



Anexo 2. Análisis de Cargas

Cubierta a dos aguas

Fecha: 28/06/21

. ESTRUCTURA

1.1. Cargas

1.1.1. Barras

Referencias:

'P1', 'P2':

- Cargas puntuales, uniformes, en faja y momentos puntuales: 'P1' es el valor de la carga. 'P2' no se utiliza.
- Cargas trapezoidales: 'P1' es el valor de la carga en el punto donde comienza (L1) y 'P2' es el valor de la carga en el punto donde termina (L2).
- Cargas triangulares: 'P1' es el valor máximo de la carga. 'P2' no se utiliza.
- Incrementos de temperatura: 'P1' y 'P2' son los valores de la temperatura en las caras exteriores o paramentos de la pieza. La orientación de la variación del incremento de temperatura sobre la sección transversal dependerá de la dirección seleccionada.

'L1', 'L2':

- Cargas y momentos puntuales: 'L1' es la distancia entre el nudo inicial de la barra y la posición donde se aplica la carga. 'L2' no se utiliza.
- Cargas trapezoidales, en faja, y triangulares: 'L1' es la distancia entre el nudo inicial de la barra y la posición donde comienza la carga, 'L2' es la distancia entre el nudo inicial de la barra y la posición donde termina la carga.

Unidades:

- Cargas puntuales: kN
- Momentos puntuales: kN·m.
- Cargas uniformes, en faja, triangulares y trapezoidales: kN/m.
- Incrementos de temperatura: °C.

Cargas en barras										
Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1/N2	Peso propio	Uniforme	1.242	-	-	-	Globales	0.000	0.000	-1.000
N3/N4	Peso propio	Uniforme	1.242	-	-	-	Globales	0.000	0.000	-1.000
N2/N7	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N2/N7	Peso propio	Uniforme	1.710	-	-	-	Globales	0.000	0.000	-1.000
N2/N7	Q	Uniforme	0.220	-	-	-	Globales	0.000	0.000	-1.000
N2/N7	V(0°) H1	Uniforme	0.893	-	-	-	Globales	0.000	0.179	-0.984
N2/N7	V(0°) H2	Uniforme	1.178	-	-	-	Globales	-0.000	-0.179	0.984
N2/N7	V(0°) H3	Uniforme	0.132	-	-	-	Globales	0.000	0.179	-0.984
N2/N7	V(0°) H4	Uniforme	0.640	-	-	-	Globales	-0.000	-0.179	0.984
N2/N7	V(90°) H1	Uniforme	0.577	-	-	-	Globales	0.000	-0.179	0.984
N2/N7	V(90°) H1	Uniforme	0.062	-	-	-	Globales	-0.000	-0.179	0.984
N2/N7	V(90°) H2	Uniforme	0.866	-	-	-	Globales	0.000	-0.179	0.984
N2/N7	V(90°) H2	Uniforme	0.093	-	-	-	Globales	-0.000	-0.179	0.984
N2/N7	V(90°) H3	Uniforme	0.577	-	-	-	Globales	-0.000	0.179	-0.984



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Barra	Hipótesis	Tipo	Valores		Posición		Ejes	Dirección		
			P1	P2	L1 (m)	L2 (m)		X	Y	Z
N2/N7	V(90°) H3	Uniforme	0.051	-	-	-	Globales	0.000	0.179	-0.984
N2/N7	V(90°) H4	Uniforme	0.412	-	-	-	Globales	-0.000	0.179	-0.984
N2/N7	V(180°) H1	Uniforme	0.274	-	-	-	Globales	-0.000	-0.179	0.984
N2/N7	V(180°) H2	Uniforme	0.812	-	-	-	Globales	-0.000	-0.179	0.984
N2/N7	V(180°) H3	Uniforme	0.944	-	-	-	Globales	-0.000	-0.179	0.984
N2/N7	V(180°) H4	Uniforme	1.350	-	-	-	Globales	-0.000	-0.179	0.984
N2/N7	V(270°) H1	Uniforme	0.247	-	-	-	Globales	0.000	-0.179	0.984
N2/N7	V(270°) H2	Uniforme	0.495	-	-	-	Globales	0.000	-0.179	0.984
N2/N7	V(270°) H3	Uniforme	0.247	-	-	-	Globales	-0.000	0.179	-0.984
N2/N7	V(270°) H4	Uniforme	0.247	-	-	-	Globales	-0.000	0.179	-0.984
N7/N9	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N7/N9	Peso propio	Uniforme	1.710	-	-	-	Globales	0.000	0.000	-1.000
N7/N9	Q	Uniforme	0.220	-	-	-	Globales	0.000	0.000	-1.000
N7/N9	V(0°) H1	Uniforme	0.893	-	-	-	Globales	0.000	0.179	-0.984
N7/N9	V(0°) H2	Uniforme	1.178	-	-	-	Globales	-0.000	-0.179	0.984
N7/N9	V(0°) H3	Uniforme	0.132	-	-	-	Globales	0.000	0.179	-0.984
N7/N9	V(0°) H4	Uniforme	0.640	-	-	-	Globales	-0.000	-0.179	0.984
N7/N9	V(90°) H1	Uniforme	0.577	-	-	-	Globales	0.000	-0.179	0.984
N7/N9	V(90°) H1	Uniforme	0.062	-	-	-	Globales	-0.000	-0.179	0.984
N7/N9	V(90°) H2	Uniforme	0.866	-	-	-	Globales	0.000	-0.179	0.984
N7/N9	V(90°) H2	Uniforme	0.093	-	-	-	Globales	-0.000	-0.179	0.984
N7/N9	V(90°) H3	Uniforme	0.577	-	-	-	Globales	-0.000	0.179	-0.984
N7/N9	V(90°) H3	Uniforme	0.051	-	-	-	Globales	0.000	0.179	-0.984
N7/N9	V(90°) H4	Uniforme	0.412	-	-	-	Globales	-0.000	0.179	-0.984
N7/N9	V(180°) H1	Uniforme	0.274	-	-	-	Globales	-0.000	-0.179	0.984
N7/N9	V(180°) H2	Uniforme	0.812	-	-	-	Globales	-0.000	-0.179	0.984
N7/N9	V(180°) H3	Uniforme	0.944	-	-	-	Globales	-0.000	-0.179	0.984
N7/N9	V(180°) H4	Uniforme	1.350	-	-	-	Globales	-0.000	-0.179	0.984
N7/N9	V(270°) H1	Uniforme	0.247	-	-	-	Globales	0.000	-0.179	0.984
N7/N9	V(270°) H2	Uniforme	0.495	-	-	-	Globales	0.000	-0.179	0.984
N7/N9	V(270°) H3	Uniforme	0.247	-	-	-	Globales	-0.000	0.179	-0.984
N7/N9	V(270°) H4	Uniforme	0.247	-	-	-	Globales	-0.000	0.179	-0.984
N9/N11	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N9/N11	Peso propio	Uniforme	1.710	-	-	-	Globales	0.000	0.000	-1.000
N9/N11	Q	Uniforme	0.220	-	-	-	Globales	0.000	0.000	-1.000
N9/N11	V(0°) H1	Uniforme	0.893	-	-	-	Globales	0.000	0.179	-0.984
N9/N11	V(0°) H2	Uniforme	1.178	-	-	-	Globales	-0.000	-0.179	0.984
N9/N11	V(0°) H3	Uniforme	0.132	-	-	-	Globales	0.000	0.179	-0.984
N9/N11	V(0°) H4	Uniforme	0.640	-	-	-	Globales	-0.000	-0.179	0.984
N9/N11	V(90°) H1	Uniforme	0.577	-	-	-	Globales	0.000	-0.179	0.984
N9/N11	V(90°) H1	Uniforme	0.062	-	-	-	Globales	-0.000	-0.179	0.984
N9/N11	V(90°) H2	Uniforme	0.866	-	-	-	Globales	0.000	-0.179	0.984



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Cargas en barras										
Barra	Hipótesis	Tipo	Valores		Posición		Ejes	Dirección		
			P1	P2	L1 (m)	L2 (m)		X	Y	Z
N9/N11	V(90°) H2	Uniforme	0.093	-	-	-	Globales	-0.000	-0.179	0.984
N9/N11	V(90°) H3	Uniforme	0.577	-	-	-	Globales	-0.000	0.179	-0.984
N9/N11	V(90°) H3	Uniforme	0.051	-	-	-	Globales	0.000	0.179	-0.984
N9/N11	V(90°) H4	Uniforme	0.412	-	-	-	Globales	-0.000	0.179	-0.984
N9/N11	V(180°) H1	Uniforme	0.274	-	-	-	Globales	-0.000	-0.179	0.984
N9/N11	V(180°) H2	Uniforme	0.812	-	-	-	Globales	-0.000	-0.179	0.984
N9/N11	V(180°) H3	Uniforme	0.944	-	-	-	Globales	-0.000	-0.179	0.984
N9/N11	V(180°) H4	Uniforme	1.350	-	-	-	Globales	-0.000	-0.179	0.984
N9/N11	V(270°) H1	Uniforme	0.247	-	-	-	Globales	0.000	-0.179	0.984
N9/N11	V(270°) H2	Uniforme	0.495	-	-	-	Globales	0.000	-0.179	0.984
N9/N11	V(270°) H3	Uniforme	0.247	-	-	-	Globales	-0.000	0.179	-0.984
N9/N11	V(270°) H4	Uniforme	0.247	-	-	-	Globales	-0.000	0.179	-0.984
N11/N5	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N11/N5	Peso propio	Uniforme	1.710	-	-	-	Globales	0.000	0.000	-1.000
N11/N5	Q	Uniforme	0.220	-	-	-	Globales	0.000	0.000	-1.000
N11/N5	V(0°) H1	Uniforme	0.893	-	-	-	Globales	0.000	0.179	-0.984
N11/N5	V(0°) H2	Uniforme	1.178	-	-	-	Globales	-0.000	-0.179	0.984
N11/N5	V(0°) H3	Uniforme	0.132	-	-	-	Globales	0.000	0.179	-0.984
N11/N5	V(0°) H4	Uniforme	0.640	-	-	-	Globales	-0.000	-0.179	0.984
N11/N5	V(90°) H1	Uniforme	0.577	-	-	-	Globales	0.000	-0.179	0.984
N11/N5	V(90°) H1	Uniforme	0.062	-	-	-	Globales	-0.000	-0.179	0.984
N11/N5	V(90°) H2	Uniforme	0.866	-	-	-	Globales	0.000	-0.179	0.984
N11/N5	V(90°) H2	Uniforme	0.093	-	-	-	Globales	-0.000	-0.179	0.984
N11/N5	V(90°) H3	Uniforme	0.577	-	-	-	Globales	-0.000	0.179	-0.984
N11/N5	V(90°) H3	Uniforme	0.051	-	-	-	Globales	0.000	0.179	-0.984
N11/N5	V(90°) H4	Uniforme	0.412	-	-	-	Globales	-0.000	0.179	-0.984
N11/N5	V(180°) H1	Uniforme	0.274	-	-	-	Globales	-0.000	-0.179	0.984
N11/N5	V(180°) H2	Uniforme	0.812	-	-	-	Globales	-0.000	-0.179	0.984
N11/N5	V(180°) H3	Uniforme	0.944	-	-	-	Globales	-0.000	-0.179	0.984
N11/N5	V(180°) H4	Uniforme	1.350	-	-	-	Globales	-0.000	-0.179	0.984
N11/N5	V(270°) H1	Uniforme	0.247	-	-	-	Globales	0.000	-0.179	0.984
N11/N5	V(270°) H2	Uniforme	0.495	-	-	-	Globales	0.000	-0.179	0.984
N11/N5	V(270°) H3	Uniforme	0.247	-	-	-	Globales	-0.000	0.179	-0.984
N11/N5	V(270°) H4	Uniforme	0.247	-	-	-	Globales	-0.000	0.179	-0.984
N4/N14	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N4/N14	Peso propio	Uniforme	1.710	-	-	-	Globales	0.000	0.000	-1.000
N4/N14	Q	Uniforme	0.220	-	-	-	Globales	0.000	0.000	-1.000
N4/N14	V(0°) H1	Uniforme	0.274	-	-	-	Globales	-0.000	0.179	0.984
N4/N14	V(0°) H2	Uniforme	0.812	-	-	-	Globales	-0.000	0.179	0.984
N4/N14	V(0°) H3	Uniforme	0.944	-	-	-	Globales	-0.000	0.179	0.984
N4/N14	V(0°) H4	Uniforme	1.350	-	-	-	Globales	-0.000	0.179	0.984
N4/N14	V(90°) H1	Uniforme	0.577	-	-	-	Globales	0.000	0.179	0.984



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Barra	Hipótesis	Tipo	Valores		Posición		Ejes	Dirección		
			P1	P2	L1 (m)	L2 (m)		X	Y	Z
N4/N14	V(90°) H1	Uniforme	0.062	-	-	-	Globales	-0.000	0.179	0.984
N4/N14	V(90°) H2	Uniforme	0.866	-	-	-	Globales	0.000	0.179	0.984
N4/N14	V(90°) H2	Uniforme	0.093	-	-	-	Globales	-0.000	0.179	0.984
N4/N14	V(90°) H3	Uniforme	0.577	-	-	-	Globales	-0.000	-0.179	-0.984
N4/N14	V(90°) H3	Uniforme	0.051	-	-	-	Globales	0.000	-0.179	-0.984
N4/N14	V(90°) H4	Uniforme	0.412	-	-	-	Globales	-0.000	-0.179	-0.984
N4/N14	V(180°) H1	Uniforme	0.893	-	-	-	Globales	0.000	-0.179	-0.984
N4/N14	V(180°) H2	Uniforme	1.178	-	-	-	Globales	-0.000	0.179	0.984
N4/N14	V(180°) H3	Uniforme	0.132	-	-	-	Globales	0.000	-0.179	-0.984
N4/N14	V(180°) H4	Uniforme	0.640	-	-	-	Globales	-0.000	0.179	0.984
N4/N14	V(270°) H1	Uniforme	0.247	-	-	-	Globales	0.000	0.179	0.984
N4/N14	V(270°) H2	Uniforme	0.495	-	-	-	Globales	0.000	0.179	0.984
N4/N14	V(270°) H3	Uniforme	0.247	-	-	-	Globales	-0.000	-0.179	-0.984
N4/N14	V(270°) H4	Uniforme	0.247	-	-	-	Globales	-0.000	-0.179	-0.984
N14/N16	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N14/N16	Peso propio	Uniforme	1.710	-	-	-	Globales	0.000	0.000	-1.000
N14/N16	Q	Uniforme	0.220	-	-	-	Globales	0.000	0.000	-1.000
N14/N16	V(0°) H1	Uniforme	0.274	-	-	-	Globales	-0.000	0.179	0.984
N14/N16	V(0°) H2	Uniforme	0.812	-	-	-	Globales	-0.000	0.179	0.984
N14/N16	V(0°) H3	Uniforme	0.944	-	-	-	Globales	-0.000	0.179	0.984
N14/N16	V(0°) H4	Uniforme	1.350	-	-	-	Globales	-0.000	0.179	0.984
N14/N16	V(90°) H1	Uniforme	0.577	-	-	-	Globales	0.000	0.179	0.984
N14/N16	V(90°) H1	Uniforme	0.062	-	-	-	Globales	-0.000	0.179	0.984
N14/N16	V(90°) H2	Uniforme	0.866	-	-	-	Globales	0.000	0.179	0.984
N14/N16	V(90°) H2	Uniforme	0.093	-	-	-	Globales	-0.000	0.179	0.984
N14/N16	V(90°) H3	Uniforme	0.577	-	-	-	Globales	-0.000	-0.179	-0.984
N14/N16	V(90°) H3	Uniforme	0.051	-	-	-	Globales	0.000	-0.179	-0.984
N14/N16	V(90°) H4	Uniforme	0.412	-	-	-	Globales	-0.000	-0.179	-0.984
N14/N16	V(180°) H1	Uniforme	0.893	-	-	-	Globales	0.000	-0.179	-0.984
N14/N16	V(180°) H2	Uniforme	1.178	-	-	-	Globales	-0.000	0.179	0.984
N14/N16	V(180°) H3	Uniforme	0.132	-	-	-	Globales	0.000	-0.179	-0.984
N14/N16	V(180°) H4	Uniforme	0.640	-	-	-	Globales	-0.000	0.179	0.984
N14/N16	V(270°) H1	Uniforme	0.247	-	-	-	Globales	0.000	0.179	0.984
N14/N16	V(270°) H2	Uniforme	0.495	-	-	-	Globales	0.000	0.179	0.984
N14/N16	V(270°) H3	Uniforme	0.247	-	-	-	Globales	-0.000	-0.179	-0.984
N14/N16	V(270°) H4	Uniforme	0.247	-	-	-	Globales	-0.000	-0.179	-0.984
N16/N18	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N16/N18	Peso propio	Uniforme	1.710	-	-	-	Globales	0.000	0.000	-1.000
N16/N18	Q	Uniforme	0.220	-	-	-	Globales	0.000	0.000	-1.000
N16/N18	V(0°) H1	Uniforme	0.274	-	-	-	Globales	-0.000	0.179	0.984
N16/N18	V(0°) H2	Uniforme	0.812	-	-	-	Globales	-0.000	0.179	0.984
N16/N18	V(0°) H3	Uniforme	0.944	-	-	-	Globales	-0.000	0.179	0.984



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Barra	Hipótesis	Tipo	Valores		Posición		Ejes	Dirección		
			P1	P2	L1 (m)	L2 (m)		X	Y	Z
N16/N18	V(0°) H4	Uniforme	1.350	-	-	-	Globales	-0.000	0.179	0.984
N16/N18	V(90°) H1	Uniforme	0.577	-	-	-	Globales	0.000	0.179	0.984
N16/N18	V(90°) H1	Uniforme	0.062	-	-	-	Globales	-0.000	0.179	0.984
N16/N18	V(90°) H2	Uniforme	0.866	-	-	-	Globales	0.000	0.179	0.984
N16/N18	V(90°) H2	Uniforme	0.093	-	-	-	Globales	-0.000	0.179	0.984
N16/N18	V(90°) H3	Uniforme	0.577	-	-	-	Globales	-0.000	-0.179	-0.984
N16/N18	V(90°) H3	Uniforme	0.051	-	-	-	Globales	0.000	-0.179	-0.984
N16/N18	V(90°) H4	Uniforme	0.412	-	-	-	Globales	-0.000	-0.179	-0.984
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N16/N18	V(180°) H4	Uniforme	0.640	-	-	-	Globales	-0.000	0.179	0.984
N16/N18	V(270°) H1	Uniforme	0.247	-	-	-	Globales	0.000	0.179	0.984
N16/N18	V(270°) H2	Uniforme	0.495	-	-	-	Globales	0.000	0.179	0.984
N16/N18	V(270°) H3	Uniforme	0.247	-	-	-	Globales	-0.000	-0.179	-0.984
N16/N18	V(270°) H4	Uniforme	0.247	-	-	-	Globales	-0.000	-0.179	-0.984
N18/N5	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N18/N5	Peso propio	Uniforme	1.710	-	-	-	Globales	0.000	0.000	-1.000
N18/N5	Q	Uniforme	0.220	-	-	-	Globales	0.000	0.000	-1.000
N18/N5	V(0°) H1	Uniforme	0.274	-	-	-	Globales	-0.000	0.179	0.984
N18/N5	V(0°) H2	Uniforme	0.812	-	-	-	Globales	-0.000	0.179	0.984
N18/N5	V(0°) H3	Uniforme	0.944	-	-	-	Globales	-0.000	0.179	0.984
N18/N5	V(0°) H4	Uniforme	1.350	-	-	-	Globales	-0.000	0.179	0.984
N18/N5	V(90°) H1	Uniforme	0.577	-	-	-	Globales	0.000	0.179	0.984
N18/N5	V(90°) H1	Uniforme	0.062	-	-	-	Globales	-0.000	0.179	0.984
N18/N5	V(90°) H2	Uniforme	0.866	-	-	-	Globales	0.000	0.179	0.984
N18/N5	V(90°) H2	Uniforme	0.093	-	-	-	Globales	-0.000	0.179	0.984
N18/N5	V(90°) H3	Uniforme	0.577	-	-	-	Globales	-0.000	-0.179	-0.984
N18/N5	V(90°) H3	Uniforme	0.051	-	-	-	Globales	0.000	-0.179	-0.984
N18/N5	V(90°) H4	Uniforme	0.412	-	-	-	Globales	-0.000	-0.179	-0.984
N18/N5	V(180°) H1	Uniforme	0.893	-	-	-	Globales	0.000	-0.179	-0.984
N18/N5	V(180°) H2	Uniforme	1.178	-	-	-	Globales	-0.000	0.179	0.984
N18/N5	V(180°) H3	Uniforme	0.132	-	-	-	Globales	0.000	-0.179	-0.984
N18/N5	V(180°) H4	Uniforme	0.640	-	-	-	Globales	-0.000	0.179	0.984
N18/N5	V(270°) H1	Uniforme	0.247	-	-	-	Globales	0.000	0.179	0.984
N18/N5	V(270°) H2	Uniforme	0.495	-	-	-	Globales	0.000	0.179	0.984
N18/N5	V(270°) H3	Uniforme	0.247	-	-	-	Globales	-0.000	-0.179	-0.984
N18/N5	V(270°) H4	Uniforme	0.247	-	-	-	Globales	-0.000	-0.179	-0.984
N2/N6	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N6/N8	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N8/N10	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N10/N12	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000



Anexo 2. Análisis de Cargas

Cubierta a dos aguas

Fecha: 28/06/21

Cargas en barras										
Barra	Hipótesis	Tipo	Valores		Posición		Ejes	Dirección		
			P1	P2	L1 (m)	L2 (m)		X	Y	Z
N12/N17	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N17/N15	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N15/N13	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N13/N4	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N6/N7	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N8/N7	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N8/N9	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N10/N9	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N10/N11	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N12/N11	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N12/N5	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N13/N14	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N15/N14	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N15/N16	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N17/N16	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N17/N18	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N12/N18	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N19/N20	Peso propio	Uniforme	1.242	-	-	-	Globales	0.000	0.000	-1.000
N21/N22	Peso propio	Uniforme	1.242	-	-	-	Globales	0.000	0.000	-1.000
N20/N25	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N20/N25	Peso propio	Uniforme	3.421	-	-	-	Globales	0.000	0.000	-1.000
N20/N25 Q		Uniforme	0.440	-	-	-	Globales	0.000	0.000	-1.000
N20/N25 V(0°) H1		Uniforme	1.787	-	-	-	Globales	0.000	0.179	-0.984
N20/N25 V(0°) H2		Uniforme	2.356	-	-	-	Globales	-0.000	-0.179	0.984
N20/N25 V(0°) H3		Uniforme	0.264	-	-	-	Globales	0.000	0.179	-0.984
N20/N25 V(0°) H4		Uniforme	1.279	-	-	-	Globales	-0.000	-0.179	0.984
N20/N25 V(90°) H1		Uniforme	0.276	-	-	-	Globales	0.000	-0.179	0.984
N20/N25 V(90°) H1		Uniforme	0.536	-	-	-	Globales	-0.000	-0.179	0.984
N20/N25 V(90°) H1		Uniforme	0.123	-	-	-	Globales	0.000	-0.179	0.984
N20/N25 V(90°) H2		Uniforme	0.414	-	-	-	Globales	0.000	-0.179	0.984
N20/N25 V(90°) H2		Uniforme	0.803	-	-	-	Globales	-0.000	-0.179	0.984
N20/N25 V(90°) H2		Uniforme	0.247	-	-	-	Globales	0.000	-0.179	0.984
N20/N25 V(90°) H3		Uniforme	0.276	-	-	-	Globales	-0.000	0.179	-0.984
N20/N25 V(90°) H3		Uniforme	0.446	-	-	-	Globales	0.000	0.179	-0.984
N20/N25 V(90°) H3		Uniforme	0.123	-	-	-	Globales	-0.000	0.179	-0.984
N20/N25 V(90°) H4		Uniforme	0.619	-	-	-	Globales	-0.000	0.179	-0.984
N20/N25 V(90°) H4		Uniforme	0.123	-	-	-	Globales	-0.000	0.179	-0.984
N20/N25 V(180°) H1		Uniforme	0.548	-	-	-	Globales	-0.000	-0.179	0.984
N20/N25 V(180°) H2		Uniforme	1.624	-	-	-	Globales	-0.000	-0.179	0.984
N20/N25 V(180°) H3		Uniforme	1.888	-	-	-	Globales	-0.000	-0.179	0.984
N20/N25 V(180°) H4		Uniforme	2.700	-	-	-	Globales	-0.000	-0.179	0.984
N20/N25 V(270°) H1		Uniforme	0.043	-	-	-	Globales	-0.000	-0.179	0.984



Anexo 2. Análisis de Cargas

Cubierta a dos aguas

Fecha: 28/06/21

Cargas en barras										
Barra	Hipótesis	Tipo	Valores		Posición		Ejes	Dirección		
			P1	P2	L1 (m)	L2 (m)		X	Y	Z
N20/N25	V(270°) H1	Uniforme	0.473	-	-	-	Globales	0.000	-0.179	0.984
N20/N25	V(270°) H2	Uniforme	0.064	-	-	-	Globales	-0.000	-0.179	0.984
N20/N25	V(270°) H2	Uniforme	0.947	-	-	-	Globales	0.000	-0.179	0.984
N20/N25	V(270°) H3	Uniforme	0.036	-	-	-	Globales	0.000	0.179	-0.984
N20/N25	V(270°) H3	Uniforme	0.473	-	-	-	Globales	-0.000	0.179	-0.984
N20/N25	V(270°) H4	Uniforme	0.036	-	-	-	Globales	-0.000	0.179	-0.984
N20/N25	V(270°) H4	Uniforme	0.473	-	-	-	Globales	-0.000	0.179	-0.984
N25/N27	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N25/N27	Peso propio	Uniforme	3.421	-	-	-	Globales	0.000	0.000	-1.000
N25/N27	Q	Uniforme	0.440	-	-	-	Globales	0.000	0.000	-1.000
N25/N27	V(0°) H1	Uniforme	1.787	-	-	-	Globales	0.000	0.179	-0.984
N25/N27	V(0°) H2	Uniforme	2.356	-	-	-	Globales	-0.000	-0.179	0.984
N25/N27	V(0°) H3	Uniforme	0.264	-	-	-	Globales	0.000	0.179	-0.984
N25/N27	V(0°) H4	Uniforme	1.279	-	-	-	Globales	-0.000	-0.179	0.984
N25/N27	V(90°) H1	Uniforme	0.276	-	-	-	Globales	0.000	-0.179	0.984
N25/N27	V(90°) H1	Uniforme	0.536	-	-	-	Globales	-0.000	-0.179	0.984
N25/N27	V(90°) H1	Uniforme	0.123	-	-	-	Globales	0.000	-0.179	0.984
N25/N27	V(90°) H2	Uniforme	0.414	-	-	-	Globales	0.000	-0.179	0.984
N25/N27	V(90°) H2	Uniforme	0.803	-	-	-	Globales	-0.000	-0.179	0.984
N25/N27	V(90°) H2	Uniforme	0.247	-	-	-	Globales	0.000	-0.179	0.984
N25/N27	V(90°) H3	Uniforme	0.276	-	-	-	Globales	-0.000	0.179	-0.984
N25/N27	V(90°) H3	Uniforme	0.446	-	-	-	Globales	0.000	0.179	-0.984
N25/N27	V(90°) H3	Uniforme	0.123	-	-	-	Globales	-0.000	0.179	-0.984
N25/N27	V(90°) H4	Uniforme	0.619	-	-	-	Globales	-0.000	0.179	-0.984
N25/N27	V(90°) H4	Uniforme	0.123	-	-	-	Globales	-0.000	0.179	-0.984
N25/N27	V(180°) H1	Uniforme	0.548	-	-	-	Globales	-0.000	-0.179	0.984
N25/N27	V(180°) H2	Uniforme	1.624	-	-	-	Globales	-0.000	-0.179	0.984
N25/N27	V(180°) H3	Uniforme	1.888	-	-	-	Globales	-0.000	-0.179	0.984
N25/N27	V(180°) H4	Uniforme	2.700	-	-	-	Globales	-0.000	-0.179	0.984
N25/N27	V(270°) H1	Uniforme	0.043	-	-	-	Globales	-0.000	-0.179	0.984
N25/N27	V(270°) H1	Uniforme	0.473	-	-	-	Globales	0.000	-0.179	0.984
N25/N27	V(270°) H2	Uniforme	0.064	-	-	-	Globales	-0.000	-0.179	0.984
N25/N27	V(270°) H2	Uniforme	0.947	-	-	-	Globales	0.000	-0.179	0.984
N25/N27	V(270°) H3	Uniforme	0.036	-	-	-	Globales	0.000	0.179	-0.984
N25/N27	V(270°) H3	Uniforme	0.473	-	-	-	Globales	-0.000	0.179	-0.984
N25/N27	V(270°) H4	Uniforme	0.036	-	-	-	Globales	-0.000	0.179	-0.984
N25/N27	V(270°) H4	Uniforme	0.473	-	-	-	Globales	-0.000	0.179	-0.984
N27/N29	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N27/N29	Peso propio	Uniforme	3.421	-	-	-	Globales	0.000	0.000	-1.000
N27/N29	Q	Uniforme	0.440	-	-	-	Globales	0.000	0.000	-1.000
N27/N29	V(0°) H1	Uniforme	1.787	-	-	-	Globales	0.000	0.179	-0.984
N27/N29	V(0°) H2	Uniforme	2.356	-	-	-	Globales	-0.000	-0.179	0.984



Anexo 2. Análisis de Cargas

Cubierta a dos aguas

Fecha: 28/06/21

Cargas en barras										
Barra	Hipótesis	Tipo	Valores		Posición		Ejes	Dirección		
			P1	P2	L1 (m)	L2 (m)		X	Y	Z
N27/N29	V(0°) H3	Uniforme	0.264	-	-	-	Globales	0.000	0.179	-0.984
N27/N29	V(0°) H4	Uniforme	1.279	-	-	-	Globales	-0.000	-0.179	0.984
N27/N29	V(90°) H1	Uniforme	0.276	-	-	-	Globales	0.000	-0.179	0.984
N27/N29	V(90°) H1	Uniforme	0.536	-	-	-	Globales	-0.000	-0.179	0.984
N27/N29	V(90°) H1	Uniforme	0.123	-	-	-	Globales	0.000	-0.179	0.984
N27/N29	V(90°) H2	Uniforme	0.414	-	-	-	Globales	0.000	-0.179	0.984
N27/N29	V(90°) H2	Uniforme	0.803	-	-	-	Globales	-0.000	-0.179	0.984
N27/N29	V(90°) H2	Uniforme	0.247	-	-	-	Globales	0.000	-0.179	0.984
N27/N29	V(90°) H3	Uniforme	0.276	-	-	-	Globales	-0.000	0.179	-0.984
N27/N29	V(90°) H3	Uniforme	0.446	-	-	-	Globales	0.000	0.179	-0.984
N27/N29	V(90°) H3	Uniforme	0.123	-	-	-	Globales	-0.000	0.179	-0.984
N27/N29	V(90°) H4	Uniforme	0.619	-	-	-	Globales	-0.000	0.179	-0.984
N27/N29	V(90°) H4	Uniforme	0.123	-	-	-	Globales	-0.000	0.179	-0.984
N27/N29	V(180°) H1	Uniforme	0.548	-	-	-	Globales	-0.000	-0.179	0.984
N27/N29	V(180°) H2	Uniforme	1.624	-	-	-	Globales	-0.000	-0.179	0.984
N27/N29	V(180°) H3	Uniforme	1.888	-	-	-	Globales	-0.000	-0.179	0.984
N27/N29	V(180°) H4	Uniforme	2.700	-	-	-	Globales	-0.000	-0.179	0.984
N27/N29	V(270°) H1	Uniforme	0.043	-	-	-	Globales	-0.000	-0.179	0.984
N27/N29	V(270°) H1	Uniforme	0.473	-	-	-	Globales	0.000	-0.179	0.984
N27/N29	V(270°) H2	Uniforme	0.064	-	-	-	Globales	-0.000	-0.179	0.984
N27/N29	V(270°) H2	Uniforme	0.947	-	-	-	Globales	0.000	-0.179	0.984
N27/N29	V(270°) H3	Uniforme	0.036	-	-	-	Globales	0.000	0.179	-0.984
N27/N29	V(270°) H3	Uniforme	0.473	-	-	-	Globales	-0.000	0.179	-0.984
N27/N29	V(270°) H4	Uniforme	0.036	-	-	-	Globales	-0.000	0.179	-0.984
N27/N29	V(270°) H4	Uniforme	0.473	-	-	-	Globales	-0.000	0.179	-0.984
N29/N23	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N29/N23	Peso propio	Uniforme	3.421	-	-	-	Globales	0.000	0.000	-1.000
N29/N23	Q	Uniforme	0.440	-	-	-	Globales	0.000	0.000	-1.000
N29/N23	V(0°) H1	Uniforme	1.787	-	-	-	Globales	0.000	0.179	-0.984
N29/N23	V(0°) H2	Uniforme	2.356	-	-	-	Globales	-0.000	-0.179	0.984
N29/N23	V(0°) H3	Uniforme	0.264	-	-	-	Globales	0.000	0.179	-0.984
N29/N23	V(0°) H4	Uniforme	1.279	-	-	-	Globales	-0.000	-0.179	0.984
N29/N23	V(90°) H1	Uniforme	0.276	-	-	-	Globales	0.000	-0.179	0.984
N29/N23	V(90°) H1	Uniforme	0.536	-	-	-	Globales	-0.000	-0.179	0.984
N29/N23	V(90°) H1	Uniforme	0.123	-	-	-	Globales	0.000	-0.179	0.984
N29/N23	V(90°) H2	Uniforme	0.414	-	-	-	Globales	0.000	-0.179	0.984
N29/N23	V(90°) H2	Uniforme	0.803	-	-	-	Globales	-0.000	-0.179	0.984
N29/N23	V(90°) H2	Uniforme	0.247	-	-	-	Globales	0.000	-0.179	0.984
N29/N23	V(90°) H3	Uniforme	0.276	-	-	-	Globales	-0.000	0.179	-0.984
N29/N23	V(90°) H3	Uniforme	0.446	-	-	-	Globales	0.000	0.179	-0.984
N29/N23	V(90°) H3	Uniforme	0.123	-	-	-	Globales	-0.000	0.179	-0.984
N29/N23	V(90°) H4	Uniforme	0.619	-	-	-	Globales	-0.000	0.179	-0.984



Anexo 2. Análisis de Cargas

Cubierta a dos aguas

Fecha: 28/06/21

Cargas en barras										
Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N29/N23	V(90°) H4	Uniforme	0.123	-	-	-	Globales	-0.000	0.179	-0.984
N29/N23	V(180°) H1	Uniforme	0.548	-	-	-	Globales	-0.000	-0.179	0.984
N29/N23	V(180°) H2	Uniforme	1.624	-	-	-	Globales	-0.000	-0.179	0.984
N29/N23	V(180°) H3	Uniforme	1.888	-	-	-	Globales	-0.000	-0.179	0.984
N29/N23	V(180°) H4	Uniforme	2.700	-	-	-	Globales	-0.000	-0.179	0.984
N29/N23	V(270°) H1	Uniforme	0.043	-	-	-	Globales	-0.000	-0.179	0.984
N29/N23	V(270°) H1	Uniforme	0.473	-	-	-	Globales	0.000	-0.179	0.984
N29/N23	V(270°) H2	Uniforme	0.064	-	-	-	Globales	-0.000	-0.179	0.984
N29/N23	V(270°) H2	Uniforme	0.947	-	-	-	Globales	0.000	-0.179	0.984
N29/N23	V(270°) H3	Uniforme	0.036	-	-	-	Globales	0.000	0.179	-0.984
N29/N23	V(270°) H3	Uniforme	0.473	-	-	-	Globales	-0.000	0.179	-0.984
N29/N23	V(270°) H4	Uniforme	0.036	-	-	-	Globales	-0.000	0.179	-0.984
N29/N23	V(270°) H4	Uniforme	0.473	-	-	-	Globales	-0.000	0.179	-0.984
N22/N32	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N22/N32	Peso propio	Uniforme	3.421	-	-	-	Globales	0.000	0.000	-1.000
N22/N32	Q	Uniforme	0.440	-	-	-	Globales	0.000	0.000	-1.000
N22/N32	V(0°) H1	Uniforme	0.548	-	-	-	Globales	-0.000	0.179	0.984
N22/N32	V(0°) H2	Uniforme	1.624	-	-	-	Globales	-0.000	0.179	0.984
N22/N32	V(0°) H3	Uniforme	1.888	-	-	-	Globales	-0.000	0.179	0.984
N22/N32	V(0°) H4	Uniforme	2.700	-	-	-	Globales	-0.000	0.179	0.984
N22/N32	V(90°) H1	Uniforme	0.276	-	-	-	Globales	0.000	0.179	0.984
N22/N32	V(90°) H1	Uniforme	0.536	-	-	-	Globales	-0.000	0.179	0.984
N22/N32	V(90°) H1	Uniforme	0.123	-	-	-	Globales	-0.000	0.179	0.984
N22/N32	V(90°) H2	Uniforme	0.414	-	-	-	Globales	0.000	0.179	0.984
N22/N32	V(90°) H2	Uniforme	0.803	-	-	-	Globales	-0.000	0.179	0.984
N22/N32	V(90°) H2	Uniforme	0.247	-	-	-	Globales	-0.000	0.179	0.984
N22/N32	V(90°) H3	Uniforme	0.276	-	-	-	Globales	-0.000	-0.179	-0.984
N22/N32	V(90°) H3	Uniforme	0.446	-	-	-	Globales	0.000	-0.179	-0.984
N22/N32	V(90°) H3	Uniforme	0.123	-	-	-	Globales	0.000	-0.179	-0.984
N22/N32	V(90°) H4	Uniforme	0.619	-	-	-	Globales	-0.000	-0.179	-0.984
N22/N32	V(90°) H4	Uniforme	0.123	-	-	-	Globales	0.000	-0.179	-0.984
N22/N32	V(180°) H1	Uniforme	1.787	-	-	-	Globales	0.000	-0.179	-0.984
N22/N32	V(180°) H2	Uniforme	2.356	-	-	-	Globales	-0.000	0.179	0.984
N22/N32	V(180°) H3	Uniforme	0.264	-	-	-	Globales	0.000	-0.179	-0.984
N22/N32	V(180°) H4	Uniforme	1.279	-	-	-	Globales	-0.000	0.179	0.984
N22/N32	V(270°) H1	Uniforme	0.043	-	-	-	Globales	-0.000	0.179	0.984
N22/N32	V(270°) H1	Uniforme	0.473	-	-	-	Globales	0.000	0.179	0.984
N22/N32	V(270°) H2	Uniforme	0.064	-	-	-	Globales	-0.000	0.179	0.984
N22/N32	V(270°) H2	Uniforme	0.947	-	-	-	Globales	0.000	0.179	0.984
N22/N32	V(270°) H3	Uniforme	0.036	-	-	-	Globales	0.000	-0.179	-0.984
N22/N32	V(270°) H3	Uniforme	0.473	-	-	-	Globales	-0.000	-0.179	-0.984
N22/N32	V(270°) H4	Uniforme	0.036	-	-	-	Globales	0.000	-0.179	-0.984



Anexo 2. Análisis de Cargas

Cubierta a dos aguas

Fecha: 28/06/21

Cargas en barras										
Barra	Hipótesis	Tipo	Valores		Posición		Ejes	Dirección		
			P1	P2	L1 (m)	L2 (m)		X	Y	Z
N22/N32	V(270°) H4	Uniforme	0.473	-	-	-	Globales	-0.000	-0.179	-0.984
N32/N34	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N32/N34	Peso propio	Uniforme	3.421	-	-	-	Globales	0.000	0.000	-1.000
N32/N34	Q	Uniforme	0.440	-	-	-	Globales	0.000	0.000	-1.000
N32/N34	V(0°) H1	Uniforme	0.548	-	-	-	Globales	-0.000	0.179	0.984
N32/N34	V(0°) H2	Uniforme	1.624	-	-	-	Globales	-0.000	0.179	0.984
N32/N34	V(0°) H3	Uniforme	1.888	-	-	-	Globales	-0.000	0.179	0.984
N32/N34	V(0°) H4	Uniforme	2.700	-	-	-	Globales	-0.000	0.179	0.984
N32/N34	V(90°) H1	Uniforme	0.276	-	-	-	Globales	0.000	0.179	0.984
N32/N34	V(90°) H1	Uniforme	0.536	-	-	-	Globales	-0.000	0.179	0.984
N32/N34	V(90°) H1	Uniforme	0.123	-	-	-	Globales	-0.000	0.179	0.984
N32/N34	V(90°) H2	Uniforme	0.414	-	-	-	Globales	0.000	0.179	0.984
N32/N34	V(90°) H2	Uniforme	0.803	-	-	-	Globales	-0.000	0.179	0.984
N32/N34	V(90°) H2	Uniforme	0.247	-	-	-	Globales	-0.000	0.179	0.984
N32/N34	V(90°) H3	Uniforme	0.276	-	-	-	Globales	-0.000	-0.179	-0.984
N32/N34	V(90°) H3	Uniforme	0.446	-	-	-	Globales	0.000	-0.179	-0.984
N32/N34	V(90°) H3	Uniforme	0.123	-	-	-	Globales	0.000	-0.179	-0.984
N32/N34	V(90°) H4	Uniforme	0.619	-	-	-	Globales	-0.000	-0.179	-0.984
N32/N34	V(90°) H4	Uniforme	0.123	-	-	-	Globales	0.000	-0.179	-0.984
N32/N34	V(180°) H1	Uniforme	1.787	-	-	-	Globales	0.000	-0.179	-0.984
N32/N34	V(180°) H2	Uniforme	2.356	-	-	-	Globales	-0.000	0.179	0.984
N32/N34	V(180°) H3	Uniforme	0.264	-	-	-	Globales	0.000	-0.179	-0.984
N32/N34	V(180°) H4	Uniforme	1.279	-	-	-	Globales	-0.000	0.179	0.984
N32/N34	V(270°) H1	Uniforme	0.043	-	-	-	Globales	-0.000	0.179	0.984
N32/N34	V(270°) H1	Uniforme	0.473	-	-	-	Globales	0.000	0.179	0.984
N32/N34	V(270°) H2	Uniforme	0.064	-	-	-	Globales	-0.000	0.179	0.984
N32/N34	V(270°) H2	Uniforme	0.947	-	-	-	Globales	0.000	0.179	0.984
N32/N34	V(270°) H3	Uniforme	0.036	-	-	-	Globales	0.000	-0.179	-0.984
N32/N34	V(270°) H3	Uniforme	0.473	-	-	-	Globales	-0.000	-0.179	-0.984
N32/N34	V(270°) H4	Uniforme	0.036	-	-	-	Globales	0.000	-0.179	-0.984
N32/N34	V(270°) H4	Uniforme	0.473	-	-	-	Globales	-0.000	-0.179	-0.984
N34/N36	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N34/N36	Peso propio	Uniforme	3.421	-	-	-	Globales	0.000	0.000	-1.000
N34/N36	Q	Uniforme	0.440	-	-	-	Globales	0.000	0.000	-1.000
N34/N36	V(0°) H1	Uniforme	0.548	-	-	-	Globales	-0.000	0.179	0.984
N34/N36	V(0°) H2	Uniforme	1.624	-	-	-	Globales	-0.000	0.179	0.984
N34/N36	V(0°) H3	Uniforme	1.888	-	-	-	Globales	-0.000	0.179	0.984
N34/N36	V(0°) H4	Uniforme	2.700	-	-	-	Globales	-0.000	0.179	0.984
N34/N36	V(90°) H1	Uniforme	0.276	-	-	-	Globales	0.000	0.179	0.984
N34/N36	V(90°) H1	Uniforme	0.536	-	-	-	Globales	-0.000	0.179	0.984
N34/N36	V(90°) H1	Uniforme	0.123	-	-	-	Globales	-0.000	0.179	0.984
N34/N36	V(90°) H2	Uniforme	0.414	-	-	-	Globales	0.000	0.179	0.984



Anexo 2. Análisis de Cargas

Cubierta a dos aguas

Fecha: 28/06/21

Cargas en barras										
Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N34/N36	V(90°) H2	Uniforme	0.803	-	-	-	Globales	-0.000	0.179	0.984
N34/N36	V(90°) H2	Uniforme	0.247	-	-	-	Globales	-0.000	0.179	0.984
N34/N36	V(90°) H3	Uniforme	0.276	-	-	-	Globales	-0.000	-0.179	-0.984
N34/N36	V(90°) H3	Uniforme	0.446	-	-	-	Globales	0.000	-0.179	-0.984
N34/N36	V(90°) H3	Uniforme	0.123	-	-	-	Globales	0.000	-0.179	-0.984
N34/N36	V(90°) H4	Uniforme	0.619	-	-	-	Globales	-0.000	-0.179	-0.984
N34/N36	V(90°) H4	Uniforme	0.123	-	-	-	Globales	0.000	-0.179	-0.984
N34/N36	V(180°) H1	Uniforme	1.787	-	-	-	Globales	0.000	-0.179	-0.984
N34/N36	V(180°) H2	Uniforme	2.356	-	-	-	Globales	-0.000	0.179	0.984
N34/N36	V(180°) H3	Uniforme	0.264	-	-	-	Globales	0.000	-0.179	-0.984
N34/N36	V(180°) H4	Uniforme	1.279	-	-	-	Globales	-0.000	0.179	0.984
N34/N36	V(270°) H1	Uniforme	0.043	-	-	-	Globales	-0.000	0.179	0.984
N34/N36	V(270°) H1	Uniforme	0.473	-	-	-	Globales	0.000	0.179	0.984
N34/N36	V(270°) H2	Uniforme	0.064	-	-	-	Globales	-0.000	0.179	0.984
N34/N36	V(270°) H2	Uniforme	0.947	-	-	-	Globales	0.000	0.179	0.984
N34/N36	V(270°) H3	Uniforme	0.036	-	-	-	Globales	0.000	-0.179	-0.984
N34/N36	V(270°) H3	Uniforme	0.473	-	-	-	Globales	-0.000	-0.179	-0.984
N34/N36	V(270°) H4	Uniforme	0.036	-	-	-	Globales	0.000	-0.179	-0.984
N34/N36	V(270°) H4	Uniforme	0.473	-	-	-	Globales	-0.000	-0.179	-0.984
N36/N23	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N36/N23	Peso propio	Uniforme	3.421	-	-	-	Globales	0.000	0.000	-1.000
N36/N23	Q	Uniforme	0.440	-	-	-	Globales	0.000	0.000	-1.000
N36/N23	V(0°) H1	Uniforme	0.548	-	-	-	Globales	-0.000	0.179	0.984
N36/N23	V(0°) H2	Uniforme	1.624	-	-	-	Globales	-0.000	0.179	0.984
N36/N23	V(0°) H3	Uniforme	1.888	-	-	-	Globales	-0.000	0.179	0.984
N36/N23	V(0°) H4	Uniforme	2.700	-	-	-	Globales	-0.000	0.179	0.984
N36/N23	V(90°) H1	Uniforme	0.276	-	-	-	Globales	0.000	0.179	0.984
N36/N23	V(90°) H1	Uniforme	0.536	-	-	-	Globales	-0.000	0.179	0.984
N36/N23	V(90°) H1	Uniforme	0.123	-	-	-	Globales	-0.000	0.179	0.984
N36/N23	V(90°) H2	Uniforme	0.414	-	-	-	Globales	0.000	0.179	0.984
N36/N23	V(90°) H2	Uniforme	0.803	-	-	-	Globales	-0.000	0.179	0.984
N36/N23	V(90°) H2	Uniforme	0.247	-	-	-	Globales	-0.000	0.179	0.984
N36/N23	V(90°) H3	Uniforme	0.276	-	-	-	Globales	-0.000	-0.179	-0.984
N36/N23	V(90°) H3	Uniforme	0.446	-	-	-	Globales	0.000	-0.179	-0.984
N36/N23	V(90°) H3	Uniforme	0.123	-	-	-	Globales	0.000	-0.179	-0.984
N36/N23	V(90°) H4	Uniforme	0.619	-	-	-	Globales	-0.000	-0.179	-0.984
N36/N23	V(90°) H4	Uniforme	0.123	-	-	-	Globales	0.000	-0.179	-0.984
N36/N23	V(180°) H1	Uniforme	1.787	-	-	-	Globales	0.000	-0.179	-0.984
N36/N23	V(180°) H2	Uniforme	2.356	-	-	-	Globales	-0.000	0.179	0.984
N36/N23	V(180°) H3	Uniforme	0.264	-	-	-	Globales	0.000	-0.179	-0.984
N36/N23	V(180°) H4	Uniforme	1.279	-	-	-	Globales	-0.000	0.179	0.984
N36/N23	V(270°) H1	Uniforme	0.043	-	-	-	Globales	-0.000	0.179	0.984



Anexo 2. Análisis de Cargas

Cubierta a dos aguas

Fecha: 28/06/21

Cargas en barras										
Barra	Hipótesis	Tipo	Valores		Posición		Ejes	Dirección		
			P1	P2	L1 (m)	L2 (m)		X	Y	Z
N36/N23	V(270°) H1	Uniforme	0.473	-	-	-	Globales	0.000	0.179	0.984
N36/N23	V(270°) H2	Uniforme	0.064	-	-	-	Globales	-0.000	0.179	0.984
N36/N23	V(270°) H2	Uniforme	0.947	-	-	-	Globales	0.000	0.179	0.984
N36/N23	V(270°) H3	Uniforme	0.036	-	-	-	Globales	0.000	-0.179	-0.984
N36/N23	V(270°) H3	Uniforme	0.473	-	-	-	Globales	-0.000	-0.179	-0.984
N36/N23	V(270°) H4	Uniforme	0.036	-	-	-	Globales	0.000	-0.179	-0.984
N36/N23	V(270°) H4	Uniforme	0.473	-	-	-	Globales	-0.000	-0.179	-0.984
N20/N24	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N24/N26	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N26/N28	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N28/N30	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N30/N35	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N35/N33	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N33/N31	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N31/N22	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N24/N25	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N26/N25	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N26/N27	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N28/N27	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N28/N29	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N30/N29	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N30/N23	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N31/N32	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N33/N32	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N33/N34	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N35/N34	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N35/N36	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N30/N36	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N37/N38	Peso propio	Uniforme	1.242	-	-	-	Globales	0.000	0.000	-1.000
N39/N40	Peso propio	Uniforme	1.242	-	-	-	Globales	0.000	0.000	-1.000
N38/N43	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N38/N43	Peso propio	Uniforme	3.421	-	-	-	Globales	0.000	0.000	-1.000
N38/N43	Q	Uniforme	0.440	-	-	-	Globales	0.000	0.000	-1.000
N38/N43	V(0°) H1	Uniforme	1.787	-	-	-	Globales	0.000	0.179	-0.984
N38/N43	V(0°) H2	Uniforme	2.356	-	-	-	Globales	-0.000	-0.179	0.984
N38/N43	V(0°) H3	Uniforme	0.264	-	-	-	Globales	0.000	0.179	-0.984
N38/N43	V(0°) H4	Uniforme	1.279	-	-	-	Globales	-0.000	-0.179	0.984
N38/N43	V(90°) H1	Uniforme	0.043	-	-	-	Globales	-0.000	-0.179	0.984
N38/N43	V(90°) H1	Uniforme	0.473	-	-	-	Globales	0.000	-0.179	0.984
N38/N43	V(90°) H2	Uniforme	0.064	-	-	-	Globales	-0.000	-0.179	0.984
N38/N43	V(90°) H2	Uniforme	0.947	-	-	-	Globales	0.000	-0.179	0.984
N38/N43	V(90°) H3	Uniforme	0.036	-	-	-	Globales	0.000	0.179	-0.984



Anexo 2. Análisis de Cargas

Cubierta a dos aguas

Fecha: 28/06/21

Cargas en barras										
Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N38/N43	V(90°) H3	Uniforme	0.473	-	-	-	Globales	-0.000	0.179	-0.984
N38/N43	V(90°) H4	Uniforme	0.036	-	-	-	Globales	-0.000	0.179	-0.984
N38/N43	V(90°) H4	Uniforme	0.473	-	-	-	Globales	-0.000	0.179	-0.984
N38/N43	V(180°) H1	Uniforme	0.548	-	-	-	Globales	-0.000	-0.179	0.984
N38/N43	V(180°) H2	Uniforme	1.624	-	-	-	Globales	-0.000	-0.179	0.984
N38/N43	V(180°) H3	Uniforme	1.888	-	-	-	Globales	-0.000	-0.179	0.984
N38/N43	V(180°) H4	Uniforme	2.700	-	-	-	Globales	-0.000	-0.179	0.984
N38/N43	V(270°) H1	Uniforme	0.276	-	-	-	Globales	0.000	-0.179	0.984
N38/N43	V(270°) H1	Uniforme	0.536	-	-	-	Globales	-0.000	-0.179	0.984
N38/N43	V(270°) H1	Uniforme	0.123	-	-	-	Globales	0.000	-0.179	0.984
N38/N43	V(270°) H2	Uniforme	0.414	-	-	-	Globales	0.000	-0.179	0.984
N38/N43	V(270°) H2	Uniforme	0.803	-	-	-	Globales	-0.000	-0.179	0.984
N38/N43	V(270°) H2	Uniforme	0.247	-	-	-	Globales	0.000	-0.179	0.984
N38/N43	V(270°) H3	Uniforme	0.276	-	-	-	Globales	-0.000	0.179	-0.984
N38/N43	V(270°) H3	Uniforme	0.446	-	-	-	Globales	0.000	0.179	-0.984
N38/N43	V(270°) H3	Uniforme	0.123	-	-	-	Globales	-0.000	0.179	-0.984
N38/N43	V(270°) H4	Uniforme	0.619	-	-	-	Globales	-0.000	0.179	-0.984
N38/N43	V(270°) H4	Uniforme	0.123	-	-	-	Globales	-0.000	0.179	-0.984
N43/N45	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N43/N45	Peso propio	Uniforme	3.421	-	-	-	Globales	0.000	0.000	-1.000
N43/N45	Q	Uniforme	0.440	-	-	-	Globales	0.000	0.000	-1.000
N43/N45	V(0°) H1	Uniforme	1.787	-	-	-	Globales	0.000	0.179	-0.984
N43/N45	V(0°) H2	Uniforme	2.356	-	-	-	Globales	-0.000	-0.179	0.984
N43/N45	V(0°) H3	Uniforme	0.264	-	-	-	Globales	0.000	0.179	-0.984
N43/N45	V(0°) H4	Uniforme	1.279	-	-	-	Globales	-0.000	-0.179	0.984
N43/N45	V(90°) H1	Uniforme	0.043	-	-	-	Globales	-0.000	-0.179	0.984
N43/N45	V(90°) H1	Uniforme	0.473	-	-	-	Globales	0.000	-0.179	0.984
N43/N45	V(90°) H2	Uniforme	0.064	-	-	-	Globales	-0.000	-0.179	0.984
N43/N45	V(90°) H2	Uniforme	0.947	-	-	-	Globales	0.000	-0.179	0.984
N43/N45	V(90°) H3	Uniforme	0.036	-	-	-	Globales	0.000	0.179	-0.984
N43/N45	V(90°) H3	Uniforme	0.473	-	-	-	Globales	-0.000	0.179	-0.984
N43/N45	V(90°) H4	Uniforme	0.036	-	-	-	Globales	-0.000	0.179	-0.984
N43/N45	V(90°) H4	Uniforme	0.473	-	-	-	Globales	-0.000	0.179	-0.984
N43/N45	V(180°) H1	Uniforme	0.548	-	-	-	Globales	-0.000	-0.179	0.984
N43/N45	V(180°) H2	Uniforme	1.624	-	-	-	Globales	-0.000	-0.179	0.984
N43/N45	V(180°) H3	Uniforme	1.888	-	-	-	Globales	-0.000	-0.179	0.984
N43/N45	V(180°) H4	Uniforme	2.700	-	-	-	Globales	-0.000	-0.179	0.984
N43/N45	V(270°) H1	Uniforme	0.276	-	-	-	Globales	0.000	-0.179	0.984
N43/N45	V(270°) H1	Uniforme	0.536	-	-	-	Globales	-0.000	-0.179	0.984
N43/N45	V(270°) H1	Uniforme	0.123	-	-	-	Globales	0.000	-0.179	0.984
N43/N45	V(270°) H2	Uniforme	0.414	-	-	-	Globales	0.000	-0.179	0.984
N43/N45	V(270°) H2	Uniforme	0.803	-	-	-	Globales	-0.000	-0.179	0.984



Anexo 2. Análisis de Cargas

Cubierta a dos aguas

Fecha: 28/06/21

Cargas en barras										
Barra	Hipótesis	Tipo	Valores		Posición		Ejes	Dirección		
			P1	P2	L1 (m)	L2 (m)		X	Y	Z
N43/N45	V(270°) H2	Uniforme	0.247	-	-	-	Globales	0.000	-0.179	0.984
N43/N45	V(270°) H3	Uniforme	0.276	-	-	-	Globales	-0.000	0.179	-0.984
N43/N45	V(270°) H3	Uniforme	0.446	-	-	-	Globales	0.000	0.179	-0.984
N43/N45	V(270°) H3	Uniforme	0.123	-	-	-	Globales	-0.000	0.179	-0.984
N43/N45	V(270°) H4	Uniforme	0.619	-	-	-	Globales	-0.000	0.179	-0.984
N43/N45	V(270°) H4	Uniforme	0.123	-	-	-	Globales	-0.000	0.179	-0.984
N45/N47	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N45/N47	Peso propio	Uniforme	3.421	-	-	-	Globales	0.000	0.000	-1.000
N45/N47	Q	Uniforme	0.440	-	-	-	Globales	0.000	0.000	-1.000
N45/N47	V(0°) H1	Uniforme	1.787	-	-	-	Globales	0.000	0.179	-0.984
N45/N47	V(0°) H2	Uniforme	2.356	-	-	-	Globales	-0.000	-0.179	0.984
N45/N47	V(0°) H3	Uniforme	0.264	-	-	-	Globales	0.000	0.179	-0.984
N45/N47	V(0°) H4	Uniforme	1.279	-	-	-	Globales	-0.000	-0.179	0.984
N45/N47	V(90°) H1	Uniforme	0.043	-	-	-	Globales	-0.000	-0.179	0.984
N45/N47	V(90°) H1	Uniforme	0.473	-	-	-	Globales	0.000	-0.179	0.984
N45/N47	V(90°) H2	Uniforme	0.064	-	-	-	Globales	-0.000	-0.179	0.984
N45/N47	V(90°) H2	Uniforme	0.947	-	-	-	Globales	0.000	-0.179	0.984
N45/N47	V(90°) H3	Uniforme	0.036	-	-	-	Globales	0.000	0.179	-0.984
N45/N47	V(90°) H3	Uniforme	0.473	-	-	-	Globales	-0.000	0.179	-0.984
N45/N47	V(90°) H4	Uniforme	0.036	-	-	-	Globales	-0.000	0.179	-0.984
N45/N47	V(90°) H4	Uniforme	0.473	-	-	-	Globales	-0.000	0.179	-0.984
N45/N47	V(180°) H1	Uniforme	0.548	-	-	-	Globales	-0.000	-0.179	0.984
N45/N47	V(180°) H2	Uniforme	1.624	-	-	-	Globales	-0.000	-0.179	0.984
N45/N47	V(180°) H3	Uniforme	1.888	-	-	-	Globales	-0.000	-0.179	0.984
N45/N47	V(180°) H4	Uniforme	2.700	-	-	-	Globales	-0.000	-0.179	0.984
N45/N47	V(270°) H1	Uniforme	0.276	-	-	-	Globales	0.000	-0.179	0.984
N45/N47	V(270°) H1	Uniforme	0.536	-	-	-	Globales	-0.000	-0.179	0.984
N45/N47	V(270°) H1	Uniforme	0.123	-	-	-	Globales	0.000	-0.179	0.984
N45/N47	V(270°) H2	Uniforme	0.414	-	-	-	Globales	0.000	-0.179	0.984
N45/N47	V(270°) H2	Uniforme	0.803	-	-	-	Globales	-0.000	-0.179	0.984
N45/N47	V(270°) H2	Uniforme	0.247	-	-	-	Globales	0.000	-0.179	0.984
N45/N47	V(270°) H3	Uniforme	0.276	-	-	-	Globales	-0.000	0.179	-0.984
N45/N47	V(270°) H3	Uniforme	0.446	-	-	-	Globales	0.000	0.179	-0.984
N45/N47	V(270°) H3	Uniforme	0.123	-	-	-	Globales	-0.000	0.179	-0.984
N45/N47	V(270°) H4	Uniforme	0.619	-	-	-	Globales	-0.000	0.179	-0.984
N45/N47	V(270°) H4	Uniforme	0.123	-	-	-	Globales	-0.000	0.179	-0.984
N47/N41	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N47/N41	Peso propio	Uniforme	3.421	-	-	-	Globales	0.000	0.000	-1.000
N47/N41	Q	Uniforme	0.440	-	-	-	Globales	0.000	0.000	-1.000
N47/N41	V(0°) H1	Uniforme	1.787	-	-	-	Globales	0.000	0.179	-0.984
N47/N41	V(0°) H2	Uniforme	2.356	-	-	-	Globales	-0.000	-0.179	0.984
N47/N41	V(0°) H3	Uniforme	0.264	-	-	-	Globales	0.000	0.179	-0.984



Anexo 2. Análisis de Cargas

Cubierta a dos aguas

Fecha: 28/06/21

Cargas en barras										
Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N47/N41	V(0°) H4	Uniforme	1.279	-	-	-	Globales	-0.000	-0.179	0.984
N47/N41	V(90°) H1	Uniforme	0.043	-	-	-	Globales	-0.000	-0.179	0.984
N47/N41	V(90°) H1	Uniforme	0.473	-	-	-	Globales	0.000	-0.179	0.984
N47/N41	V(90°) H2	Uniforme	0.064	-	-	-	Globales	-0.000	-0.179	0.984
N47/N41	V(90°) H2	Uniforme	0.947	-	-	-	Globales	0.000	-0.179	0.984
N47/N41	V(90°) H3	Uniforme	0.036	-	-	-	Globales	0.000	0.179	-0.984
N47/N41	V(90°) H3	Uniforme	0.473	-	-	-	Globales	-0.000	0.179	-0.984
N47/N41	V(90°) H4	Uniforme	0.036	-	-	-	Globales	-0.000	0.179	-0.984
N47/N41	V(90°) H4	Uniforme	0.473	-	-	-	Globales	-0.000	0.179	-0.984
N47/N41	V(180°) H1	Uniforme	0.548	-	-	-	Globales	-0.000	-0.179	0.984
N47/N41	V(180°) H2	Uniforme	1.624	-	-	-	Globales	-0.000	-0.179	0.984
N47/N41	V(180°) H3	Uniforme	1.888	-	-	-	Globales	-0.000	-0.179	0.984
N47/N41	V(180°) H4	Uniforme	2.700	-	-	-	Globales	-0.000	-0.179	0.984
N47/N41	V(270°) H1	Uniforme	0.276	-	-	-	Globales	0.000	-0.179	0.984
N47/N41	V(270°) H1	Uniforme	0.536	-	-	-	Globales	-0.000	-0.179	0.984
N47/N41	V(270°) H1	Uniforme	0.123	-	-	-	Globales	0.000	-0.179	0.984
N47/N41	V(270°) H2	Uniforme	0.414	-	-	-	Globales	0.000	-0.179	0.984
N47/N41	V(270°) H2	Uniforme	0.803	-	-	-	Globales	-0.000	-0.179	0.984
N47/N41	V(270°) H2	Uniforme	0.247	-	-	-	Globales	0.000	-0.179	0.984
N47/N41	V(270°) H3	Uniforme	0.276	-	-	-	Globales	-0.000	0.179	-0.984
N47/N41	V(270°) H3	Uniforme	0.446	-	-	-	Globales	0.000	0.179	-0.984
N47/N41	V(270°) H3	Uniforme	0.123	-	-	-	Globales	-0.000	0.179	-0.984
N47/N41	V(270°) H4	Uniforme	0.619	-	-	-	Globales	-0.000	0.179	-0.984
N47/N41	V(270°) H4	Uniforme	0.123	-	-	-	Globales	-0.000	0.179	-0.984
N40/N50	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N40/N50	Peso propio	Uniforme	3.421	-	-	-	Globales	0.000	0.000	-1.000
N40/N50	Q	Uniforme	0.440	-	-	-	Globales	0.000	0.000	-1.000
N40/N50	V(0°) H1	Uniforme	0.548	-	-	-	Globales	-0.000	0.179	0.984
N40/N50	V(0°) H2	Uniforme	1.624	-	-	-	Globales	-0.000	0.179	0.984
N40/N50	V(0°) H3	Uniforme	1.888	-	-	-	Globales	-0.000	0.179	0.984
N40/N50	V(0°) H4	Uniforme	2.700	-	-	-	Globales	-0.000	0.179	0.984
N40/N50	V(90°) H1	Uniforme	0.043	-	-	-	Globales	-0.000	0.179	0.984
N40/N50	V(90°) H1	Uniforme	0.473	-	-	-	Globales	-0.000	0.179	0.984
N40/N50	V(90°) H2	Uniforme	0.064	-	-	-	Globales	-0.000	0.179	0.984
N40/N50	V(90°) H2	Uniforme	0.947	-	-	-	Globales	-0.000	0.179	0.984
N40/N50	V(90°) H3	Uniforme	0.036	-	-	-	Globales	0.000	-0.179	-0.984
N40/N50	V(90°) H3	Uniforme	0.473	-	-	-	Globales	0.000	-0.179	-0.984
N40/N50	V(90°) H4	Uniforme	0.036	-	-	-	Globales	-0.000	-0.179	-0.984
N40/N50	V(90°) H4	Uniforme	0.473	-	-	-	Globales	0.000	-0.179	-0.984
N40/N50	V(180°) H1	Uniforme	1.787	-	-	-	Globales	0.000	-0.179	-0.984
N40/N50	V(180°) H2	Uniforme	2.356	-	-	-	Globales	-0.000	0.179	0.984
N40/N50	V(180°) H3	Uniforme	0.264	-	-	-	Globales	0.000	-0.179	-0.984



Anexo 2. Análisis de Cargas

Cubierta a dos aguas

Fecha: 28/06/21

Cargas en barras										
Barra	Hipótesis	Tipo	Valores		Posición		Ejes	Dirección		
			P1	P2	L1 (m)	L2 (m)		X	Y	Z
N40/N50	V(180°) H4	Uniforme	1.279	-	-	-	Globales	-0.000	0.179	0.984
N40/N50	V(270°) H1	Uniforme	0.276	-	-	-	Globales	-0.000	0.179	0.984
N40/N50	V(270°) H1	Uniforme	0.536	-	-	-	Globales	-0.000	0.179	0.984
N40/N50	V(270°) H1	Uniforme	0.123	-	-	-	Globales	0.000	0.179	0.984
N40/N50	V(270°) H2	Uniforme	0.414	-	-	-	Globales	-0.000	0.179	0.984
N40/N50	V(270°) H2	Uniforme	0.803	-	-	-	Globales	-0.000	0.179	0.984
N40/N50	V(270°) H2	Uniforme	0.247	-	-	-	Globales	0.000	0.179	0.984
N40/N50	V(270°) H3	Uniforme	0.276	-	-	-	Globales	0.000	-0.179	-0.984
N40/N50	V(270°) H3	Uniforme	0.446	-	-	-	Globales	0.000	-0.179	-0.984
N40/N50	V(270°) H3	Uniforme	0.123	-	-	-	Globales	-0.000	-0.179	-0.984
N40/N50	V(270°) H4	Uniforme	0.619	-	-	-	Globales	0.000	-0.179	-0.984
N40/N50	V(270°) H4	Uniforme	0.123	-	-	-	Globales	-0.000	-0.179	-0.984
N50/N52	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N50/N52	Peso propio	Uniforme	3.421	-	-	-	Globales	0.000	0.000	-1.000
N50/N52	Q	Uniforme	0.440	-	-	-	Globales	0.000	0.000	-1.000
N50/N52	V(0°) H1	Uniforme	0.548	-	-	-	Globales	-0.000	0.179	0.984
N50/N52	V(0°) H2	Uniforme	1.624	-	-	-	Globales	-0.000	0.179	0.984
N50/N52	V(0°) H3	Uniforme	1.888	-	-	-	Globales	-0.000	0.179	0.984
N50/N52	V(0°) H4	Uniforme	2.700	-	-	-	Globales	-0.000	0.179	0.984
N50/N52	V(90°) H1	Uniforme	0.043	-	-	-	Globales	-0.000	0.179	0.984
N50/N52	V(90°) H1	Uniforme	0.473	-	-	-	Globales	-0.000	0.179	0.984
N50/N52	V(90°) H2	Uniforme	0.064	-	-	-	Globales	-0.000	0.179	0.984
N50/N52	V(90°) H2	Uniforme	0.947	-	-	-	Globales	-0.000	0.179	0.984
N50/N52	V(90°) H3	Uniforme	0.036	-	-	-	Globales	0.000	-0.179	-0.984
N50/N52	V(90°) H3	Uniforme	0.473	-	-	-	Globales	0.000	-0.179	-0.984
N50/N52	V(90°) H4	Uniforme	0.036	-	-	-	Globales	-0.000	-0.179	-0.984
N50/N52	V(90°) H4	Uniforme	0.473	-	-	-	Globales	0.000	-0.179	-0.984
N50/N52	V(180°) H1	Uniforme	1.787	-	-	-	Globales	0.000	-0.179	-0.984
N50/N52	V(180°) H2	Uniforme	2.356	-	-	-	Globales	-0.000	0.179	0.984
N50/N52	V(180°) H3	Uniforme	0.264	-	-	-	Globales	0.000	-0.179	-0.984
N50/N52	V(180°) H4	Uniforme	1.279	-	-	-	Globales	-0.000	0.179	0.984
N50/N52	V(270°) H1	Uniforme	0.276	-	-	-	Globales	-0.000	0.179	0.984
N50/N52	V(270°) H1	Uniforme	0.536	-	-	-	Globales	-0.000	0.179	0.984
N50/N52	V(270°) H1	Uniforme	0.123	-	-	-	Globales	0.000	0.179	0.984
N50/N52	V(270°) H2	Uniforme	0.414	-	-	-	Globales	-0.000	0.179	0.984
N50/N52	V(270°) H2	Uniforme	0.803	-	-	-	Globales	-0.000	0.179	0.984
N50/N52	V(270°) H2	Uniforme	0.247	-	-	-	Globales	0.000	0.179	0.984
N50/N52	V(270°) H3	Uniforme	0.276	-	-	-	Globales	0.000	-0.179	-0.984
N50/N52	V(270°) H3	Uniforme	0.446	-	-	-	Globales	0.000	-0.179	-0.984
N50/N52	V(270°) H3	Uniforme	0.123	-	-	-	Globales	-0.000	-0.179	-0.984
N50/N52	V(270°) H4	Uniforme	0.619	-	-	-	Globales	0.000	-0.179	-0.984
N50/N52	V(270°) H4	Uniforme	0.123	-	-	-	Globales	-0.000	-0.179	-0.984



Anexo 2. Análisis de Cargas

Cubierta a dos aguas

Fecha: 28/06/21

Cargas en barras										
Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N52/N54	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N52/N54	Peso propio	Uniforme	3.421	-	-	-	Globales	0.000	0.000	-1.000
N52/N54	Q	Uniforme	0.440	-	-	-	Globales	0.000	0.000	-1.000
N52/N54	V(0°) H1	Uniforme	0.548	-	-	-	Globales	-0.000	0.179	0.984
N52/N54	V(0°) H2	Uniforme	1.624	-	-	-	Globales	-0.000	0.179	0.984
N52/N54	V(0°) H3	Uniforme	1.888	-	-	-	Globales	-0.000	0.179	0.984
N52/N54	V(0°) H4	Uniforme	2.700	-	-	-	Globales	-0.000	0.179	0.984
N52/N54	V(90°) H1	Uniforme	0.043	-	-	-	Globales	-0.000	0.179	0.984
N52/N54	V(90°) H1	Uniforme	0.473	-	-	-	Globales	-0.000	0.179	0.984
N52/N54	V(90°) H2	Uniforme	0.064	-	-	-	Globales	-0.000	0.179	0.984
N52/N54	V(90°) H2	Uniforme	0.947	-	-	-	Globales	-0.000	0.179	0.984
N52/N54	V(90°) H3	Uniforme	0.036	-	-	-	Globales	0.000	-0.179	-0.984
N52/N54	V(90°) H3	Uniforme	0.473	-	-	-	Globales	0.000	-0.179	-0.984
N52/N54	V(90°) H4	Uniforme	0.036	-	-	-	Globales	-0.000	-0.179	-0.984
N52/N54	V(90°) H4	Uniforme	0.473	-	-	-	Globales	0.000	-0.179	-0.984
N52/N54	V(180°) H1	Uniforme	1.787	-	-	-	Globales	0.000	-0.179	-0.984
N52/N54	V(180°) H2	Uniforme	2.356	-	-	-	Globales	-0.000	0.179	0.984
N52/N54	V(180°) H3	Uniforme	0.264	-	-	-	Globales	0.000	-0.179	-0.984
N52/N54	V(180°) H4	Uniforme	1.279	-	-	-	Globales	-0.000	0.179	0.984
N52/N54	V(270°) H1	Uniforme	0.276	-	-	-	Globales	-0.000	0.179	0.984
N52/N54	V(270°) H1	Uniforme	0.536	-	-	-	Globales	-0.000	0.179	0.984
N52/N54	V(270°) H1	Uniforme	0.123	-	-	-	Globales	0.000	0.179	0.984
N52/N54	V(270°) H2	Uniforme	0.414	-	-	-	Globales	-0.000	0.179	0.984
N52/N54	V(270°) H2	Uniforme	0.803	-	-	-	Globales	-0.000	0.179	0.984
N52/N54	V(270°) H2	Uniforme	0.247	-	-	-	Globales	0.000	0.179	0.984
N52/N54	V(270°) H3	Uniforme	0.276	-	-	-	Globales	0.000	-0.179	-0.984
N52/N54	V(270°) H3	Uniforme	0.446	-	-	-	Globales	0.000	-0.179	-0.984
N52/N54	V(270°) H3	Uniforme	0.123	-	-	-	Globales	-0.000	-0.179	-0.984
N52/N54	V(270°) H4	Uniforme	0.619	-	-	-	Globales	0.000	-0.179	-0.984
N52/N54	V(270°) H4	Uniforme	0.123	-	-	-	Globales	-0.000	-0.179	-0.984
N54/N41	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N54/N41	Peso propio	Uniforme	3.421	-	-	-	Globales	0.000	0.000	-1.000
N54/N41	Q	Uniforme	0.440	-	-	-	Globales	0.000	0.000	-1.000
N54/N41	V(0°) H1	Uniforme	0.548	-	-	-	Globales	-0.000	0.179	0.984
N54/N41	V(0°) H2	Uniforme	1.624	-	-	-	Globales	-0.000	0.179	0.984
N54/N41	V(0°) H3	Uniforme	1.888	-	-	-	Globales	-0.000	0.179	0.984
N54/N41	V(0°) H4	Uniforme	2.700	-	-	-	Globales	-0.000	0.179	0.984
N54/N41	V(90°) H1	Uniforme	0.043	-	-	-	Globales	-0.000	0.179	0.984
N54/N41	V(90°) H1	Uniforme	0.473	-	-	-	Globales	-0.000	0.179	0.984
N54/N41	V(90°) H2	Uniforme	0.064	-	-	-	Globales	-0.000	0.179	0.984
N54/N41	V(90°) H2	Uniforme	0.947	-	-	-	Globales	-0.000	0.179	0.984
N54/N41	V(90°) H3	Uniforme	0.036	-	-	-	Globales	0.000	-0.179	-0.984



Anexo 2. Análisis de Cargas

Cubierta a dos aguas

Fecha: 28/06/21

Cargas en barras										
Barra	Hipótesis	Tipo	Valores		Posición		Ejes	Dirección		
			P1	P2	L1 (m)	L2 (m)		X	Y	Z
N54/N41	V(90°) H3	Uniforme	0.473	-	-	-	Globales	0.000	-0.179	-0.984
N54/N41	V(90°) H4	Uniforme	0.036	-	-	-	Globales	-0.000	-0.179	-0.984
N54/N41	V(90°) H4	Uniforme	0.473	-	-	-	Globales	0.000	-0.179	-0.984
N54/N41	V(180°) H1	Uniforme	1.787	-	-	-	Globales	0.000	-0.179	-0.984
N54/N41	V(180°) H2	Uniforme	2.356	-	-	-	Globales	-0.000	0.179	0.984
N54/N41	V(180°) H3	Uniforme	0.264	-	-	-	Globales	0.000	-0.179	-0.984
N54/N41	V(180°) H4	Uniforme	1.279	-	-	-	Globales	-0.000	0.179	0.984
N54/N41	V(270°) H1	Uniforme	0.276	-	-	-	Globales	-0.000	0.179	0.984
N54/N41	V(270°) H1	Uniforme	0.536	-	-	-	Globales	-0.000	0.179	0.984
N54/N41	V(270°) H1	Uniforme	0.123	-	-	-	Globales	0.000	0.179	0.984
N54/N41	V(270°) H2	Uniforme	0.414	-	-	-	Globales	-0.000	0.179	0.984
N54/N41	V(270°) H2	Uniforme	0.803	-	-	-	Globales	-0.000	0.179	0.984
N54/N41	V(270°) H2	Uniforme	0.247	-	-	-	Globales	0.000	0.179	0.984
N54/N41	V(270°) H3	Uniforme	0.276	-	-	-	Globales	0.000	-0.179	-0.984
N54/N41	V(270°) H3	Uniforme	0.446	-	-	-	Globales	0.000	-0.179	-0.984
N54/N41	V(270°) H3	Uniforme	0.123	-	-	-	Globales	-0.000	-0.179	-0.984
N54/N41	V(270°) H4	Uniforme	0.619	-	-	-	Globales	0.000	-0.179	-0.984
N54/N41	V(270°) H4	Uniforme	0.123	-	-	-	Globales	-0.000	-0.179	-0.984
N38/N42	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N42/N44	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N44/N46	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N46/N48	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N48/N53	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N53/N51	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N51/N49	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N49/N40	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N42/N43	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N44/N43	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N44/N45	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N46/N45	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N46/N47	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N48/N47	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N48/N41	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N49/N50	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N51/N50	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N51/N52	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N53/N52	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N53/N54	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N48/N54	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N55/N56	Peso propio	Uniforme	1.242	-	-	-	Globales	0.000	0.000	-1.000
N57/N58	Peso propio	Uniforme	1.242	-	-	-	Globales	0.000	0.000	-1.000
N56/N61	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000



Anexo 2. Análisis de Cargas

Cubierta a dos aguas

Fecha: 28/06/21

Cargas en barras										
Barra	Hipótesis	Tipo	Valores		Posición		Ejes	Dirección		
			P1	P2	L1 (m)	L2 (m)		X	Y	Z
N56/N61	Peso propio	Uniforme	1.710	-	-	-	Globales	0.000	0.000	-1.000
N56/N61	Q	Uniforme	0.220	-	-	-	Globales	0.000	0.000	-1.000
N56/N61	V(0°) H1	Uniforme	0.893	-	-	-	Globales	0.000	0.179	-0.984
N56/N61	V(0°) H2	Uniforme	1.178	-	-	-	Globales	-0.000	-0.179	0.984
N56/N61	V(0°) H3	Uniforme	0.132	-	-	-	Globales	0.000	0.179	-0.984
N56/N61	V(0°) H4	Uniforme	0.640	-	-	-	Globales	-0.000	-0.179	0.984
N56/N61	V(90°) H1	Uniforme	0.247	-	-	-	Globales	0.000	-0.179	0.984
N56/N61	V(90°) H2	Uniforme	0.495	-	-	-	Globales	0.000	-0.179	0.984
N56/N61	V(90°) H3	Uniforme	0.247	-	-	-	Globales	-0.000	0.179	-0.984
N56/N61	V(90°) H4	Uniforme	0.247	-	-	-	Globales	-0.000	0.179	-0.984
N56/N61	V(180°) H1	Uniforme	0.274	-	-	-	Globales	-0.000	-0.179	0.984
N56/N61	V(180°) H2	Uniforme	0.812	-	-	-	Globales	-0.000	-0.179	0.984
N56/N61	V(180°) H3	Uniforme	0.944	-	-	-	Globales	-0.000	-0.179	0.984
N56/N61	V(180°) H4	Uniforme	1.350	-	-	-	Globales	-0.000	-0.179	0.984
N56/N61	V(270°) H1	Uniforme	0.577	-	-	-	Globales	0.000	-0.179	0.984
N56/N61	V(270°) H1	Uniforme	0.062	-	-	-	Globales	-0.000	-0.179	0.984
N56/N61	V(270°) H2	Uniforme	0.866	-	-	-	Globales	0.000	-0.179	0.984
N56/N61	V(270°) H2	Uniforme	0.093	-	-	-	Globales	-0.000	-0.179	0.984
N56/N61	V(270°) H3	Uniforme	0.577	-	-	-	Globales	-0.000	0.179	-0.984
N56/N61	V(270°) H3	Uniforme	0.051	-	-	-	Globales	0.000	0.179	-0.984
N56/N61	V(270°) H4	Uniforme	0.412	-	-	-	Globales	-0.000	0.179	-0.984
N61/N63	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N61/N63	Peso propio	Uniforme	1.710	-	-	-	Globales	0.000	0.000	-1.000
N61/N63	Q	Uniforme	0.220	-	-	-	Globales	0.000	0.000	-1.000
N61/N63	V(0°) H1	Uniforme	0.893	-	-	-	Globales	0.000	0.179	-0.984
N61/N63	V(0°) H2	Uniforme	1.178	-	-	-	Globales	-0.000	-0.179	0.984
N61/N63	V(0°) H3	Uniforme	0.132	-	-	-	Globales	0.000	0.179	-0.984
N61/N63	V(0°) H4	Uniforme	0.640	-	-	-	Globales	-0.000	-0.179	0.984
N61/N63	V(90°) H1	Uniforme	0.247	-	-	-	Globales	0.000	-0.179	0.984
N61/N63	V(90°) H2	Uniforme	0.495	-	-	-	Globales	0.000	-0.179	0.984
N61/N63	V(90°) H3	Uniforme	0.247	-	-	-	Globales	-0.000	0.179	-0.984
N61/N63	V(90°) H4	Uniforme	0.247	-	-	-	Globales	-0.000	0.179	-0.984
N61/N63	V(180°) H1	Uniforme	0.274	-	-	-	Globales	-0.000	-0.179	0.984
N61/N63	V(180°) H2	Uniforme	0.812	-	-	-	Globales	-0.000	-0.179	0.984
N61/N63	V(180°) H3	Uniforme	0.944	-	-	-	Globales	-0.000	-0.179	0.984
N61/N63	V(180°) H4	Uniforme	1.350	-	-	-	Globales	-0.000	-0.179	0.984
N61/N63	V(270°) H1	Uniforme	0.577	-	-	-	Globales	0.000	-0.179	0.984
N61/N63	V(270°) H1	Uniforme	0.062	-	-	-	Globales	-0.000	-0.179	0.984
N61/N63	V(270°) H2	Uniforme	0.866	-	-	-	Globales	0.000	-0.179	0.984
N61/N63	V(270°) H2	Uniforme	0.093	-	-	-	Globales	-0.000	-0.179	0.984
N61/N63	V(270°) H3	Uniforme	0.577	-	-	-	Globales	-0.000	0.179	-0.984
N61/N63	V(270°) H3	Uniforme	0.051	-	-	-	Globales	0.000	0.179	-0.984



Anexo 2. Análisis de Cargas

Cubierta a dos aguas

Fecha: 28/06/21

Cargas en barras										
Barra	Hipótesis	Tipo	Valores		Posición		Ejes	Dirección		
			P1	P2	L1 (m)	L2 (m)		X	Y	Z
N61/N63	V(270°) H4	Uniforme	0.412	-	-	-	Globales	-0.000	0.179	-0.984
N63/N65	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N63/N65	Peso propio	Uniforme	1.710	-	-	-	Globales	0.000	0.000	-1.000
N63/N65	Q	Uniforme	0.220	-	-	-	Globales	0.000	0.000	-1.000
N63/N65	V(0°) H1	Uniforme	0.893	-	-	-	Globales	0.000	0.179	-0.984
N63/N65	V(0°) H2	Uniforme	1.178	-	-	-	Globales	-0.000	-0.179	0.984
N63/N65	V(0°) H3	Uniforme	0.132	-	-	-	Globales	0.000	0.179	-0.984
N63/N65	V(0°) H4	Uniforme	0.640	-	-	-	Globales	-0.000	-0.179	0.984
N63/N65	V(90°) H1	Uniforme	0.247	-	-	-	Globales	0.000	-0.179	0.984
N63/N65	V(90°) H2	Uniforme	0.495	-	-	-	Globales	0.000	-0.179	0.984
N63/N65	V(90°) H3	Uniforme	0.247	-	-	-	Globales	-0.000	0.179	-0.984
N63/N65	V(90°) H4	Uniforme	0.247	-	-	-	Globales	-0.000	0.179	-0.984
N63/N65	V(180°) H1	Uniforme	0.274	-	-	-	Globales	-0.000	-0.179	0.984
N63/N65	V(180°) H2	Uniforme	0.812	-	-	-	Globales	-0.000	-0.179	0.984
N63/N65	V(180°) H3	Uniforme	0.944	-	-	-	Globales	-0.000	-0.179	0.984
N63/N65	V(180°) H4	Uniforme	1.350	-	-	-	Globales	-0.000	-0.179	0.984
N63/N65	V(270°) H1	Uniforme	0.577	-	-	-	Globales	0.000	-0.179	0.984
N63/N65	V(270°) H1	Uniforme	0.062	-	-	-	Globales	-0.000	-0.179	0.984
N63/N65	V(270°) H2	Uniforme	0.866	-	-	-	Globales	0.000	-0.179	0.984
N63/N65	V(270°) H2	Uniforme	0.093	-	-	-	Globales	-0.000	-0.179	0.984
N63/N65	V(270°) H3	Uniforme	0.577	-	-	-	Globales	-0.000	0.179	-0.984
N63/N65	V(270°) H3	Uniforme	0.051	-	-	-	Globales	0.000	0.179	-0.984
N63/N65	V(270°) H4	Uniforme	0.412	-	-	-	Globales	-0.000	0.179	-0.984
N65/N59	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N65/N59	Peso propio	Uniforme	1.710	-	-	-	Globales	0.000	0.000	-1.000
N65/N59	Q	Uniforme	0.220	-	-	-	Globales	0.000	0.000	-1.000
N65/N59	V(0°) H1	Uniforme	0.893	-	-	-	Globales	0.000	0.179	-0.984
N65/N59	V(0°) H2	Uniforme	1.178	-	-	-	Globales	-0.000	-0.179	0.984
N65/N59	V(0°) H3	Uniforme	0.132	-	-	-	Globales	0.000	0.179	-0.984
N65/N59	V(0°) H4	Uniforme	0.640	-	-	-	Globales	-0.000	-0.179	0.984
N65/N59	V(90°) H1	Uniforme	0.247	-	-	-	Globales	0.000	-0.179	0.984
N65/N59	V(90°) H2	Uniforme	0.495	-	-	-	Globales	0.000	-0.179	0.984
N65/N59	V(90°) H3	Uniforme	0.247	-	-	-	Globales	-0.000	0.179	-0.984
N65/N59	V(90°) H4	Uniforme	0.247	-	-	-	Globales	-0.000	0.179	-0.984
N65/N59	V(180°) H1	Uniforme	0.274	-	-	-	Globales	-0.000	-0.179	0.984
N65/N59	V(180°) H2	Uniforme	0.812	-	-	-	Globales	-0.000	-0.179	0.984
N65/N59	V(180°) H3	Uniforme	0.944	-	-	-	Globales	-0.000	-0.179	0.984
N65/N59	V(180°) H4	Uniforme	1.350	-	-	-	Globales	-0.000	-0.179	0.984
N65/N59	V(270°) H1	Uniforme	0.577	-	-	-	Globales	0.000	-0.179	0.984
N65/N59	V(270°) H1	Uniforme	0.062	-	-	-	Globales	-0.000	-0.179	0.984
N65/N59	V(270°) H2	Uniforme	0.866	-	-	-	Globales	0.000	-0.179	0.984
N65/N59	V(270°) H2	Uniforme	0.093	-	-	-	Globales	-0.000	-0.179	0.984



Anexo 2. Análisis de Cargas

Cubierta a dos aguas

Fecha: 28/06/21

Cargas en barras										
Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N65/N59	V(270°) H3	Uniforme	0.577	-	-	-	Globales	-0.000	0.179	-0.984
N65/N59	V(270°) H3	Uniforme	0.051	-	-	-	Globales	0.000	0.179	-0.984
N65/N59	V(270°) H4	Uniforme	0.412	-	-	-	Globales	-0.000	0.179	-0.984
N58/N68	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N58/N68	Peso propio	Uniforme	1.710	-	-	-	Globales	0.000	0.000	-1.000
N58/N68	Q	Uniforme	0.220	-	-	-	Globales	0.000	0.000	-1.000
N58/N68	V(0°) H1	Uniforme	0.274	-	-	-	Globales	-0.000	0.179	0.984
N58/N68	V(0°) H2	Uniforme	0.812	-	-	-	Globales	-0.000	0.179	0.984
N58/N68	V(0°) H3	Uniforme	0.944	-	-	-	Globales	-0.000	0.179	0.984
N58/N68	V(0°) H4	Uniforme	1.350	-	-	-	Globales	-0.000	0.179	0.984
N58/N68	V(90°) H1	Uniforme	0.247	-	-	-	Globales	-0.000	0.179	0.984
N58/N68	V(90°) H2	Uniforme	0.495	-	-	-	Globales	-0.000	0.179	0.984
N58/N68	V(90°) H3	Uniforme	0.247	-	-	-	Globales	0.000	-0.179	-0.984
N58/N68	V(90°) H4	Uniforme	0.247	-	-	-	Globales	0.000	-0.179	-0.984
N58/N68	V(180°) H1	Uniforme	0.893	-	-	-	Globales	0.000	-0.179	-0.984
N58/N68	V(180°) H2	Uniforme	1.178	-	-	-	Globales	-0.000	0.179	0.984
N58/N68	V(180°) H3	Uniforme	0.132	-	-	-	Globales	0.000	-0.179	-0.984
N58/N68	V(180°) H4	Uniforme	0.640	-	-	-	Globales	-0.000	0.179	0.984
N58/N68	V(270°) H1	Uniforme	0.577	-	-	-	Globales	-0.000	0.179	0.984
N58/N68	V(270°) H1	Uniforme	0.062	-	-	-	Globales	-0.000	0.179	0.984
N58/N68	V(270°) H2	Uniforme	0.866	-	-	-	Globales	-0.000	0.179	0.984
N58/N68	V(270°) H2	Uniforme	0.093	-	-	-	Globales	-0.000	0.179	0.984
N58/N68	V(270°) H3	Uniforme	0.577	-	-	-	Globales	0.000	-0.179	-0.984
N58/N68	V(270°) H3	Uniforme	0.051	-	-	-	Globales	0.000	-0.179	-0.984
N58/N68	V(270°) H4	Uniforme	0.412	-	-	-	Globales	0.000	-0.179	-0.984
N68/N70	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N68/N70	Peso propio	Uniforme	1.710	-	-	-	Globales	0.000	0.000	-1.000
N68/N70	Q	Uniforme	0.220	-	-	-	Globales	0.000	0.000	-1.000
N68/N70	V(0°) H1	Uniforme	0.274	-	-	-	Globales	-0.000	0.179	0.984
N68/N70	V(0°) H2	Uniforme	0.812	-	-	-	Globales	-0.000	0.179	0.984
N68/N70	V(0°) H3	Uniforme	0.944	-	-	-	Globales	-0.000	0.179	0.984
N68/N70	V(0°) H4	Uniforme	1.350	-	-	-	Globales	-0.000	0.179	0.984
N68/N70	V(90°) H1	Uniforme	0.247	-	-	-	Globales	-0.000	0.179	0.984
N68/N70	V(90°) H2	Uniforme	0.495	-	-	-	Globales	-0.000	0.179	0.984
N68/N70	V(90°) H3	Uniforme	0.247	-	-	-	Globales	0.000	-0.179	-0.984
N68/N70	V(90°) H4	Uniforme	0.247	-	-	-	Globales	0.000	-0.179	-0.984
N68/N70	V(180°) H1	Uniforme	0.893	-	-	-	Globales	0.000	-0.179	-0.984
N68/N70	V(180°) H2	Uniforme	1.178	-	-	-	Globales	-0.000	0.179	0.984
N68/N70	V(180°) H3	Uniforme	0.132	-	-	-	Globales	0.000	-0.179	-0.984
N68/N70	V(180°) H4	Uniforme	0.640	-	-	-	Globales	-0.000	0.179	0.984
N68/N70	V(270°) H1	Uniforme	0.577	-	-	-	Globales	-0.000	0.179	0.984
N68/N70	V(270°) H1	Uniforme	0.062	-	-	-	Globales	-0.000	0.179	0.984



Anexo 2. Análisis de Cargas

Cubierta a dos aguas

Fecha: 28/06/21

Cargas en barras										
Barra	Hipótesis	Tipo	Valores		Posición		Ejes	Dirección		
			P1	P2	L1 (m)	L2 (m)		X	Y	Z
N68/N70	V(270°) H2	Uniforme	0.866	-	-	-	Globales	-0.000	0.179	0.984
N68/N70	V(270°) H2	Uniforme	0.093	-	-	-	Globales	-0.000	0.179	0.984
N68/N70	V(270°) H3	Uniforme	0.577	-	-	-	Globales	0.000	-0.179	-0.984
N68/N70	V(270°) H3	Uniforme	0.051	-	-	-	Globales	0.000	-0.179	-0.984
N68/N70	V(270°) H4	Uniforme	0.412	-	-	-	Globales	0.000	-0.179	-0.984
N70/N72	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N70/N72	Peso propio	Uniforme	1.710	-	-	-	Globales	0.000	0.000	-1.000
N70/N72	Q	Uniforme	0.220	-	-	-	Globales	0.000	0.000	-1.000
N70/N72	V(0°) H1	Uniforme	0.274	-	-	-	Globales	-0.000	0.179	0.984
N70/N72	V(0°) H2	Uniforme	0.812	-	-	-	Globales	-0.000	0.179	0.984
N70/N72	V(0°) H3	Uniforme	0.944	-	-	-	Globales	-0.000	0.179	0.984
N70/N72	V(0°) H4	Uniforme	1.350	-	-	-	Globales	-0.000	0.179	0.984
N70/N72	V(90°) H1	Uniforme	0.247	-	-	-	Globales	-0.000	0.179	0.984
N70/N72	V(90°) H2	Uniforme	0.495	-	-	-	Globales	-0.000	0.179	0.984
N70/N72	V(90°) H3	Uniforme	0.247	-	-	-	Globales	0.000	-0.179	-0.984
N70/N72	V(90°) H4	Uniforme	0.247	-	-	-	Globales	0.000	-0.179	-0.984
N70/N72	V(180°) H1	Uniforme	0.893	-	-	-	Globales	0.000	-0.179	-0.984
N70/N72	V(180°) H2	Uniforme	1.178	-	-	-	Globales	-0.000	0.179	0.984
N70/N72	V(180°) H3	Uniforme	0.132	-	-	-	Globales	0.000	-0.179	-0.984
N70/N72	V(180°) H4	Uniforme	0.640	-	-	-	Globales	-0.000	0.179	0.984
N70/N72	V(270°) H1	Uniforme	0.577	-	-	-	Globales	-0.000	0.179	0.984
N70/N72	V(270°) H1	Uniforme	0.062	-	-	-	Globales	-0.000	0.179	0.984
N70/N72	V(270°) H2	Uniforme	0.866	-	-	-	Globales	-0.000	0.179	0.984
N70/N72	V(270°) H2	Uniforme	0.093	-	-	-	Globales	-0.000	0.179	0.984
N70/N72	V(270°) H3	Uniforme	0.577	-	-	-	Globales	0.000	-0.179	-0.984
N70/N72	V(270°) H3	Uniforme	0.051	-	-	-	Globales	0.000	-0.179	-0.984
N70/N72	V(270°) H4	Uniforme	0.412	-	-	-	Globales	0.000	-0.179	-0.984
N72/N59	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N72/N59	Peso propio	Uniforme	1.710	-	-	-	Globales	0.000	0.000	-1.000
N72/N59	Q	Uniforme	0.220	-	-	-	Globales	0.000	0.000	-1.000
N72/N59	V(0°) H1	Uniforme	0.274	-	-	-	Globales	-0.000	0.179	0.984
N72/N59	V(0°) H2	Uniforme	0.812	-	-	-	Globales	-0.000	0.179	0.984
N72/N59	V(0°) H3	Uniforme	0.944	-	-	-	Globales	-0.000	0.179	0.984
N72/N59	V(0°) H4	Uniforme	1.350	-	-	-	Globales	-0.000	0.179	0.984
N72/N59	V(90°) H1	Uniforme	0.247	-	-	-	Globales	-0.000	0.179	0.984
N72/N59	V(90°) H2	Uniforme	0.495	-	-	-	Globales	-0.000	0.179	0.984
N72/N59	V(90°) H3	Uniforme	0.247	-	-	-	Globales	0.000	-0.179	-0.984
N72/N59	V(90°) H4	Uniforme	0.247	-	-	-	Globales	0.000	-0.179	-0.984
N72/N59	V(180°) H1	Uniforme	0.893	-	-	-	Globales	0.000	-0.179	-0.984
N72/N59	V(180°) H2	Uniforme	1.178	-	-	-	Globales	-0.000	0.179	0.984
N72/N59	V(180°) H3	Uniforme	0.132	-	-	-	Globales	0.000	-0.179	-0.984
N72/N59	V(180°) H4	Uniforme	0.640	-	-	-	Globales	-0.000	0.179	0.984



Anexo 2. Análisis de Cargas

Cubierta a dos aguas

Fecha: 28/06/21

Cargas en barras										
Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N72/N59	V(270°) H1	Uniforme	0.577	-	-	-	Globales	-0.000	0.179	0.984
N72/N59	V(270°) H1	Uniforme	0.062	-	-	-	Globales	-0.000	0.179	0.984
N72/N59	V(270°) H2	Uniforme	0.866	-	-	-	Globales	-0.000	0.179	0.984
N72/N59	V(270°) H2	Uniforme	0.093	-	-	-	Globales	-0.000	0.179	0.984
N72/N59	V(270°) H3	Uniforme	0.577	-	-	-	Globales	0.000	-0.179	-0.984
N72/N59	V(270°) H3	Uniforme	0.051	-	-	-	Globales	0.000	-0.179	-0.984
N72/N59	V(270°) H4	Uniforme	0.412	-	-	-	Globales	0.000	-0.179	-0.984
N56/N60	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N60/N62	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N62/N64	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N64/N66	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N66/N71	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N71/N69	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N69/N67	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N67/N58	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N60/N61	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N62/N61	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N62/N63	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N64/N63	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N64/N65	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N66/N65	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N66/N59	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N67/N68	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N69/N68	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N69/N70	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N71/N70	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N71/N72	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N66/N72	Peso propio	Uniforme	0.196	-	-	-	Globales	0.000	0.000	-1.000
N2/N20	Peso propio	Uniforme	0.055	-	-	-	Globales	0.000	0.000	-1.000
N20/N38	Peso propio	Uniforme	0.055	-	-	-	Globales	0.000	0.000	-1.000
N38/N56	Peso propio	Uniforme	0.055	-	-	-	Globales	0.000	0.000	-1.000
N4/N22	Peso propio	Uniforme	0.055	-	-	-	Globales	0.000	0.000	-1.000
N22/N40	Peso propio	Uniforme	0.055	-	-	-	Globales	0.000	0.000	-1.000
N40/N58	Peso propio	Uniforme	0.055	-	-	-	Globales	0.000	0.000	-1.000
N5/N23	Peso propio	Uniforme	0.055	-	-	-	Globales	0.000	0.000	-1.000
N23/N41	Peso propio	Uniforme	0.055	-	-	-	Globales	0.000	0.000	-1.000
N41/N59	Peso propio	Uniforme	0.055	-	-	-	Globales	0.000	0.000	-1.000

1.2. Resultados Análisis de Cargas

1.2.1. Barras



Anexo 2. Análisis de Cargas

Cubierta a dos aguas

Fecha: 28/06/21

1.2.1.1. Comprobaciones E.L.U. (Resumido)

Barras	COMPROBACIONES (ANSI/AISC 360-10 (LRFD))								Estado
	P_t	λ_c	P_c	M_x	M_y	V_x	V_y	$P M_x M_y V_x V_y T$	
N1/N2	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0 m $\eta = 1.5$	x: 0 m $\eta = 12.2$	x: 0 m $\eta = 7.0$	$\eta = 0.1$	$\eta = 2.3$	x: 0 m $\eta = 15.1$	CUMPLE $\eta = 15.1$
N3/N4	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0 m $\eta = 1.5$	x: 0 m $\eta = 12.2$	x: 0 m $\eta = 7.0$	$\eta = 0.1$	$\eta = 2.3$	x: 0 m $\eta = 15.0$	CUMPLE $\eta = 15.0$
N2/N7	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.336 m $\eta = 17.6$	x: 0.336 m $\eta = 42.2$	x: 2.624 m $\eta = 7.0$	x: 2.243 m $\eta = 0.9$	x: 0.336 m $\eta = 7.1$	x: 0.336 m $\eta = 48.9$	CUMPLE $\eta = 48.9$
N7/N9	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.171 m $\eta = 23.4$	x: 1.215 m $\eta = 5.7$	x: 2.676 m $\eta = 9.4$	$\eta = 0.6$	x: 2.676 m $\eta = 2.8$	x: 1.215 m $\eta = 28.3$	CUMPLE $\eta = 28.3$
N9/N11	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.119 m $\eta = 20.4$	x: 2.699 m $\eta = 5.9$	x: 2.699 m $\eta = 14.1$	$\eta = 0.7$	x: 2.699 m $\eta = 2.6$	x: 2.699 m $\eta = 26.2$	CUMPLE $\eta = 26.2$
N11/N5	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.096 m $\eta = 16.5$	x: 0.096 m $\eta = 6.9$	x: 0.096 m $\eta = 8.0$	$\eta = 0.6$	x: 0.096 m $\eta = 3.0$	x: 0.096 m $\eta = 19.1$	CUMPLE $\eta = 19.1$
N4/N14	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.336 m $\eta = 17.3$	x: 0.336 m $\eta = 41.7$	x: 2.624 m $\eta = 7.0$	x: 2.243 m $\eta = 0.9$	x: 0.336 m $\eta = 7.0$	x: 0.336 m $\eta = 48.2$	CUMPLE $\eta = 48.2$
N14/N16	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.171 m $\eta = 23.3$	x: 1.215 m $\eta = 5.7$	x: 2.676 m $\eta = 9.4$	$\eta = 0.6$	x: 2.676 m $\eta = 2.8$	x: 1.215 m $\eta = 28.2$	CUMPLE $\eta = 28.2$
N16/N18	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.119 m $\eta = 20.4$	x: 2.699 m $\eta = 5.9$	x: 2.699 m $\eta = 14.2$	$\eta = 0.7$	x: 2.699 m $\eta = 2.6$	x: 2.699 m $\eta = 26.2$	CUMPLE $\eta = 26.2$
N18/N5	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.096 m $\eta = 16.5$	x: 0.096 m $\eta = 6.9$	x: 0.096 m $\eta = 8.0$	$\eta = 0.6$	x: 0.096 m $\eta = 3.0$	x: 0.096 m $\eta = 19.1$	CUMPLE $\eta = 19.1$
N2/N6	$\eta = 12.0$	N.P. ⁽²⁾	N.P. ⁽²⁾	x: 0.336 m $\eta = 36.0$	x: 2.69 m $\eta = 4.9$	x: 1.513 m $\eta = 0.4$	x: 0.336 m $\eta = 4.6$	x: 0.336 m $\eta = 39.2$	CUMPLE $\eta = 39.2$
N6/N8	$\eta = 14.6$	N.P. ⁽²⁾	N.P. ⁽²⁾	x: 0.06 m $\eta = 8.4$	x: 2.414 m $\eta = 7.0$	x: 0.06 m $\eta = 0.2$	x: 2.414 m $\eta = 0.9$	x: 0.06 m $\eta = 17.2$	CUMPLE $\eta = 17.2$
N8/N10	$\eta = 15.9$	N.P. ⁽²⁾	N.P. ⁽²⁾	x: 0.709 m $\eta = 1.7$	x: 0.336 m $\eta = 13.3$	$\eta = 0.4$	x: 2.574 m $\eta = 0.3$	x: 0.336 m $\eta = 20.9$	CUMPLE $\eta = 20.9$
N10/N12	$\eta = 13.9$	N.P. ⁽²⁾	N.P. ⁽²⁾	x: 0.38 m $\eta = 1.3$	x: 2.624 m $\eta = 19.8$	$\eta = 0.2$	x: 2.624 m $\eta = 0.3$	x: 0.992 m $\eta = 25.9$	CUMPLE $\eta = 25.9$
N12/N17	$\eta = 13.9$	N.P. ⁽²⁾	N.P. ⁽²⁾	x: 2.37 m $\eta = 1.3$	x: 0.126 m $\eta = 19.8$	$\eta = 0.2$	x: 0.126 m $\eta = 0.3$	x: 1.758 m $\eta = 25.9$	CUMPLE $\eta = 25.9$
N17/N15	$\eta = 15.9$	N.P. ⁽²⁾	N.P. ⁽²⁾	x: 2.413 m $\eta = 2.0$	x: 2.414 m $\eta = 13.3$	$\eta = 0.4$	x: 0.176 m $\eta = 0.3$	x: 2.414 m $\eta = 21.1$	CUMPLE $\eta = 21.1$
N15/N13	$\eta = 14.7$	N.P. ⁽²⁾	N.P. ⁽²⁾	x: 2.69 m $\eta = 5.6$	x: 0.336 m $\eta = 7.0$	x: 2.689 m $\eta = 0.2$	x: 0.336 m $\eta = 0.6$	x: 2.689 m $\eta = 15.0$	CUMPLE $\eta = 15.0$
N13/N4	$\eta = 11.8$	N.P. ⁽²⁾	N.P. ⁽²⁾	x: 2.414 m $\eta = 37.3$	x: 0.06 m $\eta = 5.0$	x: 1.237 m $\eta = 0.4$	x: 2.414 m $\eta = 4.9$	x: 2.414 m $\eta = 40.2$	CUMPLE $\eta = 40.2$
N6/N7	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.06 m $\eta = 1.0$	x: 0.439 m $\eta = 18.6$	x: 0.06 m $\eta = 1.1$	$\eta = 0.3$	$\eta = 13.8$	x: 0.439 m $\eta = 19.2$	CUMPLE $\eta = 19.2$
N8/N7	x: 2.623 m $\eta = 2.7$	N.P. ⁽²⁾	N.P. ⁽²⁾	x: 2.624 m $\eta = 4.8$	x: 0.336 m $\eta = 7.3$	$\eta = 0.2$	x: 0.336 m $\eta = 0.5$	x: 1.861 m $\eta = 9.9$	CUMPLE $\eta = 9.9$
N8/N9	x: 0.935 m $\eta = 0.2$	$\lambda \leq 200.0$ Cumple	x: 0.061 m $\eta = 0.2$	x: 0.061 m $\eta = 3.2$	x: 0.061 m $\eta = 3.1$	$\eta = 0.6$	$\eta = 1.3$	x: 0.061 m $\eta = 5.4$	CUMPLE $\eta = 5.4$
N10/N9	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.176 m $\eta = 3.5$	x: 1.68 m $\eta = 1.4$	x: 0.176 m $\eta = 10.7$	x: 0.74 m $\eta = 0.4$	x: 0.176 m $\eta = 0.2$	x: 0.176 m $\eta = 12.3$	CUMPLE $\eta = 12.3$
N10/N11	x: 1.43 m $\eta = 1.0$	N.P. ⁽²⁾	N.P. ⁽²⁾	x: 0.064 m $\eta = 0.7$	x: 0.064 m $\eta = 1.3$	$\eta = 0.2$	$\eta = 0.1$	x: 0.064 m $\eta = 2.2$	CUMPLE $\eta = 2.2$
N12/N11	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.126 m $\eta = 5.3$	x: 2.621 m $\eta = 1.3$	x: 0.126 m $\eta = 21.6$	x: 2.829 m $\eta = 0.9$	x: 0.126 m $\eta = 0.3$	x: 0.126 m $\eta = 24.1$	CUMPLE $\eta = 24.1$



Anexo 2. Análisis de Cargas

Cubierta a dos aguas

Fecha: 28/06/21

Barras	COMPROBACIONES (ANSI/AISC 360-10 (LRFD))								Estado
	P_t	λ_c	P_c	M_x	M_y	V_x	V_y	$P M_x M_y V_x V_y T$	
N12/N5	x: 2 m $\eta = 3.6$	N.P. ⁽²⁾	N.P. ⁽²⁾	x: 0.069 m $\eta = 0.1$	x: 0.069 m $\eta = 19.3$	$\eta = 1.9$	$\eta < 0.1$	x: 0.069 m $\eta = 20.7$	CUMPLE $\eta = 20.7$
N13/N14	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.06 m $\eta = 1.0$	x: 0.439 m $\eta = 17.2$	x: 0.06 m $\eta = 1.4$	$\eta = 0.3$	$\eta = 15.9$	x: 0.439 m $\eta = 17.8$	CUMPLE $\eta = 17.8$
N15/N14	x: 2.623 m $\eta = 2.5$	N.P. ⁽²⁾	N.P. ⁽²⁾	x: 2.624 m $\eta = 5.0$	x: 0.336 m $\eta = 7.3$	$\eta = 0.2$	x: 0.336 m $\eta = 0.5$	x: 2.243 m $\eta = 9.9$	CUMPLE $\eta = 9.9$
N15/N16	x: 0.935 m $\eta = 0.2$	$\lambda \leq 200.0$ Cumple	x: 0.061 m $\eta = 0.2$	x: 0.936 m $\eta = 2.7$	x: 0.061 m $\eta = 3.0$	$\eta = 0.6$	$\eta = 1.1$	x: 0.061 m $\eta = 4.7$	CUMPLE $\eta = 4.7$
N17/N16	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.176 m $\eta = 3.4$	x: 1.68 m $\eta = 1.4$	x: 0.176 m $\eta = 10.7$	x: 0.928 m $\eta = 0.4$	x: 0.176 m $\eta = 0.2$	x: 0.176 m $\eta = 12.3$	CUMPLE $\eta = 12.3$
N17/N18	x: 1.43 m $\eta = 1.0$	N.P. ⁽²⁾	N.P. ⁽²⁾	x: 0.064 m $\eta = 0.8$	x: 0.064 m $\eta = 1.3$	$\eta = 0.2$	$\eta = 0.1$	x: 0.064 m $\eta = 2.2$	CUMPLE $\eta = 2.2$
N12/N18	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.126 m $\eta = 5.3$	x: 2.621 m $\eta = 1.3$	x: 0.126 m $\eta = 21.6$	x: 3.035 m $\eta = 0.9$	x: 0.126 m $\eta = 0.3$	x: 0.126 m $\eta = 24.1$	CUMPLE $\eta = 24.1$
N19/N20	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0 m $\eta = 2.5$	x: 0 m $\eta = 20.5$	x: 0 m $\eta = 7.0$	$\eta = 0.1$	$\eta = 3.9$	x: 0 m $\eta = 23.4$	CUMPLE $\eta = 23.4$
N21/N22	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0 m $\eta = 2.5$	x: 0 m $\eta = 20.4$	x: 0 m $\eta = 7.0$	$\eta = 0.1$	$\eta = 3.9$	x: 0 m $\eta = 23.3$	CUMPLE $\eta = 23.3$
N20/N25	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.336 m $\eta = 31.5$	x: 0.336 m $\eta = 72.4$	x: 2.624 m $\eta = 10.4$	$\eta = 1.2$	x: 0.336 m $\eta = 12.5$	x: 0.336 m $\eta = 90.9$	CUMPLE $\eta = 90.9$
N25/N27	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.171 m $\eta = 40.5$	x: 1.215 m $\eta = 10.6$	x: 2.676 m $\eta = 12.5$	$\eta = 0.7$	x: 2.676 m $\eta = 5.3$	x: 1.215 m $\eta = 49.8$	CUMPLE $\eta = 49.8$
N27/N29	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.119 m $\eta = 34.5$	x: 2.699 m $\eta = 9.9$	x: 2.699 m $\eta = 21.1$	$\eta = 1.1$	x: 2.699 m $\eta = 4.8$	x: 2.699 m $\eta = 52.1$	CUMPLE $\eta = 52.1$
N29/N23	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.096 m $\eta = 28.0$	x: 2.734 m $\eta = 10.6$	x: 2.734 m $\eta = 16.9$	$\eta = 0.3$	x: 2.734 m $\eta = 4.9$	x: 2.734 m $\eta = 44.9$	CUMPLE $\eta = 44.9$
N22/N32	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.336 m $\eta = 31.0$	x: 0.336 m $\eta = 71.8$	x: 2.624 m $\eta = 10.4$	$\eta = 1.1$	x: 0.336 m $\eta = 12.5$	x: 0.336 m $\eta = 89.9$	CUMPLE $\eta = 89.9$
N32/N34	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.171 m $\eta = 40.4$	x: 1.215 m $\eta = 10.6$	x: 2.676 m $\eta = 12.6$	$\eta = 0.7$	x: 2.676 m $\eta = 5.3$	x: 1.215 m $\eta = 49.7$	CUMPLE $\eta = 49.7$
N34/N36	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.119 m $\eta = 34.5$	x: 2.699 m $\eta = 9.9$	x: 2.699 m $\eta = 21.0$	$\eta = 1.1$	x: 2.699 m $\eta = 4.8$	x: 2.699 m $\eta = 52.1$	CUMPLE $\eta = 52.1$
N36/N23	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.096 m $\eta = 28.0$	x: 2.734 m $\eta = 10.7$	x: 2.734 m $\eta = 16.9$	$\eta = 0.3$	x: 2.734 m $\eta = 4.9$	x: 2.734 m $\eta = 44.9$	CUMPLE $\eta = 44.9$
N20/N24	$\eta = 21.4$	N.P. ⁽²⁾	N.P. ⁽²⁾	x: 0.336 m $\eta = 61.7$	x: 2.69 m $\eta = 7.7$	$\eta = 0.6$	x: 0.336 m $\eta = 7.9$	x: 0.336 m $\eta = 69.2$	CUMPLE $\eta = 69.2$
N24/N26	$\eta = 26.1$	N.P. ⁽²⁾	N.P. ⁽²⁾	x: 0.06 m $\eta = 14.0$	x: 2.414 m $\eta = 9.6$	x: 2.022 m $\eta = 0.3$	x: 2.414 m $\eta = 1.3$	x: 0.06 m $\eta = 38.6$	CUMPLE $\eta = 38.6$
N26/N28	$\eta = 27.9$	N.P. ⁽²⁾	N.P. ⁽²⁾	x: 0.336 m $\eta = 3.5$	x: 0.336 m $\eta = 17.2$	$\eta = 0.6$	x: 2.574 m $\eta = 0.4$	x: 0.336 m $\eta = 39.7$	CUMPLE $\eta = 39.7$
N28/N30	$\eta = 23.5$	N.P. ⁽²⁾	N.P. ⁽²⁾	x: 0.176 m $\eta = 2.9$	x: 1.4 m $\eta = 20.3$	$\eta = 0.3$	x: 2.624 m $\eta = 0.5$	x: 0.176 m $\eta = 31.9$	CUMPLE $\eta = 31.9$
N30/N35	$\eta = 23.5$	N.P. ⁽²⁾	N.P. ⁽²⁾	x: 2.574 m $\eta = 2.8$	x: 2.574 m $\eta = 20.3$	$\eta = 0.3$	x: 0.126 m $\eta = 0.5$	x: 2.574 m $\eta = 31.9$	CUMPLE $\eta = 31.9$
N35/N33	$\eta = 27.8$	N.P. ⁽²⁾	N.P. ⁽²⁾	x: 2.414 m $\eta = 4.0$	x: 2.414 m $\eta = 17.2$	$\eta = 0.6$	x: 0.176 m $\eta = 0.5$	x: 2.414 m $\eta = 40.0$	CUMPLE $\eta = 40.0$
N33/N31	$\eta = 26.3$	N.P. ⁽²⁾	N.P. ⁽²⁾	x: 2.69 m $\eta = 10.3$	x: 0.336 m $\eta = 9.6$	$\eta = 0.3$	x: 0.336 m $\eta = 0.9$	x: 2.69 m $\eta = 35.5$	CUMPLE $\eta = 35.5$
N31/N22	$\eta = 21.0$	N.P. ⁽²⁾	N.P. ⁽²⁾	x: 2.414 m $\eta = 63.3$	x: 0.06 m $\eta = 7.6$	$\eta = 0.6$	x: 2.414 m $\eta = 8.3$	x: 2.414 m $\eta = 70.2$	CUMPLE $\eta = 70.2$



Anexo 2. Análisis de Cargas

Cubierta a dos aguas

Fecha: 28/06/21

Barras	COMPROBACIONES (ANSI/AISC 360-10 (LRFD))								Estado
	P_t	λ_c	P_c	M_x	M_y	V_x	V_y	$PM_xM_yV_xV_yT$	
N24/N25	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.06 m $\eta = 1.8$	x: 0.439 m $\eta = 31.1$	x: 0.06 m $\eta = 1.2$	$\eta = 0.4$	$\eta = 24.4$	x: 0.439 m $\eta = 32.1$	CUMPLE $\eta = 32.1$
N26/N25	x: 2.623 m $\eta = 4.4$	N.P. ⁽²⁾	N.P. ⁽²⁾	x: 2.624 m $\eta = 8.9$	x: 0.336 m $\eta = 9.4$	$\eta = 0.3$	x: 0.336 m $\eta = 0.7$	x: 2.624 m $\eta = 15.1$	CUMPLE $\eta = 15.1$
N26/N27	x: 0.935 m $\eta = 0.3$	$\lambda \leq 200.0$ Cumple	x: 0.061 m $\eta = 0.4$	x: 0.061 m $\eta = 5.3$	x: 0.061 m $\eta = 3.8$	$\eta = 0.9$	$\eta = 2.2$	x: 0.061 m $\eta = 7.5$	CUMPLE $\eta = 7.5$
N28/N27	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.176 m $\eta = 6.3$	x: 2.243 m $\eta = 2.4$	x: 0.176 m $\eta = 12.0$	x: 0.74 m $\eta = 0.4$	x: 0.176 m $\eta = 0.3$	x: 0.74 m $\eta = 14.8$	CUMPLE $\eta = 14.8$
N28/N29	x: 1.43 m $\eta = 1.8$	N.P. ⁽²⁾	N.P. ⁽²⁾	x: 1.431 m $\eta = 2.5$	x: 0.064 m $\eta = 2.7$	x: 1.203 m $\eta = 0.4$	$\eta = 0.6$	x: 0.064 m $\eta = 4.7$	CUMPLE $\eta = 4.7$
N30/N29	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.126 m $\eta = 9.0$	x: 2.413 m $\eta = 1.4$	x: 0.126 m $\eta = 14.6$	x: 0.958 m $\eta = 0.5$	x: 0.126 m $\eta = 0.3$	x: 0.126 m $\eta = 17.7$	CUMPLE $\eta = 17.7$
N30/N23	x: 1.938 m $\eta = 5.4$	N.P. ⁽²⁾	N.P. ⁽²⁾	x: 1.939 m $\eta = 2.2$	x: 0.069 m $\eta = 3.1$	x: 0.443 m $\eta = 0.5$	$\eta = 0.3$	x: 0.069 m $\eta = 5.3$	CUMPLE $\eta = 5.4$
N31/N32	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.06 m $\eta = 1.8$	x: 0.439 m $\eta = 29.2$	x: 0.06 m $\eta = 1.5$	$\eta = 0.5$	$\eta = 27.0$	x: 0.439 m $\eta = 30.3$	CUMPLE $\eta = 30.3$
N33/N32	x: 2.623 m $\eta = 4.1$	N.P. ⁽²⁾	N.P. ⁽²⁾	x: 2.624 m $\eta = 9.3$	x: 0.336 m $\eta = 9.4$	$\eta = 0.3$	x: 0.336 m $\eta = 0.8$	x: 2.624 m $\eta = 15.3$	CUMPLE $\eta = 15.3$
N33/N34	x: 0.935 m $\eta = 0.3$	$\lambda \leq 200.0$ Cumple	x: 0.061 m $\eta = 0.5$	x: 0.936 m $\eta = 4.8$	x: 0.061 m $\eta = 3.7$	$\eta = 0.9$	$\eta = 2.0$	x: 0.061 m $\eta = 6.7$	CUMPLE $\eta = 6.7$
N35/N34	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.176 m $\eta = 6.3$	x: 2.243 m $\eta = 2.3$	x: 0.176 m $\eta = 12.0$	x: 0.928 m $\eta = 0.3$	x: 0.176 m $\eta = 0.3$	x: 0.176 m $\eta = 14.8$	CUMPLE $\eta = 14.8$
N35/N36	x: 1.43 m $\eta = 1.8$	N.P. ⁽²⁾	N.P. ⁽²⁾	x: 1.431 m $\eta = 2.4$	x: 0.064 m $\eta = 2.7$	x: 1.203 m $\eta = 0.4$	$\eta = 0.6$	x: 0.064 m $\eta = 4.8$	CUMPLE $\eta = 4.8$
N30/N36	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.126 m $\eta = 9.0$	x: 2.413 m $\eta = 1.5$	x: 0.334 m $\eta = 15.4$	x: 0.958 m $\eta = 0.5$	x: 0.126 m $\eta = 0.3$	x: 0.334 m $\eta = 18.6$	CUMPLE $\eta = 18.6$
N37/N38	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0 m $\eta = 2.5$	x: 0 m $\eta = 24.7$	x: 0 m $\eta = 7.0$	$\eta = 0.1$	$\eta = 4.5$	x: 0 m $\eta = 27.6$	CUMPLE $\eta = 27.6$
N39/N40	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0 m $\eta = 2.5$	x: 0 m $\eta = 24.6$	x: 0 m $\eta = 7.0$	$\eta = 0.1$	$\eta = 4.5$	x: 0 m $\eta = 27.5$	CUMPLE $\eta = 27.5$
N38/N43	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.336 m $\eta = 31.6$	x: 0.336 m $\eta = 77.5$	x: 2.624 m $\eta = 10.4$	$\eta = 1.2$	x: 0.336 m $\eta = 12.6$	x: 0.336 m $\eta = 91.2$	CUMPLE $\eta = 91.2$
N43/N45	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.171 m $\eta = 40.6$	x: 1.215 m $\eta = 10.6$	x: 2.676 m $\eta = 12.5$	$\eta = 0.7$	x: 2.676 m $\eta = 5.3$	x: 1.215 m $\eta = 49.9$	CUMPLE $\eta = 49.9$
N45/N47	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.119 m $\eta = 34.5$	x: 2.699 m $\eta = 9.9$	x: 2.699 m $\eta = 21.0$	$\eta = 1.1$	x: 2.699 m $\eta = 4.9$	x: 2.699 m $\eta = 52.1$	CUMPLE $\eta = 52.1$
N47/N41	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.096 m $\eta = 28.0$	x: 2.734 m $\eta = 10.6$	x: 2.734 m $\eta = 16.9$	$\eta = 0.3$	x: 2.734 m $\eta = 4.9$	x: 2.734 m $\eta = 44.9$	CUMPLE $\eta = 44.9$
N40/N50	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.336 m $\eta = 31.0$	x: 0.336 m $\eta = 76.5$	x: 2.624 m $\eta = 10.4$	$\eta = 1.1$	x: 0.336 m $\eta = 12.5$	x: 0.336 m $\eta = 89.9$	CUMPLE $\eta = 89.9$
N50/N52	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.171 m $\eta = 40.4$	x: 1.215 m $\eta = 10.6$	x: 2.676 m $\eta = 12.6$	$\eta = 0.7$	x: 2.676 m $\eta = 5.3$	x: 1.215 m $\eta = 49.7$	CUMPLE $\eta = 49.7$
N52/N54	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.119 m $\eta = 34.5$	x: 2.699 m $\eta = 9.9$	x: 2.699 m $\eta = 21.1$	$\eta = 1.1$	x: 2.699 m $\eta = 4.8$	x: 2.699 m $\eta = 52.1$	CUMPLE $\eta = 52.1$
N54/N41	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.096 m $\eta = 28.0$	x: 2.734 m $\eta = 10.7$	x: 2.734 m $\eta = 16.9$	$\eta = 0.3$	x: 2.734 m $\eta = 4.9$	x: 2.734 m $\eta = 44.9$	CUMPLE $\eta = 44.9$
N38/N42	x: 2.102 m $\eta = 21.9$	N.P. ⁽²⁾	N.P. ⁽²⁾	x: 0.336 m $\eta = 65.9$	x: 2.69 m $\eta = 7.6$	$\eta = 0.6$	x: 0.336 m $\eta = 8.2$	x: 0.336 m $\eta = 70.8$	CUMPLE $\eta = 70.8$
N42/N44	$\eta = 26.1$	N.P. ⁽²⁾	N.P. ⁽²⁾	x: 0.06 m $\eta = 15.1$	x: 2.414 m $\eta = 9.6$	$\eta = 0.3$	x: 2.414 m $\eta = 1.4$	x: 0.06 m $\eta = 39.5$	CUMPLE $\eta = 39.5$



Anexo 2. Análisis de Cargas

Cubierta a dos aguas

Fecha: 28/06/21

Barras	COMPROBACIONES (ANSI/AISC 360-10 (LRFD))								Estado
	P_t	λ_c	P_c	M_x	M_y	V_x	V_y	$P M_x M_y V_x V_y T$	
N44/N46	$\eta = 27.9$	N.P. ⁽²⁾	N.P. ⁽²⁾	x: 0.336 m $\eta = 3.4$	x: 0.336 m $\eta = 17.2$	$\eta = 0.6$	x: 2.574 m $\eta = 0.4$	x: 0.336 m $\eta = 39.6$	CUMPLE $\eta = 39.6$
N46/N48	$\eta = 23.5$	N.P. ⁽²⁾	N.P. ⁽²⁾	x: 0.176 m $\eta = 2.9$	x: 0.176 m $\eta = 20.3$	$\eta = 0.3$	x: 2.624 m $\eta = 0.5$	x: 0.176 m $\eta = 31.9$	CUMPLE $\eta = 31.9$
N48/N53	$\eta = 23.5$	N.P. ⁽²⁾	N.P. ⁽²⁾	x: 2.574 m $\eta = 2.8$	x: 2.574 m $\eta = 20.3$	$\eta = 0.3$	x: 0.126 m $\eta = 0.5$	x: 2.574 m $\eta = 31.9$	CUMPLE $\eta = 31.9$
N53/N51	$\eta = 27.8$	N.P. ⁽²⁾	N.P. ⁽²⁾	x: 2.414 m $\eta = 4.0$	x: 2.414 m $\eta = 17.2$	$\eta = 0.6$	x: 0.176 m $\eta = 0.5$	x: 2.414 m $\eta = 40.0$	CUMPLE $\eta = 40.0$
N51/N49	$\eta = 26.3$	N.P. ⁽²⁾	N.P. ⁽²⁾	x: 2.69 m $\eta = 10.3$	x: 0.336 m $\eta = 9.6$	$\eta = 0.3$	x: 0.336 m $\eta = 0.9$	x: 2.69 m $\eta = 35.5$	CUMPLE $\eta = 35.5$
N49/N40	$\eta = 21.9$	N.P. ⁽²⁾	N.P. ⁽²⁾	x: 2.414 m $\eta = 67.9$	x: 0.06 m $\eta = 7.6$	$\eta = 0.6$	x: 2.414 m $\eta = 8.8$	x: 2.414 m $\eta = 72.5$	CUMPLE $\eta = 72.5$
N42/N43	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.06 m $\eta = 2.0$	x: 0.439 m $\eta = 34.0$	x: 0.06 m $\eta = 1.2$	$\eta = 0.4$	$\eta = 25.2$	x: 0.439 m $\eta = 35.1$	CUMPLE $\eta = 35.1$
N44/N43	x: 2.623 m $\eta = 5.1$	$\lambda \leq 200.0$ Cumple	x: 0.336 m $\eta = 0.5$	x: 2.624 m $\eta = 8.8$	x: 0.336 m $\eta = 9.4$	$\eta = 0.3$	x: 0.336 m $\eta = 0.7$	x: 2.624 m $\eta = 15.0$	CUMPLE $\eta = 15.0$
N44/N45	x: 0.935 m $\eta = 0.4$	$\lambda \leq 200.0$ Cumple	x: 0.061 m $\eta = 0.5$	x: 0.061 m $\eta = 5.6$	x: 0.061 m $\eta = 3.8$	$\eta = 0.9$	$\eta = 2.3$	x: 0.061 m $\eta = 7.7$	CUMPLE $\eta = 7.7$
N46/N45	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.176 m $\eta = 6.3$	x: 2.431 m $\eta = 2.4$	x: 0.176 m $\eta = 12.0$	$\eta = 0.3$	x: 0.176 m $\eta = 0.3$	x: 0.176 m $\eta = 14.7$	CUMPLE $\eta = 14.7$
N46/N47	x: 1.43 m $\eta = 1.8$	N.P. ⁽²⁾	N.P. ⁽²⁾	x: 1.431 m $\eta = 2.5$	x: 0.064 m $\eta = 2.7$	x: 1.203 m $\eta = 0.4$	$\eta = 0.6$	x: 0.064 m $\eta = 4.7$	CUMPLE $\eta = 4.7$
N48/N47	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.126 m $\eta = 9.0$	x: 2.413 m $\eta = 1.4$	x: 0.126 m $\eta = 14.6$	x: 1.165 m $\eta = 0.5$	x: 0.126 m $\eta = 0.3$	x: 0.75 m $\eta = 18.0$	CUMPLE $\eta = 18.0$
N48/N41	x: 1.938 m $\eta = 5.4$	N.P. ⁽²⁾	N.P. ⁽²⁾	x: 1.939 m $\eta = 2.2$	x: 0.069 m $\eta = 3.1$	x: 0.443 m $\eta = 0.5$	$\eta = 0.3$	x: 0.069 m $\eta = 5.3$	CUMPLE $\eta = 5.4$
N49/N50	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.06 m $\eta = 1.9$	x: 0.439 m $\eta = 31.4$	x: 0.06 m $\eta = 1.5$	$\eta = 0.5$	$\eta = 28.9$	x: 0.439 m $\eta = 32.5$	CUMPLE $\eta = 32.5$
N51/N50	x: 2.623 m $\eta = 4.7$	$\lambda \leq 200.0$ Cumple	x: 0.336 m $\eta = 0.7$	x: 2.624 m $\eta = 9.3$	x: 0.336 m $\eta = 9.4$	$\eta = 0.3$	x: 0.336 m $\eta = 0.8$	x: 2.624 m $\eta = 15.3$	CUMPLE $\eta = 15.3$
N51/N52	x: 0.935 m $\eta = 0.4$	$\lambda \leq 200.0$ Cumple	x: 0.061 m $\eta = 0.6$	x: 0.936 m $\eta = 4.8$	x: 0.061 m $\eta = 3.7$	$\eta = 0.9$	$\eta = 2.0$	x: 0.061 m $\eta = 6.7$	CUMPLE $\eta = 6.7$
N53/N52	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.176 m $\eta = 6.3$	x: 2.243 m $\eta = 2.3$	x: 0.176 m $\eta = 12.0$	x: 0.928 m $\eta = 0.3$	x: 0.176 m $\eta = 0.3$	x: 0.176 m $\eta = 14.8$	CUMPLE $\eta = 14.8$
N53/N54	x: 1.43 m $\eta = 1.8$	N.P. ⁽²⁾	N.P. ⁽²⁾	x: 1.431 m $\eta = 2.5$	x: 0.064 m $\eta = 2.7$	x: 1.203 m $\eta = 0.4$	$\eta = 0.6$	x: 0.064 m $\eta = 4.7$	CUMPLE $\eta = 4.7$
N48/N54	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.126 m $\eta = 9.0$	x: 2.413 m $\eta = 1.5$	x: 0.126 m $\eta = 14.6$	x: 0.958 m $\eta = 0.5$	x: 0.126 m $\eta = 0.3$	x: 0.126 m $\eta = 17.8$	CUMPLE $\eta = 17.8$
N55/N56	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0 m $\eta = 1.5$	x: 0 m $\eta = 12.2$	x: 0 m $\eta = 7.0$	$\eta = 0.1$	$\eta = 2.3$	x: 0 m $\eta = 15.1$	CUMPLE $\eta = 15.1$
N57/N58	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0 m $\eta = 1.5$	x: 0 m $\eta = 12.2$	x: 0 m $\eta = 7.0$	$\eta = 0.2$	$\eta = 2.3$	x: 0 m $\eta = 15.1$	CUMPLE $\eta = 15.1$
N56/N61	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.336 m $\eta = 17.6$	x: 0.336 m $\eta = 42.2$	x: 2.624 m $\eta = 6.9$	x: 2.243 m $\eta = 0.9$	x: 0.336 m $\eta = 7.1$	x: 0.336 m $\eta = 48.9$	CUMPLE $\eta = 48.9$
N61/N63	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.171 m $\eta = 23.4$	x: 1.215 m $\eta = 5.7$	x: 2.676 m $\eta = 9.3$	$\eta = 0.6$	x: 2.676 m $\eta = 2.8$	x: 1.215 m $\eta = 28.3$	CUMPLE $\eta = 28.3$
N63/N65	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.119 m $\eta = 20.4$	x: 2.699 m $\eta = 5.9$	x: 2.699 m $\eta = 14.1$	$\eta = 0.7$	x: 2.699 m $\eta = 2.6$	x: 2.699 m $\eta = 26.1$	CUMPLE $\eta = 26.1$
N65/N59	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.096 m $\eta = 16.5$	x: 0.096 m $\eta = 6.9$	x: 0.096 m $\eta = 8.0$	$\eta = 0.6$	x: 0.096 m $\eta = 3.0$	x: 0.096 m $\eta = 19.1$	CUMPLE $\eta = 19.1$



Anexo 2. Análisis de Cargas

Cubierta a dos aguas

Fecha: 28/06/21

Barras	COMPROBACIONES (ANSI/AISC 360-10 (LRFD))								Estado
	P_t	λ_c	P_c	M_x	M_y	V_x	V_y	$PM_xM_yV_xV_yT$	
N58/N68	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.336 m $\eta = 17.3$	x: 0.336 m $\eta = 41.8$	x: 2.624 m $\eta = 5.7$	x: 1.861 m $\eta = 0.8$	x: 0.336 m $\eta = 7.0$	x: 0.336 m $\eta = 48.2$	CUMPLE $\eta = 48.2$
N68/N70	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.171 m $\eta = 23.3$	x: 1.215 m $\eta = 5.7$	x: 2.676 m $\eta = 10.0$	x: 0.589 m $\eta = 0.6$	x: 2.676 m $\eta = 2.8$	x: 1.215 m $\eta = 28.2$	CUMPLE $\eta = 28.2$
N70/N72	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.119 m $\eta = 20.4$	x: 2.699 m $\eta = 5.9$	x: 2.699 m $\eta = 14.1$	$\eta = 0.7$	x: 2.699 m $\eta = 2.6$	x: 2.699 m $\eta = 26.0$	CUMPLE $\eta = 26.0$
N72/N59	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.096 m $\eta = 16.5$	x: 0.096 m $\eta = 6.9$	x: 0.096 m $\eta = 7.9$	$\eta = 0.6$	x: 0.096 m $\eta = 3.0$	x: 0.096 m $\eta = 19.0$	CUMPLE $\eta = 19.0$
N56/N60	$\eta = 11.9$	N.P. ⁽²⁾	N.P. ⁽²⁾	x: 0.336 m $\eta = 36.0$	x: 2.69 m $\eta = 4.9$	x: 1.121 m $\eta = 0.4$	x: 0.336 m $\eta = 4.6$	x: 0.336 m $\eta = 39.2$	CUMPLE $\eta = 39.2$
N60/N62	$\eta = 14.6$	N.P. ⁽²⁾	N.P. ⁽²⁾	x: 0.06 m $\eta = 8.4$	x: 2.414 m $\eta = 7.0$	x: 0.06 m $\eta = 0.2$	x: 2.414 m $\eta = 0.9$	x: 0.06 m $\eta = 17.2$	CUMPLE $\eta = 17.2$
N62/N64	$\eta = 15.9$	N.P. ⁽²⁾	N.P. ⁽²⁾	x: 0.709 m $\eta = 1.7$	x: 0.336 m $\eta = 13.3$	$\eta = 0.4$	x: 2.574 m $\eta = 0.3$	x: 0.336 m $\eta = 20.8$	CUMPLE $\eta = 20.8$
N64/N66	$\eta = 13.9$	N.P. ⁽²⁾	N.P. ⁽²⁾	x: 0.38 m $\eta = 1.3$	x: 2.624 m $\eta = 19.9$	$\eta = 0.1$	x: 2.624 m $\eta = 0.3$	x: 0.992 m $\eta = 26.0$	CUMPLE $\eta = 26.0$
N66/N71	$\eta = 13.9$	N.P. ⁽²⁾	N.P. ⁽²⁾	x: 2.37 m $\eta = 1.3$	x: 0.126 m $\eta = 19.9$	$\eta = 0.1$	x: 0.126 m $\eta = 0.3$	x: 1.758 m $\eta = 25.9$	CUMPLE $\eta = 25.9$
N71/N69	$\eta = 15.9$	N.P. ⁽²⁾	N.P. ⁽²⁾	x: 2.413 m $\eta = 2.0$	x: 2.414 m $\eta = 13.4$	$\eta = 0.5$	x: 0.176 m $\eta = 0.3$	x: 2.414 m $\eta = 21.2$	CUMPLE $\eta = 21.2$
N69/N67	$\eta = 14.7$	N.P. ⁽²⁾	N.P. ⁽²⁾	x: 2.69 m $\eta = 5.6$	x: 0.336 m $\eta = 7.7$	$\eta = 0.2$	x: 0.336 m $\eta = 0.6$	x: 2.102 m $\eta = 14.9$	CUMPLE $\eta = 14.9$
N67/N58	$\eta = 12.0$	N.P. ⁽²⁾	N.P. ⁽²⁾	x: 2.414 m $\eta = 37.3$	x: 0.06 m $\eta = 4.1$	$\eta = 0.3$	x: 2.414 m $\eta = 4.9$	x: 2.414 m $\eta = 40.2$	CUMPLE $\eta = 40.2$
N60/N61	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.06 m $\eta = 1.0$	x: 0.439 m $\eta = 18.6$	x: 0.06 m $\eta = 1.1$	$\eta = 0.3$	$\eta = 13.8$	x: 0.439 m $\eta = 19.1$	CUMPLE $\eta = 19.1$
N62/N61	x: 2.623 m $\eta = 2.7$	N.P. ⁽²⁾	N.P. ⁽²⁾	x: 2.624 m $\eta = 4.8$	x: 0.336 m $\eta = 7.3$	$\eta = 0.2$	x: 0.336 m $\eta = 0.5$	x: 1.861 m $\eta = 9.8$	CUMPLE $\eta = 9.8$
N62/N63	x: 0.935 m $\eta = 0.2$	$\lambda \leq 200.0$ Cumple	x: 0.061 m $\eta = 0.2$	x: 0.061 m $\eta = 3.2$	x: 0.061 m $\eta = 3.1$	$\eta = 0.6$	$\eta = 1.3$	x: 0.061 m $\eta = 5.4$	CUMPLE $\eta = 5.4$
N64/N63	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.176 m $\eta = 3.5$	x: 1.68 m $\eta = 1.4$	x: 0.176 m $\eta = 10.7$	x: 0.74 m $\eta = 0.4$	x: 0.176 m $\eta = 0.2$	x: 0.176 m $\eta = 12.3$	CUMPLE $\eta = 12.3$
N64/N65	x: 1.43 m $\eta = 1.0$	N.P. ⁽²⁾	N.P. ⁽²⁾	x: 0.064 m $\eta = 0.7$	x: 0.064 m $\eta = 1.3$	$\eta = 0.2$	$\eta = 0.1$	x: 0.064 m $\eta = 2.2$	CUMPLE $\eta = 2.2$
N66/N65	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.126 m $\eta = 5.3$	x: 2.621 m $\eta = 1.3$	x: 0.126 m $\eta = 21.6$	x: 3.035 m $\eta = 0.9$	x: 0.126 m $\eta = 0.3$	x: 0.126 m $\eta = 24.1$	CUMPLE $\eta = 24.1$
N66/N59	x: 2 m $\eta = 3.6$	N.P. ⁽²⁾	N.P. ⁽²⁾	x: 0.069 m $\eta = 0.1$	x: 0.069 m $\eta = 19.3$	$\eta = 1.9$	$\eta < 0.1$	x: 0.069 m $\eta = 20.7$	CUMPLE $\eta = 20.7$
N67/N68	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.06 m $\eta = 1.0$	x: 0.439 m $\eta = 17.0$	x: 0.06 m $\eta = 1.4$	$\eta = 0.1$	$\eta = 15.7$	x: 0.439 m $\eta = 17.5$	CUMPLE $\eta = 17.5$
N69/N68	x: 2.623 m $\eta = 2.3$	N.P. ⁽²⁾	N.P. ⁽²⁾	x: 2.624 m $\eta = 5.0$	x: 0.336 m $\eta = 7.7$	$\eta = 0.2$	x: 0.336 m $\eta = 0.5$	x: 1.861 m $\eta = 9.7$	CUMPLE $\eta = 9.7$
N69/N70	x: 0.935 m $\eta = 0.2$	$\lambda \leq 200.0$ Cumple	x: 0.061 m $\eta = 0.2$	x: 0.936 m $\eta = 2.7$	x: 0.061 m $\eta = 3.0$	$\eta = 0.7$	$\eta = 1.1$	x: 0.061 m $\eta = 4.7$	CUMPLE $\eta = 4.7$
N71/N70	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.176 m $\eta = 3.4$	x: 1.68 m $\eta = 1.4$	x: 0.176 m $\eta = 10.7$	$\eta = 0.4$	x: 0.176 m $\eta = 0.2$	x: 0.176 m $\eta = 12.4$	CUMPLE $\eta = 12.4$
N71/N72	x: 1.43 m $\eta = 1.0$	N.P. ⁽²⁾	N.P. ⁽²⁾	x: 0.064 m $\eta = 0.8$	x: 0.064 m $\eta = 1.3$	$\eta = 0.2$	$\eta = 0.1$	x: 0.064 m $\eta = 2.3$	CUMPLE $\eta = 2.3$
N66/N72	N.P. ⁽¹⁾	$\lambda \leq 200.0$ Cumple	x: 0.126 m $\eta = 5.3$	x: 2.621 m $\eta = 1.3$	x: 0.126 m $\eta = 21.6$	x: 3.035 m $\eta = 0.9$	x: 0.126 m $\eta = 0.3$	x: 0.126 m $\eta = 24.1$	CUMPLE $\eta = 24.1$



Anexo 2. Análisis de Cargas

Cubierta a dos aguas

Fecha: 28/06/21

Barras	COMPROBACIONES (ANSI/AISC 360-10 (LRFD))								Estado
	P _t	λ _c	P _c	M _x	M _y	V _x	V _y	PM _x M _y V _x V _y T	
Notación:									
P _t : Resistencia a tracción									
λ _c : Limitación de esbeltez para compresión									
P _c : Resistencia a compresión									
M _x : Resistencia a flexión eje X									
M _y : Resistencia a flexión eje Y									
V _x : Resistencia a corte X									
V _y : Resistencia a corte Y									
PM _x M _y V _x V _y T: Esfuerzos combinados y torsión									
x: Distancia al origen de la barra									
η: Coeficiente de aprovechamiento (%)									
N.P.: No procede									
Comprobaciones que no proceden (N.P.):									
(1) La comprobación no procede, ya que no hay axil de tracción.									
(2) La comprobación no procede, va que no hav axil de compresión.									

Barras	COMPROBACIONES (AISI S100-07 (2007))															Estado
	w / t	T	P	Tr	M_x	M_y	V_x	V_y	M_xTr	M_yTr	M_xV_x	M_yV_y	MT	MP	TPTrMV	
N2/N20	$w / t \leq (w / t)_{Máx.}$ Cumple	$\eta = 0.2$	$\eta = 26.2$	$\eta < 0.1$	$x: 10.94 \text{ m}$ $\eta = 14.7$	$x: 10.94 \text{ m}$ $\eta = 33.9$	$\eta = 0.3$	$x: 10.94 \text{ m}$ $\eta = 0.7$	$x: 10.94 \text{ m}$ $\eta = 14.7$	$x: 10.94 \text{ m}$ $\eta = 33.9$	$x: 10.94 \text{ m}$ $\eta = 2.2$	$x: 10.94 \text{ m}$ $\eta = 11.5$	$x: 10.94 \text{ m}$ $\eta = 48.5$	$x: 0.06 \text{ m}$ $\eta = 75.9$	$x: 0.06 \text{ m}$ $\eta = 68.7$	CUMPLE $\eta = 75.9$
N20/N38	$w / t \leq (w / t)_{Máx.}$ Cumple	N.P. ⁽¹⁾	$\eta = 6.0$	$\eta < 0.1$	$x: 0.06 \text{ m}$ $\eta = 14.6$	$x: 0.06 \text{ m}$ $\eta = 35.3$	$x: 4.82 \text{ m}$ $\eta = 0.4$	$x: 0.06 \text{ m}$ $\eta = 0.7$	$x: 0.06 \text{ m}$ $\eta = 14.6$	$x: 0.06 \text{ m}$ $\eta = 35.3$	$x: 0.06 \text{ m}$ $\eta = 2.1$	$x: 0.06 \text{ m}$ $\eta = 12.5$	N.P. ⁽²⁾	$x: 10.94 \text{ m}$ $\eta = 54.9$	$x: 10.94 \text{ m}$ $\eta = 54.3$	CUMPLE $\eta = 54.9$
N38/N56	$w / t \leq (w / t)_{Máx.}$ Cumple	$\eta = 0.2$	$\eta = 26.8$	$\eta = 0.1$	$x: 0.06 \text{ m}$ $\eta = 14.7$	$x: 0.06 \text{ m}$ $\eta = 34.2$	$x: 4.82 \text{ m}$ $\eta = 0.3$	$x: 0.06 \text{ m}$ $\eta = 0.7$	$x: 0.06 \text{ m}$ $\eta = 14.7$	$x: 0.06 \text{ m}$ $\eta = 34.2$	$x: 0.06 \text{ m}$ $\eta = 2.2$	$x: 0.06 \text{ m}$ $\eta = 11.7$	$x: 0.06 \text{ m}$ $\eta = 48.7$	$x: 10.94 \text{ m}$ $\eta = 76.4$	$x: 10.94 \text{ m}$ $\eta = 69.1$	CUMPLE $\eta = 76.4$
N4/N22	$w / t \leq (w / t)_{Máx.}$ Cumple	$\eta = 0.2$	$\eta = 26.4$	$\eta < 0.1$	$x: 10.94 \text{ m}$ $\eta = 14.7$	$x: 10.94 \text{ m}$ $\eta = 34.2$	$\eta = 0.3$	$x: 10.94 \text{ m}$ $\eta = 0.7$	$x: 10.94 \text{ m}$ $\eta = 14.7$	$x: 10.94 \text{ m}$ $\eta = 34.2$	$x: 10.94 \text{ m}$ $\eta = 2.2$	$x: 10.94 \text{ m}$ $\eta = 11.7$	$x: 10.94 \text{ m}$ $\eta = 48.3$	$x: 0.06 \text{ m}$ $\eta = 75.7$	$x: 10.94 \text{ m}$ $\eta = 57.7$	CUMPLE $\eta = 75.7$
N22/N40	$w / t \leq (w / t)_{Máx.}$ Cumple	N.P. ⁽¹⁾	$\eta = 6.0$	$\eta < 0.1$	$x: 10.94 \text{ m}$ $\eta = 14.6$	$x: 0.06 \text{ m}$ $\eta = 35.4$	$x: 3.46 \text{ m}$ $\eta = 0.4$	$x: 0.06 \text{ m}$ $\eta = 0.7$	$x: 10.94 \text{ m}$ $\eta = 14.6$	$x: 0.06 \text{ m}$ $\eta = 35.4$	$x: 0.06 \text{ m}$ $\eta = 2.2$	$x: 0.06 \text{ m}$ $\eta = 12.5$	N.P. ⁽²⁾	$x: 10.94 \text{ m}$ $\eta = 54.6$	$x: 0.06 \text{ m}$ $\eta = 43.4$	CUMPLE $\eta = 54.6$
N40/N58	$w / t \leq (w / t)_{Máx.}$ Cumple	$\eta = 0.2$	$\eta = 26.6$	$\eta = 0.1$	$x: 0.06 \text{ m}$ $\eta = 14.7$	$x: 0.06 \text{ m}$ $\eta = 34.2$	$x: 4.82 \text{ m}$ $\eta = 0.3$	$x: 0.06 \text{ m}$ $\eta = 0.7$	$x: 0.06 \text{ m}$ $\eta = 14.7$	$x: 0.06 \text{ m}$ $\eta = 34.2$	$x: 0.06 \text{ m}$ $\eta = 2.2$	$x: 0.06 \text{ m}$ $\eta = 11.7$	$x: 0.06 \text{ m}$ $\eta = 48.3$	$x: 10.94 \text{ m}$ $\eta = 75.7$	$x: 0.06 \text{ m}$ $\eta = 57.7$	CUMPLE $\eta = 75.7$
N5/N23	$x: 0.684 \text{ m}$ $w / t \leq (w / t)_{Máx.}$ Cumple	$\eta = 0.3$	$\eta = 25.9$	N.P. ⁽³⁾	$x: 10.94 \text{ m}$ $\eta = 16.0$	$x: 10.939 \text{ m}$ $\eta = 1.0$	$\eta < 0.1$	$x: 10.94 \text{ m}$ $\eta = 0.8$	N.P. ⁽⁴⁾	N.P. ⁽⁵⁾	$x: 10.94 \text{ m}$ $\eta = 2.6$	$x: 10.939 \text{ m}$ $\eta < 0.1$	$x: 10.94 \text{ m}$ $\eta = 16.3$	$x: 4.786 \text{ m}$ $\eta = 36.0$	$x: 4.786 \text{ m}$ $\eta = 35.6$	CUMPLE $\eta = 36.0$
N23/N41	$w / t \leq (w / t)_{Máx.}$ Cumple	$\eta < 0.1$	$\eta = 1.3$	N.P. ⁽³⁾	$x: 0.06 \text{ m}$ $\eta = 19.5$	$x: 10.94 \text{ m}$ $\eta = 1.2$	$\eta < 0.1$	$x: 0.06 \text{ m}$ $\eta = 0.8$	N.P. ⁽⁴⁾	N.P. ⁽⁵⁾	$x: 0.06 \text{ m}$ $\eta = 3.8$	$x: 10.939 \text{ m}$ $\eta < 0.1$	$x: 0.06 \text{ m}$ $\eta = 19.6$	$x: 10.94 \text{ m}$ $\eta = 19.6$	$x: 10.94 \text{ m}$ $\eta = 19.6$	CUMPLE $\eta = 19.6$
N41/N59	$x: 0.06 \text{ m}$ $w / t \leq (w / t)_{Máx.}$ Cumple	$\eta = 0.4$	$\eta = 27.3$	N.P. ⁽³⁾	$x: 0.06 \text{ m}$ $\eta = 16.0$	$x: 0.06 \text{ m}$ $\eta = 1.3$	$\eta < 0.1$	$x: 0.06 \text{ m}$ $\eta = 0.8$	N.P. ⁽⁴⁾	N.P. ⁽⁵⁾	$x: 0.06 \text{ m}$ $\eta = 2.6$	$x: 0.06 \text{ m}$ $\eta < 0.1$	$x: 0.06 \text{ m}$ $\eta = 16.5$	$x: 6.214 \text{ m}$ $\eta = 37.5$	$x: 6.214 \text{ m}$ $\eta = 37.2$	CUMPLE $\eta = 37.5$
Notación: w / t : Limitaciones geométricas T: Resistencia a tracción P: Resistencia a compresión Tr: Resistencia a torsión M_x : Resistencia a flexión alrededor del eje X M_y : Resistencia a flexión alrededor del eje Y V_x : Resistencia a corte en la dirección del eje X V_y : Resistencia a corte en la dirección del eje Y M_xTr : Resistencia a flexión alrededor del eje X combinada con torsión M_yTr : Resistencia a flexión alrededor del eje Y combinada con torsión M_xV_x : Resistencia a flexión alrededor del eje X combinada con corte en la dirección del eje X M_yV_y : Resistencia a flexión alrededor del eje Y combinada con corte en la dirección del eje Y MT: Resistencia a flexión combinada con tracción MP: Resistencia a flexión combinada con compresión TPTTrMV: Flexión combinada con cortante, axil y torsión - Comprobación de Von Mises x : Distancia al origen de la barra η : Coeficiente de aprovechamiento (%) N.P.: No procede																
Comprobaciones que no proceden (N.P.): (1) La comprobación no procede, ya que no hay axil de tracción. (2) No hay interacción entre axil de tracción y momento flector para ninguna combinación. Por lo tanto, la comprobación no procede. (3) La comprobación no procede, ya que no hay torsión. (4) No hay interacción entre torsión y flexión alrededor del eje X para ninguna combinación. Por lo tanto, la comprobación no procede. (5) No hay interacción entre torsión y flexión alrededor del eje Y para ninguna combinación. Por lo tanto, la comprobación no procede.																