	485	484	473	455	417	340	
10	778	817	893	1042	1139	1115	1094	1093	1068	1065	1014	872	
11	1432	1452	1528	1657	1788	1740	1715	1776	1746	1728	1653	1492	
12	1958	2088	2153	2236	2358	2242	2290	2334	2329	2202	2033	1886	
13	2028	2201	2380	2478	2518	2432	2448	2460	2402	2226	2106	1980	
14	2225	2368	2381	2340	2361	2303	2305	2357	2323	2207	2119	2068	
15	2023	2155	2085	1980	1969	1914	1905	1904	1885	1797	1725	1819	
16	1500	1625	1548	1460	1447	1397	1391	1397	1365	1299	1252	1346	
17	968	1003	877	811	803	773	750	736	712	695	715	833	
18	459	466	416	387	397	399	407	378	329	294	318	389	
19	112	125	112	102	108	122	121	95	58	34	21	76	
20	7	8	7	7	8	9	9	6	4	2	0	5	
21	0	0	0	0	0	0	0	0	0	0	0	0	
22	0	0	0	0	0	0	0	0	0	0	0	0	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	13831	14657	14810	15054	15526	15052	15014	15114	14797	14109	13463	13164	174591

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-881	-861	-987	-1130	-1174	-1115	-1103	-1098	-1044	-854	-843	-887	
1	-914	-924	-1050	-1214	-1231	-1213	-1222	-1260	-1237	-957	-912	-916	
2	-1047	-1013	-1159	-1240	-1242	-1242	-1254	-1294	-1269	-983	-945	-990	
3	-1047	-1013	-1159	-1240	-1242	-1242	-1262	-1325	-1322	-994	-945	-990	
4	-1177	-1153	-1233	-1299	-1352	-1277	-1314	-1423	-1346	-1000	-999	-1139	
5	-1201	-1167	-1251	-1302	-1388	-1390	-1400	-1425	-1352	-1061	-1114	-1156	
6	-1232	-1224	-1249	-1277	-1309	-1263	-1294	-1388	-1343	-1002	-1029	-1216	
7	-908	-912	-922	-959	-1021	-1009	-1026	-1076	-1018	-706	-730	-810	
8	-511	-516	-491	-504	-501	-505	-523	-540	-492	-349	-389	-489	
9	-36	-41	20	118	173	152	126	94	81	226	228	92	
10	1023	910	838	956	1051	1050	1046	1049	1074	1229	1234	1167	
11	1755	1672	1677	1704	1831	1818	1900	1924	1840	1942	1937	1859	
12	2467	2409	2310	2288	2408	2339	2507	2516	2473	2536	2456	2446	
13	2556	2530	2487	2510	2548	2510	2601	2569	2498	2576	2534	2502	
14	2688	2705	2513	2381	2400	2370	2470	2485	2397	2397	2408	2543	
15	2436	2453	2125	1990	1978	1944	1959	1937	1917	1960	1950	2114	
16	1689	1762	1559	1460	1447	1402	1405	1403	1370	1350	1344	1515	
17	1121	1128	881	781	770	756	752	737	705	707	756	919	
18	499	499	321	148	92	190	218	196	175	237	285	386	
19	38	30	-134	-275	-275	-251	-242	-268	-276	-175	-168	-82	
20	-186	-237	-421	-563	-656	-509	-476	-466	-420	-243	-214	-187	
21	-409	-432	-592	-772	-788	-770	-767	-765	-712	-527	-493	-462	
22	-494	-540	-696	-831	-866	-815	-804	-799	-744	-555	-521	-502	
23	-751	-716	-848	-959	-1032	-921	-898	-889	-838	-673	-683	-763	
	5478	5349	2539	771	621	1009	1399	894	1117	5081	5147	4954	34359

Anexo P. Flujos energéticos anuales para combinación de materiales, casa 4

Ganancias internas

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	1220	1222	1224	1221	1220	1225	1220	1221	1224	1220	1222	1224	
1	1220	1222	1224	1221	1220	1225	1220	1221	1224	1220	1222	1224	
2	1212	1213	1214	1213	1212	1215	1212	1212	1215	1212	1213	1215	
3	1204	1204	1204	1204	1204	1204	1204	1204	1204	1204	1204	1204	
4	1355	1351	1347	1353	1354	1346	1354	1350	1349	1354	1349	1349	
5	1403	1403	1404	1403	1403	1404	1403	1403	1403	1403	1403	1403	
6	1185	1197	1209	1191	1188	1212	1188	1199	1201	1188	1202	1201	
7	1043	1076	1110	1059	1051	1120	1051	1083	1087	1051	1092	1087	
8	836	861	886	848	842	893	842	862	872	842	868	872	
9	800	819	838	809	804	844	804	819	828	804	824	828	
10	682	685	687	683	683	688	683	683	688	683	683	688	
11	856	858	861	857	856	861	856	856	861	856	857	861	
12	966	966	966	966	966	966	966	966	966	966	966	966	
13	1365	1369	1374	1367	1366	1375	1366	1368	1373	1366	1369	1373	
14	1083	1096	1110	1089	1086	1114	1086	1096	1104	1086	1100	1104	
15	694	707	721	700	697	725	697	707	715	697	710	715	
16	694	707	721	700	697	725	697	707	715	697	710	715	
17	694	707	721	700	697	725	697	707	715	697	710	715	
18	720	740	760	729	725	766	725	742	748	725	748	748	
19	1074	1085	1097	1079	1077	1100	1077	1087	1090	1077	1090	1090	
20	1668	1668	1668	1668	1668	1668	1668	1668	1668	1668	1668	1668	
21	1310	1311	1311	1310	1310	1311	1310	1309	1313	1310	1309	1313	
22	1541	1545	1548	1543	1542	1549	1542	1548	1543	1542	1549	1543	
23	1424	1428	1433	1426	1425	1434	1425	1429	1430	1425	1430	1430	
	26249	26440	26638	26339	26293	26695	26293	26447	26536	26293	26498	26536	317257

Perdidas y ganancias por ventilación

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-2333	-2392	-2712	-3150	-3162	-3168	-3162	-3163	-3010	-2460	-2370	-2337	
1	-2333	-2392	-2712	-3150	-3162	-3168	-3217	-3398	-3408	-2531	-2367	-2337	
2	-2926	-2724	-3137	-3147	-3143	-3146	-3203	-3386	-3395	-2524	-2432	-2668	
3	-2909	-2711	-3124	-3141	-3141	-3141	-3196	-3374	-3385	-2521	-2420	-2649	
4	-3372	-3369	-3425	-3649	-3907	-3535	-3674	-4049	-3667	-2722	-2812	-3349	
5	-3104	-3120	-3192	-3384	-3764	-3814	-3774	-3762	-3426	-2776	-3116	-3126	
6	-2469	-2516	-2565	-2488	-2473	-2572	-2521	-2710	-2728	-2002	-2117	-2520	
7	-1064	-1115	-1159	-1093	-1083	-1171	-1119	-1280	-1294	-675	-640	-817	
8	0	-16	-2	-69	-72	-76	-72	-59	0	0	0	0	
9	17	0	0	0	0	0	0	0	0	26	92	83	
10	546	291	24	0	0	41	73	86	147	361	452	606	
11	621	432	291	101	96	162	369	294	182	403	504	675	
12	698	485	326	114	107	181	414	330	204	449	562	753	
13	1064	634	53	0	0	88	113	28	91	707	847	953	
14	705	548	47	0	0	0	46	25	0	88	278	680	
15	339	291	6	0	0	0	0	0	0	22	76	148	
16	16	15	0	0	0	0	0	0	0	0	0	0	
17	0	0	0	-54	-59	-31	0	0	-13	0	0	0	
18	0	-1	-179	-435	-551	-392	-341	-333	-283	-106	-75	-31	
19	-179	-228	-592	-854	-860	-878	-860	-866	-786	-495	-452	-377	
20	-803	-1015	-1540	-1744	-1964	-1616	-1538	-1507	-1365	-868	-785	-753	
21	-1317	-1355	-1542	-1847	-1855	-1854	-1855	-1853	-1757	-1411	-1343	-1318	
22	-1875	-1933	-2203	-2633	-2643	-2650	-2643	-2649	-2498	-2005	-1918	-1877	
23	-2450	-2198	-2588	-2831	-3139	-2677	-2574	-2537	-2396	-1964	-2094	-2521	
	-23128	-24389	-29925	-33454	-34775	-33417	-32734	-34163	-32787	-23004	-22130	-22782	-346688

Ganancias solares directas

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	210	241	378	498	595	575	507	512	601	563	462	297	
7	1204	1302	1696	2031	2425	2421	2341	2297	2236	1977	1714	1333	
8	3247	3257	3362	3528	4049	4058	3956	3855	3846	3747	3622	3214	
9	4388	4486	4299	4109	4652	4741	4988	4519	4534	4327	4306	4272	
10	4167	4312	4063	3730	4262	4601	4701	4125	3958	3608	3518	3613	
11	2633	2796	2695	2396	3090	3500	3392	2758	2240	2098	2085	2312	
12	1926	1683	1254	1187	1721	2122	1990	1402	1137	1539	1802	1976	
13	1961	1773	1320	1414	1916	1990	1891	1541	1211	1444	1672	1892	
14	1635	1500	1196	1420	1672	1715	1678	1498	1130	1212	1361	1525	
15	1217	1069	872	1028	1156	1175	1100	977	774	747	932	1133	
16	642	581	516	586	657	680	668	574	441	365	435	567	
17	150	161	159	174	195	234	220	160	85	32	0	96	
18	0	0	0	0	0	0	0	0	0	0	0	0	
19	0	0	0	0	0	0	0	0	0	0	0	0	
20	0	0	0	0	0	0	0	0	0	0	0	0	
21	0	0	0	0	0	0	0	0	0	0	0	0	
22	0	0	0	0	0	0	0	0	0	0	0	0	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	38890	40542	40520	39065	38645	36796	38227	40534	41614	38486	36712	35918	465949

A1 Tapia pisada / Teja de barro, tierra y caña brava pañetada

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	69	76	118	161	200	190	171	171	196	199	164	105	
9	549	571	720	904	1022	992	956	941	934	867	769	606	
10	1423	1537	1754	2041	2243	2205	2159	2145	2117	2037	1872	1570	
11	2644	2761	3003	3257	3520	3450	3393	3475	3451	3296	3056	2718	
12	3586	3914	4155	4342	4599	4406	4494	4524	4520	4152	3741	3432	
13	3686	4075	4513	4761	4880	4759	4777	4741	4597	4133	3815	3563	
14	3944	4276	4435	4469	4578	4518	4508	4531	4362	4016	3748	3612	
15	3560	3844	3827	3776	3822	3753	3734	3673	3536	3277	3069	3193	
16	2646	2912	2858	2850	2870	2795	2779	2761	2606	2384	2243	2379	
17	1743	1846	1696	1684	1685	1636	1587	1553	1461	1355	1334	1505	
18	904	941	889	878	898	903	917	864	756	649	665	775	
19	302	329	322	315	319	337	335	292	218	160	137	233	
20	81	86	84	81	82	86	85	78	64	52	48	66	
21	16	19	18	16	16	18	18	14	8	3	0	10	
22	0	0	0	0	0	0	0	0	0	0	0	0	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	25153	27187	28392	29535	30734	30048	29913	29763	28826	26580	24661	23767	334559

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-927	-895	-1066	-1209	-1300	-1172	-1144	-1132	-1073	-854	-853	-934	
1	-1065	-1059	-1209	-1395	-1432	-1386	-1380	-1389	-1334	-1071	-1042	-1071	
2	-1116	-1123	-1276	-1454	-1459	-1459	-1464	-1477	-1417	-1139	-1094	-1096	
3	-1162	-1147	-1310	-1475	-1503	-1469	-1479	-1530	-1508	-1159	-1111	-1147	
4	-1319	-1284	-1440	-1539	-1559	-1534	-1562	-1648	-1613	-1217	-1176	-1259	
5	-1382	-1320	-1486	-1542	-1571	-1572	-1595	-1666	-1646	-1244	-1220	-1295	
6	-1480	-1444	-1532	-1582	-1637	-1559	-1601	-1728	-1649	-1227	-1234	-1427	
7	-1394	-1380	-1430	-1503	-1617	-1584	-1605	-1663	-1549	-1181	-1247	-1340	
8	-1224	-1219	-1184	-1191	-1213	-1197	-1238	-1301	-1206	-874	-969	-1182	
9	-396	-380	-236	-68	20	-11	-66	-138	-122	151	52	-225	
10	1112	1169	1341	1592	1792	1762	1712	1675	1684	1801	1658	1319	
11	2632	2704	2926	3133	3394	3335	3310	3369	3336	3298	3114	2781	
12	4019	4156	4219	4349	4604	4446	4590	4616	4637	4440	4115	3921	
13	4261	4438	4679	4815	4931	4864	5005	4924	4742	4513	4295	4181	
14	4606	4722	4671	4548	4653	4653	4817	4781	4533	4410	4258	4322	
15	4173	4249	3966	3819	3863	3847	3924	3807	3638	3645	3529	3763	
16	3112	3239	2931	2868	2887	2836	2874	2826	2650	2573	2527	2829	
17	2134	2144	1710	1675	1674	1638	1604	1560	1466	1446	1496	1772	
18	1077	1082	864	799	797	834	859	807	705	644	701	878	
19	346	355	241	164	164	199	215	172	102	95	89	209	
20	20	7	-138	-320	-406	-268	-233	-231	-208	-79	-57	-12	
21	-183	-204	-424	-651	-688	-634	-619	-619	-570	-371	-338	-282	
22	-357	-424	-677	-860	-940	-820	-794	-784	-713	-467	-424	-390	
23	-660	-685	-878	-1045	-1095	-1022	-1007	-1001	-935	-708	-681	-687	
	14827	15701	13262	11928	12359	12727	13123	12230	11950	15425	14388	13628	161548

A2 Tapia pisada / Teja de barro, mortero y machimbre

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	110	112	108	103	116	119	124	111	114	110	109	108	
1	108	112	106	98	111	120	122	106	104	96	94	95	
2	74	78	76	70	88	99	96	79	67	63	62	67	
3	58	52	42	43	59	69	65	49	41	51	57	60	
4	65	61	50	55	69	70	67	58	49	54	59	64	
5	59	57	50	57	63	62	62	58	48	48	51	55	
6	47	43	37	41	44	43	41	38	32	31	36	43	
7	25	24	22	23	25	25	25	22	18	15	17	22	
8	8	9	10	13	22	27	23	15	9	7	5	7	
9	270	298	457	618	765	733	663	656	751	760	630	406	
10	2031	2108	2646	3311	3675	3523	3425	3429	3414	3166	2814	2228	
11	5108	5522	6244	7235	7766	7552	7441	7539	7480	7222	6666	5628	
12	9126	9574	10452	11344	12020	11593	11494	12074	12021	11437	10564	9392	
13	12289	13517	14465	15173	15746	14850	15169	15719	15776	14387	12855	11715	
14	12612	14063	15762	16723	16691	16000	16130	16461	16067	14366	13197	12253	
15	13833	15039	15643	15682	15578	15028	15162	15710	15431	14139	13176	12644	
16	12414	13554	13589	13184	12853	12400	12423	12613	12421	11353	10539	10997	
17	8869	9920	9786	9450	9174	8812	8801	8984	8773	7952	7404	7881	
18	5454	5860	5346	5067	4897	4675	4553	4555	4440	4113	4034	4623	
19	2493	2645	2490	2348	2348	2348	2423	2290	2010	1696	1736	2076	
20	555	662	627	565	571	644	647	518	304	143	48	343	
21	16	19	18	16	16	18	18	14	8	3	0	10	
22	5	6	9	12	15	14	13	12	15	14	12	8	
23	31	33	43	50	59	59	57	56	55	50	44	34	
	85660	93368	98078	101281	102771	98883	99044	101166	99448	91276	84209	80759	1135943

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-1392	-1437	-1683	-2031	-2057	-2012	-1997	-2006	-1896	-1486	-1406	-1386	
1	-1845	-1695	-2033	-2283	-2494	-2163	-2094	-2094	-1996	-1579	-1622	-1888	
2	-1968	-2013	-2314	-2704	-2696	-2680	-2667	-2704	-2602	-2077	-1985	-1952	
3	-2030	-2063	-2383	-2751	-2769	-2720	-2702	-2740	-2639	-2093	-2007	-2009	
4	-2070	-2133	-2443	-2810	-2824	-2794	-2847	-3022	-2999	-2201	-2063	-2068	
5	-2521	-2384	-2760	-2819	-2843	-2844	-2888	-3040	-3036	-2262	-2183	-2329	
6	-2590	-2437	-2807	-2823	-2827	-2818	-2873	-3043	-3048	-2262	-2178	-2401	
7	-2701	-2689	-2766	-2921	-3106	-2858	-2956	-3242	-2978	-2187	-2242	-2640	
8	-2618	-2620	-2661	-2849	-3144	-3118	-3129	-3146	-2871	-2316	-2560	-2618	
9	-2311	-2285	-2147	-2029	-1926	-1941	-2049	-2188	-2070	-1345	-1547	-2142	
10	689	702	1162	1798	2161	2017	1880	1743	1740	2252	1988	1207	
11	5055	5402	6098	6949	7460	7273	7197	7291	7305	7175	6652	5624	
12	9231	9598	10427	11259	11932	11520	11459	12029	11975	11502	10754	9611	
13	13392	14081	14458	15087	15660	14852	15250	15813	15985	15093	13766	12930	
14	13795	14855	16190	16799	16746	16198	16712	16912	16329	15085	14128	13533	
15	15003	15826	16083	15748	15633	15211	15739	16142	15657	14825	14071	13870	
16	13379	14104	13581	13077	12744	12380	12464	12566	12412	11948	11285	11874	
17	9597	10440	9730	9314	9038	8689	8729	8876	8643	8006	7670	8557	
18	6031	6328	5205	4862	4670	4480	4367	4362	4253	4042	4091	4846	
19	2445	2587	2284	2099	2097	2099	2174	2034	1765	1530	1591	1945	
20	368	458	364	160	119	299	363	223	14	-35	-125	156	
21	-240	-245	-599	-1137	-1373	-1048	-978	-955	-846	-462	-408	-313	
22	-517	-594	-1153	-1612	-1651	-1607	-1602	-1605	-1467	-957	-882	-790	
23	-912	-1072	-1566	-1789	-1977	-1668	-1603	-1585	-1448	-940	-875	-885	
	65270	70714	68267	66594	66573	64747	65949	66621	66182	69256	63913	60732	794818

A3 Tapia pisada / Teja de asbesto

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	110	112	108	103	116	119	124	111	114	110	109	108	
1	108	112	106	98	111	120	122	106	104	96	94	95	
2	74	78	76	70	88	99	96	79	67	63	62	67	
3	58	52	42	43	59	69	65	49	41	51	57	60	
4	65	61	50	55	69	70	67	58	49	54	59	64	
5	59	57	50	57	63	62	62	58	48	48	51	55	
6	47	43	37	41	44	43	41	38	32	31	36	43	
7	482	531	810	1086	1291	1201	1095	1135	1327	1340	1112	720	
8	3577	3714	4663	5831	6378	6058	5911	6014	6016	5567	4948	3918	
9	8979	9717	10990	12734	13562	13110	12949	13250	13180	12717	11736	9899	
10	16079	16875	18433	19994	21075	20263	20096	21267	21227	20180	18637	16558	
11	21725	23912	25593	26813	27703	26061	26660	27744	27921	25444	22723	20701	
12	22287	24867	27894	29528	29371	28071	28360	29015	28423	25397	23332	21656	
13	24453	26603	27684	27661	27404	26428	26665	27680	27282	25002	23300	22343	
14	21977	24011	24064	23259	22671	21889	21905	22233	21958	20100	18653	19458	
15	15690	17559	17320	16707	16265	15624	15615	15909	15518	14086	13111	13945	
16	9667	10382	9466	9015	8753	8368	8142	8114	7864	7293	7157	8199	
17	4465	4736	4450	4235	4270	4284	4406	4147	3622	3053	3121	3721	
18	1035	1227	1174	1088	1109	1246	1249	1013	618	320	140	658	
19	107	111	117	122	121	119	117	114	106	95	91	99	
20	65	68	66	62	62	62	63	61	55	48	48	56	
21	16	19	18	16	16	18	18	14	8	3	0	10	
22	5	6	9	12	15	14	13	12	15	14	12	8	
23	31	33	43	50	59	59	57	56	55	50	44	34	
	151161	164886	173263	178680	180675	173457	173898	178277	175650	161162	148633	142475	2002217

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-4516	-4634	-5304	-6183	-6223	-6178	-6164	-6173	-5856	-4752	-4567	-4510	
1	-4523	-4659	-5331	-6236	-6248	-6235	-6234	-6261	-5957	-4817	-4620	-4531	
2	-4599	-4708	-5368	-6255	-6262	-6246	-6336	-6706	-6737	-4995	-4657	-4583	
3	-5765	-5386	-6247	-6326	-6335	-6285	-6371	-6742	-6774	-5011	-4804	-5260	
4	-5805	-5456	-6306	-6385	-6389	-6360	-6475	-6853	-6841	-5063	-4860	-5319	
5	-6255	-6264	-6442	-6868	-7340	-6707	-6940	-7619	-6944	-5150	-5308	-6221	
6	-6324	-6317	-6488	-6900	-7631	-7639	-7653	-7640	-7007	-5668	-6252	-6326	
7	-5810	-5746	-5503	-5234	-5040	-5130	-5348	-5668	-5486	-3740	-4124	-5488	
8	207	311	1258	2395	2922	2630	2372	2112	2129	3387	2946	1380	
9	8694	9369	10676	12121	12888	12453	12294	12648	12833	12464	11475	9633	
10	15993	16671	18153	19683	20763	19959	19794	20955	20934	20119	18840	16724	
11	24310	25216	25566	26628	27506	26087	26881	28003	28454	27143	24895	23608	
12	25058	26761	29129	29884	29702	28704	29941	30258	29167	27168	25570	24661	
13	27214	28487	28891	28018	27736	27060	28223	28897	28004	26771	25541	25330	
14	24448	25461	24115	23162	22562	22005	22106	22243	22111	21710	20617	21700	
15	17593	18985	17384	16599	16156	15531	15676	15900	15434	14313	13856	15747	
16	11294	11714	9439	8907	8645	8271	8084	8042	7777	7374	7517	8927	
17	4567	4789	4348	4099	4133	4160	4289	4014	3492	3018	3110	3725	
18	993	1175	1022	631	603	907	1063	820	371	209	58	617	
19	31	20	-895	-2146	-2705	-1893	-1730	-1676	-1443	-571	-398	-176	
20	-763	-948	-2278	-3286	-3350	-3296	-3291	-3304	-2993	-1900	-1725	-1467	
21	-1875	-2311	-3421	-3900	-4366	-3651	-3485	-3424	-3118	-2035	-1873	-1792	
22	-3336	-3435	-3936	-4728	-4774	-4730	-4725	-4729	-4471	-3555	-3390	-3338	
23	-3342	-3421	-3934	-4704	-4736	-4704	-4702	-4708	-4452	-3537	-3383	-3354	
	107489	115674	108528	102976	102217	98713	101269	102389	102627	112882	104464	99687	1258915

A4 Tapia pisada / Teja termoacústica (Estrutech)

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	110	112	108	103	116	119	124	111	114	110	109	108	
1	108	112	106	98	111	120	122	106	104	96	94	95	
2	74	78	76	70	88	99	96	79	67	63	62	67	
3	58	52	42	43	59	69	65	49	41	51	57	60	
4	65	61	50	55	69	70	67	58	49	54	59	64	
5	59	57	50	57	63	62	62	58	48	48	51	55	
6	47	43	37	41	44	43	41	38	32	31	36	43	
7	25	24	22	23	25	25	25	22	18	15	17	22	
8	75	83	125	168	207	198	179	177	200	200	164	109	
9	535	555	695	872	983	955	923	908	894	830	738	586	
10	1340	1449	1641	1907	2086	2047	2007	1998	1970	1904	1756	1479	
11	2428	2545	2781	3025	3259	3186	3137	3228	3197	3046	2815	2503	
12	3294	3616	3869	4070	4292	4090	4166	4229	4217	3859	3451	3145	
13	3399	3779	4231	4501	4585	4440	4453	4458	4320	3877	3565	3311	
14	3747	4068	4233	4284	4343	4256	4254	4321	4185	3849	3584	3434	
15	3405	3705	3716	3660	3667	3569	3561	3543	3427	3141	2916	3033	
16	2472	2749	2724	2703	2686	2609	2601	2607	2477	2242	2087	2210	
17	1587	1696	1563	1532	1518	1470	1423	1399	1334	1227	1199	1359	
18	781	827	790	770	782	788	808	764	670	567	568	660	
19	235	266	263	253	253	271	269	234	170	120	91	174	
20	65	68	66	62	62	62	63	61	55	48	48	56	
21	16	19	18	16	16	18	18	14	8	3	0	10	
22	5	6	9	12	15	14	13	12	15	14	12	8	
23	31	33	43	50	59	59	57	56	55	50	44	34	
	23961	26003	27258	28375	29388	28639	28534	28530	27667	25445	23523	22625	319948

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-640	-604	-755	-861	-938	-806	-773	-775	-724	-553	-557	-644	
1	-660	-703	-849	-1023	-1014	-1001	-1000	-1027	-980	-745	-699	-668	
2	-736	-752	-886	-1042	-1028	-1012	-999	-1035	-1016	-779	-736	-721	
3	-799	-802	-954	-1089	-1101	-1051	-1045	-1119	-1133	-811	-757	-778	
4	-956	-939	-1101	-1151	-1156	-1126	-1149	-1229	-1201	-862	-826	-903	
5	-975	-945	-1101	-1150	-1174	-1175	-1191	-1248	-1238	-923	-898	-922	
6	-1091	-1083	-1162	-1207	-1259	-1181	-1220	-1331	-1257	-926	-933	-1088	
7	-1033	-1020	-1068	-1118	-1205	-1207	-1216	-1239	-1167	-895	-951	-985	
8	-883	-878	-837	-825	-806	-786	-824	-892	-837	-573	-636	-844	
9	-76	-62	57	191	260	248	207	155	170	372	293	84	
10	1188	1238	1360	1569	1744	1713	1675	1661	1677	1740	1606	1324	
11	2382	2448	2637	2840	3063	3016	3003	3068	3023	3010	2838	2533	
12	3657	3791	3856	3984	4204	4038	4169	4228	4247	4070	3736	3550	
13	3757	3994	4313	4462	4543	4441	4568	4525	4336	4086	3854	3697	
14	4165	4328	4302	4234	4279	4252	4376	4406	4223	4071	3892	3886	
15	3772	3909	3675	3553	3558	3496	3533	3478	3365	3311	3157	3344	
16	2712	2902	2683	2596	2577	2512	2556	2542	2390	2243	2169	2447	
17	1783	1820	1463	1397	1381	1346	1305	1267	1204	1204	1226	1436	
18	747	784	638	564	555	593	622	571	484	456	487	619	
19	159	180	57	-23	-28	6	21	-22	-82	-46	-54	43	
20	-122	-136	-284	-460	-556	-415	-392	-398	-351	-184	-162	-147	
21	-309	-330	-506	-672	-693	-686	-680	-683	-634	-455	-444	-400	
22	-441	-497	-675	-801	-877	-757	-734	-731	-675	-454	-426	-432	
23	-601	-600	-722	-858	-873	-841	-839	-845	-796	-599	-583	-613	
	15000	16043	14141	13110	13456	13617	13973	13327	13028	15758	14596	13818	169867

B1 Ladrillo macizo (temoza) / Teja de barro, tierra y caña brava pañetada

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)
0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	2	2	3	6	15	18	15	9	5	5	5	3
9	14	14	16	22	55	74	63	32	18	18	17	15
10	31	32	39	52	114	144	126	68	49	51	45	36
11	471	523	775	1007	1265	1273	1135	1056	1203	1173	979	654
12	2647	2797	3518	4237	4933	4900	4737	4584	4527	4136	3652	2906
13	6621	6818	7295	7954	8852	8837	8615	8427	8473	8271	7842	6850
14	9980	10296	10496	10704	11745	11745	11908	11506	11557	11091	10627	9997
15	11382	12142	12306	12279	13267	13298	13534	12988	12856	11784	10919	10449
16	9801	10682	11397	11564	12503	12688	12607	11908	11062	10047	9437	9259
17	9550	9823	9574	9691	10390	10670	10508	9969	9435	9325	9179	9074
18	9203	9539	9006	9039	9574	9399	9255	8898	8352	8091	7959	8436
19	7147	7533	7143	7337	7467	7272	7232	7144	6539	6175	6054	6484
20	4903	4911	4376	4418	4474	4353	4180	4012	3687	3456	3714	4339
21	2411	2408	2241	2231	2312	2336	2359	2155	1815	1528	1651	2064
22	535	618	611	586	611	712	691	528	296	119	0	327
23	0	0	0	0	0	0	0	0	0	0	0	0
	74698	78138	78796	81127	87577	87719	86965	83284	79874	75270	72080	70893
												956421

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)
0	-1444	-1747	-2581	-2928	-3302	-2756	-2631	-2579	-2375	-1556	-1420	-1377
1	-2519	-2584	-2928	-3518	-3537	-3537	-3541	-3554	-3395	-2712	-2574	-2519
2	-2562	-2609	-2960	-3519	-3537	-3537	-3541	-3554	-3395	-2712	-2579	-2543
3	-3409	-3050	-3573	-3900	-4320	-3717	-3593	-3561	-3406	-2767	-2891	-3457
4	-3530	-3602	-4056	-4680	-4715	-4690	-4701	-4491	-3649	-3649	-3527	-3521
5	-3530	-3602	-4056	-4681	-4727	-4728	-4733	-4750	-4524	-3675	-3564	-3523
6	-3582	-3640	-4087	-4669	-4692	-4683	-4767	-5038	-5043	-3756	-3538	-3560
7	-4246	-3972	-4547	-4576	-4587	-4588	-4669	-4929	-4934	-3653	-3516	-3853
8	-4143	-3885	-4427	-4472	-4482	-4453	-4540	-4810	-4791	-3566	-3444	-3799
9	-4388	-4391	-4467	-4744	-5055	-4592	-4765	-5261	-4784	-3547	-3674	-4342
10	-4223	-4272	-4388	-4670	-5118	-5093	-5109	-5140	-4702	-3762	-4175	-4207
11	-3664	-3647	-3419	-3219	-2962	-2942	-3122	-3461	-3348	-2159	-2438	-3412
12	658	733	1412	2087	2782	2762	2566	2169	2092	2887	2560	1513
13	6757	6859	7316	7778	8662	8659	8454	8291	8493	8363	7964	6990
14	10246	10436	10525	10711	11751	11764	11952	11545	11598	11272	11027	10454
15	13444	13276	12443	12297	13285	13467	13854	13337	13389	13111	12587	12673
16	11832	12095	12337	11892	12815	13213	13811	12866	11650	11349	11073	11451
17	11560	11213	10464	9992	10673	11169	11654	10876	9997	10619	10798	11216
18	10923	10573	9061	8960	9473	9467	9374	8885	8441	9188	9302	9978
19	8443	8519	7144	7214	7342	7149	7193	7067	6429	6267	6502	7665
20	5951	5764	4259	4247	4278	4197	4032	3868	3558	3451	3894	4750
21	2333	2321	2068	2005	2083	2114	2142	1938	1609	1372	1503	1922
22	389	462	389	103	77	318	408	247	-3	-58	-162	177
23	-238	-233	-880	-1799	-2212	-1610	-1488	-1441	-1253	-606	-496	-372
	41058	41017	31049	25911	29975	33353	34240	28280	26812	39701	39212	38304
												408912

B2 Ladrillo macizo (temoza) / Teja de barro, mortero y machimbre

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	2	2	3	6	15	18	15	9	5	5	5	3	
9	270	298	457	618	765	733	663	656	751	760	630	406	
10	2031	2108	2646	3311	3675	3523	3425	3429	3414	3166	2814	2228	
11	5373	5825	6715	7848	8498	8266	8072	8168	8232	7938	7256	6007	
12	10696	11255	12595	13874	15000	14580	14372	14878	14807	13946	12764	11130	
13	16379	17607	18685	19558	20697	19859	20027	20409	20584	19115	17424	15788	
14	18157	19707	21188	21889	22515	21983	22356	22058	21806	19920	18711	17694	
15	19280	20666	20987	20612	21175	21076	21297	21071	20694	19000	17903	17435	
16	16156	17493	17437	16695	17310	17376	17247	16584	15778	14522	13654	14373	
17	11805	12558	11890	11639	12130	12307	12079	11454	10840	10538	10300	10913	
18	8754	8953	7890	7854	8393	8213	7932	7475	6886	6811	6988	7833	
19	5454	5497	5009	5236	5513	5495	5531	5213	4417	4123	4299	4840	
20	2900	2824	2501	2624	2772	2831	2717	2417	1927	1685	1880	2518	
21	1288	1215	1124	1183	1263	1287	1274	1130	918	774	876	1133	
22	304	338	347	349	371	438	416	312	179	74	0	192	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	118849	126346	129474	133296	140092	137985	137423	135263	131238	122377	115504	112493	1540340

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-2294	-2539	-3304	-3849	-4126	-3735	-3646	-3609	-3378	-2464	-2303	-2247	
1	-3503	-3368	-3876	-4472	-4707	-4389	-4325	-4312	-4116	-3318	-3288	-3538	
2	-3592	-3662	-4153	-4874	-4896	-4896	-4900	-4913	-4686	-3782	-3619	-3573	
3	-4192	-3975	-4587	-5144	-5451	-5023	-4937	-4919	-4697	-3822	-3840	-4220	
4	-4288	-4378	-4935	-5702	-5741	-5717	-5768	-5929	-5759	-4504	-4296	-4279	
5	-4720	-4624	-5252	-5713	-5753	-5754	-5801	-5948	-5791	-4530	-4382	-4523	
6	-4772	-4662	-5284	-5701	-5719	-5709	-5812	-6141	-6150	-4580	-4356	-4560	
7	-5366	-5172	-5621	-5792	-5979	-5731	-5879	-6324	-6066	-4488	-4454	-5065	
8	-5263	-5085	-5501	-5699	-5994	-5971	-6036	-6213	-5943	-4603	-4755	-5024	
9	-5159	-5133	-5029	-5070	-5171	-4895	-5119	-5578	-5143	-3633	-3918	-4971	
10	-2145	-2130	-1692	-1233	-1223	-1376	-1513	-1623	-1325	-261	-816	-1612	
11	2507	2900	3788	4788	5430	5210	4997	4925	5048	5630	4898	3203	
12	9391	9855	11155	12389	13513	13107	12887	13221	13135	13152	12183	10341	
13	17548	18209	18752	19438	20568	19818	20065	20485	20881	19891	18402	17069	
14	19462	20579	21710	22069	22685	22279	23033	22602	22157	20762	19890	19223	
15	21824	22229	21593	20803	21357	21480	22173	21833	21383	20633	19954	20169	
16	18522	19046	18149	16928	17530	17825	18199	17288	16273	16064	15557	16757	
17	13934	14080	12554	11844	12322	12653	12920	12107	11230	11541	11722	13097	
18	10585	10206	7930	7775	8292	8239	7997	7448	6932	7607	8060	9184	
19	6391	6213	4985	5113	5388	5372	5467	5123	4307	4167	4594	5650	
20	3606	3390	2378	2356	2466	2618	2570	2273	1774	1658	1984	2783	
21	1193	1110	635	167	26	374	431	312	202	422	594	935	
22	-93	-136	-690	-1271	-1304	-1127	-1070	-1170	-1197	-796	-789	-481	
23	-878	-1042	-1934	-2754	-3222	-2518	-2369	-2311	-2060	-1191	-1049	-942	
	78698	81911	71771	66396	70291	72134	73564	68627	67011	79555	75973	73376	879307

B3 Ladrillo macizo (temoza) / Teja de asbesto

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	457	508	788	1063	1266	1176	1070	1113	1309	1325	1095	698	
8	3571	3707	4656	5824	6371	6049	5903	6008	6012	5566	4948	3915	
9	8979	9717	10990	12734	13562	13110	12949	13250	13180	12717	11736	9899	
10	16079	16875	18433	19994	21075	20263	20096	21267	21227	20180	18637	16558	
11	21990	24215	26064	27425	28435	26776	27290	28373	28673	26160	23313	21079	
12	23858	26548	30037	32058	32351	31057	31238	31818	31209	27906	25532	23394	
13	28544	30693	31903	32047	32355	31436	31523	32369	32090	29730	27869	26417	
14	27522	29655	29489	28425	28494	27872	28131	27830	27698	25654	24167	24899	
15	21136	23186	22665	21637	21862	21673	21750	21270	20782	18947	17837	18736	
16	13409	14321	13314	12526	13210	13343	12965	12085	11220	10462	10272	11575	
17	7401	7374	6554	6424	7225	7779	7684	6617	5689	5638	6017	6753	
18	4334	4320	3718	3875	4605	4783	4628	3933	3064	3019	3094	3868	
19	3068	2962	2636	3011	3285	3267	3225	3038	2513	2522	2654	2864	
20	2410	2230	1939	2121	2263	2249	2133	1960	1679	1590	1880	2231	
21	1288	1215	1124	1183	1263	1287	1274	1130	918	774	876	1133	
22	304	338	347	349	371	438	416	312	179	74	0	192	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	184350	197864	204657	210696	217993	212558	212275	212373	207442	192264	179927	174211	2406610

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-5418	-5736	-6926	-8002	-8292	-7902	-7812	-7776	-7338	-5730	-5464	-5371	
1	-6180	-6333	-7175	-8424	-8461	-8461	-8465	-8478	-8076	-6556	-6286	-6180	
2	-6224	-6357	-7207	-8425	-8461	-8461	-8569	-8915	-8820	-6700	-6291	-6205	
3	-7927	-7298	-8451	-8718	-9016	-8589	-8606	-8922	-8831	-6740	-6637	-7471	
4	-8023	-7702	-8799	-9277	-9307	-9282	-9396	-9760	-9602	-7366	-7093	-7530	
5	-8455	-8504	-8934	-9762	-10251	-9617	-9852	-10526	-9699	-7419	-7507	-8415	
6	-8507	-8542	-8965	-9778	-10522	-10531	-10593	-10738	-10109	-7987	-8429	-8485	
7	-8475	-8230	-8357	-8105	-7913	-8004	-8272	-8750	-8574	-6041	-6337	-7913	
8	-2437	-2154	-1582	-455	72	-223	-534	-954	-943	1099	751	-1027	
9	5846	6520	7794	9081	9642	9498	9224	9257	9760	10176	9105	6804	
10	13159	13839	15298	16651	17380	16567	16401	17588	17868	17607	16036	13905	
11	21762	22715	23256	24468	25477	24024	24680	25638	26196	25598	23141	21187	
12	25217	27018	29857	31014	31282	30292	31369	31450	30328	28818	26999	25391	
13	31370	32616	33185	32369	32644	32026	33038	33570	32900	31570	30178	29469	
14	30115	31186	29635	28432	28501	28086	28427	27932	27939	27387	26379	27389	
15	24415	25387	22894	21655	21880	21800	22110	21591	21161	20121	19740	22046	
16	16436	16655	14008	12759	13431	13716	13819	12764	11637	11490	11788	13810	
17	8903	8429	7172	6629	7418	8125	8480	7245	6080	6554	7162	8265	
18	5547	5053	3748	3544	4225	4665	4693	3906	3050	3774	4027	4955	
19	3977	3646	1806	868	586	1381	1563	1413	1100	2066	2605	3529	
20	2474	1984	-263	-1091	-1003	-977	-1084	-1254	-1232	-206	384	1161	
21	-442	-956	-2187	-2596	-2967	-2229	-2076	-2157	-2070	-1151	-872	-543	
22	-2912	-2977	-3472	-4387	-4428	-4251	-4193	-4294	-4201	-3394	-3297	-3028	
23	-3308	-3391	-4302	-5670	-5981	-5554	-5467	-5434	-5064	-3789	-3557	-3411	
	120913	126868	112033	102780	105936	106099	108885	104396	103460	123181	116525	112332	1343408

B4 Ladrillo macizo (temoza) / Teja termoacústica (Estrutech)

Ganancias solares indirectas (sol-aire)

HOUR	Calendar solar hours totals (see also)												
	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	69	76	118	161	200	190	171	171	196	199	164	105	
9	535	555	695	872	983	955	923	908	894	830	738	586	
10	1340	1449	1641	1907	2086	2047	2007	1998	1970	1904	1756	1479	
11	2693	2848	3252	3638	3991	3900	3768	3857	3949	3762	3405	2882	
12	4865	5297	6012	6600	7272	7077	7043	7032	7003	6367	5651	4883	
13	7490	7869	8451	8886	9536	9449	9311	9147	9127	8605	8134	7384	
14	9292	9712	9658	9450	10167	10239	10480	9918	9925	9403	9098	8876	
15	8852	9332	9061	8591	9264	9618	9697	8904	8690	8002	7643	7824	
16	6214	6688	6572	6214	7142	7584	7424	6578	5834	5411	5202	5586	
17	4522	4333	3667	3722	4473	4965	4701	3869	3401	3813	4095	4391	
18	4080	3920	3333	3557	4278	4326	4187	3684	3117	3266	3523	3870	
19	3196	3117	2782	3142	3418	3418	3377	3157	2577	2547	2654	2939	
20	2410	2230	1939	2121	2263	2249	2133	1960	1679	1590	1880	2231	
21	1288	1215	1124	1183	1263	1287	1274	1130	918	774	876	1133	
22	304	338	347	349	371	438	416	312	179	74	0	192	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	57150	58979	58652	60393	66707	67742	66912	62625	59459	56547	54819	54361	724346

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-1542	-1706	-2377	-2679	-3007	-2530	-2422	-2378	-2206	-1532	-1454	-1505	
1	-2317	-2376	-2693	-3211	-3227	-3227	-3231	-3245	-3100	-2484	-2365	-2317	
2	-2361	-2401	-2725	-3212	-3227	-3227	-3231	-3245	-3100	-2484	-2370	-2342	
3	-2961	-2714	-3159	-3482	-3783	-3355	-3280	-3298	-3191	-2540	-2590	-2989	
4	-3175	-3184	-3593	-4043	-4073	-4048	-4070	-4137	-3961	-3165	-3059	-3114	
5	-3175	-3184	-3593	-4044	-4085	-4086	-4103	-4155	-3993	-3191	-3097	-3115	
6	-3273	-3308	-3639	-4084	-4151	-4073	-4160	-4429	-4359	-3244	-3111	-3248	
7	-3698	-3504	-3923	-3989	-4078	-4080	-4139	-4321	-4255	-3197	-3163	-3410	
8	-3528	-3342	-3677	-3675	-3656	-3640	-3731	-3958	-3909	-2860	-2830	-3251	
9	-2924	-2910	-2825	-2849	-2986	-2707	-2863	-3235	-2903	-1916	-2078	-2745	
10	-1646	-1593	-1495	-1463	-1639	-1679	-1717	-1705	-1388	-772	-1199	-1495	
11	-166	-53	327	680	1033	953	802	703	765	1466	1085	112	
12	3816	4048	4584	5115	5785	5625	5597	5420	5407	5720	5165	4280	
13	7914	8123	8607	8814	9451	9407	9383	9198	9232	8885	8491	7836	
14	9832	10052	9822	9504	10218	10333	10697	10095	10051	9748	9655	9575	
15	10593	10311	9185	8609	9282	9766	9967	9168	9091	9119	9041	9643	
16	7854	7843	7251	6447	7363	7957	8291	7265	6251	6359	6441	7331	
17	6120	5461	4288	3927	4666	5311	5497	4498	3791	4740	5278	5976	
18	5301	4661	3363	3478	4176	4351	4251	3657	3163	4021	4456	4957	
19	4105	3806	2758	2991	3263	3280	3313	3067	2461	2591	2949	3748	
20	3116	2795	1731	1735	1791	1904	1815	1652	1410	1510	1947	2481	
21	1125	1025	728	632	706	736	728	585	414	429	557	849	
22	-17	-39	-211	-460	-530	-277	-203	-296	-405	-292	-333	-122	
23	-566	-570	-1090	-1823	-2118	-1691	-1604	-1571	-1409	-850	-757	-670	
	28427	27241	17644	12918	17174	21003	21587	15335	13857	26061	26659	26465	25437

C1 Ladrillo perforado (estructural) / Teja de barro, tierra y caña brava pañetada

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	2	2	3	6	15	18	15	9	5	5	5	3	
9	14	14	16	22	55	74	63	32	18	18	17	15	
10	31	32	39	52	114	144	126	68	49	51	45	36	
11	286	312	446	580	755	775	695	618	679	674	568	390	
12	1552	1624	2023	2473	2855	2817	2731	2629	2584	2386	2118	1694	
13	3769	3966	4353	4896	5399	5344	5228	5157	5121	4973	4655	4009	
14	6113	6360	6712	7101	7684	7573	7566	7603	7554	7218	6782	6202	
15	7583	8218	8578	8841	9364	9080	9255	9249	9186	8394	7622	7108	
16	7191	7935	8714	9115	9395	9218	9243	9139	8721	7837	7264	6905	
17	7502	7984	8106	8164	8329	8232	8222	8247	7993	7522	7160	6960	
18	6902	7382	7232	7095	7137	6932	6898	6862	6646	6209	5899	6197	
19	5082	5545	5386	5323	5260	5077	5065	5105	4860	4482	4266	4556	
20	3268	3404	3069	2982	2939	2828	2736	2688	2555	2381	2436	2822	
21	1524	1575	1470	1417	1442	1451	1484	1376	1180	990	1040	1280	
22	323	382	369	343	352	407	401	310	171	67	0	193	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	51142	54735	56516	58410	61095	59970	59728	59092	57322	53207	49877	48370	669464

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-1186	-1424	-2087	-2368	-2664	-2232	-2133	-2092	-1928	-1274	-1166	-1134	
1	-2032	-2084	-2362	-2836	-2851	-2851	-2855	-2868	-2742	-2187	-2076	-2032	
2	-2075	-2109	-2394	-2837	-2851	-2851	-2855	-2868	-2742	-2187	-2081	-2056	
3	-2741	-2456	-2876	-3136	-3467	-2992	-2896	-2874	-2753	-2232	-2326	-2775	
4	-2844	-2900	-3260	-3754	-3785	-3760	-3771	-3802	-3607	-2925	-2830	-2835	
5	-2844	-2900	-3260	-3755	-3797	-3798	-3804	-3820	-3640	-2952	-2867	-2837	
6	-2896	-2938	-3291	-3743	-3763	-3753	-3821	-4039	-4041	-3010	-2841	-2874	
7	-3385	-3169	-3622	-3647	-3658	-3658	-3723	-3930	-3932	-2907	-2799	-3069	
8	-3282	-3082	-3502	-3542	-3553	-3523	-3594	-3811	-3789	-2820	-2728	-3015	
9	-3459	-3462	-3521	-3737	-3978	-3615	-3752	-4143	-3772	-2796	-2898	-3417	
10	-3294	-3342	-3442	-3659	-3992	-3964	-3980	-4019	-3682	-2930	-3248	-3277	
11	-2919	-2928	-2818	-2716	-2543	-2511	-2616	-2901	-2871	-1908	-2073	-2751	
12	45	47	405	810	1191	1167	1062	770	709	1441	1299	652	
13	3904	4017	4374	4761	5254	5210	5110	5057	5140	5066	4777	4149	
14	6369	6500	6741	7108	7690	7592	7610	7642	7596	7382	7125	6609	
15	9227	9130	8697	8859	9381	9218	9519	9531	9606	9444	8944	8870	
16	8795	9052	9453	9374	9640	9632	10190	9893	9184	8862	8554	8635	
17	9086	9078	8797	8395	8546	8619	9111	8950	8429	8538	8432	8640	
18	8250	8195	7269	7016	7035	6969	6978	6839	6703	7056	6942	7406	
19	6095	6313	5369	5199	5135	4954	5008	5019	4750	4539	4602	5465	
20	4065	4046	2948	2811	2743	2672	2589	2544	2426	2360	2560	3127	
21	1434	1476	1297	1191	1214	1229	1267	1159	974	834	892	1139	
22	177	226	147	-101	-137	35	117	30	-119	-110	-162	43	
23	-238	-232	-752	-1479	-1804	-1330	-1234	-1197	-1046	-527	-442	-350	
	24252	25054	18310	14214	14986	16459	17527	15070	14853	24757	23590	22313	231385

C2 Ladrillo perforado (estructural) / Teja de barro, mortero y machimbre

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	2	2	3	6	15	18	15	9	5	5	5	3	
9	270	298	457	618	765	733	663	656	751	760	630	406	
10	2031	2108	2646	3311	3675	3523	3425	3429	3414	3166	2814	2228	
11	5188	5614	6386	7421	7987	7768	7632	7729	7707	7439	6845	5743	
12	9601	10082	11101	12110	12921	12497	12365	12923	12864	12197	11230	9918	
13	13527	14754	15742	16500	17244	16366	16639	17138	17231	15817	14238	12948	
14	14290	15771	17404	18286	18454	17811	18014	18155	17804	16046	14866	13900	
15	15482	16742	17260	17174	17272	16858	17019	17332	17024	15610	14606	14094	
16	13546	14746	14754	14246	14202	13906	13883	13815	13437	12312	11481	12019	
17	9758	10719	10423	10112	10069	9870	9793	9731	9398	8735	8280	8799	
18	6453	6796	6116	5910	5955	5746	5576	5439	5180	4929	4928	5594	
19	3389	3508	3252	3222	3305	3300	3363	3175	2739	2430	2512	2912	
20	1265	1316	1194	1189	1237	1306	1274	1093	795	610	602	1001	
21	401	381	353	369	394	402	398	352	283	236	265	350	
22	92	102	105	106	112	133	126	95	54	22	0	58	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	95295	102939	107196	110580	113607	110237	110185	111071	108686	100314	93302	89973	1253385

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-2036	-2216	-2810	-3289	-3488	-3211	-3148	-3122	-2931	-2182	-2048	-2004	
1	-3016	-2868	-3310	-3790	-4021	-3703	-3639	-3625	-3463	-2794	-2790	-3051	
2	-3105	-3162	-3587	-4191	-4209	-4209	-4213	-4227	-4033	-3258	-3121	-3086	
3	-3524	-3381	-3891	-4380	-4598	-4299	-4240	-4233	-4044	-3287	-3276	-3539	
4	-3602	-3676	-4139	-4776	-4812	-4787	-4838	-4999	-4875	-3781	-3599	-3593	
5	-4034	-3922	-4456	-4787	-4824	-4825	-4871	-5018	-4907	-3807	-3686	-3837	
6	-4086	-3960	-4488	-4775	-4789	-4780	-4866	-5142	-5148	-3834	-3659	-3874	
7	-4505	-4370	-4696	-4863	-5049	-4801	-4933	-5325	-5064	-3742	-3738	-4281	
8	-4402	-4282	-4576	-4769	-5064	-5042	-5090	-5214	-4941	-3857	-4038	-4240	
9	-4229	-4204	-4083	-4063	-4093	-3918	-4106	-4461	-4131	-2883	-3141	-4047	
10	-1216	-1200	-746	-223	-97	-247	-384	-503	-305	572	110	-682	
11	3251	3619	4389	5291	5849	5642	5503	5486	5525	5881	5263	3863	
12	8778	9170	10147	11112	11921	11511	11383	11823	11752	11706	10923	9480	
13	14696	15366	15810	16421	17159	16369	16722	17251	17528	16594	15216	14228	
14	15585	16643	17927	18466	18624	18107	18691	18699	18154	16872	15989	15377	
15	17608	18083	17847	17365	17453	17231	17838	18028	17601	16966	16311	16366	
16	15485	16003	15266	14409	14356	14243	14579	14315	13807	13577	13038	13941	
17	11459	11945	10887	10247	10195	10104	10378	10180	9663	9461	9356	10521	
18	7913	7828	6138	5831	5854	5741	5600	5402	5195	5475	5700	6611	
19	4043	4007	3210	3099	3181	3177	3281	3074	2629	2439	2695	3450	
20	1720	1672	1067	920	931	1093	1126	949	642	567	650	1160	
21	295	265	-136	-647	-843	-511	-445	-466	-433	-116	-17	152	
22	-305	-372	-932	-1475	-1519	-1410	-1360	-1388	-1312	-847	-789	-615	
23	-878	-1041	-1807	-2434	-2814	-2238	-2115	-2067	-1854	-1112	-994	-920	
	61895	65947	59031	54699	55303	55237	56853	55417	55055	64610	60355	57380	701782

C3 Ladrillo perforado (estructural) / Teja de asbesto

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	457	508	788	1063	1266	1176	1070	1113	1309	1325	1095	698	
8	3571	3707	4656	5824	6371	6049	5903	6008	6012	5566	4948	3915	
9	8979	9717	10990	12734	13562	13110	12949	13250	13180	12717	11736	9899	
10	16079	16875	18433	19994	21075	20263	20096	21267	21227	20180	18637	16558	
11	21806	24004	25735	26998	27924	26277	26851	27934	28149	25660	22902	20815	
12	22762	25376	28543	30293	30273	28974	29231	29864	29266	26157	23998	22182	
13	25691	27840	28961	28989	28903	27943	28135	29099	28737	26433	24683	23576	
14	23655	25719	25706	24822	24433	23699	23789	23927	23695	21780	20322	21105	
15	17338	19262	18938	18199	17959	17455	17471	17531	17111	15557	14541	15395	
16	10799	11574	10631	10077	10102	9873	9601	9315	8879	8252	8099	9221	
17	5353	5534	5087	4897	5164	5342	5398	4894	4248	3835	3997	4638	
18	2033	2163	1944	1931	2167	2317	2272	1897	1358	1137	1034	1629	
19	1003	974	879	996	1078	1071	1058	999	834	829	867	936	
20	774	723	633	685	728	724	690	636	546	515	602	714	
21	401	381	353	369	394	402	398	352	283	236	265	350	
22	92	102	105	106	112	133	126	95	54	22	0	58	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	160793	174459	182382	187977	191511	184808	185038	188181	184888	170201	157726	151689	2119653

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-5160	-5413	-6431	-7442	-7655	-7378	-7315	-7289	-6891	-5448	-5209	-5127	
1	-5693	-5833	-6608	-7742	-7775	-7775	-7779	-7792	-7423	-6032	-5788	-5693	
2	-5737	-5858	-6640	-7743	-7775	-7775	-7883	-8229	-8167	-6176	-5793	-5718	
3	-7259	-6704	-7754	-7955	-8163	-7864	-7909	-8235	-8178	-6205	-6073	-6789	
4	-7337	-6999	-8002	-8351	-8377	-8352	-8466	-8830	-8718	-6642	-6396	-6843	
5	-7768	-7801	-8138	-8836	-9321	-8688	-8923	-9596	-8815	-6696	-6810	-7728	
6	-7820	-7839	-8169	-8852	-9593	-9601	-9647	-9739	-9107	-7240	-7733	-7799	
7	-7613	-7427	-7433	-7175	-6984	-7074	-7326	-7751	-7572	-5295	-5620	-7129	
8	-1576	-1352	-657	474	1002	706	412	45	59	1846	1467	-242	
9	6776	7450	8740	10087	10720	10475	10237	10375	10772	10927	9881	7728	
10	14088	14769	16244	17662	18506	17696	17530	18709	18888	18440	16962	14834	
11	22507	23433	23857	24971	25896	24456	25187	26198	26674	25850	23506	21847	
12	24604	26332	28850	29737	29691	28696	29866	30051	28945	27372	25738	24529	
13	28518	29773	30243	29352	29236	28577	29694	30335	29548	28273	26991	26628	
14	26238	27250	25851	24829	24439	23914	24085	24029	23936	23497	22477	23544	
15	20198	21241	19148	18217	17976	17551	17775	17785	17378	16454	16097	18243	
16	13400	13612	11124	10240	10256	10134	10199	9791	9171	9003	9269	10995	
17	6429	6294	5505	5032	5290	5575	5938	5318	4512	4473	4796	5688	
18	2874	2675	1955	1601	1787	2167	2296	1860	1312	1642	1667	2382	
19	1629	1440	31	-1146	-1621	-814	-623	-636	-579	338	706	1329	
20	589	266	-1574	-2527	-2538	-2502	-2528	-2578	-2364	-1298	-950	-463	
21	-1341	-1801	-2958	-3410	-3837	-3114	-2952	-2935	-2704	-1689	-1483	-1326	
22	-3124	-3213	-3714	-4591	-4642	-4533	-4484	-4511	-4316	-3445	-3297	-3162	
23	-3308	-3390	-4174	-5349	-5572	-5274	-5214	-5191	-4858	-3710	-3502	-3388	
	104114	110905	99296	91083	90946	89203	92170	91184	91503	108239	100903	96340	1165886

C4 Ladrillo perforado (estructural) / Teja termoacústica (Estrutech)

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	69	76	118	161	200	190	171	171	196	199	164	105	
9	535	555	695	872	983	955	923	908	894	830	738	586	
10	1340	1449	1641	1907	2086	2047	2007	1998	1970	1904	1756	1479	
11	2508	2637	2923	3211	3480	3402	3328	3419	3425	3263	2993	2618	
12	3769	4125	4518	4836	5193	4994	5037	5077	5060	4618	4117	3671	
13	4637	5016	5508	5828	6083	5956	5924	5877	5775	5308	4948	4543	
14	5425	5776	5875	5847	6105	6067	6138	6015	5922	5530	5252	5081	
15	5054	5407	5333	5152	5361	5400	5418	5165	5020	4612	4347	4483	
16	3605	3941	3888	3766	4034	4115	4060	3809	3493	3201	3029	3232	
17	2475	2494	2200	2195	2412	2527	2415	2147	1959	2010	2076	2277	
18	1779	1763	1560	1613	1840	1859	1830	1648	1411	1384	1462	1632	
19	1131	1128	1026	1127	1211	1223	1210	1118	899	854	867	1011	
20	774	723	633	685	728	724	690	636	546	515	602	714	
21	401	381	353	369	394	402	398	352	283	236	265	350	
22	92	102	105	106	112	133	126	95	54	22	0	58	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	33594	35573	36376	37675	40222	39994	39675	38435	36907	34486	32616	31840	437393

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-1284	-1383	-1882	-2119	-2370	-2006	-1924	-1891	-1759	-1249	-1199	-1261	
1	-1830	-1877	-2126	-2529	-2541	-2541	-2545	-2558	-2447	-1960	-1867	-1830	
2	-1874	-1901	-2158	-2530	-2541	-2541	-2545	-2558	-2447	-1960	-1872	-1855	
3	-2293	-2120	-2462	-2718	-2929	-2630	-2583	-2612	-2538	-2004	-2026	-2307	
4	-2488	-2482	-2797	-3117	-3144	-3119	-3140	-3207	-3077	-2442	-2363	-2428	
5	-2488	-2482	-2797	-3118	-3156	-3156	-3173	-3226	-3110	-2468	-2400	-2429	
6	-2587	-2606	-2843	-3158	-3221	-3143	-3214	-3430	-3357	-2498	-2414	-2561	
7	-2837	-2701	-2998	-3060	-3149	-3151	-3193	-3322	-3253	-2451	-2447	-2626	
8	-2667	-2540	-2752	-2746	-2726	-2710	-2785	-2959	-2907	-2114	-2114	-2466	
9	-1994	-1981	-1879	-1843	-1908	-1730	-1849	-2118	-1891	-1165	-1301	-1821	
10	-716	-663	-549	-452	-513	-550	-588	-585	-368	60	-272	-565	
11	578	665	928	1183	1452	1385	1308	1263	1243	1717	1449	773	
12	3203	3362	3577	3837	4194	4029	4093	4022	4024	4274	3905	3418	
13	5061	5280	5666	5797	6043	5958	6040	5963	5879	5587	5304	4995	
14	5955	6116	6038	5901	6157	6161	6355	6192	6048	5858	5753	5730	
15	6376	6165	5439	5171	5378	5517	5632	5363	5308	5452	5397	5840	
16	4818	4800	4367	3928	4189	4375	4670	4291	3784	3872	3922	4515	
17	3645	3325	2620	2330	2539	2761	2954	2571	2224	2659	2912	3399	
18	2628	2283	1571	1534	1739	1853	1855	1611	1425	1889	2096	2385	
19	1756	1600	983	977	1056	1085	1127	1018	782	863	1050	1548	
20	1230	1078	420	299	256	379	371	328	278	418	613	857	
21	226	180	-43	-182	-163	-149	-148	-193	-220	-109	-54	66	
22	-229	-275	-453	-664	-744	-560	-493	-514	-520	-344	-333	-256	
23	-566	-569	-963	-1503	-1709	-1411	-1351	-1328	-1202	-771	-703	-647	
	11623	11274	4907	1218	2189	4106	4874	2121	1899	11114	11036	10474	76835

D1 Ladrillo hueco (H15) / Teja de barro, tierra y caña brava pañetada

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	2	2	3	6	15	18	15	9	5	5	5	3	
9	14	14	16	22	55	74	63	32	18	18	17	15	
10	31	32	39	52	114	144	126	68	49	51	45	36	
11	206	220	304	395	533	559	504	427	451	457	389	276	
12	1131	1177	1470	1832	2102	2058	1988	1908	1894	1772	1572	1245	
13	2849	3069	3511	4082	4505	4434	4341	4307	4231	4052	3719	3129	
14	5265	5482	5926	6428	6926	6779	6667	6861	6793	6497	6040	5382	
15	7060	7660	8062	8397	8851	8463	8662	8762	8758	8050	7311	6762	
16	7164	7885	8634	9053	9182	8940	9028	9025	8773	7864	7280	6856	
17	7373	7985	8250	8214	8339	8184	8209	8305	8049	7383	6915	6727	
18	6499	6981	6889	6696	6678	6571	6541	6480	6325	5917	5593	5841	
19	4856	5310	5140	5014	5011	4842	4810	4813	4628	4295	4090	4371	
20	3159	3328	3013	2945	2915	2805	2740	2706	2552	2406	2402	2725	
21	1615	1651	1516	1482	1512	1511	1524	1424	1234	1070	1146	1382	
22	489	522	489	474	492	531	530	442	302	201	178	363	
23	62	69	70	71	75	89	85	63	36	15	0	39	
	47775	51387	53332	55163	57305	56002	55833	55632	54098	50053	46702	45152	628434

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-796	-928	-1514	-1878	-2022	-1825	-1780	-1761	-1625	-1081	-993	-929	
1	-1384	-1501	-1877	-2202	-2317	-2159	-2127	-2126	-2012	-1497	-1401	-1364	
2	-1744	-1769	-2009	-2373	-2384	-2384	-2388	-2401	-2298	-1831	-1743	-1725	
3	-2038	-1922	-2221	-2504	-2655	-2446	-2407	-2408	-2309	-1852	-1851	-2042	
4	-2352	-2271	-2581	-2900	-3047	-2844	-2817	-2833	-2687	-2174	-2174	-2363	
5	-2377	-2422	-2718	-3126	-3165	-3166	-3172	-3188	-3039	-2460	-2394	-2370	
6	-2430	-2460	-2750	-3114	-3131	-3121	-3155	-3264	-3197	-2471	-2367	-2408	
7	-2557	-2486	-2815	-3009	-3026	-3026	-3079	-3251	-3251	-2400	-2285	-2400	
8	-2696	-2537	-2874	-2910	-2921	-2891	-2951	-3132	-3108	-2312	-2241	-2482	
9	-2732	-2653	-2848	-2947	-3041	-2885	-2970	-3219	-3069	-2280	-2287	-2595	
10	-2662	-2710	-2799	-2966	-3159	-2986	-3053	-3254	-2977	-2250	-2410	-2638	
11	-2368	-2388	-2351	-2382	-2404	-2371	-2416	-2580	-2443	-1728	-1932	-2244	
12	-668	-682	-429	-113	156	126	49	-185	-214	415	244	-353	
13	2318	2466	2860	3358	3778	3718	3619	3511	3477	3725	3462	2784	
14	5499	5609	5954	6377	6871	6736	6650	6851	6834	6626	6268	5684	
15	7855	8114	8142	8415	8869	8538	8809	8907	8946	8551	7994	7642	
16	8466	8698	8986	9167	9290	9165	9525	9449	9132	8701	8334	8271	
17	8667	8877	8805	8397	8511	8495	8924	8869	8400	8211	7952	8093	
18	7671	7750	7164	6714	6669	6699	6892	6718	6491	6631	6497	7000	
19	5797	5934	5110	4891	4886	4762	4770	4720	4562	4624	4609	5179	
20	3832	3837	2909	2775	2719	2649	2619	2576	2423	2401	2565	3185	
21	1847	1821	1348	1256	1283	1288	1307	1207	1028	936	1076	1389	
22	360	381	266	113	95	207	246	162	32	24	16	213	
23	-176	-162	-418	-803	-947	-696	-626	-631	-597	-349	-329	-263	
	25332	26596	21340	18236	18908	19583	20469	18737	18499	26160	24610	23264	261734

D2 Ladrillo hueco (H15) / Teja de barro, mortero y machimbre

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	2	2	3	6	15	18	15	9	5	5	5	3	
9	270	298	457	618	765	733	663	656	751	760	630	406	
10	2031	2108	2646	3311	3675	3523	3425	3429	3414	3166	2814	2228	
11	5108	5522	6244	7235	7766	7552	7441	7539	7480	7222	6666	5628	
12	9179	9635	10548	11469	12168	11738	11622	12202	12174	11583	10684	9469	
13	12607	13858	14900	15686	16351	15456	15753	16288	16342	14896	13301	12068	
14	13442	14893	16619	17613	17696	17017	17116	17413	17042	15325	14124	13080	
15	14959	16184	16744	16730	16759	16242	16425	16845	16596	15266	14295	13748	
16	13519	14696	14674	14184	13989	13628	13668	13701	13489	12340	11498	11969	
17	9629	10720	10567	10162	10079	9822	9780	9790	9454	8595	8036	8566	
18	6050	6396	5773	5511	5497	5385	5218	5056	4859	4637	4621	5238	
19	3163	3273	3006	2914	3057	3066	3109	2882	2507	2243	2336	2727	
20	1156	1241	1138	1152	1213	1283	1278	1112	792	636	568	904	
21	492	458	398	434	463	462	438	400	337	316	372	451	
22	258	243	224	237	253	258	255	226	185	156	178	228	
23	62	69	70	71	75	89	85	63	36	15	0	39	
	91927	99596	104011	107333	109821	106272	106291	107611	105463	97161	90128	86752	1212366

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-1646	-1721	-2237	-2799	-2846	-2804	-2795	-2791	-2628	-1989	-1875	-1799	
1	-2368	-2285	-2825	-3156	-3487	-3012	-2911	-2883	-2733	-2104	-2115	-2383	
2	-2774	-2823	-3202	-3727	-3743	-3743	-3747	-3760	-3589	-2902	-2783	-2755	
3	-2821	-2847	-3236	-3748	-3786	-3753	-3751	-3767	-3600	-2907	-2800	-2806	
4	-3109	-3047	-3460	-3922	-4074	-3871	-3884	-4030	-3954	-3029	-2943	-3120	
5	-3567	-3444	-3915	-4157	-4192	-4192	-4239	-4386	-4307	-3315	-3212	-3370	
6	-3619	-3482	-3946	-4145	-4157	-4148	-4200	-4367	-4303	-3295	-3186	-3408	
7	-3677	-3686	-3889	-4225	-4417	-4169	-4290	-4646	-4383	-3234	-3223	-3612	
8	-3816	-3737	-3948	-4137	-4432	-4410	-4447	-4535	-4260	-3350	-3551	-3707	
9	-3502	-3396	-3410	-3273	-3156	-3189	-3324	-3537	-3428	-2367	-2531	-3224	
10	-584	-568	-103	471	736	731	544	263	400	1252	949	-43	
11	3803	4159	4856	5626	5988	5782	5702	5806	5954	6061	5404	4370	
12	8065	8441	9313	10189	10887	10471	10370	10868	10829	10680	9868	8475	
13	13109	13816	14296	15019	15683	14877	15231	15705	15865	15253	13901	12863	
14	14716	15752	17140	17735	17805	17251	17731	17907	17393	16116	15131	14452	
15	16235	17067	17292	16921	16941	16551	17129	17404	16941	16073	15361	15138	
16	15156	15649	14799	14202	14006	13776	13913	13872	13755	13416	12818	13578	
17	11040	11744	10895	10249	10160	9979	10190	10099	9633	9133	8876	9974	
18	7334	7382	6034	5529	5487	5471	5515	5281	4982	5051	5255	6206	
19	3745	3628	2951	2790	2932	2986	3043	2775	2440	2524	2702	3164	
20	1487	1463	1028	883	907	1070	1156	981	639	608	655	1218	
21	708	610	-84	-583	-774	-452	-405	-418	-379	-13	167	402	
22	-122	-216	-813	-1261	-1287	-1238	-1231	-1256	-1162	-713	-611	-445	
23	-817	-971	-1472	-1757	-1957	-1604	-1508	-1502	-1404	-933	-881	-833	
	62976	67488	62064	58724	59224	58360	59792	59083	58701	66016	61376	58335	732139

D3 Ladrillo hueco (H15) / Teja de asbesto

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	457	508	788	1063	1266	1176	1070	1113	1309	1325	1095	698	
8	3571	3707	4656	5824	6371	6049	5903	6008	6012	5566	4948	3915	
9	8979	9717	10990	12734	13562	13110	12949	13250	13180	12717	11736	9899	
10	16079	16875	18433	19994	21075	20263	20096	21267	21227	20180	18637	16558	
11	21725	23912	25593	26813	27703	26061	26660	27744	27921	25444	22723	20701	
12	22341	24929	27990	29652	29519	28216	28488	29143	28576	25543	23452	21733	
13	24772	26944	28118	28175	28009	27034	27249	28249	27847	25512	23747	22696	
14	22807	24841	24920	24148	23675	22905	22890	23185	22934	21059	19581	20284	
15	16815	18704	18421	17755	17446	16838	16878	17044	16683	15213	14230	15049	
16	10772	11524	10551	10015	9889	9595	9387	9202	8932	8279	8116	9171	
17	5224	5536	5231	4947	5174	5293	5385	4953	4303	3696	3753	4406	
18	1630	1762	1601	1532	1709	1955	1914	1514	1037	845	727	1273	
19	777	738	633	688	830	837	803	707	602	643	691	751	
20	666	647	577	648	704	701	694	655	543	541	568	617	
21	492	458	398	434	463	462	438	400	337	316	372	451	
22	258	243	224	237	253	258	255	226	185	156	178	228	
23	62	69	70	71	75	89	85	63	36	15	0	39	
	157427	171114	179194	184730	187723	180842	181144	184723	181664	167050	154554	148469	2078634

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-4770	-4918	-5858	-6952	-7013	-6971	-6961	-6958	-6588	-5255	-5036	-4923	
1	-5045	-5249	-6124	-7108	-7241	-7084	-7052	-7050	-6693	-5342	-5112	-5025	
2	-5406	-5518	-6255	-7279	-7308	-7308	-7416	-7762	-7723	-5820	-5454	-5387	
3	-6556	-6170	-7100	-7323	-7352	-7318	-7420	-7769	-7735	-5825	-5597	-6056	
4	-6844	-6370	-7324	-7497	-7639	-7436	-7512	-7861	-7797	-5891	-5740	-6371	
5	-7302	-7323	-7596	-8206	-8689	-8056	-8290	-8964	-8214	-6204	-6337	-7262	
6	-7354	-7362	-7628	-8222	-8961	-8969	-8981	-8964	-8262	-6702	-7259	-7332	
7	-6786	-6744	-6626	-6538	-6351	-6442	-6682	-7072	-6891	-4788	-5106	-6460	
8	-991	-806	-29	1107	1634	1338	1055	724	740	2353	1954	291	
9	7502	8258	9413	10877	11657	11205	11019	11298	11475	11443	10491	8551	
10	14720	15401	16887	18355	19338	18673	18458	19474	19593	19119	17801	15474	
11	23059	23973	24324	25305	26034	24596	25386	26519	27102	26030	23647	22354	
12	23891	25603	28015	28814	28657	27655	28852	29096	28022	26346	24683	23524	
13	26931	28222	28729	27950	27760	27085	28203	28789	27884	26931	25676	25263	
14	25369	26358	25065	24098	23620	23058	23125	23238	23175	22742	21620	22619	
15	18826	20225	18593	17773	17464	16870	17066	17161	16719	15561	15147	17015	
16	13071	13258	10657	10033	9906	9667	9533	9348	9119	8842	9050	10631	
17	6010	6093	5513	5034	5255	5451	5750	5238	4483	4145	4316	5142	
18	2296	2229	1851	1298	1420	1897	2211	1739	1099	1218	1223	1977	
19	1331	1061	-228	-1455	-1870	-1006	-861	-935	-767	423	713	1043	
20	356	57	-1613	-2564	-2562	-2525	-2498	-2546	-2367	-1256	-945	-404	
21	-927	-1456	-2906	-3346	-3767	-3054	-2912	-2887	-2650	-1587	-1298	-1077	
22	-2941	-3058	-3595	-4377	-4410	-4361	-4355	-4380	-4166	-3311	-3119	-2992	
23	-3246	-3320	-3840	-4673	-4715	-4640	-4606	-4625	-4408	-3531	-3390	-3302	
	105194	112444	102325	95104	94867	92325	95112	94851	95150	109641	101928	97293	1196234

D4 Ladrillo hueco (H15) / Teja termoacústica (Estrutech)

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	69	76	118	161	200	190	171	171	196	199	164	105	
9	535	555	695	872	983	955	923	908	894	830	738	586	
10	1340	1449	1641	1907	2086	2047	2007	1998	1970	1904	1756	1479	
11	2428	2545	2781	3025	3259	3186	3137	3228	3197	3046	2815	2503	
12	3348	3678	3965	4194	4440	4235	4294	4356	4370	4004	3570	3222	
13	3718	4120	4666	5014	5190	5046	5037	5027	4885	4386	4012	3663	
14	4577	4898	5089	5174	5348	5272	5240	5273	5161	4808	4511	4261	
15	4531	4850	4817	4709	4848	4783	4825	4678	4592	4268	4035	4137	
16	3577	3891	3809	3704	3821	3836	3846	3695	3545	3228	3046	3182	
17	2346	2495	2344	2245	2422	2479	2402	2205	2015	1870	1831	2044	
18	1376	1363	1217	1214	1382	1497	1473	1265	1090	1092	1156	1275	
19	905	893	779	819	962	988	955	826	667	667	691	826	
20	666	647	577	648	704	701	694	655	543	541	568	617	
21	492	458	398	434	463	462	438	400	337	316	372	451	
22	258	243	224	237	253	258	255	226	185	156	178	228	
23	62	69	70	71	75	89	85	63	36	15	0	39	
	30228	32230	33190	34428	36436	36024	35782	34974	33683	31330	29443	28618	396366

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-894	-887	-1309	-1629	-1728	-1599	-1571	-1560	-1456	-1057	-1026	-1057	
1	-1182	-1293	-1642	-1895	-2008	-1850	-1818	-1816	-1717	-1270	-1191	-1162	
2	-1543	-1562	-1773	-2066	-2075	-2075	-2079	-2092	-2003	-1604	-1533	-1524	
3	-1590	-1586	-1807	-2087	-2118	-2085	-2094	-2145	-2094	-1624	-1550	-1574	
4	-1996	-1853	-2118	-2263	-2406	-2203	-2186	-2238	-2156	-1690	-1707	-1955	
5	-2022	-2004	-2256	-2489	-2524	-2524	-2541	-2593	-2509	-1976	-1927	-1963	
6	-2120	-2128	-2301	-2529	-2589	-2511	-2548	-2655	-2512	-1959	-1941	-2095	
7	-2009	-2018	-2192	-2423	-2516	-2519	-2550	-2643	-2572	-1943	-1932	-1957	
8	-2081	-1995	-2124	-2114	-2094	-2078	-2141	-2280	-2225	-1607	-1627	-1933	
9	-1267	-1172	-1206	-1053	-971	-1000	-1068	-1194	-1188	-649	-691	-998	
10	-84	-31	94	241	319	428	339	181	337	740	566	74	
11	1130	1206	1395	1518	1591	1525	1508	1584	1671	1897	1590	1280	
12	2490	2633	2742	2914	3159	2989	3080	3067	3101	3248	2850	2413	
13	3475	3729	4151	4394	4567	4466	4548	4417	4216	4246	3989	3630	
14	5085	5225	5251	5170	5338	5306	5395	5401	5287	5102	4896	4804	
15	5004	5149	4884	4727	4865	4836	4922	4739	4649	4559	4448	4611	
16	4489	4446	3901	3722	3839	3908	4005	3848	3733	3711	3702	4151	
17	3226	3125	2628	2332	2503	2637	2767	2490	2194	2331	2432	2853	
18	2050	1838	1467	1232	1372	1583	1769	1490	1212	1465	1651	1980	
19	1459	1221	724	668	808	893	890	719	594	948	1057	1262	
20	997	869	381	262	232	356	401	360	275	459	618	916	
21	639	526	9	-118	-94	-90	-108	-146	-166	-7	131	315	
22	-46	-119	-334	-450	-512	-388	-364	-382	-370	-210	-155	-86	
23	-505	-499	-628	-826	-852	-777	-743	-762	-753	-593	-590	-561	
	12705	12820	7937	5238	6106	7228	7813	5790	5548	12517	12060	11424	107186

E1 Bloque de concreto / Teja de barro, tierra y caña brava pañetada

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	2	2	3	6	15	18	15	9	5	5	5	3	
9	14	14	16	22	55	74	63	32	18	18	17	15	
10	31	32	39	52	114	144	126	68	49	51	45	36	
11	206	220	304	395	533	559	504	427	451	457	389	276	
12	1135	1183	1479	1843	2115	2071	1999	1920	1908	1785	1583	1252	
13	2878	3100	3550	4129	4560	4489	4394	4359	4282	4098	3760	3161	
14	5341	5557	6004	6509	7017	6871	6757	6948	6882	6584	6125	5458	
15	7163	7765	8162	8492	8959	8574	8777	8866	8864	8153	7412	6863	
16	7264	7989	8733	9144	9286	9051	9142	9124	8871	7954	7368	6944	
17	7442	8057	8322	8279	8421	8276	8298	8378	8111	7441	6973	6789	
18	6553	7030	6928	6737	6733	6635	6602	6525	6363	5965	5646	5897	
19	4917	5367	5187	5066	5076	4908	4872	4867	4674	4345	4145	4430	
20	3214	3381	3060	2998	2974	2863	2798	2760	2596	2451	2449	2776	
21	1658	1691	1550	1520	1552	1552	1562	1459	1264	1098	1180	1422	
22	512	544	509	495	515	555	553	462	319	216	194	384	
23	67	75	77	77	82	97	92	69	40	16	0	42	
	48397	52007	53923	55764	58007	56737	56554	56273	54697	50637	47291	45748	636035

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-809	-944	-1554	-1939	-2083	-1886	-1841	-1823	-1681	-1117	-1025	-956	
1	-1417	-1542	-1940	-2273	-2397	-2225	-2190	-2187	-2068	-1533	-1433	-1395	
2	-1806	-1832	-2080	-2458	-2470	-2470	-2474	-2488	-2380	-1897	-1805	-1787	
3	-2099	-1985	-2293	-2590	-2742	-2533	-2493	-2494	-2391	-1918	-1913	-2103	
4	-2436	-2346	-2669	-2996	-3155	-2936	-2904	-2919	-2769	-2241	-2245	-2448	
5	-2464	-2510	-2819	-3242	-3282	-3283	-3289	-3305	-3150	-2551	-2482	-2456	
6	-2516	-2548	-2850	-3230	-3248	-3238	-3272	-3381	-3308	-2562	-2455	-2494	
7	-2644	-2575	-2916	-3126	-3143	-3143	-3198	-3376	-3377	-2494	-2372	-2486	
8	-2804	-2638	-2990	-3027	-3038	-3008	-3070	-3258	-3234	-2406	-2331	-2581	
9	-2840	-2754	-2964	-3064	-3158	-3003	-3090	-3345	-3196	-2374	-2377	-2693	
10	-2779	-2827	-2918	-3093	-3295	-3109	-3180	-3394	-3104	-2345	-2507	-2754	
11	-2485	-2505	-2470	-2509	-2546	-2513	-2558	-2721	-2571	-1832	-2049	-2361	
12	-780	-793	-538	-219	52	23	-58	-299	-326	334	157	-463	
13	2286	2435	2838	3344	3771	3712	3609	3492	3458	3733	3469	2772	
14	5575	5683	6032	6453	6957	6823	6734	6933	6923	6714	6352	5759	
15	7958	8218	8242	8511	8976	8648	8924	9010	9052	8656	8103	7748	
16	8619	8829	9087	9258	9394	9280	9645	9557	9244	8826	8465	8418	
17	8790	8987	8901	8470	8601	8600	9045	8968	8477	8304	8053	8214	
18	7779	7836	7229	6763	6732	6778	6985	6790	6545	6714	6594	7115	
19	5905	6019	5160	4942	4951	4831	4837	4775	4611	4706	4702	5281	
20	3922	3917	2958	2828	2777	2707	2678	2631	2467	2450	2627	3271	
21	1922	1887	1384	1294	1324	1329	1345	1242	1058	967	1117	1443	
22	385	405	287	134	118	231	269	182	48	39	32	234	
23	-171	-155	-412	-801	-946	-691	-619	-626	-595	-347	-329	-260	
	25091	26262	20705	17430	18150	18924	19835	17964	17733	25826	24348	23018	255286

E2 Bloque de concreto / Teja de barro, mortero y machimbre

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	2	2	3	6	15	18	15	9	5	5	5	3	
9	270	298	457	618	765	733	663	656	751	760	630	406	
10	2031	2108	2646	3311	3675	3523	3425	3429	3414	3166	2814	2228	
11	5108	5522	6244	7235	7766	7552	7441	7539	7480	7222	6666	5628	
12	9184	9641	10557	11480	12182	11751	11634	12214	12188	11596	10695	9476	
13	12636	13889	14939	15733	16406	15511	15806	16340	16393	14942	13342	12100	
14	13517	14968	16697	17694	17787	17109	17205	17499	17131	15412	14208	13155	
15	15061	16288	16844	16825	16867	16352	16540	16949	16702	15368	14397	13849	
16	13620	14800	14772	14275	14092	13739	13781	13800	13586	12430	11585	12058	
17	9698	10792	10638	10227	10161	9913	9869	9863	9516	8654	8094	8628	
18	6104	6444	5812	5552	5551	5449	5279	5102	4898	4685	4675	5294	
19	3223	3330	3053	2965	3122	3131	3171	2936	2552	2293	2390	2787	
20	1211	1293	1185	1205	1271	1341	1335	1166	836	681	615	955	
21	535	498	433	472	503	502	476	435	367	344	406	491	
22	282	265	245	258	276	281	278	247	201	171	194	249	
23	67	75	77	77	82	97	92	69	40	16	0	42	
	92549	100213	104602	107933	110521	107002	107010	108253	106060	97745	90716	87349	1219953

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-1659	-1736	-2278	-2860	-2907	-2865	-2856	-2852	-2684	-2025	-1907	-1826	
1	-2400	-2325	-2887	-3227	-3567	-3078	-2974	-2945	-2789	-2140	-2147	-2413	
2	-2835	-2886	-3273	-3813	-3829	-3829	-3833	-3846	-3671	-2968	-2845	-2816	
3	-2882	-2910	-3307	-3834	-3873	-3839	-3838	-3853	-3682	-2973	-2863	-2867	
4	-3193	-3122	-3548	-4018	-4181	-3962	-3972	-4117	-4036	-3096	-3014	-3206	
5	-3654	-3532	-4015	-4274	-4309	-4309	-4356	-4503	-4418	-3406	-3300	-3456	
6	-3706	-3570	-4046	-4262	-4274	-4265	-4317	-4484	-4414	-3386	-3273	-3494	
7	-3764	-3775	-3990	-4342	-4534	-4286	-4409	-4772	-4509	-3328	-3311	-3698	
8	-3924	-3838	-4064	-4254	-4549	-4527	-4566	-4661	-4386	-3444	-3641	-3806	
9	-3611	-3497	-3527	-3390	-3273	-3306	-3443	-3663	-3554	-2460	-2621	-3323	
10	-701	-685	-222	344	600	608	416	122	273	1157	851	-159	
11	3686	4042	4737	5498	5847	5640	5560	5665	5825	5956	5287	4253	
12	7953	8330	9204	10083	10783	10367	10263	10754	10717	10599	9781	8365	
13	13078	13785	14274	15005	15677	14871	15220	15686	15846	15261	13907	12851	
14	14791	15826	17218	17811	17891	17338	17815	17989	17482	16204	15216	14527	
15	16339	17171	17392	17017	17048	16661	17244	17507	17047	16177	15470	15244	
16	15309	15780	14900	14293	14109	13892	14033	13979	13867	13540	12949	13725	
17	11163	11854	10991	10323	10250	10085	10312	10198	9711	9226	8977	10095	
18	7442	7468	6098	5578	5550	5549	5608	5352	5036	5133	5352	6320	
19	3853	3713	3000	2842	2997	3055	3111	2831	2490	2605	2794	3265	
20	1578	1543	1077	936	965	1128	1216	1037	684	657	716	1304	
21	783	677	-49	-545	-733	-411	-367	-383	-349	17	208	455	
22	-97	-193	-792	-1240	-1263	-1214	-1208	-1235	-1145	-699	-595	-424	
23	-811	-964	-1466	-1756	-1955	-1599	-1500	-1496	-1402	-932	-881	-830	
	62738	67156	61427	57915	58470	57704	59159	58310	57939	65675	61110	58086	725689

E3 Bloque de concreto / Teja de asbesto

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	457	508	788	1063	1266	1176	1070	1113	1309	1325	1095	698	
8	3571	3707	4656	5824	6371	6049	5903	6008	6012	5566	4948	3915	
9	8979	9717	10990	12734	13562	13110	12949	13250	13180	12717	11736	9899	
10	16079	16875	18433	19994	21075	20263	20096	21267	21227	20180	18637	16558	
11	21725	23912	25593	26813	27703	26061	26660	27744	27921	25444	22723	20701	
12	22346	24934	27999	29663	29533	28229	28500	29155	28590	25556	23463	21740	
13	24801	26975	28158	28221	28064	27089	27302	28301	27899	25558	23787	22728	
14	22882	24916	24998	24229	23767	22998	22980	23271	23023	21146	19665	20360	
15	16917	18808	18521	17850	17554	16949	16993	17147	16789	15316	14331	15150	
16	10873	11628	10650	10106	9992	9707	9500	9301	9029	8369	8203	9260	
17	5293	5608	5302	5012	5257	5385	5474	5026	4365	3754	3810	4468	
18	1685	1810	1640	1572	1763	2020	1975	1560	1075	893	781	1329	
19	838	796	680	739	894	902	865	761	647	692	745	810	
20	720	700	623	702	763	759	751	708	588	585	615	668	
21	535	498	433	472	503	502	476	435	367	344	406	491	
22	282	265	245	258	276	281	278	247	201	171	194	249	
23	67	75	77	77	82	97	92	69	40	16	0	42	
	158050	171732	179786	185329	188425	181577	181864	185363	182262	167632	155139	149066	2086225

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-4783	-4933	-5899	-7012	-7074	-7032	-7023	-7019	-6644	-5291	-5068	-4950	
1	-5078	-5290	-6186	-7179	-7321	-7150	-7114	-7111	-6749	-5377	-5144	-5056	
2	-5467	-5581	-6327	-7365	-7395	-7395	-7502	-7849	-7805	-5886	-5517	-5448	
3	-6617	-6233	-7171	-7409	-7438	-7405	-7507	-7855	-7817	-5891	-5660	-6117	
4	-6928	-6445	-7412	-7593	-7747	-7528	-7600	-7948	-7879	-5958	-5811	-6456	
5	-7388	-7412	-7696	-8323	-8806	-8173	-8407	-9081	-8326	-6295	-6424	-7348	
6	-7440	-7450	-7728	-8339	-9078	-9086	-9098	-9081	-8373	-6793	-7347	-7418	
7	-6872	-6833	-6726	-6655	-6469	-6559	-6801	-7198	-7017	-4882	-5193	-6546	
8	-1099	-907	-145	990	1517	1221	936	598	614	2259	1864	192	
9	7394	8157	9297	10760	11540	11087	10900	11173	11349	11349	10401	8452	
10	14603	15284	16768	18229	19203	18550	18330	19334	19466	19025	17703	15357	
11	22942	23856	24204	25178	25893	24454	25244	26378	26974	25925	23531	22237	
12	23779	25492	27907	28709	28553	27552	28745	28982	27910	26265	24596	23415	
13	26900	28192	28707	27935	27754	27079	28193	28771	27865	26939	25682	25251	
14	25444	26433	25143	24174	23706	23145	23209	23320	23264	22829	21705	22694	
15	18929	20329	18693	17868	17571	16981	17181	17265	16825	15666	15256	17122	
16	13224	13390	10758	10124	10010	9783	9653	9455	9231	8966	9181	10778	
17	6132	6203	5609	5108	5346	5557	5872	5337	4560	4239	4417	5262	
18	2404	2315	1915	1348	1483	1976	2304	1810	1153	1300	1320	2091	
19	1438	1146	-178	-1403	-1805	-937	-793	-880	-718	505	805	1145	
20	446	137	-1564	-2511	-2504	-2467	-2438	-2490	-2323	-1207	-884	-319	
21	-853	-1389	-2871	-3308	-3727	-3014	-2874	-2852	-2620	-1556	-1257	-1023	
22	-2916	-3034	-3574	-4356	-4387	-4338	-4332	-4359	-4149	-3297	-3103	-2971	
23	-3241	-3314	-3834	-4671	-4714	-4635	-4599	-4619	-4406	-3530	-3390	-3299	
	104953	112113	101690	94299	94111	91666	94479	94081	94385	109304	101663	97045	1189789

E4 Bloque de concreto / Teja termoacústica (Estrutech)

Ganancias solares indirectas (sol-aire)

HOUR	Calendar solar hours totals (see also)												
	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	69	76	118	161	200	190	171	171	196	199	164	105	
9	535	555	695	872	983	955	923	908	894	830	738	586	
10	1340	1449	1641	1907	2086	2047	2007	1998	1970	1904	1756	1479	
11	2428	2545	2781	3025	3259	3186	3137	3228	3197	3046	2815	2503	
12	3353	3683	3974	4206	4454	4248	4305	4368	4384	4017	3581	3229	
13	3747	4151	4706	5061	5245	5101	5090	5079	4936	4432	4053	3695	
14	4653	4973	5167	5255	5439	5365	5329	5359	5250	4895	4595	4336	
15	4633	4954	4917	4804	4956	4894	4940	4781	4698	4370	4137	4238	
16	3678	3995	3907	3795	3925	3948	3959	3794	3642	3318	3133	3271	
17	2415	2568	2415	2309	2505	2571	2491	2278	2077	1929	1889	2107	
18	1431	1411	1256	1254	1436	1562	1533	1311	1128	1140	1209	1331	
19	966	950	826	870	1027	1054	1017	880	712	717	745	885	
20	720	700	623	702	763	759	751	708	588	585	615	668	
21	535	498	433	472	503	502	476	435	367	344	406	491	
22	282	265	245	258	276	281	278	247	201	171	194	249	
23	67	75	77	77	82	97	92	69	40	16	0	42	
	30852	32848	33781	35028	37139	36760	36499	35614	34280	31913	30030	29215	403959

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-907	-903	-1350	-1690	-1789	-1660	-1632	-1621	-1512	-1092	-1058	-1084	
1	-1215	-1334	-1704	-1966	-2088	-1916	-1881	-1877	-1773	-1305	-1223	-1193	
2	-1604	-1625	-1845	-2152	-2161	-2161	-2165	-2178	-2085	-1670	-1596	-1585	
3	-1651	-1649	-1879	-2173	-2204	-2171	-2181	-2232	-2176	-1690	-1613	-1636	
4	-2080	-1928	-2206	-2359	-2513	-2294	-2274	-2324	-2239	-1757	-1778	-2041	
5	-2108	-2092	-2356	-2605	-2641	-2641	-2658	-2711	-2620	-2067	-2014	-2049	
6	-2207	-2216	-2402	-2645	-2706	-2628	-2665	-2772	-2623	-2050	-2028	-2181	
7	-2096	-2107	-2292	-2539	-2633	-2636	-2669	-2769	-2698	-2037	-2020	-2043	
8	-2190	-2096	-2240	-2231	-2211	-2195	-2261	-2406	-2351	-1701	-1717	-2032	
9	-1376	-1273	-1322	-1170	-1088	-1117	-1187	-1320	-1314	-743	-781	-1097	
10	-201	-148	-25	115	184	305	212	40	210	645	468	-43	
11	1013	1089	1276	1390	1449	1383	1366	1443	1543	1792	1474	1163	
12	2378	2522	2634	2809	3055	2885	2973	2953	2989	3167	2763	2304	
13	3443	3699	4129	4380	4561	4460	4538	4399	4197	4254	3995	3618	
14	5161	5299	5329	5246	5423	5393	5479	5483	5375	5190	4980	4880	
15	5108	5253	4984	4822	4973	4947	5037	4842	4755	4664	4557	4718	
16	4642	4578	4002	3813	3942	4024	4125	3955	3844	3835	3833	4298	
17	3349	3235	2725	2405	2594	2743	2888	2589	2272	2425	2533	2973	
18	2158	1924	1531	1281	1435	1662	1862	1562	1266	1548	1748	2094	
19	1566	1306	774	720	872	962	957	774	643	1029	1149	1364	
20	1087	949	429	315	291	414	461	415	319	509	680	1001	
21	714	592	44	-80	-53	-49	-69	-111	-136	24	171	369	
22	-21	-96	-313	-429	-489	-364	-341	-362	-353	-196	-139	-66	
23	-499	-492	-622	-825	-851	-772	-736	-756	-751	-591	-590	-557	
	12464	12487	7301	4432	5352	6574	7179	5016	4782	12183	11794	11175	100739

F1 Poliestireno Expandido (Durapanel)/Teja de barro, tierra y caña brava pañetada

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	2	2	3	6	15	18	15	9	5	5	5	3	
9	28	30	40	55	94	112	96	66	57	56	48	35	
10	114	121	152	185	271	302	278	216	196	183	161	128	
11	422	436	526	626	794	823	761	674	705	706	630	490	
12	1369	1413	1661	1980	2260	2228	2188	2076	2044	1920	1743	1455	
13	2818	3025	3358	3828	4196	4147	4081	4021	3943	3799	3522	3029	
14	4632	4860	5273	5723	6156	6025	5936	6119	5995	5704	5277	4734	
15	6090	6654	7072	7464	7825	7434	7571	7757	7702	7059	6344	5818	
16	6232	6906	7684	8200	8231	7899	7962	8091	7834	7020	6477	6053	
17	6770	7336	7602	7654	7601	7340	7394	7654	7495	6868	6418	6188	
18	6027	6560	6561	6361	6195	5977	5985	6079	5991	5474	5102	5341	
19	4254	4745	4682	4510	4368	4191	4191	4279	4180	3788	3537	3779	
20	2574	2767	2520	2377	2293	2189	2132	2130	2073	1918	1882	2174	
21	1139	1213	1135	1064	1065	1067	1103	1039	905	757	775	941	
22	231	280	264	237	239	274	275	215	117	45	0	135	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	42702	46348	48533	50270	51603	50026	49968	50425	49242	45302	41921	40303	566643

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-828	-936	-1271	-1458	-1595	-1398	-1353	-1334	-1242	-879	-819	-806	
1	-1267	-1267	-1444	-1702	-1741	-1695	-1689	-1698	-1629	-1298	-1252	-1272	
2	-1317	-1331	-1512	-1761	-1769	-1769	-1773	-1786	-1712	-1366	-1304	-1298	
3	-1611	-1484	-1724	-1893	-2040	-1831	-1792	-1793	-1723	-1387	-1412	-1615	
4	-1675	-1702	-1903	-2176	-2201	-2176	-2193	-2242	-2143	-1701	-1643	-1666	
5	-1738	-1738	-1949	-2178	-2213	-2214	-2225	-2261	-2176	-1727	-1688	-1703	
6	-1790	-1776	-1981	-2167	-2179	-2169	-2209	-2337	-2334	-1739	-1661	-1740	
7	-1942	-1848	-2054	-2090	-2127	-2091	-2135	-2270	-2228	-1637	-1600	-1783	
8	-1839	-1761	-1934	-1987	-2039	-2011	-2047	-2153	-2088	-1579	-1583	-1731	
9	-1860	-1861	-1878	-1962	-2050	-1896	-1968	-2163	-2004	-1480	-1544	-1822	
10	-1466	-1510	-1552	-1615	-1686	-1652	-1680	-1760	-1630	-1189	-1318	-1393	
11	-866	-889	-820	-767	-601	-560	-614	-796	-777	-326	-409	-743	
12	861	841	1047	1322	1601	1583	1558	1364	1323	1607	1509	1154	
13	3104	3175	3387	3779	4142	4116	4075	4018	4003	3991	3769	3335	
14	5020	5106	5374	5755	6186	6084	6072	6232	6081	5934	5630	5201	
15	7023	7214	7224	7507	7867	7548	7811	7975	7936	7637	7075	6793	
16	7089	7491	8017	8313	8339	8092	8394	8427	8050	7563	7159	6949	
17	7575	7896	7887	7739	7681	7496	7761	7938	7672	7325	7015	7013	
18	6699	6994	6561	6281	6093	5950	5982	6035	5983	5810	5547	5899	
19	4685	5069	4627	4387	4243	4068	4095	4172	4070	3772	3642	4126	
20	2855	2976	2391	2192	2080	2025	1984	1986	1940	1863	1890	2258	
21	1025	1091	916	723	690	744	795	734	625	572	607	791	
22	49	77	-77	-298	-333	-225	-184	-240	-312	-233	-253	-91	
23	-331	-348	-667	-1021	-1189	-941	-890	-870	-779	-465	-420	-390	
	27455	29479	26665	24923	25159	25078	25775	25178	24906	29068	26937	25466	316089

F2 Poliestireno Expandido (Durapanel) / Teja de barro, mortero y machimbre

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	2	2	3	6	15	18	15	9	5	5	5	3	
9	284	314	482	650	803	771	696	689	791	798	661	426	
10	2114	2197	2758	3445	3832	3681	3576	3577	3561	3298	2930	2319	
11	5324	5738	6466	7467	8027	7816	7697	7786	7733	7471	6907	5843	
12	9418	9871	10738	11617	12327	11909	11822	12370	12324	11730	10855	9679	
13	12576	13813	14747	15433	16041	15169	15493	16002	16054	14643	13104	11968	
14	12809	14271	15965	16908	16926	16263	16384	16671	16244	14533	13361	12431	
15	13988	15178	15753	15797	15733	15212	15335	15840	15540	14275	13329	12804	
16	12588	13717	13723	13331	13037	12587	12601	12767	12550	11496	10695	11166	
17	9026	10071	9919	9602	9341	8978	8965	9138	8900	8080	7539	8027	
18	5578	5974	5445	5175	5013	4791	4662	4655	4525	4194	4130	4737	
19	2560	2708	2548	2410	2413	2415	2489	2349	2058	1737	1782	2135	
20	571	680	645	584	590	667	669	535	313	147	48	353	
21	16	19	18	16	16	18	18	14	8	3	0	10	
22	0	0	0	0	0	0	0	0	0	0	0	0	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	86854	94553	99210	102441	104114	100295	100422	102402	100606	92410	85346	81901	1150554

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-1679	-1728	-1994	-2379	-2419	-2377	-2368	-2364	-2245	-1787	-1702	-1676	
1	-2251	-2051	-2392	-2656	-2912	-2547	-2473	-2456	-2350	-1905	-1966	-2291	
2	-2347	-2384	-2705	-3116	-3128	-3128	-3132	-3145	-3003	-2437	-2344	-2328	
3	-2394	-2409	-2739	-3137	-3171	-3138	-3136	-3151	-3015	-2442	-2361	-2378	
4	-2432	-2478	-2782	-3199	-3228	-3203	-3260	-3440	-3411	-2556	-2412	-2424	
5	-2927	-2760	-3146	-3210	-3240	-3240	-3293	-3459	-3444	-2582	-2506	-2703	
6	-2979	-2798	-3177	-3198	-3205	-3195	-3254	-3440	-3440	-2563	-2480	-2740	
7	-3062	-3048	-3128	-3306	-3518	-3234	-3345	-3666	-3360	-2472	-2539	-2995	
8	-2959	-2961	-3008	-3214	-3551	-3529	-3543	-3555	-3240	-2617	-2893	-2956	
9	-2631	-2604	-2440	-2289	-2166	-2199	-2322	-2481	-2362	-1566	-1788	-2451	
10	612	632	1144	1822	2209	2065	1917	1757	1746	2313	2040	1202	
11	5305	5658	6387	7241	7791	7592	7505	7591	7619	7462	6927	5871	
12	9593	9964	10790	11624	12332	11928	11880	12417	12366	11872	11133	9982	
13	13895	14525	14823	15439	16048	15275	15687	16212	16391	15519	14207	13414	
14	14236	15249	16559	17113	17120	16599	17153	17288	16640	15424	14493	13970	
15	15404	16167	16374	16013	15939	15561	16130	16472	15931	15159	14442	14289	
16	13779	14442	13829	13349	13054	12703	12783	12849	12672	12278	11643	12256	
17	9948	10763	9977	9592	9330	8980	9027	9169	8906	8248	7940	8894	
18	6361	6627	5430	5096	4912	4721	4604	4597	4474	4230	4305	5105	
19	2633	2762	2467	2286	2289	2292	2368	2228	1948	1671	1734	2110	
20	510	601	510	301	269	446	522	391	157	70	-20	291	
21	-114	-119	-517	-1116	-1367	-996	-916	-891	-782	-377	-302	-196	
22	-433	-520	-1156	-1672	-1715	-1670	-1661	-1658	-1505	-971	-880	-749	
23	-972	-1157	-1722	-1976	-2199	-1849	-1771	-1740	-1586	-1049	-972	-960	
	65096	70373	67384	65408	65474	63857	65102	65525	65107	68922	63699	60537	786484

F3 Poliestireno Expandido (Durapanel) / Teja de asbesto

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	457	508	788	1063	1266	1176	1070	1113	1309	1325	1095	698	
8	3571	3707	4656	5824	6371	6049	5903	6008	6012	5566	4948	3915	
9	8993	9733	11015	12766	13600	13148	12982	13283	13220	12754	11767	9918	
10	16162	16964	18546	20127	21232	20421	20247	21415	21373	20313	18753	16649	
11	21941	24128	25815	27044	27964	26325	26916	27991	28175	25693	22964	20915	
12	22580	25165	28180	29800	29678	28386	28688	29310	28726	25690	23623	21943	
13	24741	26899	27965	27921	27699	26746	26988	27963	27559	25259	23549	22596	
14	22174	24219	24267	23444	22906	22151	22159	22442	22135	20267	18818	19636	
15	15844	17698	17431	16822	16420	15809	15788	16039	15627	14222	13263	14105	
16	9841	10546	9600	9162	8937	8554	8320	8268	7992	7435	7312	8368	
17	4621	4887	4583	4387	4437	4450	4570	4301	3749	3180	3256	3867	
18	1158	1341	1273	1196	1225	1361	1358	1113	703	401	236	772	
19	174	174	175	184	186	186	183	173	154	136	137	158	
20	81	86	84	81	82	86	85	78	64	52	48	66	
21	16	19	18	16	16	18	18	14	8	3	0	10	
22	0	0	0	0	0	0	0	0	0	0	0	0	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	152354	166074	174396	179837	182019	174866	175275	179511	176806	162296	149769	143616	2016819

Perdidas y Ganancias por conducción

HOUR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	
0	-4802	-4925	-5615	-6531	-6586	-6544	-6534	-6530	-6205	-5053	-4863	-4800	
1	-4928	-5016	-5691	-6608	-6666	-6619	-6614	-6623	-6310	-5143	-4963	-4934	
2	-4978	-5079	-5758	-6667	-6693	-6693	-6801	-7147	-7137	-5355	-5015	-4959	
3	-6129	-5732	-6602	-6712	-6737	-6703	-6805	-7154	-7149	-5360	-5158	-5629	
4	-6167	-5801	-6646	-6773	-6793	-6768	-6888	-7271	-7254	-5418	-5209	-5674	
5	-6662	-6639	-6827	-7259	-7737	-7103	-7344	-8037	-7352	-5471	-5630	-6594	
6	-6714	-6678	-6858	-7275	-8009	-8017	-8035	-8036	-7399	-5969	-6553	-6665	
7	-6171	-6106	-5865	-5619	-5452	-5507	-5738	-6091	-5868	-4025	-4421	-5842	
8	-133	-30	911	2029	2516	2219	1958	1703	1760	3086	2613	1042	
9	8374	9050	10383	11862	12648	12194	12021	12355	12541	12243	11235	9323	
10	15916	16601	18134	19706	20811	20008	19830	20968	20940	20181	18892	16719	
11	24561	25472	25855	26920	27838	26406	27188	28303	28768	27431	25170	23855	
12	25420	27126	29492	30249	30101	29112	30362	30645	29558	27538	25948	25032	
13	27717	28931	29256	28370	28124	27483	28659	29296	28410	27198	25982	25814	
14	24889	25856	24484	23476	22936	22406	22547	22618	22422	22049	20982	22136	
15	17994	19325	17675	16865	16462	15881	16067	16229	15708	14647	14228	16166	
16	11694	12051	9688	9180	8955	8594	8403	8325	8036	7704	7874	9309	
17	4918	5112	4595	4377	4426	4452	4587	4307	3755	3260	3380	4061	
18	1323	1474	1248	866	845	1148	1300	1056	592	397	272	876	
19	219	196	-711	-1959	-2513	-1700	-1535	-1482	-1259	-429	-255	-10	
20	-621	-805	-2131	-3146	-3201	-3149	-3132	-3136	-2850	-1794	-1620	-1331	
21	-1750	-2186	-3339	-3879	-4361	-3599	-3423	-3360	-3054	-1951	-1767	-1674	
22	-3252	-3362	-3938	-4787	-4838	-4794	-4785	-4781	-4509	-3568	-3388	-3296	
23	-3401	-3507	-4090	-4891	-4958	-4885	-4870	-4863	-4590	-3647	-3481	-3429	
	107317	115328	107650	101794	101118	97822	100418	101294	101554	112551	104253	99496	1250595

F4 Poliestireno Expandido (Durapanel) / Teja termoacústica (Estrutech)

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	69	76	118	161	200	190	171	171	196	199	164	105	
9	549	571	720	904	1022	992	956	941	934	867	769	606	
10	1423	1537	1754	2041	2243	2205	2159	2145	2117	2037	1872	1570	
11	2644	2761	3003	3257	3520	3450	3393	3475	3451	3296	3056	2718	
12	3586	3914	4155	4342	4599	4406	4494	4524	4520	4152	3741	3432	
13	3686	4075	4513	4761	4880	4759	4777	4741	4597	4133	3815	3563	
14	3944	4276	4435	4469	4578	4518	4508	4531	4362	4016	3748	3612	
15	3560	3844	3827	3776	3822	3753	3734	3673	3536	3277	3069	3193	
16	2646	2912	2858	2850	2870	2795	2779	2761	2606	2384	2243	2379	
17	1743	1846	1696	1684	1685	1636	1587	1553	1461	1355	1334	1505	
18	904	941	889	878	898	903	917	864	756	649	665	775	
19	302	329	322	315	319	337	335	292	218	160	137	233	
20	81	86	84	81	82	86	85	78	64	52	48	66	
21	16	19	18	16	16	18	18	14	8	3	0	10	
22	0	0	0	0	0	0	0	0	0	0	0	0	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	25153	27187	28392	29535	30734	30048	29913	29763	28826	26580	24661	23767	334559

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-927	-895	-1066	-1209	-1300	-1172	-1144	-1132	-1073	-854	-853	-934	
1	-1065	-1059	-1209	-1395	-1432	-1386	-1380	-1389	-1334	-1071	-1042	-1071	
2	-1116	-1123	-1276	-1454	-1459	-1459	-1464	-1477	-1417	-1139	-1094	-1096	
3	-1162	-1147	-1310	-1475	-1503	-1469	-1479	-1530	-1508	-1159	-1111	-1147	
4	-1319	-1284	-1440	-1539	-1559	-1534	-1562	-1648	-1613	-1217	-1176	-1259	
5	-1382	-1320	-1486	-1542	-1571	-1572	-1595	-1666	-1646	-1244	-1220	-1295	
6	-1480	-1444	-1532	-1582	-1637	-1559	-1601	-1728	-1649	-1227	-1234	-1427	
7	-1394	-1380	-1430	-1503	-1617	-1584	-1605	-1663	-1549	-1181	-1247	-1340	
8	-1224	-1219	-1184	-1191	-1213	-1197	-1238	-1301	-1206	-874	-969	-1182	
9	-396	-380	-236	-68	20	-11	-66	-138	-122	151	52	-225	
10	1112	1169	1341	1592	1792	1762	1712	1675	1684	1801	1658	1319	
11	2632	2704	2926	3133	3394	3335	3310	3369	3336	3298	3114	2781	
12	4019	4156	4219	4349	4604	4446	4590	4616	4637	4440	4115	3921	
13	4261	4438	4679	4815	4931	4864	5005	4924	4742	4513	4295	4181	
14	4606	4722	4671	4548	4653	4653	4817	4781	4533	4410	4258	4322	
15	4173	4249	3966	3819	3863	3847	3924	3807	3638	3645	3529	3763	
16	3112	3239	2931	2868	2887	2836	2874	2826	2650	2573	2527	2829	
17	2134	2144	1710	1675	1674	1638	1604	1560	1466	1446	1496	1772	
18	1077	1082	864	799	797	834	859	807	705	644	701	878	
19	346	355	241	164	164	199	215	172	102	95	89	209	
20	20	7	-138	-320	-406	-268	-233	-231	-208	-79	-57	-12	
21	-183	-204	-424	-651	-688	-634	-619	-619	-570	-371	-338	-282	
22	-357	-424	-677	-860	-940	-820	-794	-784	-713	-467	-424	-390	
23	-660	-685	-878	-1045	-1095	-1022	-1007	-1001	-935	-708	-681	-687	
	14827	15701	13262	11928	12359	12727	13123	12230	11950	15425	14388	13628	161548

Anexo Q. Flujos energéticos anuales para combinación de materiales, casa 5

Ganancias internas													
HOUR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	(Wh)	
0	341	343	344	342	342	344	342	342	344	342	343	344	
1	341	343	344	342	342	344	342	342	344	342	343	344	
2	337	337	338	337	337	338	337	337	338	337	337	338	
3	332	332	332	332	332	332	332	332	332	332	332	332	
4	434	431	429	433	433	429	433	431	431	433	431	431	
5	679	677	675	678	679	675	679	677	677	679	676	677	
6	753	754	755	754	754	755	754	754	754	754	755	754	
7	720	730	740	725	723	743	723	732	733	723	735	733	
8	683	693	703	688	686	706	686	693	698	686	696	698	
9	635	642	649	638	637	651	637	642	646	637	643	646	
10	596	598	599	597	597	599	597	597	599	597	597	599	
11	642	644	645	643	643	645	643	643	645	643	643	645	
12	769	769	769	769	769	769	769	769	769	769	769	769	
13	908	910	913	909	908	914	908	910	913	908	910	913	
14	682	690	698	686	684	700	684	690	694	684	692	694	
15	642	649	657	645	643	660	643	649	654	643	651	654	
16	642	649	657	645	643	660	643	649	654	643	651	654	
17	642	649	657	645	643	660	643	649	654	643	651	654	
18	665	676	688	670	668	691	668	678	681	668	681	681	
19	1011	1018	1024	1014	1013	1026	1013	1018	1020	1013	1020	1020	
20	1074	1074	1074	1074	1074	1074	1074	1074	1074	1074	1074	1074	
21	878	878	878	878	878	878	878	877	879	878	877	879	
22	527	529	531	528	528	532	528	531	528	528	532	528	
23	459	462	464	460	460	465	460	462	463	460	463	463	
	15392	15477	15563	15432	15416	15590	15416	15478	15524	15416	15502	15524	185730

Perdidas y ganancias por ventilación													
HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-302	-310	-352	-408	-409	-411	-409	-410	-390	-318	-307	-303	
1	-302	-310	-352	-408	-409	-411	-417	-440	-442	-328	-307	-303	
2	-377	-351	-405	-406	-405	-406	-413	-436	-438	-325	-313	-344	
3	-373	-348	-401	-403	-403	-403	-410	-433	-434	-323	-310	-340	
4	-451	-450	-456	-487	-522	-471	-491	-540	-489	-364	-375	-447	
5	-484	-484	-493	-526	-586	-589	-588	-584	-531	-433	-483	-484	
6	-427	-431	-436	-429	-427	-436	-435	-464	-466	-346	-362	-430	
7	-203	-210	-216	-207	-206	-218	-213	-241	-243	-128	-120	-153	
8	0	-4	0	-16	-17	-18	-17	-14	0	0	0	0	
9	4	0	0	0	0	0	0	0	0	6	21	19	
10	137	73	6	0	0	10	18	22	37	90	113	152	
11	163	113	76	27	25	43	97	77	48	106	132	177	
12	177	123	83	29	27	46	105	84	52	114	143	191	
13	215	129	11	0	0	18	23	6	18	143	172	193	
14	135	105	9	0	0	0	9	5	0	17	53	131	
15	92	79	2	0	0	0	0	0	0	6	21	40	
16	4	4	0	0	0	0	0	0	0	0	0	0	
17	0	0	0	-15	-16	-8	0	0	-4	0	0	0	
18	0	0	-50	-121	-154	-110	-95	-93	-79	-30	-21	-9	
19	-53	-67	-175	-252	-254	-259	-254	-256	-232	-146	-134	-111	
20	-174	-220	-334	-378	-426	-351	-334	-327	-296	-188	-170	-163	
21	-266	-274	-312	-373	-375	-375	-375	-374	-355	-285	-271	-267	
22	-281	-290	-331	-395	-397	-399	-397	-398	-375	-301	-289	-282	
23	-350	-315	-372	-405	-449	-385	-368	-364	-344	-281	-300	-362	
	-3116	-3438	-4498	-5173	-5403	-5133	-4964	-5180	-4963	-3314	-3107	-3095	-51384

Ganancias solares directas

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	159	157	227	321	375	361	323	332	375	365	350	236	
7	991	936	1041	1304	1511	1474	1431	1423	1338	1301	1340	1166	
8	2622	2277	1996	2207	2478	2438	2392	2365	2232	2533	2911	2837	
9	3942	3403	2642	2600	2888	2885	3029	2812	2720	3302	3995	4131	
10	4578	3990	2939	2586	2857	2988	3042	2808	2738	3499	4101	4342	
11	3948	3574	2706	2027	2338	2520	2484	2231	2216	3107	3723	3980	
12	3949	3425	2283	1584	1903	2112	1962	1680	1898	2903	3527	3923	
13	3914	3501	2502	1811	2062	2086	2010	1797	2082	2846	3378	3818	
14	3419	3105	2371	1739	1788	1793	1781	1709	1912	2490	2839	3198	
15	2627	2297	1652	1256	1264	1240	1189	1126	1213	1513	1962	2434	
16	1355	1196	904	712	736	750	745	673	646	723	905	1207	
17	314	333	266	204	212	248	237	179	115	67	0	202	
18	0	0	0	0	0	0	0	0	0	0	0	0	
19	0	0	0	0	0	0	0	0	0	0	0	0	
20	0	0	0	0	0	0	0	0	0	0	0	0	
21	0	0	0	0	0	0	0	0	0	0	0	0	
22	0	0	0	0	0	0	0	0	0	0	0	0	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	31818	28194	21529	18351	20412	20895	20625	19135	19485	24649	29031	31474	285598

0 Estado actual

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	25	25	23	21	21	20	22	22	24	24	25	25	
1	25	25	22	20	19	19	20	20	21	21	22	22	
2	18	18	16	13	12	12	13	13	13	14	15	16	
3	12	11	8	7	8	8	7	7	8	10	11	11	
4	14	13	12	11	11	11	10	11	11	13	13	14	
5	14	14	13	12	12	11	11	12	12	13	13	13	
6	16	16	17	18	18	17	16	17	19	20	19	17	
7	38	37	43	53	56	53	52	52	53	52	48	40	
8	94	105	124	148	157	151	147	152	158	154	140	113	
9	232	243	281	316	336	318	311	339	343	323	294	248	
10	413	439	466	489	504	466	474	508	524	491	452	406	
11	521	563	613	643	643	600	618	644	669	622	581	526	
12	773	819	875	917	920	872	877	925	951	888	828	751	
13	1055	1132	1202	1270	1287	1236	1233	1282	1298	1254	1183	1080	
14	1473	1524	1585	1651	1690	1610	1593	1710	1734	1688	1601	1480	
15	1816	1938	1978	2010	2040	1900	1950	2048	2098	1971	1830	1730	
16	1771	1924	2068	2122	2082	1980	2015	2082	2072	1901	1798	1710	
17	1846	1972	1990	1937	1893	1810	1834	1927	1930	1819	1736	1704	
18	1644	1759	1709	1610	1548	1481	1483	1526	1544	1463	1397	1471	
19	1213	1324	1272	1191	1134	1077	1078	1116	1120	1059	1014	1087	
20	789	820	719	653	622	588	575	581	582	566	581	676	
21	375	381	342	308	304	300	309	296	268	240	260	318	
22	95	105	96	85	84	93	94	78	52	33	22	65	
23	14	15	16	16	17	17	17	16	15	12	9	12	
	14286	15222	15490	15521	15418	14650	14759	15384	15519	14651	13892	13535	178327

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-397	-428	-562	-667	-699	-657	-645	-640	-598	-444	-418	-408	
1	-489	-516	-615	-728	-743	-726	-728	-748	-728	-540	-503	-489	
2	-605	-590	-682	-752	-755	-754	-757	-780	-766	-583	-554	-573	
3	-673	-629	-735	-786	-817	-772	-767	-789	-775	-592	-581	-645	
4	-741	-738	-803	-885	-929	-868	-880	-925	-858	-658	-661	-739	
5	-746	-753	-816	-909	-961	-964	-964	-961	-896	-725	-750	-744	
6	-747	-756	-807	-872	-876	-873	-888	-932	-922	-692	-682	-747	
7	-599	-584	-635	-648	-649	-652	-669	-717	-716	-475	-451	-514	
8	-362	-326	-363	-360	-352	-358	-370	-390	-370	-239	-240	-305	
9	-227	-212	-201	-192	-199	-179	-201	-218	-178	-51	-66	-177	
10	134	75	2	-19	-56	-67	-53	-27	61	206	161	143	
11	241	225	228	191	171	149	225	212	217	354	323	265	
12	658	638	644	627	628	601	660	661	653	790	769	698	
13	1148	1151	1132	1171	1187	1151	1155	1184	1219	1314	1272	1177	
14	1598	1612	1584	1629	1666	1591	1586	1699	1723	1706	1667	1614	
15	2066	2096	1968	1988	2018	1889	1949	2049	2117	2068	1976	1939	
16	1978	2055	2122	2124	2083	2001	2090	2140	2110	2021	1956	1930	
17	2048	2108	2070	1933	1885	1834	1937	2003	1964	1938	1892	1919	
18	1815	1859	1668	1460	1360	1366	1403	1431	1461	1538	1511	1625	
19	1301	1357	1117	961	901	849	858	888	911	970	971	1120	
20	784	762	483	376	309	331	331	338	361	436	487	625	
21	181	174	63	-26	-35	-39	-29	-43	-51	-11	24	95	
22	-144	-142	-188	-264	-270	-250	-241	-258	-270	-218	-219	-174	
23	-300	-270	-361	-465	-532	-429	-406	-400	-373	-270	-277	-315	
	7922	8168	6313	4887	4335	4174	4596	4777	5296	7843	7607	7320	73238

A1 Tapia pisada / Teja de barro, tierra y caña brava pañetada (cubierta tradicional)

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	41	40	37	35	36	34	37	37	39	39	41	41	
1	41	41	36	32	31	32	33	34	35	34	35	37	
2	28	29	26	21	21	21	22	22	21	23	24	26	
3	20	18	13	11	12	13	12	11	12	15	17	18	
4	21	20	17	16	17	16	15	15	16	18	19	20	
5	21	20	19	17	16	15	15	16	17	18	19	19	
6	18	17	14	12	12	11	11	11	11	12	14	16	
7	10	9	8	7	7	7	7	6	6	6	7	9	
8	12	14	21	26	27	25	23	25	30	27	22	15	
9	57	62	81	96	103	96	96	105	107	94	81	63	
10	153	154	160	167	170	160	161	176	184	178	170	151	
11	236	245	257	264	270	249	264	277	304	294	276	247	
12	435	450	492	532	542	514	518	544	564	530	492	435	
13	713	760	820	894	918	887	884	919	935	922	874	770	
14	1156	1183	1253	1328	1374	1312	1293	1399	1426	1394	1316	1189	
15	1555	1677	1756	1808	1841	1708	1751	1853	1905	1779	1620	1494	
16	1605	1765	1942	2020	1979	1870	1897	1970	1968	1798	1684	1572	
17	1799	1927	1960	1928	1879	1785	1807	1911	1926	1808	1718	1666	
18	1641	1770	1739	1646	1574	1498	1504	1556	1573	1474	1397	1467	
19	1195	1317	1276	1200	1134	1073	1076	1121	1122	1049	996	1065	
20	759	794	697	636	602	567	553	560	560	536	549	644	
21	337	348	316	288	282	279	291	277	248	215	229	282	
22	70	82	78	70	69	78	79	64	39	19	4	43	
23	11	12	15	17	19	18	18	19	19	17	15	12	
	11934	12754	13033	13071	12935	12268	12367	12928	13067	12299	11619	11301	149576

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-312	-340	-441	-514	-546	-503	-489	-484	-451	-332	-310	-306	
1	-380	-399	-471	-567	-571	-569	-573	-590	-575	-428	-397	-383	
2	-453	-443	-519	-577	-579	-577	-576	-596	-588	-440	-415	-428	
3	-527	-488	-579	-617	-648	-599	-591	-610	-601	-452	-447	-507	
4	-565	-576	-630	-700	-725	-690	-703	-742	-688	-520	-515	-562	
5	-569	-575	-628	-700	-742	-744	-744	-742	-691	-556	-575	-568	
6	-575	-583	-628	-680	-684	-681	-694	-735	-734	-543	-532	-580	
7	-501	-482	-528	-534	-538	-538	-549	-587	-586	-398	-380	-429	
8	-332	-312	-347	-360	-359	-360	-368	-384	-368	-269	-265	-301	
9	-293	-292	-283	-297	-319	-286	-298	-329	-287	-186	-192	-268	
10	-43	-111	-188	-219	-257	-258	-249	-226	-164	-39	-55	-34	
11	38	-1	-29	-70	-68	-69	-10	-33	-32	107	107	64	
12	404	365	364	354	362	352	400	389	384	506	506	465	
13	837	824	812	856	878	859	865	891	926	998	971	882	
14	1247	1246	1240	1301	1344	1288	1282	1383	1406	1402	1366	1292	
15	1780	1811	1735	1773	1806	1685	1737	1842	1913	1866	1749	1684	
16	1747	1857	1984	2011	1968	1875	1955	2009	1979	1872	1787	1723	
17	1936	2015	2003	1905	1853	1783	1864	1947	1930	1880	1819	1811	
18	1743	1819	1666	1500	1397	1377	1395	1437	1475	1508	1459	1550	
19	1230	1321	1134	997	929	869	879	919	931	936	921	1061	
20	724	722	486	392	327	340	334	341	362	414	450	562	
21	134	139	71	-4	-15	-18	-6	-19	-31	-7	13	71	
22	-143	-138	-172	-236	-241	-221	-211	-228	-243	-200	-206	-169	
23	-254	-230	-312	-406	-465	-375	-358	-351	-324	-226	-228	-262	
	6873	7149	5740	4608	4107	3940	4292	4502	4943	6893	6631	6368	66046

A2 Tapia pisada / Teja de barro, mortero y machimbre

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	41	40	37	35	36	34	37	37	39	39	41	41	
1	41	41	36	32	31	32	33	34	35	34	35	37	
2	28	29	26	21	21	21	22	22	21	23	24	26	
3	20	18	13	11	12	13	12	11	12	15	17	18	
4	21	20	17	16	17	16	15	15	16	18	19	20	
5	21	20	19	17	16	15	15	16	17	18	19	19	
6	18	17	14	12	12	11	11	11	11	12	14	16	
7	10	9	8	7	7	7	7	6	6	6	7	9	
8	12	14	21	26	27	25	23	25	30	27	22	15	
9	123	135	193	245	273	253	240	259	293	282	238	163	
10	666	679	797	930	978	912	900	948	984	945	868	720	
11	1462	1546	1677	1868	1936	1854	1857	1923	1978	1955	1854	1609	
12	2517	2587	2746	2896	2986	2851	2820	3054	3119	3036	2872	2594	
13	3332	3598	3766	3857	3918	3636	3733	3957	4063	3790	3455	3194	
14	3399	3732	4100	4264	4178	3946	4004	4156	4150	3793	3552	3319	
15	3811	4083	4151	4084	3982	3786	3831	4050	4082	3833	3641	3529	
16	3486	3759	3695	3497	3344	3183	3196	3308	3347	3138	2973	3119	
17	2554	2813	2727	2566	2424	2292	2299	2398	2402	2248	2136	2281	
18	1627	1703	1496	1365	1293	1219	1190	1205	1202	1150	1178	1380	
19	720	744	676	615	604	598	621	592	529	457	486	600	
20	144	171	160	140	137	157	160	126	71	30	0	85	
21	0	0	0	0	0	0	0	0	0	0	0	0	
22	2	2	3	4	5	4	4	4	5	5	4	3	
23	11	12	15	17	19	18	18	19	19	17	15	12	
	24066	25772	26393	26525	26256	24883	25048	26176	26431	24871	23470	22809	302700

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-538	-551	-634	-759	-765	-763	-758	-757	-717	-573	-544	-537	
1	-641	-607	-723	-820	-881	-796	-781	-791	-766	-589	-587	-654	
2	-726	-722	-835	-937	-940	-938	-937	-957	-930	-724	-691	-701	
3	-735	-733	-848	-947	-948	-946	-947	-970	-944	-732	-699	-709	
4	-766	-781	-863	-971	-997	-962	-986	-1060	-1024	-747	-719	-763	
5	-884	-846	-946	-974	-1015	-1016	-1027	-1060	-1028	-783	-792	-833	
6	-891	-855	-946	-953	-956	-953	-972	-1028	-1027	-762	-749	-846	
7	-798	-800	-813	-856	-907	-841	-871	-957	-886	-620	-629	-751	
8	-629	-631	-632	-685	-760	-763	-765	-757	-674	-544	-613	-626	
9	-500	-492	-437	-393	-369	-384	-408	-424	-391	-218	-263	-438	
10	490	431	472	591	639	584	570	586	639	831	799	641	
11	1600	1630	1726	1844	1906	1844	1897	1952	2004	2041	1966	1761	
12	2667	2678	2794	2895	2983	2865	2885	3101	3142	3132	3022	2785	
13	3731	3811	3770	3833	3894	3645	3767	3985	4127	4047	3779	3610	
14	3766	3989	4218	4284	4191	3996	4161	4274	4212	3977	3809	3706	
15	4164	4331	4254	4094	3990	3825	3965	4149	4132	4001	3872	3855	
16	3718	3889	3678	3462	3308	3167	3188	3280	3334	3275	3146	3321	
17	2723	2936	2709	2517	2373	2249	2275	2366	2361	2243	2185	2437	
18	1758	1810	1419	1219	1117	1087	1067	1083	1093	1105	1168	1413	
19	660	676	527	411	399	393	417	386	338	332	371	497	
20	19	22	-53	-131	-166	-86	-60	-93	-133	-99	-119	-35	
21	-207	-214	-328	-501	-565	-480	-463	-456	-414	-274	-252	-226	
22	-277	-302	-463	-603	-609	-606	-606	-607	-562	-398	-372	-348	
23	-424	-445	-592	-659	-733	-616	-591	-582	-538	-381	-375	-414	
	17280	18224	16454	14961	14189	13505	14020	14663	15348	17540	16713	16145	189042

A3 Tapia pisada / Teja de asbesto

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	41	40	37	35	36	34	37	37	39	39	41	41	
1	41	41	36	32	31	32	33	34	35	34	35	37	
2	28	29	26	21	21	21	22	22	21	23	24	26	
3	20	18	13	11	12	13	12	11	12	15	17	18	
4	21	20	17	16	17	16	15	15	16	18	19	20	
5	21	20	19	17	16	15	15	16	17	18	19	19	
6	18	17	14	12	12	11	11	11	11	12	14	16	
7	127	139	208	272	309	286	263	281	337	342	286	187	
8	928	951	1156	1388	1469	1367	1343	1402	1457	1397	1267	1030	
9	2299	2445	2709	3085	3219	3093	3061	3173	3250	3218	3030	2580	
10	4299	4409	4718	5028	5212	4963	4892	5305	5417	5295	5004	4483	
11	5937	6399	6700	6889	7012	6494	6677	7071	7280	6795	6197	5712	
12	6149	6757	7420	7704	7540	7124	7236	7517	7515	6861	6431	6009	
13	6846	7340	7461	7320	7130	6781	6868	7265	7317	6867	6527	6334	
14	6225	6707	6584	6228	5955	5668	5691	5889	5958	5587	5293	5559	
15	4559	5020	4865	4577	4326	4093	4105	4280	4288	4013	3812	4070	
16	2910	3046	2677	2444	2315	2182	2131	2160	2157	2065	2112	2472	
17	1303	1344	1224	1116	1095	1082	1124	1075	964	837	889	1090	
18	273	321	300	264	260	294	300	240	141	64	11	165	
19	4	5	4	4	4	4	4	3	2	1	0	2	
20	0	0	0	0	0	0	0	0	0	0	0	0	
21	0	0	0	0	0	0	0	0	0	0	0	0	
22	2	2	3	4	5	4	4	4	5	5	4	3	
23	11	12	15	17	19	18	18	19	19	17	15	12	
	42062	45082	46206	46484	46015	43595	43862	45830	46258	43523	41047	39885	529849

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-1367	-1399	-1594	-1861	-1871	-1868	-1864	-1863	-1768	-1439	-1383	-1366	
1	-1352	-1394	-1598	-1869	-1878	-1876	-1879	-1896	-1817	-1448	-1382	-1355	
2	-1425	-1437	-1646	-1879	-1886	-1884	-1911	-2019	-2027	-1498	-1400	-1399	
3	-1726	-1615	-1873	-1895	-1894	-1892	-1921	-2032	-2041	-1507	-1441	-1572	
4	-1757	-1663	-1888	-1920	-1943	-1908	-1949	-2077	-2044	-1506	-1461	-1626	
5	-1875	-1876	-1922	-2049	-2208	-2042	-2102	-2275	-2065	-1550	-1621	-1866	
6	-1882	-1884	-1923	-2035	-2231	-2233	-2240	-2248	-2078	-1666	-1830	-1887	
7	-1627	-1617	-1549	-1487	-1454	-1477	-1533	-1621	-1568	-1047	-1139	-1513	
8	88	101	309	524	605	504	452	424	486	863	782	411	
9	2286	2412	2687	2987	3113	2991	2959	3085	3223	3210	3038	2584	
10	4457	4481	4712	5008	5192	4954	4891	5308	5439	5408	5208	4719	
11	6775	6861	6782	6892	7011	6564	6841	7234	7493	7344	6890	6637	
12	7007	7344	7803	7820	7648	7326	7729	7905	7747	7410	7124	6939	
13	7685	7904	7787	7414	7217	6957	7293	7591	7518	7407	7204	7220	
14	6934	7139	6602	6201	5925	5696	5747	5890	5990	6006	5824	6201	
15	5107	5437	4868	4542	4290	4059	4102	4262	4256	4060	4003	4548	
16	3317	3383	2655	2409	2279	2147	2096	2125	2124	2066	2184	2634	
17	1305	1343	1194	1067	1044	1038	1088	1037	923	810	864	1068	
18	240	291	221	52	10	124	176	118	15	9	-35	127	
19	-64	-72	-359	-735	-885	-668	-624	-610	-535	-257	-206	-139	
20	-295	-364	-764	-1052	-1089	-1042	-1034	-1034	-936	-598	-544	-474	
21	-641	-762	-1077	-1234	-1359	-1171	-1128	-1111	-1017	-691	-641	-618	
22	-1025	-1056	-1201	-1430	-1438	-1434	-1435	-1436	-1359	-1087	-1038	-1024	
23	-1069	-1069	-1220	-1433	-1465	-1422	-1414	-1411	-1336	-1070	-1041	-1069	
	29096	30488	27006	24037	22733	21443	22340	23346	24623	29229	27959	27180	309480

A4 Tapia pisada / Teja termoacústica (Estrutech)

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	41	40	37	35	36	34	37	37	39	39	41	41	
1	41	41	36	32	31	32	33	34	35	34	35	37	
2	28	29	26	21	21	21	22	22	21	23	24	26	
3	20	18	13	11	12	13	12	11	12	15	17	18	
4	21	20	17	16	17	16	15	15	16	18	19	20	
5	21	20	19	17	16	15	15	16	17	18	19	19	
6	18	17	14	12	12	11	11	11	11	12	14	16	
7	10	9	8	7	7	7	7	6	6	6	7	9	
8	29	33	50	64	71	66	60	65	78	77	63	42	
9	191	199	247	295	314	292	289	306	316	294	263	211	
10	480	501	544	603	625	598	594	624	643	634	601	519	
11	811	833	869	903	926	876	887	953	981	952	908	832	
12	1030	1106	1141	1151	1157	1083	1116	1183	1219	1131	1039	972	
13	990	1088	1182	1205	1173	1113	1134	1181	1175	1075	1011	958	
14	1044	1113	1121	1098	1071	1021	1033	1091	1098	1032	980	956	
15	943	1014	996	945	904	862	865	895	905	850	805	845	
16	693	762	739	696	658	624	626	654	655	613	581	619	
17	444	465	411	377	357	336	328	334	333	319	326	379	
18	202	209	191	174	171	169	176	168	150	130	138	169	
19	41	49	46	40	40	45	46	36	20	8	0	24	
20	0	0	0	0	0	0	0	0	0	0	0	0	
21	0	0	0	0	0	0	0	0	0	0	0	0	
22	2	2	3	4	5	4	4	4	5	5	4	3	
23	11	12	15	17	19	18	18	19	19	17	15	12	
	7111	7580	7725	7723	7643	7256	7328	7665	7754	7302	6910	6727	88724

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-339	-330	-387	-448	-468	-443	-433	-431	-406	-325	-319	-340	
1	-327	-344	-408	-486	-489	-487	-490	-507	-496	-368	-342	-330	
2	-400	-388	-456	-496	-497	-495	-494	-514	-509	-380	-360	-374	
3	-408	-398	-469	-506	-505	-503	-508	-540	-544	-392	-367	-383	
4	-471	-465	-507	-531	-555	-519	-536	-584	-547	-391	-391	-454	
5	-474	-464	-505	-531	-572	-574	-577	-584	-550	-428	-451	-460	
6	-493	-495	-509	-524	-540	-519	-533	-574	-552	-408	-418	-497	
7	-355	-358	-363	-378	-403	-403	-409	-426	-406	-277	-286	-312	
8	-170	-169	-150	-151	-145	-149	-158	-161	-137	-84	-103	-156	
9	91	95	138	179	194	177	171	178	188	231	222	153	
10	621	571	538	576	597	580	585	621	665	719	711	670	
11	951	923	920	906	925	895	956	1005	1007	1041	1030	993	
12	1249	1237	1193	1149	1154	1102	1191	1242	1261	1266	1214	1212	
13	1192	1208	1210	1194	1161	1121	1176	1202	1188	1201	1170	1154	
14	1208	1229	1144	1084	1053	1017	1068	1112	1100	1084	1072	1123	
15	1083	1108	972	910	869	833	838	862	878	881	862	927	
16	732	786	713	661	623	589	595	620	621	593	579	652	
17	472	483	382	328	306	293	292	296	292	294	311	376	
18	172	180	111	28	-5	38	52	46	41	75	92	131	
19	-27	-26	-103	-170	-173	-163	-158	-170	-172	-117	-115	-79	
20	-125	-149	-235	-302	-348	-278	-265	-263	-235	-142	-129	-124	
21	-225	-236	-304	-378	-384	-384	-384	-384	-358	-272	-261	-249	
22	-257	-277	-336	-388	-404	-380	-376	-375	-352	-264	-252	-253	
23	-341	-320	-368	-412	-440	-397	-389	-386	-366	-291	-298	-341	
	3359	3401	2221	1314	954	951	1214	1285	1611	3246	3171	3039	25766

B1 Ladrillo macizo (temoza) / Teja de barro, tierra y caña brava pañetada

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	10	11	18	23	25	23	21	23	29	27	22	14	
9	57	62	81	96	103	96	96	105	107	94	81	63	
10	153	154	160	167	170	160	161	176	184	178	170	151	
11	331	351	419	479	505	466	459	491	565	539	484	382	
12	988	1033	1224	1413	1509	1425	1421	1509	1526	1397	1272	1055	
13	2199	2205	2266	2417	2512	2405	2398	2541	2581	2581	2532	2274	
14	3224	3214	3117	3102	3181	3007	3159	3287	3386	3357	3362	3242	
15	3621	3728	3583	3434	3427	3309	3430	3575	3663	3508	3394	3335	
16	3036	3214	3247	3074	3013	2934	2997	3083	3048	2937	2893	2896	
17	2794	2826	2617	2482	2505	2441	2415	2473	2531	2577	2559	2567	
18	2685	2763	2605	2440	2414	2302	2283	2317	2396	2401	2379	2499	
19	2233	2349	2225	2053	1950	1842	1852	1930	1962	1969	1928	2039	
20	1649	1639	1404	1250	1194	1126	1097	1101	1108	1134	1253	1466	
21	828	817	718	635	626	617	629	598	546	515	569	716	
22	188	217	199	170	167	190	187	149	92	45	0	115	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	23996	24583	23883	23235	23301	22343	22605	23358	23724	23259	22898	22814	279999

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-576	-659	-904	-1032	-1131	-988	-955	-941	-874	-615	-572	-559	
1	-857	-879	-996	-1188	-1193	-1193	-1199	-1217	-1176	-924	-874	-857	
2	-917	-913	-1040	-1189	-1193	-1193	-1199	-1217	-1176	-924	-881	-891	
3	-1138	-1028	-1200	-1288	-1398	-1240	-1213	-1220	-1180	-939	-963	-1129	
4	-1191	-1209	-1333	-1513	-1542	-1508	-1521	-1559	-1466	-1171	-1146	-1187	
5	-1191	-1209	-1333	-1515	-1559	-1560	-1561	-1560	-1469	-1199	-1198	-1188	
6	-1193	-1214	-1329	-1490	-1497	-1493	-1520	-1607	-1608	-1199	-1148	-1191	
7	-1253	-1183	-1333	-1341	-1345	-1345	-1371	-1454	-1455	-1047	-1004	-1113	
8	-1076	-1006	-1146	-1161	-1161	-1163	-1186	-1247	-1232	-913	-882	-978	
9	-1094	-1092	-1094	-1152	-1232	-1116	-1161	-1282	-1151	-829	-859	-1063	
10	-840	-907	-991	-1071	-1209	-1212	-1203	-1173	-1026	-745	-844	-827	
11	-659	-684	-650	-635	-610	-633	-610	-661	-618	-283	-344	-588	
12	561	548	698	841	936	869	896	901	889	1131	1069	802	
13	2342	2280	2278	2369	2460	2365	2367	2508	2597	2677	2648	2405	
14	3350	3300	3130	3104	3183	3011	3175	3298	3390	3399	3482	3414	
15	4232	4080	3608	3434	3427	3348	3501	3657	3801	3862	3848	3949	
16	3572	3588	3493	3160	3094	3071	3312	3333	3201	3278	3322	3471	
17	3325	3196	2861	2554	2570	2570	2729	2723	2681	2917	2985	3136	
18	3140	3033	2584	2329	2273	2243	2244	2245	2364	2680	2726	2899	
19	2544	2571	2134	1885	1780	1673	1706	1774	1809	1915	1978	2299	
20	1866	1783	1233	1044	960	936	917	924	949	1055	1232	1512	
21	671	653	509	382	371	363	375	344	306	325	388	540	
22	10	32	-15	-135	-147	-94	-68	-105	-159	-145	-181	-62	
23	-247	-224	-418	-681	-818	-616	-575	-559	-500	-300	-281	-281	
	13381	12857	8746	5711	5019	5095	5880	5905	6897	12006	12501	12513	106511

B2 Ladrillo macizo (temoza) / Teja de barro, mortero y machimbre

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	10	11	18	23	25	23	21	23	29	27	22	14	
9	123	135	193	245	273	253	240	259	293	282	238	163	
10	666	679	797	930	978	912	900	948	984	945	868	720	
11	1556	1652	1838	2083	2171	2071	2052	2138	2238	2201	2062	1744	
12	3070	3170	3478	3776	3953	3761	3723	4019	4080	3903	3652	3214	
13	4818	5044	5212	5379	5512	5154	5247	5578	5709	5449	5113	4698	
14	5467	5763	5963	6039	5984	5641	5870	6044	6110	5756	5598	5372	
15	5876	6135	5978	5710	5568	5387	5511	5772	5840	5562	5415	5370	
16	4918	5209	5001	4551	4377	4247	4296	4421	4427	4277	4183	4443	
17	3550	3712	3384	3119	3049	2948	2907	2960	3007	3017	2977	3181	
18	2671	2696	2362	2159	2134	2023	1969	1966	2026	2078	2160	2412	
19	1757	1776	1624	1468	1419	1366	1397	1402	1369	1377	1418	1573	
20	1034	1015	866	754	729	716	703	666	620	628	704	907	
21	491	469	401	347	343	338	338	320	298	300	340	434	
22	120	136	124	104	102	116	112	89	58	31	0	75	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	36127	37602	37239	36687	36617	34956	35286	36605	37088	35833	34750	34320	433110

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-802	-870	-1096	-1276	-1350	-1247	-1224	-1214	-1141	-856	-806	-790	
1	-1118	-1087	-1247	-1441	-1504	-1420	-1407	-1418	-1368	-1086	-1064	-1127	
2	-1191	-1193	-1357	-1548	-1554	-1554	-1560	-1578	-1519	-1209	-1157	-1164	
3	-1346	-1274	-1469	-1618	-1698	-1587	-1570	-1580	-1523	-1219	-1215	-1332	
4	-1392	-1415	-1567	-1785	-1815	-1780	-1804	-1876	-1803	-1397	-1350	-1388	
5	-1507	-1480	-1651	-1789	-1832	-1833	-1844	-1877	-1806	-1426	-1415	-1454	
6	-1509	-1485	-1646	-1763	-1769	-1765	-1797	-1899	-1901	-1417	-1365	-1457	
7	-1550	-1501	-1618	-1664	-1715	-1649	-1692	-1824	-1755	-1269	-1253	-1435	
8	-1374	-1325	-1431	-1487	-1562	-1566	-1583	-1619	-1538	-1188	-1230	-1303	
9	-1301	-1292	-1248	-1248	-1282	-1215	-1271	-1378	-1255	-861	-930	-1234	
10	-307	-365	-331	-261	-312	-370	-384	-360	-223	125	10	-151	
11	903	947	1106	1279	1364	1280	1297	1324	1418	1651	1516	1109	
12	2823	2861	3128	3381	3556	3382	3380	3612	3646	3758	3584	3121	
13	5235	5268	5237	5346	5476	5151	5269	5602	5798	5727	5456	5132	
14	5868	6043	6108	6087	6030	5718	6053	6189	6197	5974	5924	5829	
15	6616	6600	6127	5756	5612	5488	5729	5964	6020	5997	5971	6120	
16	5543	5620	5186	4611	4435	4364	4544	4604	4556	4681	4682	5069	
17	4112	4117	3568	3166	3091	3037	3140	3142	3112	3279	3351	3761	
18	3155	3024	2337	2048	1992	1953	1915	1890	1982	2277	2436	2762	
19	1974	1926	1526	1300	1250	1197	1244	1242	1216	1311	1427	1735	
20	1160	1083	694	522	466	510	523	490	454	542	662	914	
21	329	300	109	-115	-179	-99	-82	-93	-77	58	123	243	
22	-124	-133	-307	-502	-515	-478	-462	-484	-479	-343	-347	-241	
23	-417	-439	-698	-934	-1086	-857	-809	-790	-714	-455	-427	-432	
	23780	23930	19460	16065	15099	14660	15605	16069	17297	22654	22583	22287	229489

B3 Ladrillo macizo (temoza) / Teja de asbesto

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	117	129	200	265	302	279	256	275	331	336	280	179	
8	925	949	1154	1385	1467	1365	1340	1400	1456	1396	1267	1029	
9	2299	2445	2709	3085	3219	3093	3061	3173	3250	3218	3030	2580	
10	4299	4409	4718	5028	5212	4963	4892	5305	5417	5295	5004	4483	
11	6031	6505	6862	7104	7247	6711	6873	7286	7540	7041	6406	5847	
12	6702	7340	8152	8584	8507	8035	8139	8482	8476	7728	7211	6629	
13	8332	8786	8906	8843	8725	8299	8382	8886	8964	8526	8185	7839	
14	8293	8738	8447	8002	7761	7362	7557	7777	7918	7550	7339	7611	
15	6625	7071	6692	6203	5912	5694	5785	6002	6046	5742	5586	5911	
16	4341	4496	3983	3497	3348	3247	3231	3272	3237	3204	3322	3796	
17	2299	2243	1880	1669	1720	1737	1732	1637	1569	1606	1730	1991	
18	1317	1314	1166	1058	1100	1098	1078	1001	964	992	993	1196	
19	1041	1037	953	857	820	773	779	812	842	921	933	976	
20	890	844	707	614	592	559	544	540	548	598	704	822	
21	491	469	401	347	343	338	338	320	298	300	340	434	
22	120	136	124	104	102	116	112	89	58	31	0	75	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	54122	56911	57054	56645	56377	53669	54099	56257	56914	54484	52330	51398	660260

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-1631	-1718	-2057	-2378	-2456	-2353	-2330	-2320	-2192	-1722	-1645	-1619	
1	-1829	-1874	-2123	-2489	-2500	-2500	-2506	-2524	-2418	-1945	-1859	-1829	
2	-1889	-1908	-2167	-2491	-2500	-2500	-2533	-2640	-2616	-1983	-1866	-1862	
3	-2337	-2156	-2495	-2567	-2644	-2533	-2543	-2642	-2620	-1994	-1957	-2194	
4	-2383	-2297	-2592	-2733	-2761	-2726	-2767	-2893	-2823	-2157	-2092	-2250	
5	-2498	-2510	-2628	-2863	-3025	-2858	-2919	-3092	-2843	-2192	-2244	-2486	
6	-2500	-2514	-2623	-2845	-3044	-3045	-3066	-3119	-2952	-2321	-2446	-2498	
7	-2379	-2318	-2353	-2294	-2262	-2285	-2355	-2488	-2437	-1696	-1763	-2197	
8	-656	-593	-490	-277	-196	-298	-365	-439	-378	219	165	-266	
9	1485	1611	1876	2132	2200	2161	2096	2131	2359	2567	2371	1789	
10	3660	3685	3910	4156	4240	4000	3937	4361	4577	4701	4419	3927	
11	6078	6178	6161	6327	6469	6001	6241	6607	6908	6954	6439	5985	
12	7163	7527	8137	8306	8221	7842	8225	8417	8251	8036	7687	7276	
13	9190	9361	9254	8927	8800	8463	8795	9208	9189	9086	8881	8743	
14	9037	9193	8492	8005	7763	7418	7640	7805	7975	8004	7940	8323	
15	7559	7707	6741	6203	5912	5722	5866	6076	6143	6055	6102	6813	
16	5142	5114	4163	3558	3405	3344	3453	3449	3345	3471	3719	4382	
17	2695	2525	2053	1716	1761	1826	1953	1813	1674	1846	2031	2393	
18	1637	1505	1138	881	885	990	1025	925	904	1180	1232	1476	
19	1250	1178	641	153	-33	136	203	245	344	722	850	1099	
20	846	697	-18	-399	-457	-446	-451	-451	-349	43	238	475	
21	-104	-248	-640	-849	-973	-790	-747	-748	-680	-360	-265	-149	
22	-872	-887	-1045	-1329	-1344	-1307	-1291	-1313	-1276	-1033	-1013	-917	
23	-1061	-1062	-1326	-1708	-1818	-1662	-1631	-1619	-1511	-1144	-1093	-1088	
	35603	36196	30009	25142	23643	22600	23930	24749	26574	34337	33831	33326	349940

B4 Ladrillo macizo (temoza) / Teja termoacústica (Estrutech)

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	27	30	47	62	69	64	58	63	77	76	63	40	
9	191	199	247	295	314	292	289	306	316	294	263	211	
10	480	501	544	603	625	598	594	624	643	634	601	519	
11	905	938	1031	1118	1161	1093	1082	1167	1241	1198	1116	967	
12	1584	1689	1872	2031	2124	1993	2019	2148	2180	1998	1819	1592	
13	2477	2534	2627	2728	2767	2631	2647	2802	2822	2734	2669	2463	
14	3112	3144	2985	2873	2878	2715	2899	2979	3058	2995	3026	3008	
15	3008	3066	2823	2571	2490	2463	2545	2617	2663	2579	2579	2686	
16	2124	2211	2045	1749	1692	1689	1727	1766	1735	1752	1791	1943	
17	1440	1364	1068	930	982	991	937	896	938	1088	1167	1280	
18	1246	1202	1057	968	1011	973	954	929	974	1058	1120	1201	
19	1079	1081	995	893	855	814	821	845	861	928	933	998	
20	890	844	707	614	592	559	544	540	548	598	704	822	
21	491	469	401	347	343	338	338	320	298	300	340	434	
22	120	136	124	104	102	116	112	89	58	31	0	75	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	19174	19408	18573	17886	18005	17329	17566	18091	18412	18263	18191	18239	219137

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-602	-648	-850	-966	-1053	-928	-899	-888	-830	-608	-581	-593	
1	-803	-824	-933	-1106	-1111	-1111	-1117	-1135	-1098	-864	-819	-803	
2	-864	-858	-978	-1107	-1111	-1111	-1117	-1135	-1098	-864	-826	-837	
3	-1019	-939	-1090	-1177	-1255	-1144	-1130	-1150	-1123	-879	-883	-1005	
4	-1097	-1098	-1211	-1344	-1372	-1337	-1353	-1401	-1326	-1042	-1022	-1078	
5	-1097	-1098	-1211	-1346	-1389	-1390	-1393	-1402	-1329	-1070	-1074	-1080	
6	-1111	-1126	-1210	-1334	-1353	-1331	-1359	-1445	-1426	-1063	-1034	-1108	
7	-1107	-1059	-1167	-1186	-1210	-1211	-1231	-1293	-1275	-926	-910	-996	
8	-914	-863	-949	-952	-946	-952	-975	-1023	-1000	-728	-721	-833	
9	-710	-706	-672	-676	-718	-654	-692	-776	-676	-412	-445	-643	
10	-176	-225	-265	-276	-354	-374	-369	-325	-197	12	-78	-123	
11	254	240	300	341	383	331	355	377	421	651	579	341	
12	1405	1420	1526	1635	1728	1619	1686	1754	1766	1891	1777	1549	
13	2696	2665	2676	2707	2743	2627	2678	2819	2860	2880	2847	2677	
14	3310	3283	3034	2888	2892	2739	2960	3026	3085	3081	3187	3245	
15	3535	3377	2844	2571	2490	2496	2602	2676	2766	2877	2961	3192	
16	2557	2517	2221	1810	1749	1785	1951	1944	1843	1998	2114	2400	
17	1861	1664	1241	977	1024	1080	1158	1072	1043	1330	1477	1701	
18	1569	1394	1028	857	870	903	901	854	930	1246	1359	1480	
19	1288	1224	897	718	678	641	669	686	706	862	941	1159	
20	1016	912	511	351	285	319	318	320	352	499	652	825	
21	311	278	134	8	2	-3	-3	-21	-21	59	114	220	
22	-104	-107	-180	-287	-309	-253	-232	-252	-269	-210	-226	-146	
23	-334	-314	-474	-687	-793	-637	-606	-594	-541	-365	-350	-360	
	9864	9109	5222	2419	1870	2104	2802	2688	3563	8355	9039	9184	66219

C1 Ladrillo perforado (estructural) / Teja de barro, tierra y caña brava pañetada

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	10	11	18	23	25	23	21	23	29	27	22	14	
9	57	62	81	96	103	96	96	105	107	94	81	63	
10	153	154	160	167	170	160	161	176	184	178	170	151	
11	265	277	306	329	341	314	323	342	383	368	339	287	
12	603	627	714	799	835	790	791	836	855	793	728	623	
13	1162	1197	1258	1355	1400	1346	1342	1410	1433	1424	1376	1225	
14	1782	1798	1817	1864	1921	1825	1858	1970	2019	1988	1935	1810	
15	2180	2297	2309	2300	2321	2192	2259	2374	2437	2302	2157	2051	
16	2038	2203	2337	2339	2292	2192	2230	2307	2294	2143	2050	1973	
17	2100	2199	2159	2096	2069	1984	1991	2081	2109	2041	1973	1939	
18	1957	2070	2001	1886	1828	1741	1740	1786	1822	1754	1694	1780	
19	1509	1630	1564	1458	1381	1306	1311	1366	1376	1327	1278	1360	
20	1028	1050	911	822	781	736	718	724	726	717	762	893	
21	486	490	438	393	386	382	393	374	338	306	332	413	
22	104	122	113	97	96	109	109	86	51	23	0	63	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	15434	16187	16186	16024	15949	15196	15343	15960	16163	15485	14897	14645	187469

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-504	-568	-765	-874	-952	-840	-815	-804	-749	-535	-500	-490	
1	-720	-738	-837	-996	-1000	-1000	-1006	-1024	-993	-777	-734	-720	
2	-781	-773	-881	-997	-1000	-1000	-1006	-1024	-993	-777	-741	-754	
3	-951	-861	-1004	-1073	-1158	-1037	-1017	-1027	-997	-789	-804	-938	
4	-998	-1012	-1110	-1253	-1281	-1246	-1259	-1297	-1218	-967	-950	-994	
5	-998	-1012	-1110	-1255	-1298	-1299	-1299	-1298	-1221	-995	-1002	-995	
6	-1000	-1016	-1105	-1229	-1235	-1232	-1254	-1326	-1326	-989	-952	-999	
7	-1011	-957	-1073	-1080	-1084	-1084	-1105	-1173	-1173	-837	-802	-893	
8	-834	-781	-886	-900	-899	-901	-920	-966	-951	-703	-681	-758	
9	-833	-831	-827	-869	-929	-842	-877	-968	-866	-618	-641	-803	
10	-579	-646	-725	-787	-892	-895	-885	-858	-739	-511	-583	-565	
11	-463	-496	-501	-523	-512	-523	-480	-529	-518	-243	-271	-423	
12	311	278	324	364	399	371	407	385	376	612	602	468	
13	1306	1275	1270	1319	1361	1319	1323	1387	1449	1520	1491	1356	
14	1905	1883	1830	1867	1923	1829	1873	1981	2024	2026	2039	1969	
15	2674	2587	2329	2300	2321	2223	2313	2437	2544	2578	2513	2535	
16	2454	2494	2526	2405	2354	2297	2472	2500	2413	2405	2380	2418	
17	2511	2486	2348	2148	2116	2082	2233	2274	2224	2302	2301	2378	
18	2308	2278	1974	1775	1687	1674	1690	1711	1780	1962	1957	2086	
19	1741	1790	1467	1290	1211	1137	1160	1207	1223	1264	1296	1543	
20	1174	1135	739	616	547	546	537	547	566	633	725	908	
21	325	323	229	140	132	128	139	120	98	116	151	237	
22	-73	-63	-102	-196	-206	-168	-146	-168	-198	-167	-181	-114	
23	-247	-224	-382	-591	-703	-537	-503	-491	-442	-278	-265	-275	
	6717	6551	3728	1601	902	1002	1575	1596	2313	6232	6348	6177	44742

C2 Ladrillo perforado (estructural) / Teja de barro, mortero y machimbre

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	10	11	18	23	25	23	21	23	29	27	22	14	
9	123	135	193	245	273	253	240	259	293	282	238	163	
10	666	679	797	930	978	912	900	948	984	945	868	720	
11	1490	1578	1726	1933	2007	1920	1916	1988	2056	2030	1917	1650	
12	2684	2764	2967	3163	3278	3127	3094	3346	3410	3298	3108	2782	
13	3782	4035	4204	4317	4400	4095	4191	4447	4561	4292	3956	3649	
14	4024	4347	4664	4801	4725	4459	4569	4727	4743	4387	4171	3941	
15	4436	4704	4704	4576	4462	4270	4339	4571	4614	4356	4178	4087	
16	3920	4198	4090	3816	3657	3505	3529	3645	3674	3483	3339	3520	
17	2856	3085	2926	2734	2613	2491	2483	2568	2585	2480	2390	2553	
18	1943	2004	1758	1605	1547	1463	1426	1435	1451	1431	1475	1693	
19	1034	1056	963	873	851	830	856	837	783	736	768	895	
20	413	426	373	326	316	326	324	290	237	211	213	334	
21	149	142	121	105	104	102	102	97	90	91	103	131	
22	36	41	38	32	31	35	34	27	18	9	0	23	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	27566	29205	29542	29479	29267	27811	28024	29208	29528	28058	26746	26155	340589

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-729	-779	-957	-1119	-1171	-1100	-1084	-1077	-1015	-776	-734	-721	
1	-981	-946	-1088	-1249	-1311	-1227	-1214	-1225	-1184	-938	-924	-990	
2	-1054	-1052	-1198	-1356	-1361	-1361	-1367	-1385	-1335	-1061	-1017	-1027	
3	-1159	-1107	-1273	-1403	-1458	-1383	-1374	-1387	-1339	-1069	-1056	-1140	
4	-1199	-1218	-1343	-1524	-1553	-1519	-1543	-1615	-1554	-1194	-1154	-1195	
5	-1314	-1283	-1427	-1528	-1570	-1571	-1583	-1616	-1557	-1222	-1219	-1261	
6	-1316	-1287	-1422	-1503	-1508	-1504	-1531	-1618	-1620	-1207	-1169	-1264	
7	-1308	-1276	-1358	-1403	-1453	-1387	-1426	-1543	-1474	-1059	-1051	-1215	
8	-1132	-1099	-1171	-1225	-1300	-1304	-1317	-1338	-1256	-978	-1028	-1083	
9	-1039	-1031	-982	-965	-979	-941	-986	-1063	-971	-650	-711	-974	
10	-45	-103	-65	23	4	-53	-67	-45	64	359	271	110	
11	1099	1135	1255	1391	1462	1390	1427	1455	1518	1691	1589	1275	
12	2573	2591	2755	2904	3019	2884	2892	3096	3133	3238	3118	2788	
13	4199	4262	4229	4296	4377	4105	4225	4481	4650	4569	4299	4083	
14	4423	4627	4808	4850	4770	4537	4752	4872	4830	4601	4482	4383	
15	5058	5107	4848	4622	4506	4363	4541	4744	4763	4713	4636	4706	
16	4425	4526	4219	3857	3695	3590	3705	3770	3767	3808	3740	4016	
17	3298	3407	3054	2760	2636	2548	2644	2693	2655	2665	2667	3003	
18	2323	2270	1727	1495	1406	1384	1361	1357	1399	1559	1667	1948	
19	1171	1145	860	705	681	661	699	675	630	660	745	980	
20	469	435	199	93	54	121	144	113	71	120	156	311	
21	-16	-30	-171	-358	-418	-335	-318	-317	-285	-151	-114	-59	
22	-208	-228	-393	-564	-573	-553	-540	-546	-517	-365	-347	-293	
23	-417	-439	-662	-844	-971	-778	-737	-721	-656	-433	-412	-426	
	17121	17627	14444	11955	10984	10567	11303	11760	12717	16880	16434	15955	167747

C3 Ladrillo perforado (estructural) / Teja de asbesto

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	117	129	200	265	302	279	256	275	331	336	280	179	
8	925	949	1154	1385	1467	1365	1340	1400	1456	1396	1267	1029	
9	2299	2445	2709	3085	3219	3093	3061	3173	3250	3218	3030	2580	
10	4299	4409	4718	5028	5212	4963	4892	5305	5417	5295	5004	4483	
11	5965	6431	6749	6954	7083	6559	6736	7136	7358	6869	6260	5753	
12	6317	6934	7642	7971	7832	7400	7509	7809	7805	7124	6667	6197	
13	7296	7778	7898	7781	7613	7240	7326	7756	7816	7369	7029	6790	
14	6851	7322	7148	6765	6501	6180	6256	6460	6551	6181	5913	6180	
15	5184	5641	5418	5070	4806	4578	4614	4801	4820	4536	4349	4627	
16	3343	3485	3073	2763	2627	2505	2464	2496	2484	2410	2479	2872	
17	1604	1616	1423	1283	1284	1280	1308	1245	1147	1070	1143	1363	
18	588	622	562	505	514	538	535	470	390	345	308	477	
19	318	317	291	262	251	237	239	248	256	279	282	297	
20	269	256	214	186	179	169	165	163	166	181	213	249	
21	149	142	121	105	104	102	102	97	90	91	103	131	
22	36	41	38	32	31	35	34	27	18	9	0	23	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	45560	48517	49358	49440	49025	46523	46837	48861	49355	46709	44327	43230	567742

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-1558	-1627	-1918	-2221	-2276	-2206	-2190	-2183	-2066	-1643	-1573	-1550	
1	-1692	-1733	-1963	-2298	-2307	-2307	-2313	-2331	-2235	-1797	-1719	-1692	
2	-1752	-1767	-2008	-2299	-2307	-2307	-2340	-2447	-2432	-1836	-1726	-1726	
3	-2150	-1989	-2299	-2352	-2404	-2330	-2347	-2449	-2436	-1843	-1798	-2003	
4	-2190	-2099	-2368	-2473	-2500	-2465	-2505	-2632	-2574	-1953	-1896	-2057	
5	-2305	-2312	-2404	-2603	-2764	-2596	-2658	-2831	-2594	-1989	-2048	-2293	
6	-2307	-2317	-2399	-2585	-2782	-2783	-2800	-2838	-2670	-2111	-2250	-2305	
7	-2137	-2092	-2093	-2033	-2000	-2023	-2089	-2207	-2156	-1486	-1562	-1977	
8	-414	-367	-230	-16	65	-37	-99	-158	-96	429	366	-45	
9	1746	1873	2142	2415	2503	2435	2381	2446	2643	2778	2590	2048	
10	3921	3946	4176	4440	4557	4317	4255	4676	4863	4935	4680	4188	
11	6274	6366	6310	6438	6567	6110	6370	6738	7008	6994	6512	6151	
12	6913	7257	7763	7829	7684	7345	7737	7901	7738	7517	7220	6942	
13	8153	8355	8246	7877	7700	7417	7752	8087	8041	7929	7725	7694	
14	7591	7777	7192	6767	6504	6236	6338	6488	6608	6630	6497	6877	
15	6001	6214	5462	5070	4806	4597	4679	4857	4886	4771	4768	5399	
16	4024	4020	3196	2803	2666	2570	2613	2615	2557	2599	2778	3329	
17	1880	1814	1539	1310	1307	1337	1457	1364	1217	1231	1347	1635	
18	804	750	529	327	299	421	471	392	321	463	463	663	
19	447	397	-26	-442	-602	-400	-343	-322	-242	70	168	343	
20	155	49	-512	-827	-869	-836	-831	-828	-732	-379	-269	-128	
21	-450	-578	-920	-1091	-1212	-1026	-983	-972	-888	-569	-502	-452	
22	-956	-982	-1131	-1390	-1402	-1382	-1369	-1375	-1314	-1054	-1013	-969	
23	-1061	-1062	-1290	-1618	-1703	-1584	-1560	-1550	-1453	-1122	-1077	-1081	
	28937	29893	24994	21028	19530	18503	19626	20441	21994	28564	27681	26991	288182

C4 Ladrillo perforado (estructural) / Teja termoacústica (Estrutech)

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	27	30	47	62	69	64	58	63	77	76	63	40	
9	191	199	247	295	314	292	289	306	316	294	263	211	
10	480	501	544	603	625	598	594	624	643	634	601	519	
11	839	864	918	968	997	942	946	1018	1060	1026	971	873	
12	1198	1283	1362	1417	1450	1358	1389	1475	1510	1393	1275	1160	
13	1440	1525	1620	1666	1655	1572	1592	1671	1674	1577	1513	1414	
14	1670	1728	1685	1635	1618	1534	1598	1662	1692	1626	1599	1577	
15	1568	1635	1549	1437	1384	1346	1373	1416	1437	1373	1342	1402	
16	1126	1200	1134	1015	971	946	959	990	981	957	947	1020	
17	746	737	610	545	546	534	513	504	517	552	580	652	
18	518	509	453	414	425	413	411	398	400	411	435	481	
19	355	361	333	298	287	278	280	281	275	287	282	319	
20	269	256	214	186	179	169	165	163	166	181	213	249	
21	149	142	121	105	104	102	102	97	90	91	103	131	
22	36	41	38	32	31	35	34	27	18	9	0	23	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	10612	11011	10875	10678	10655	10183	10303	10695	10856	10487	10187	10071	126613

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-530	-558	-711	-808	-874	-780	-759	-751	-704	-529	-509	-524	
1	-667	-683	-774	-914	-918	-918	-924	-942	-914	-717	-679	-667	
2	-727	-718	-818	-915	-918	-918	-924	-942	-914	-717	-686	-700	
3	-832	-772	-894	-963	-1015	-941	-934	-957	-940	-728	-724	-813	
4	-904	-901	-987	-1084	-1111	-1076	-1092	-1139	-1077	-839	-826	-885	
5	-904	-901	-987	-1086	-1128	-1128	-1132	-1140	-1080	-867	-878	-887	
6	-918	-928	-986	-1074	-1091	-1070	-1093	-1164	-1144	-853	-839	-916	
7	-865	-833	-907	-924	-949	-949	-965	-1012	-993	-716	-709	-775	
8	-672	-638	-689	-691	-685	-690	-709	-743	-719	-518	-519	-613	
9	-449	-445	-406	-393	-415	-379	-407	-462	-392	-201	-227	-383	
10	85	37	1	8	-38	-56	-51	-10	90	247	183	139	
11	450	427	448	453	481	441	485	509	521	690	652	507	
12	1155	1150	1153	1159	1190	1121	1198	1237	1253	1372	1310	1215	
13	1660	1659	1668	1657	1644	1581	1635	1698	1712	1723	1690	1628	
14	1865	1866	1734	1650	1632	1558	1659	1709	1718	1708	1745	1800	
15	1977	1884	1565	1437	1384	1371	1415	1457	1509	1593	1627	1778	
16	1439	1423	1254	1055	1009	1011	1112	1111	1054	1126	1173	1346	
17	1047	954	727	572	569	591	661	622	586	716	793	943	
18	736	640	419	304	284	334	347	320	347	529	590	667	
19	485	443	230	123	109	105	123	119	120	211	260	404	
20	325	264	17	-77	-128	-71	-61	-57	-31	77	146	222	
21	-35	-52	-146	-234	-237	-239	-239	-244	-229	-150	-123	-82	
22	-188	-202	-266	-348	-368	-327	-310	-314	-307	-231	-226	-198	
23	-334	-313	-438	-597	-678	-559	-535	-525	-483	-342	-334	-354	
	3199	2803	207	-1690	-2251	-1988	-1500	-1620	-1017	2584	2890	2852	4469

D1 Ladrillo hueco (H15) / Teja de barro, tierra y caña brava pañetada

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	10	11	18	23	25	23	21	23	29	27	22	14	
9	57	62	81	96	103	96	96	105	107	94	81	63	
10	153	154	160	167	170	160	161	176	184	178	170	151	
11	236	245	257	264	270	249	264	277	304	294	276	247	
12	455	472	525	576	589	558	558	588	617	580	535	463	
13	825	878	969	1073	1114	1072	1067	1115	1130	1098	1032	895	
14	1458	1477	1546	1637	1698	1620	1600	1728	1760	1731	1653	1495	
15	1974	2089	2134	2168	2208	2052	2129	2237	2303	2177	2035	1911	
16	2024	2181	2312	2350	2301	2194	2238	2320	2324	2149	2044	1946	
17	2089	2221	2225	2142	2089	2001	2030	2137	2145	2039	1964	1935	
18	1843	1952	1872	1758	1701	1631	1628	1670	1695	1630	1568	1650	
19	1407	1519	1452	1361	1305	1236	1234	1276	1289	1237	1195	1275	
20	969	1004	890	809	768	723	711	725	730	723	738	841	
21	518	519	460	412	402	393	401	387	359	336	372	448	
22	167	175	157	136	134	142	144	124	94	75	69	128	
23	24	28	25	21	21	24	23	18	12	6	0	15	
	14209	14987	15083	14993	14898	14174	14305	14906	15082	14374	13754	13477	174242

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-394	-429	-604	-737	-772	-726	-715	-711	-664	-481	-452	-433	
1	-538	-574	-700	-817	-850	-806	-802	-816	-787	-583	-544	-532	
2	-687	-677	-773	-866	-869	-869	-875	-893	-868	-677	-646	-661	
3	-753	-711	-820	-896	-930	-883	-879	-896	-872	-682	-670	-731	
4	-860	-835	-919	-1013	-1074	-989	-991	-1025	-959	-756	-765	-861	
5	-867	-877	-957	-1077	-1120	-1121	-1122	-1121	-1052	-857	-869	-864	
6	-869	-882	-952	-1052	-1057	-1054	-1067	-1108	-1088	-837	-819	-867	
7	-778	-765	-846	-901	-906	-906	-924	-982	-982	-695	-658	-705	
8	-670	-627	-709	-722	-721	-723	-739	-775	-759	-560	-544	-608	
9	-628	-604	-638	-647	-666	-637	-657	-708	-669	-473	-469	-572	
10	-401	-468	-544	-592	-658	-620	-624	-642	-540	-320	-347	-385	
11	-314	-351	-379	-442	-482	-489	-430	-450	-412	-206	-244	-289	
12	80	44	57	62	74	60	98	70	72	284	265	152	
13	781	772	792	871	911	881	878	896	928	1076	1041	890	
14	1574	1558	1559	1623	1683	1607	1599	1725	1764	1759	1724	1623	
15	2230	2249	2143	2168	2208	2064	2151	2261	2345	2299	2212	2146	
16	2355	2386	2393	2376	2325	2247	2353	2420	2413	2358	2308	2302	
17	2418	2451	2376	2181	2124	2078	2223	2290	2236	2248	2226	2285	
18	2144	2147	1912	1675	1585	1589	1654	1669	1684	1800	1792	1943	
19	1619	1639	1352	1193	1135	1079	1088	1115	1149	1250	1264	1430	
20	1081	1051	722	603	534	533	537	552	571	643	713	901	
21	448	427	253	159	148	139	147	133	120	153	213	314	
22	-5	-5	-58	-134	-141	-121	-111	-130	-149	-115	-112	-49	
23	-222	-196	-283	-399	-463	-360	-334	-331	-314	-225	-234	-246	
	6744	6723	4377	2616	2018	1973	2458	2543	3167	6403	6385	6183	514590

D2 Ladrillo hueco (H15) / Teja de barro, mortero y machimbre

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	10	11	18	23	25	23	21	23	29	27	22	14	
9	123	135	193	245	273	253	240	259	293	282	238	163	
10	666	679	797	930	978	912	900	948	984	945	868	720	
11	1462	1546	1677	1868	1936	1854	1857	1923	1978	1955	1854	1609	
12	2536	2609	2779	2940	3033	2895	2860	3097	3172	3086	2914	2622	
13	3444	3716	3915	4035	4114	3821	3916	4153	4258	3966	3613	3320	
14	3700	4026	4393	4573	4501	4254	4311	4485	4484	4130	3889	3625	
15	4230	4495	4530	4444	4349	4130	4210	4434	4480	4231	4056	3946	
16	3906	4176	4066	3827	3666	3507	3537	3658	3704	3489	3333	3493	
17	2845	3107	2992	2780	2634	2508	2522	2624	2621	2479	2381	2549	
18	1829	1885	1629	1477	1420	1352	1314	1319	1325	1306	1349	1563	
19	932	945	851	776	774	761	779	747	696	646	685	810	
20	355	380	352	313	303	313	317	290	242	216	189	282	
21	181	171	143	125	120	113	110	110	111	121	143	167	
22	100	95	81	71	70	69	69	65	60	61	69	88	
23	24	28	25	21	21	24	23	18	12	6	0	15	
	26343	28004	28441	28448	28217	26789	26986	28153	28449	26946	25603	24986	327365

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-620	-639	-796	-981	-990	-986	-985	-984	-930	-722	-686	-664	
1	-799	-782	-952	-1071	-1161	-1032	-1010	-1017	-979	-744	-734	-803	
2	-961	-957	-1089	-1226	-1230	-1230	-1236	-1254	-1210	-961	-922	-934	
3	-961	-957	-1089	-1226	-1230	-1230	-1236	-1256	-1215	-962	-922	-934	
4	-1061	-1041	-1152	-1284	-1346	-1261	-1274	-1343	-1295	-983	-969	-1062	
5	-1183	-1149	-1275	-1351	-1392	-1393	-1405	-1438	-1388	-1084	-1086	-1130	
6	-1185	-1153	-1270	-1326	-1330	-1326	-1344	-1401	-1382	-1056	-1036	-1133	
7	-1075	-1083	-1131	-1223	-1275	-1210	-1246	-1352	-1282	-916	-907	-1026	
8	-967	-946	-994	-1047	-1122	-1126	-1136	-1147	-1065	-835	-891	-933	
9	-835	-804	-793	-743	-715	-735	-766	-804	-773	-505	-540	-743	
10	132	74	116	218	238	222	194	170	262	550	507	290	
11	1248	1281	1377	1472	1492	1425	1477	1534	1624	1728	1615	1409	
12	2343	2357	2487	2602	2695	2573	2582	2782	2830	2910	2781	2471	
13	3674	3759	3751	3848	3927	3666	3780	3990	4129	4125	3849	3618	
14	4093	4302	4537	4606	4530	4315	4477	4615	4571	4334	4167	4038	
15	4613	4770	4663	4490	4392	4204	4379	4568	4563	4434	4335	4317	
16	4326	4418	4086	3827	3666	3540	3586	3690	3768	3761	3668	3900	
17	3206	3372	3082	2793	2644	2544	2634	2710	2667	2611	2592	2911	
18	2159	2139	1666	1394	1305	1299	1326	1314	1302	1397	1501	1805	
19	1049	994	745	608	604	604	627	583	555	646	714	866	
20	375	351	183	81	40	107	144	117	76	130	143	303	
21	106	75	-147	-338	-402	-324	-310	-304	-264	-114	-52	18	
22	-140	-170	-349	-501	-509	-506	-505	-508	-468	-313	-278	-227	
23	-392	-411	-563	-653	-731	-601	-568	-562	-528	-380	-380	-398	
	17145	17800	15093	12969	12100	11539	12185	12703	13568	17051	16469	15959	174581

D3 Ladrillo hueco (H15) / Teja de asbesto

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	117	129	200	265	302	279	256	275	331	336	280	179	
8	925	949	1154	1385	1467	1365	1340	1400	1456	1396	1267	1029	
9	2299	2445	2709	3085	3219	3093	3061	3173	3250	3218	3030	2580	
10	4299	4409	4718	5028	5212	4963	4892	5305	5417	5295	5004	4483	
11	5937	6399	6700	6889	7012	6494	6677	7071	7280	6795	6197	5712	
12	6168	6779	7453	7748	7587	7168	7276	7560	7567	6911	6473	6037	
13	6959	7459	7610	7499	7326	6966	7051	7461	7512	7043	6685	6460	
14	6527	7001	6877	6537	6278	5976	5999	6218	6292	5923	5630	5864	
15	4978	5432	5243	4937	4692	4437	4484	4663	4686	4411	4227	4486	
16	3329	3463	3048	2774	2636	2507	2472	2509	2514	2416	2472	2845	
17	1593	1638	1489	1330	1304	1298	1347	1301	1183	1069	1134	1359	
18	475	503	433	376	387	427	423	354	263	220	182	347	
19	216	206	180	165	174	167	162	158	169	189	199	212	
20	211	209	193	173	166	156	157	164	171	187	189	197	
21	181	171	143	125	120	113	110	110	111	121	143	167	
22	100	95	81	71	70	69	69	65	60	61	69	88	
23	24	28	25	21	21	24	23	18	12	6	0	15	
	44338	47315	48256	48408	47973	45502	45799	47805	48274	45597	43181	42060	554508

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-1449	-1488	-1757	-2083	-2096	-2091	-2090	-2090	-1981	-1589	-1525	-1493	
1	-1509	-1569	-1827	-2119	-2157	-2113	-2108	-2122	-2030	-1603	-1529	-1504	
2	-1659	-1672	-1900	-2168	-2176	-2176	-2209	-2316	-2307	-1735	-1631	-1632	
3	-1952	-1839	-2115	-2174	-2176	-2176	-2210	-2318	-2312	-1736	-1664	-1797	
4	-2052	-1923	-2177	-2233	-2292	-2207	-2237	-2359	-2315	-1742	-1711	-1924	
5	-2174	-2178	-2252	-2426	-2586	-2419	-2480	-2653	-2425	-1851	-1915	-2162	
6	-2176	-2183	-2247	-2408	-2604	-2606	-2613	-2620	-2433	-1960	-2117	-2174	
7	-1904	-1900	-1866	-1854	-1823	-1845	-1908	-2016	-1964	-1344	-1417	-1788	
8	-249	-214	-54	162	243	141	82	33	96	572	503	105	
9	1951	2100	2331	2637	2767	2640	2601	2705	2841	2923	2761	2280	
10	4099	4124	4356	4635	4791	4592	4515	4892	5062	5127	4916	4368	
11	6423	6512	6432	6520	6597	6145	6421	6817	7113	7031	6539	6284	
12	6683	7023	7496	7528	7360	7034	7427	7586	7435	7188	6883	6625	
13	7628	7852	7768	7429	7250	6979	7307	7597	7520	7484	7274	7228	
14	7261	7452	6921	6523	6263	6014	6064	6231	6349	6364	6182	6532	
15	5557	5876	5276	4937	4692	4438	4516	4680	4687	4492	4467	5010	
16	3925	3912	3063	2774	2636	2519	2494	2535	2558	2552	2705	3213	
17	1788	1780	1567	1343	1315	1333	1447	1380	1229	1177	1271	1542	
18	641	619	467	226	198	336	435	349	225	301	298	519	
19	325	246	-141	-539	-679	-457	-415	-414	-317	57	137	230	
20	61	-35	-529	-840	-883	-849	-831	-823	-727	-369	-281	-136	
21	-328	-473	-896	-1071	-1196	-1015	-975	-959	-867	-532	-441	-375	
22	-888	-924	-1088	-1328	-1338	-1335	-1334	-1337	-1266	-1003	-944	-903	
23	-1037	-1034	-1191	-1426	-1463	-1407	-1390	-1391	-1325	-1070	-1046	-1053	
	28965	30064	25637	22045	20643	19475	20509	21387	22846	28734	27715	26995	295015

D4 Ladrillo hueco (H15) / Teja termoacústica (Estrutech)

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	27	30	47	62	69	64	58	63	77	76	63	40	
9	191	199	247	295	314	292	289	306	316	294	263	211	
10	480	501	544	603	625	598	594	624	643	634	601	519	
11	811	833	869	903	926	876	887	953	981	952	908	832	
12	1050	1128	1174	1194	1205	1127	1156	1227	1272	1181	1081	1000	
13	1103	1206	1331	1384	1369	1298	1317	1376	1371	1251	1169	1084	
14	1346	1406	1414	1407	1395	1329	1340	1420	1432	1369	1317	1261	
15	1362	1427	1375	1305	1271	1206	1244	1278	1303	1248	1220	1261	
16	1112	1178	1110	1026	980	949	967	1003	1011	963	941	993	
17	735	759	676	591	567	552	552	560	553	550	571	648	
18	404	391	324	286	298	303	299	282	273	286	309	352	
19	253	251	222	201	210	208	204	191	188	197	199	234	
20	211	209	193	173	166	156	157	164	171	187	189	197	
21	181	171	143	125	120	113	110	110	111	121	143	167	
22	100	95	81	71	70	69	69	65	60	61	69	88	
23	24	28	25	21	21	24	23	18	12	6	0	15	
	9390	9812	9775	9647	9606	9164	9266	9640	9774	9376	9043	8902	113395

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-420	-418	-550	-671	-693	-666	-660	-658	-619	-475	-461	-467	
1	-484	-519	-638	-736	-768	-724	-720	-734	-709	-523	-489	-479	
2	-634	-622	-710	-785	-787	-787	-793	-811	-789	-617	-590	-607	
3	-634	-622	-710	-785	-787	-787	-796	-826	-815	-621	-590	-607	
4	-765	-724	-796	-844	-903	-818	-824	-867	-818	-627	-641	-753	
5	-773	-766	-835	-909	-950	-951	-954	-963	-911	-729	-745	-756	
6	-787	-794	-834	-897	-914	-892	-906	-946	-907	-701	-705	-784	
7	-633	-641	-681	-745	-771	-772	-784	-821	-802	-573	-564	-587	
8	-507	-484	-512	-513	-507	-512	-528	-552	-527	-375	-382	-463	
9	-244	-217	-217	-171	-152	-174	-187	-202	-194	-56	-55	-152	
10	263	214	182	203	197	219	209	205	288	438	419	319	
11	599	573	570	534	511	476	536	587	627	727	679	640	
12	925	916	885	857	866	810	888	923	949	1044	973	898	
13	1135	1156	1190	1209	1194	1143	1190	1207	1191	1278	1240	1162	
14	1535	1541	1463	1406	1392	1336	1384	1453	1459	1441	1430	1454	
15	1532	1546	1380	1305	1271	1212	1252	1280	1310	1314	1326	1389	
16	1340	1315	1121	1026	980	961	993	1031	1055	1079	1100	1231	
17	954	919	755	604	577	588	651	639	598	661	718	851	
18	573	509	357	203	183	250	311	277	251	367	425	524	
19	363	292	115	26	32	47	51	26	45	197	228	290	
20	231	181	0	-90	-141	-84	-61	-52	-26	87	133	214	
21	88	52	-123	-215	-221	-228	-231	-232	-208	-113	-62	-5	
22	-120	-144	-222	-286	-303	-280	-275	-276	-258	-180	-157	-132	
23	-310	-285	-339	-406	-438	-382	-365	-366	-355	-290	-303	-325	
	3227	2978	851	-680	-1132	-1015	-619	-678	-165	2753	2927	2855	113302

E1 Bloque de concreto / Teja de barro, tierra y caña brava pañetada

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	10	11	18	23	25	23	21	23	29	27	22	14	
9	57	62	81	96	103	96	96	105	107	94	81	63	
10	153	154	160	167	170	160	161	176	184	178	170	151	
11	236	245	257	264	270	249	264	277	304	294	276	247	
12	456	474	528	580	594	562	561	591	622	585	538	465	
13	835	889	982	1089	1132	1088	1084	1133	1148	1114	1046	907	
14	1485	1503	1573	1665	1727	1648	1628	1758	1790	1761	1683	1522	
15	2013	2126	2169	2201	2241	2083	2164	2271	2339	2214	2073	1949	
16	2062	2219	2346	2380	2330	2224	2269	2351	2357	2181	2076	1980	
17	2115	2248	2249	2162	2108	2021	2050	2157	2165	2060	1986	1959	
18	1862	1969	1884	1768	1712	1643	1639	1680	1707	1644	1583	1667	
19	1426	1537	1468	1376	1320	1251	1249	1290	1304	1254	1213	1294	
20	988	1023	907	825	783	737	725	740	746	740	756	859	
21	534	535	473	424	413	403	411	397	369	347	385	464	
22	177	184	164	143	141	149	150	130	100	80	75	136	
23	27	30	27	23	23	26	25	20	13	7	0	17	
	14436	15209	15286	15186	15092	14363	14497	15099	15284	14580	13963	13694	176689

E2 Bloque de concreto / Teja de barro, mortero y machimbre

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	10	11	18	23	25	23	21	23	29	27	22	14	
9	123	135	193	245	273	253	240	259	293	282	238	163	
10	666	679	797	930	978	912	900	948	984	945	868	720	
11	1462	1546	1677	1868	1936	1854	1857	1923	1978	1955	1854	1609	
12	2538	2610	2782	2944	3038	2899	2864	3101	3177	3090	2918	2624	
13	3454	3727	3928	4051	4132	3838	3933	4170	4275	3982	3627	3331	
14	3728	4052	4420	4601	4531	4282	4339	4515	4515	4161	3919	3652	
15	4268	4533	4564	4477	4382	4161	4244	4468	4516	4267	4094	3984	
16	3944	4213	4099	3857	3695	3537	3568	3689	3736	3521	3366	3527	
17	2871	3134	3016	2799	2653	2528	2543	2644	2641	2500	2404	2574	
18	1847	1902	1641	1488	1432	1364	1325	1329	1336	1320	1364	1580	
19	951	964	867	791	790	776	794	761	711	663	703	829	
20	374	399	370	329	318	327	331	305	257	233	206	300	
21	197	187	156	136	131	124	120	120	121	132	156	182	
22	109	104	89	77	76	75	75	71	66	66	75	96	
23	27	30	27	23	23	26	25	20	13	7	0	17	
	26569	28226	28644	28639	28413	26979	27179	28346	28648	27151	25814	25202	329810

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-623	-644	-807	-998	-1007	-1003	-1002	-1002	-946	-732	-695	-672	
1	-808	-794	-969	-1090	-1184	-1051	-1027	-1034	-994	-754	-743	-811	
2	-978	-974	-1109	-1250	-1254	-1254	-1260	-1278	-1233	-980	-940	-951	
3	-978	-974	-1109	-1250	-1254	-1254	-1260	-1281	-1238	-980	-940	-951	
4	-1084	-1062	-1177	-1311	-1376	-1287	-1299	-1367	-1319	-1002	-989	-1086	
5	-1207	-1173	-1303	-1384	-1425	-1426	-1438	-1471	-1419	-1110	-1110	-1154	
6	-1209	-1178	-1298	-1359	-1363	-1359	-1377	-1433	-1413	-1082	-1060	-1157	
7	-1100	-1108	-1159	-1256	-1308	-1243	-1279	-1388	-1318	-942	-931	-1051	
8	-997	-974	-1027	-1080	-1155	-1159	-1169	-1182	-1100	-862	-917	-960	
9	-865	-832	-825	-776	-748	-768	-800	-839	-809	-531	-565	-770	
10	100	41	82	182	200	187	158	131	227	523	479	257	
11	1215	1248	1344	1436	1452	1385	1437	1495	1588	1698	1583	1376	
12	2312	2326	2457	2574	2666	2544	2553	2750	2799	2888	2757	2441	
13	3667	3752	3747	3847	3927	3666	3779	3988	4127	4130	3854	3617	
14	4120	4328	4564	4632	4558	4341	4504	4644	4601	4364	4197	4065	
15	4652	4807	4697	4522	4426	4236	4414	4603	4600	4470	4375	4357	
16	4379	4464	4120	3857	3695	3570	3619	3725	3804	3803	3713	3951	
17	3247	3409	3114	2815	2666	2568	2664	2737	2691	2641	2626	2952	
18	2193	2166	1685	1407	1319	1315	1346	1332	1318	1421	1529	1838	
19	1081	1020	761	623	620	620	642	597	572	672	743	897	
20	404	378	201	96	55	122	158	133	92	149	164	331	
21	132	98	-134	-327	-391	-314	-300	-294	-254	-103	-37	37	
22	-130	-161	-342	-495	-502	-500	-499	-502	-463	-308	-272	-219	
23	-390	-408	-560	-652	-730	-600	-565	-560	-527	-380	-380	-396	
	17133	17755	14953	12763	11887	11336	11999	12504	13386	16993	16441	15941	173091

E3 Bloque de concreto / Teja de asbesto

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	117	129	200	265	302	279	256	275	331	336	280	179	
8	925	949	1154	1385	1467	1365	1340	1400	1456	1396	1267	1029	
9	2299	2445	2709	3085	3219	3093	3061	3173	3250	3218	3030	2580	
10	4299	4409	4718	5028	5212	4963	4892	5305	5417	5295	5004	4483	
11	5937	6399	6700	6889	7012	6494	6677	7071	7280	6795	6197	5712	
12	6170	6780	7456	7752	7592	7172	7279	7564	7572	6916	6477	6039	
13	6969	7469	7623	7515	7344	6983	7068	7479	7530	7059	6699	6472	
14	6554	7027	6904	6565	6308	6004	6027	6248	6322	5954	5661	5892	
15	5017	5470	5278	4970	4726	4469	4518	4698	4722	4448	4265	4524	
16	3367	3501	3082	2804	2666	2537	2503	2541	2546	2448	2505	2879	
17	1620	1665	1513	1349	1323	1317	1368	1322	1203	1090	1157	1383	
18	493	520	446	387	398	440	435	364	275	235	198	364	
19	235	225	196	180	190	182	176	172	184	206	217	231	
20	230	229	210	189	181	170	172	179	186	204	206	215	
21	197	187	156	136	131	124	120	120	121	132	156	182	
22	109	104	89	77	76	75	75	71	66	66	75	96	
23	27	30	27	23	23	26	25	20	13	7	0	17	
	44565	47538	48461	48599	48170	45693	45992	48002	48474	45805	43394	42277	556970

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-1452	-1492	-1768	-2100	-2113	-2109	-2108	-2107	-1997	-1599	-1534	-1500	
1	-1519	-1580	-1845	-2139	-2180	-2131	-2126	-2140	-2045	-1613	-1538	-1512	
2	-1676	-1690	-1920	-2192	-2200	-2200	-2233	-2340	-2331	-1754	-1649	-1650	
3	-1969	-1856	-2135	-2199	-2200	-2200	-2234	-2343	-2335	-1755	-1682	-1814	
4	-2075	-1944	-2202	-2260	-2322	-2233	-2262	-2384	-2338	-1761	-1731	-1948	
5	-2198	-2203	-2280	-2459	-2619	-2452	-2513	-2686	-2456	-1876	-1939	-2187	
6	-2200	-2207	-2275	-2441	-2637	-2639	-2646	-2653	-2464	-1985	-2141	-2198	
7	-1929	-1925	-1895	-1887	-1856	-1878	-1942	-2052	-1999	-1370	-1442	-1813	
8	-280	-243	-86	129	210	108	48	-2	60	545	478	77	
9	1920	2071	2299	2604	2734	2608	2567	2670	2805	2896	2736	2252	
10	4066	4091	4323	4599	4753	4558	4480	4852	5026	5100	4888	4335	
11	6390	6479	6399	6484	6557	6105	6381	6777	7077	7001	6506	6252	
12	6652	6992	7466	7499	7331	7005	7397	7555	7404	7166	6860	6595	
13	7621	7845	7764	7428	7251	6978	7306	7595	7518	7490	7279	7227	
14	7289	7478	6948	6550	6291	6041	6090	6260	6380	6394	6213	6560	
15	5595	5914	5311	4970	4726	4470	4551	4715	4723	4529	4506	5050	
16	3978	3958	3098	2804	2666	2550	2527	2569	2594	2594	2750	3264	
17	1829	1817	1598	1365	1336	1357	1476	1408	1253	1208	1306	1583	
18	675	646	486	239	211	352	456	367	240	325	326	552	
19	357	272	-124	-524	-663	-441	-399	-399	-301	83	165	261	
20	90	-8	-510	-824	-868	-835	-816	-808	-712	-350	-260	-108	
21	-302	-450	-883	-1060	-1185	-1004	-965	-949	-857	-520	-426	-356	
22	-878	-915	-1080	-1322	-1331	-1329	-1328	-1331	-1260	-997	-937	-895	
23	-1035	-1032	-1189	-1426	-1462	-1406	-1388	-1389	-1324	-1069	-1046	-1051	
	28949	30018	25500	21838	20430	19275	20319	21185	22661	28682	27688	26976	293521

E4 Bloque de concreto / Teja termoacústica (Estrutech)

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	27	30	47	62	69	64	58	63	77	76	63	40	
9	191	199	247	295	314	292	289	306	316	294	263	211	
10	480	501	544	603	625	598	594	624	643	634	601	519	
11	811	833	869	903	926	876	887	953	981	952	908	832	
12	1051	1130	1177	1198	1209	1131	1159	1231	1277	1185	1085	1002	
13	1113	1217	1344	1400	1387	1314	1333	1394	1388	1267	1183	1096	
14	1373	1433	1441	1435	1424	1357	1368	1449	1463	1400	1347	1289	
15	1400	1464	1409	1338	1304	1237	1278	1313	1339	1284	1258	1299	
16	1150	1216	1143	1056	1009	979	998	1035	1044	995	974	1027	
17	761	786	700	610	586	572	572	580	573	571	593	672	
18	422	408	336	296	309	315	310	293	284	301	324	369	
19	272	269	238	216	226	223	218	205	203	214	217	253	
20	230	229	210	189	181	170	172	179	186	204	206	215	
21	197	187	156	136	131	124	120	120	121	132	156	182	
22	109	104	89	77	76	75	75	71	66	66	75	96	
23	27	30	27	23	23	26	25	20	13	7	0	17	
	9614	10036	9977	9837	9799	9353	9456	9836	9974	9582	9253	9119	115836

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-424	-423	-561	-688	-711	-683	-677	-675	-635	-485	-470	-474	
1	-494	-531	-655	-756	-791	-743	-737	-751	-725	-533	-498	-487	
2	-651	-640	-730	-809	-812	-812	-817	-835	-813	-635	-608	-625	
3	-651	-640	-730	-809	-812	-812	-821	-850	-838	-640	-608	-625	
4	-789	-745	-821	-871	-933	-844	-848	-891	-841	-646	-661	-777	
5	-797	-791	-863	-941	-983	-984	-987	-996	-942	-754	-769	-780	
6	-812	-819	-862	-930	-947	-925	-938	-979	-938	-727	-730	-809	
7	-657	-666	-709	-778	-804	-805	-817	-856	-837	-600	-589	-611	
8	-538	-513	-544	-546	-540	-545	-561	-587	-563	-402	-408	-491	
9	-275	-246	-250	-204	-185	-207	-221	-237	-229	-82	-80	-179	
10	230	182	149	167	158	184	174	165	252	411	391	286	
11	566	540	537	498	471	436	496	548	591	698	646	608	
12	894	885	855	828	838	782	858	891	919	1022	950	868	
13	1128	1150	1187	1208	1194	1142	1188	1205	1189	1284	1245	1161	
14	1562	1568	1490	1433	1420	1362	1411	1482	1490	1471	1460	1482	
15	1571	1584	1414	1338	1304	1244	1287	1315	1346	1351	1365	1429	
16	1393	1361	1155	1056	1009	992	1026	1065	1091	1121	1145	1281	
17	996	956	786	626	599	611	681	667	622	692	753	891	
18	606	536	376	216	197	266	332	295	266	391	453	557	
19	395	318	131	41	48	63	67	41	62	223	257	321	
20	260	207	19	-75	-126	-70	-46	-37	-11	105	155	242	
21	113	75	-109	-203	-210	-218	-221	-222	-197	-101	-47	14	
22	-110	-135	-215	-280	-297	-274	-269	-270	-253	-174	-151	-124	
23	-307	-283	-336	-405	-437	-381	-363	-364	-354	-289	-303	-324	
	3209	2930	714	-884	-1350	-1221	-803	-876	-348	2701	2898	2834	9804

F1 Poliestireno Expandido (Durapanel)/Teja de barro, tierra y caña brava pañetada

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	10	11	18	23	25	23	21	23	29	27	22	14	
9	62	68	90	107	116	107	106	116	121	107	92	70	
10	182	184	199	213	221	208	208	227	235	224	212	184	
11	315	322	333	344	354	329	343	362	391	381	363	326	
12	544	557	591	626	637	604	616	644	668	634	600	543	
13	821	868	917	980	1001	971	973	1010	1028	1013	967	867	
14	1231	1260	1322	1383	1429	1368	1351	1457	1483	1454	1380	1259	
15	1607	1724	1791	1838	1874	1742	1783	1883	1937	1820	1664	1542	
16	1660	1817	1987	2062	2023	1912	1938	2010	2011	1847	1735	1627	
17	1853	1981	2010	1973	1923	1826	1848	1954	1970	1856	1767	1717	
18	1688	1814	1776	1678	1605	1528	1533	1584	1602	1505	1434	1511	
19	1221	1342	1298	1219	1152	1091	1094	1138	1138	1064	1013	1088	
20	765	801	704	641	607	573	559	565	563	538	549	648	
21	337	348	316	288	282	279	291	277	248	215	229	282	
22	68	80	75	66	65	74	75	59	34	14	0	40	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	12364	13177	13427	13441	13314	12635	12739	13309	13458	12699	12027	11718	154308

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-403	-431	-536	-619	-651	-606	-595	-591	-556	-424	-403	-398	
1	-505	-508	-579	-677	-689	-676	-678	-696	-680	-527	-503	-506	
2	-567	-554	-633	-694	-696	-696	-702	-720	-703	-546	-523	-541	
3	-633	-588	-680	-724	-757	-710	-706	-723	-707	-551	-547	-611	
4	-669	-675	-728	-809	-836	-801	-816	-859	-806	-623	-616	-665	
5	-687	-685	-741	-811	-852	-853	-856	-860	-809	-651	-670	-677	
6	-689	-689	-736	-786	-790	-786	-801	-847	-846	-631	-620	-680	
7	-605	-585	-632	-642	-653	-643	-659	-706	-694	-480	-465	-531	
8	-429	-409	-445	-462	-473	-476	-485	-499	-472	-354	-358	-397	
9	-382	-380	-364	-368	-385	-357	-374	-409	-367	-246	-258	-353	
10	-59	-125	-187	-203	-237	-241	-233	-213	-152	-13	-32	-29	
11	126	86	65	27	36	26	85	67	72	206	204	152	
12	533	491	484	474	484	467	525	515	513	631	639	597	
13	1007	973	932	967	988	973	985	1014	1054	1137	1118	1045	
14	1391	1375	1355	1393	1438	1383	1393	1489	1500	1510	1486	1435	
15	1902	1915	1820	1845	1881	1766	1830	1928	1992	1962	1855	1804	
16	1866	1958	2062	2088	2047	1956	2036	2086	2060	1974	1895	1837	
17	2045	2118	2085	1985	1931	1859	1943	2029	2012	1961	1906	1916	
18	1848	1915	1739	1567	1464	1442	1460	1504	1542	1570	1529	1634	
19	1290	1377	1190	1050	982	922	933	974	985	980	966	1114	
20	766	764	529	431	369	381	379	388	402	444	480	602	
21	170	174	95	2	-13	-3	11	-1	-13	17	43	104	
22	-120	-117	-173	-253	-260	-239	-229	-244	-254	-205	-206	-158	
23	-273	-257	-358	-462	-530	-428	-407	-399	-367	-260	-259	-286	
	6923	7143	5564	4319	3798	3660	4039	4227	4706	6881	6661	6408	64329

F2 Poliestireno Expandido (Durapanel) / Teja de barro, mortero y machimbre

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	10	11	18	23	25	23	21	23	29	27	22	14	
9	128	140	202	256	285	264	250	270	306	295	249	170	
10	695	709	835	976	1029	960	948	999	1035	991	909	752	
11	1540	1622	1753	1948	2020	1934	1937	2009	2065	2043	1942	1689	
12	2626	2694	2844	2990	3081	2940	2919	3153	3223	3140	2980	2702	
13	3441	3706	3863	3942	4001	3720	3822	4048	4155	3881	3548	3291	
14	3474	3809	4169	4320	4232	4002	4062	4215	4207	3853	3616	3389	
15	3863	4130	4186	4113	4015	3821	3863	4080	4114	3873	3686	3577	
16	3542	3812	3741	3539	3388	3225	3237	3348	3390	3187	3025	3173	
17	2609	2867	2777	2611	2467	2333	2340	2441	2446	2296	2185	2332	
18	1674	1748	1533	1397	1324	1249	1219	1233	1231	1181	1215	1424	
19	746	768	697	633	622	616	639	609	544	473	504	623	
20	150	178	166	145	143	163	165	131	75	31	0	89	
21	0	0	0	0	0	0	0	0	0	0	0	0	
22	0	0	0	0	0	0	0	0	0	0	0	0	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	24498	26194	26784	26893	26632	25250	25422	26559	26820	25271	23881	23225	307429

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-629	-641	-728	-863	-870	-866	-865	-864	-822	-665	-637	-629	
1	-766	-716	-830	-930	-999	-902	-887	-897	-871	-688	-692	-777	
2	-841	-833	-950	-1054	-1057	-1057	-1063	-1081	-1046	-830	-799	-814	
3	-841	-833	-950	-1054	-1057	-1057	-1063	-1083	-1050	-831	-799	-814	
4	-870	-881	-961	-1081	-1108	-1073	-1099	-1177	-1143	-850	-820	-866	
5	-1003	-956	-1059	-1085	-1125	-1126	-1139	-1178	-1145	-878	-887	-942	
6	-1005	-961	-1054	-1060	-1062	-1059	-1078	-1140	-1139	-850	-837	-945	
7	-902	-904	-917	-965	-1023	-947	-980	-1077	-995	-702	-714	-853	
8	-726	-728	-730	-788	-875	-879	-882	-872	-778	-629	-706	-722	
9	-589	-580	-518	-464	-435	-456	-483	-505	-471	-277	-328	-524	
10	475	418	473	607	659	601	585	600	650	857	822	647	
11	1688	1718	1821	1941	2010	1939	1992	2052	2108	2139	2063	1850	
12	2796	2804	2914	3014	3104	2980	3009	3226	3270	3257	3154	2917	
13	3901	3961	3890	3945	4003	3759	3887	4108	4255	4187	3926	3772	
14	3910	4118	4333	4375	4285	4091	4271	4380	4306	4085	3929	3849	
15	4285	4435	4339	4166	4065	3906	4058	4235	4210	4097	3978	3975	
16	3836	3990	3755	3539	3388	3248	3268	3356	3414	3377	3255	3435	
17	2832	3039	2792	2597	2452	2325	2354	2448	2443	2324	2272	2542	
18	1863	1907	1492	1287	1183	1152	1131	1149	1160	1166	1239	1497	
19	720	732	583	465	452	447	471	441	392	376	416	550	
20	61	65	-10	-91	-124	-45	-15	-46	-92	-68	-90	4	
21	-172	-178	-305	-495	-563	-466	-446	-438	-396	-250	-222	-193	
22	-254	-282	-464	-621	-628	-624	-623	-622	-573	-402	-373	-337	
23	-443	-471	-638	-715	-798	-669	-640	-629	-581	-415	-406	-437	
	17326	18223	16278	14670	13877	13222	13763	14386	15106	17530	16744	16185	187310

F3 Poliestireno Expandido (Durapanel) / Teja de asbesto

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	117	129	200	265	302	279	256	275	331	336	280	179	
8	925	949	1154	1385	1467	1365	1340	1400	1456	1396	1267	1029	
9	2304	2451	2718	3096	3232	3105	3071	3185	3264	3231	3041	2587	
10	4328	4440	4757	5074	5263	5011	4939	5356	5467	5341	5045	4516	
11	6015	6476	6776	6969	7096	6574	6757	7157	7366	6882	6285	5791	
12	6258	6864	7519	7798	7635	7214	7334	7616	7618	6965	6539	6117	
13	6955	7448	7557	7406	7214	6865	6956	7356	7410	6958	6620	6431	
14	6301	6784	6653	6283	6009	5724	5749	5947	6015	5647	5357	5628	
15	4611	5067	4900	4607	4359	4128	4137	4309	4320	4054	3857	4117	
16	2965	3099	2723	2486	2359	2225	2172	2200	2201	2114	2164	2526	
17	1357	1399	1274	1161	1138	1122	1165	1118	1008	886	938	1142	
18	319	366	338	297	291	324	329	268	170	96	48	208	
19	30	29	25	22	22	22	22	20	18	17	18	25	
20	6	7	7	5	5	6	6	5	3	2	0	4	
21	0	0	0	0	0	0	0	0	0	0	0	0	
22	0	0	0	0	0	0	0	0	0	0	0	0	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	42491	45508	46601	46854	46392	43964	44233	46212	46647	43925	41459	40300	534586

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-1458	-1490	-1689	-1965	-1976	-1971	-1970	-1970	-1873	-1532	-1476	-1458	
1	-1477	-1503	-1705	-1979	-1995	-1982	-1985	-2002	-1922	-1547	-1487	-1478	
2	-1539	-1549	-1760	-1996	-2003	-2003	-2036	-2143	-2143	-1605	-1508	-1512	
3	-1832	-1715	-1975	-2003	-2003	-2003	-2037	-2145	-2147	-1605	-1541	-1677	
4	-1861	-1763	-1987	-2029	-2054	-2019	-2062	-2193	-2162	-1609	-1562	-1728	
5	-1994	-1986	-2036	-2159	-2318	-2151	-2214	-2393	-2183	-1645	-1716	-1975	
6	-1996	-1990	-2031	-2142	-2337	-2338	-2347	-2360	-2190	-1754	-1918	-1986	
7	-1731	-1721	-1652	-1595	-1570	-1583	-1642	-1741	-1676	-1129	-1225	-1615	
8	-8	4	211	422	491	388	336	309	382	778	688	316	
9	2197	2324	2606	2916	3047	2920	2884	3004	3143	3150	2972	2499	
10	4441	4467	4714	5024	5212	4971	4906	5321	5450	5434	5231	4725	
11	6863	6949	6877	6989	7115	6660	6936	7335	7597	7442	6987	6725	
12	7135	7470	7923	7939	7769	7441	7854	8031	7875	7536	7257	7071	
13	7855	8053	7907	7525	7327	7071	7414	7715	7647	7546	7351	7382	
14	7078	7268	6717	6293	6018	5791	5858	5995	6085	6115	5944	6343	
15	5228	5541	4953	4614	4365	4140	4196	4347	4334	4156	4109	4668	
16	3435	3484	2733	2486	2359	2228	2177	2201	2204	2168	2292	2748	
17	1415	1447	1276	1147	1122	1114	1167	1119	1005	890	951	1173	
18	345	387	294	119	76	189	241	184	82	70	35	211	
19	-4	-15	-302	-682	-831	-615	-570	-555	-481	-213	-161	-86	
20	-253	-322	-722	-1012	-1047	-1001	-989	-987	-896	-568	-514	-435	
21	-606	-727	-1054	-1228	-1357	-1156	-1111	-1093	-999	-668	-611	-585	
22	-1002	-1036	-1202	-1448	-1457	-1453	-1452	-1451	-1371	-1092	-1038	-1013	
23	-1088	-1095	-1267	-1489	-1530	-1474	-1463	-1458	-1378	-1104	-1071	-1092	
	29143	30482	26829	23747	22423	21164	22091	23070	24383	29214	27989	27221	307756

F4 Poliestireno Expandido (Durapanel) / Teja termoacústica (Estrutech)

Ganancias solares indirectas (sol-aire)

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	27	30	47	62	69	64	58	63	77	76	63	40	
9	196	205	256	306	326	303	299	317	329	307	274	218	
10	509	532	583	650	676	646	641	675	694	680	642	551	
11	889	909	946	984	1010	956	966	1038	1068	1040	995	911	
12	1140	1213	1239	1244	1253	1172	1215	1283	1322	1235	1147	1080	
13	1099	1196	1278	1291	1256	1197	1222	1271	1268	1166	1104	1055	
14	1120	1189	1190	1154	1126	1077	1091	1149	1155	1092	1044	1026	
15	995	1062	1031	974	937	896	897	924	937	890	849	892	
16	748	814	785	738	702	666	667	694	698	661	633	674	
17	499	519	461	422	400	376	369	376	378	367	375	431	
18	249	253	228	206	202	199	205	197	179	162	175	212	
19	67	74	67	59	58	63	64	53	36	24	18	47	
20	6	7	7	5	5	6	6	5	3	2	0	4	
21	0	0	0	0	0	0	0	0	0	0	0	0	
22	0	0	0	0	0	0	0	0	0	0	0	0	
23	0	0	0	0	0	0	0	0	0	0	0	0	
	7544	8003	8118	8095	8020	7621	7700	8045	8144	7702	7319	7141	93452

Perdidas y Ganancias por conducción

HOUR	JAN (Wh)	FEB (Wh)	MAR (Wh)	APR (Wh)	MAY (Wh)	JUN (Wh)	JUL (Wh)	AUG (Wh)	SEP (Wh)	OCT (Wh)	NOV (Wh)	DEC (Wh)	
0	-429	-420	-482	-552	-573	-546	-540	-537	-511	-418	-412	-432	
1	-451	-453	-516	-595	-607	-593	-596	-614	-601	-467	-447	-453	
2	-514	-499	-570	-613	-614	-614	-620	-638	-625	-486	-467	-487	
3	-514	-499	-570	-613	-614	-614	-623	-653	-650	-491	-467	-487	
4	-575	-564	-605	-640	-665	-631	-648	-701	-666	-494	-492	-557	
5	-593	-574	-618	-642	-682	-683	-688	-702	-668	-523	-546	-568	
6	-607	-601	-617	-631	-646	-624	-639	-685	-664	-495	-507	-597	
7	-460	-461	-466	-486	-518	-509	-518	-545	-514	-359	-371	-414	
8	-266	-266	-248	-253	-259	-265	-274	-276	-240	-169	-197	-252	
9	2	6	57	108	128	105	95	97	108	171	156	67	
10	605	558	540	592	618	598	600	634	676	745	734	676	
11	1039	1010	1015	1004	1029	990	1050	1105	1111	1139	1127	1081	
12	1378	1363	1312	1268	1275	1217	1315	1368	1390	1391	1347	1344	
13	1361	1358	1330	1306	1271	1235	1297	1325	1317	1340	1317	1316	
14	1352	1358	1259	1176	1147	1112	1178	1217	1195	1192	1192	1265	
15	1204	1212	1057	981	944	914	932	947	957	978	968	1047	
16	851	887	790	738	702	670	675	697	701	694	687	766	
17	581	586	464	408	385	369	371	377	374	375	398	481	
18	277	277	184	96	61	102	117	112	108	136	162	215	
19	33	30	-47	-117	-120	-110	-105	-115	-118	-73	-70	-26	
20	-83	-106	-193	-262	-306	-237	-220	-216	-195	-112	-99	-85	
21	-190	-201	-281	-372	-383	-370	-367	-366	-340	-248	-232	-216	
22	-234	-256	-337	-406	-422	-398	-393	-391	-363	-269	-252	-242	
23	-360	-346	-414	-468	-505	-449	-438	-433	-408	-325	-328	-365	
	3407	3399	2044	1027	646	669	961	1007	1374	3232	3201	3077	24044