

DISEÑO DE ELEMENTOS NO ESTRUCTURALES -CIELOS RASOS POR M2
(CIELOS RASOS,ENTRAMADOS METALICOS SUSPENDIDOS AFINADO EN YESO)

$T_a =$	0.34 $k= 1.00$	$F_a =$	1.95	$I =$	1.5	Grado de des Superior
$A_a =$	0.15	$F_v =$	1.70	$Carga =$	50 Kg/m ²	
$A_v =$	0.20	$A_s =$	0.26	$R_p =$	1.5 (A.9.4.9 NSR-10)	
$S_a =$	1.10			$a_p =$	1 (Tabla A.9.5-1. NSR-10)	
$hn =$	9.00 m	$h_{eq} =$	6.75 m	$Tc =$	0.558	
$f_y =$	420.00 Mpa	$f'_{cu} =$	25.00 Mpa	$TL =$	3	
$f'_m =$	15.00 Mpa	$R_m =$	20.00 Mpa			
$f'_{cr} =$	14.00 Mpa					

CIELO RASO

Seccion Lamina Cielo Raso= 122.00 cm x 244.00 cm = 29768 cm2

En la base de apoyo

PISO	h	a _x	h _w	b	W _p	F _p	M	V	c	I	Vad	N
				(m)	(Kg)	(Kg) por@ metro	(Kg-m)	(Kg)	(m)	(m4)	(Kg)	(un) por@ metro 2
PISO 3	8.1	1.316	2	1	100	175.50	0.00	175.50	0.50	0.08333	1508.00	1.000
PISO 2	5.40	0.930	2	1	100	123.93	0.00	123.93	0.50	0.08333	1508.00	1.000
PISO 1	2.70	0.595	2	1	100	79.30	0.00	79.30	0.50	0.08333	1508.00	1.000

$V_n = 0.6A_sF_y$

$\phi V_n(Kg)$		VERIFICA	
$\phi 1/2"$	$\phi 5/8"$	$\phi 1/2"$	$\phi 5/8"$
2276	3510	OK	OK