



STRUCTURAL PROFILE

(ZE-100 / 35)

High technology resistance.
A true fact.



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Our galvanized sheet serves us as raw material for the production of the Structural Profile ZE-100/35.

GENERAL CHARACTERISTICS:

- Camber is higher than the traditional (3.5 cm.), thus offering higher advantages regarding impermeability and structural resistance.
- The transversal corrugation makes the profile more structurally resistant, allowing an easy over the deck transit.
- The dual anti-siphon channel of this profile assures impermeability and eliminates the need to use sealers on overlaps.
- Is much more esthetic for uses in facades.

RAW MATERIAL: Galvanized sheet that fully complies with the ASTM-A-653 SS-37 standard (equivalent to the ASTM-A-446 standard).

FINISH: The zinc coating in both sides of the sheet is applied with the continuous hot dip process with a layer of G-90 equivalent to a minimum of 275 gr/m² in accordance with the ASTM-A-653 standard. To control coating uniformity, an X ray based computerized equipment is used.

MANUFACTURING DIMENSIONS:

MINIMUM LENGTH: 1.82 m.

MAXIMUM LENGTH: 12.19 m.

EFFECTIVE WIDTH: 100 cm.

CAMBER: 3.5 cm.

GAUGES: 26, 24 y 22



DATA SHEET

SECTION PROPERTIES

GAUGE	THICKNESS		WEIGHT	UPPER COMPRESSION (Positive moment)		LOWER COMPRESSION (Negative momentum)	
	inch	mm		kg/m ²	INERTIA MOMENT (cm ⁴ /m)	SECTION MODULE (cm ³ /m)	INERTIA MOMENT (cm ⁴ /m)
26	0.194	0.49	4.73	10.05	4.18	6.7	3.62
24	0.224	0.57	5.47	12.4	5.20	8.1	4.43
22	0.314	0.80	7.65	18.3	7.83	12.3	6.93

Note: Properties were calculated for 37 grade steel (Fb = 1560 kg/cm²).

ZINCACERO QUALIFIES THIS PRODUCT UNDER THE FOLLOWING QUALITY NORMS

NMX	ASTM Present designation	DESCRIPTION
B-9	A-653	Steel sheets with zinc coating (galvanized) or with zinc-iron alloy (galvannealed) requirement by hot-dip process
B-55	A-924	General requirements for steel flats with metallic coating by hot-dip process



ALLOWED UNIFORM LOAD KG/M²

L (m.)	GAUGE			L (m.)	GAUGE			L (m.)	GAUGE		
	22	24	26		22	24	26		22	24	26
1.00	984	656	526	1.00	1039	676	547	1.00	1094	695	568
1.20	822	498	372	1.20	849	513	388	1.20	875	528	404
1.40	530	340	273	1.40	543	351	284	1.40	555	361	295
1.50	438	247	234	1.50	462	278	243	1.50	486	309	252
1.60	389	259	208	1.60	410	268	217	1.60	431	276	226
1.80	305	204	164	1.80	322	210	170	1.80	339	217	177
2.00	247	164	131	2.00	260	169	137	2.00	273	175	143
2.20	202	134	112	2.20	213	139	114	2.20	224	144	117
2.40	169	112	95	2.40	178	116	99	2.40	187	120	103
2.50	147	105	90	2.50	161	108	93	2.50	174	111	95



SUPPORT CONDITION



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- LOAD CAPACITY CALCULATED FOR 37 GRADE STEEL (Fb=1560 KG/CM²)
- BASED ON DEFLECTION L/120

- LOAD CAPACITY CALCULATED FOR ASTM-A-653 SS37 STEEL.
- UNIFORMLY DISTRIBUTED LOADS.

ADVANTAGES

CAMBER IS HIGHER THAN TRADITIONAL (3.5), OFFERING MORE ADVANTAGES REGARDING IMPERMEABILITY AND STRUCTURAL RESISTANCE.

TRANSVERSAL CORRUGATION MAKES PROFILE MORE STRUCTURALLY RESISTANT EASING OVER THE DECK TRANSIT.

DUAL ANTI-SIPHON CHANNEL OF THIS PROFILE ASSURES IMPERMEABILITY AND ELIMINATES THE NEED FOR SEALERS ON OVERLAPS.

MORE ESTHETIC FOR USE IN FACADES

MINIMUM LENGTH: 1.82 M.

MAXIMUM LENGTH: 12.19 M.

USES

FACADES

ROOFS

INDUSTRIAL BUILDINGS WALLS



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