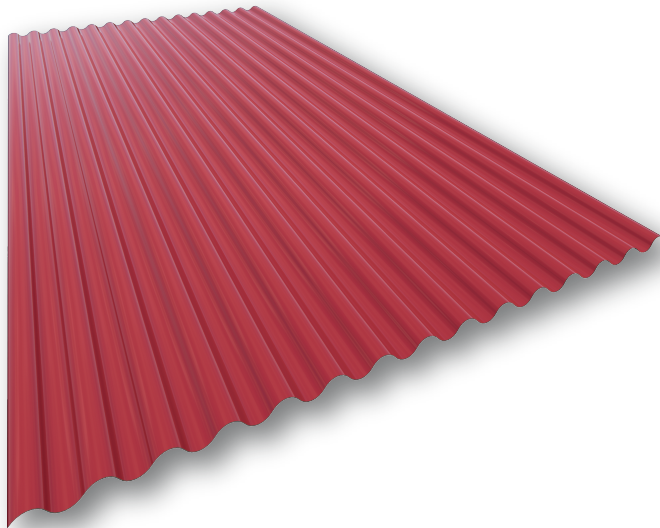


MO-18 MINIONDA
PROFILED SHEET MINIONDA

RAW MATERIAL
 Steel

THICKNESSES mm (in.)
 Up to 1.2
 (0.047)

FINISH
 Pre-painted/Galvanized

USEFUL WIDTH
 1064 mm (41.89 in.)

	THICKNESS mm (in.)						
	0.50 (0.019)	0.60 (0.023)	0.70 (0.027)	0.80 (0.031)	0.90 (0.035)	1.00 (0.039)	1.20 (0.047)
P (kp/m ²)	4.91	5.89	6.87	7.85	8.83	9.81	11.78
M (kp x m)	27,272	32,550	37,758	42,910	48,006	53,046	63,655
I (cm ⁴ /m)	1705	2046	2387	2728	3069	3410	4,092
W (cm ³ /m)	1948	2325	2697	3065	3429	3789	4,497

P=profile weight per square meter I=profile inertia per linear meter W=resistant module profile per linear meter


DESCRIPTION AND APPLICATION

Profile in corrugated sheet with a silhouette 18 mm (0.71 in.) high, available in various thicknesses that can go up to 1.2 mm (0.047 in.).

Available in both galvanized and pre-painted in a wide range of colors offered by HIANSA.

For those mounting solutions that require it, this sheet can be provided with holes drilled 3 mm in diameter, 5 mm between shafts and staggered 60°.

Usable width can be 836 mm (32.91 in.) and 1064 mm (41.89 in.), while the length can vary between 1600 mm (62.99 in.) and 14,000 mm (551.18 in.). Other thicknesses, widths and lengths may be supplied on request.


USE

Roof SANDWICH panel	Roof SANDWICH panel	Roof DECK panel	SIMPLE façade	Façade SANDWICH panel	Façade SANDWICH panel	Interior	Lost Formwork
Interior Profile	Exterior Profile	Base Profile		Interior Profile	Exterior Profile	False Ceilings	
👍	👍		👍	👍	👍	👍	



GEOMETRIC SPECIFICATIONS
STANDARDS APPLIED

Geometric Specifications				
Characteristic	Value	Units	Tolerance / Standard	
Profile thickness (h)	18 (0.71)	mm (in.)	±1.5	EN 508-1
Thickness of stiffeners	0	mm	+3/-1	EN 508-1
Wave Pitch	76 (2.99)	mm (in.)	±3.0	EN 508-1
Width of the ridge and valley	38/38	mm (in.)	+4/-1	EN 508-1
Useful width (w)	1046 (41.89)	mm (in.)	(±0.1, h) and ≤15	EN 508-1
Bending radius (r)	3	mm	±2.0	EN 508-1
Length (l)	1600 (62.99) to 14,000 (551.18)	mm	+20/-5	EN 508

Ref. Standard	Description
EN 508-1	Products for sheet metal roofing and cladding: Specify for self-supporting steel sheet products. Part 1: steel.
EN 10143	Sheets and strips of steel with continuous metal coating by hot dipping. Dimensional and shape tolerances.
EN 10169	Flat steel products, continuous coated with organic materials (pre-painted). Technical supply conditions.
EN 10346	Flat steel products, continuous coated by hot dipping. Technical supply conditions.
EN 14782	Self-supporting metal sheets for covering and cladding of roofs and façades. Product specifications and requirements.


Features of the Profile				
Characteristic	Value	Units	Tolerance / Standard	
Deviation from straightness	≤ to the tolerance	mm	± 2/ml (max.10)	EN 508-1
Deviation from quadrature	≤ to the tolerance	mm	≤ 0.005*w	EN 508-1
Deviation of the side overlap	≤ to the tolerance	mm	± 2 s/500 mm	EN 508-1
Radius and angles of curvature	--	mm	--	EN 508-1
Sheet thickness	0.5 (0.02) to 1.2 (0.05)	mm	UNE 10143	
Type of steel	S220GD to S320GD		UNE 10346	
Changes in measurements	12 x 10+K		UNE 14782	
Water resistance	Pass		UNE 14782	
Hazardous substance emissions	No emissions			
Behavior against fire	Broof (t1)		RD 110/2008	
Galvanized coating	UNE 10346			
Pre-painted coating	UNE 10169			
Fire resistance	Class A1			


SECTION PROFILE

 <p>1-wave overlap</p> <p>Useful width { 836/880 mm 1064/1100 mm</p>	 <p>2-wave overlap</p> <p>Useful width { 760/880 mm 950/1100 mm</p>
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SHAPES OF OVERLAP

RESISTANCE TABLES

ADMISSIBLE LOADS (kp/m ²) ACCORDING TO THE DISTANCE BETWEEN PURLINS (m) 1 opening 								
in (mm)	1	1.25	1.50	1.75	2.00	2.25	2.50	2.75
0.5	272	173	120	88	67	53	42	35
	254	162	112	82	63	50	39	32
0.6	325	207	143	106	81	63	51	42
	303	194	134	99	75	59	47	39
0.7	377	241	167	122	93	73	60	50
	352	225	156	114	87	68	56	46
0.8	428	273	190	140	106	83	67	56
	400	255	177	130	99	78	63	52
0.9	480	306	212	156	120	93	76	62
	448	286	198	146	112	87	71	58
1	530	338	235	172	132	103	83	70
	496	316	219	161	123	97	78	65

 Calculation for $\delta = 1400 \text{ Kp/cm}^2$

The use of the MO-18 profile for separations of purlins to the right of the thick line on the table of allowable loads is not advised.

Permissible service loads, uniformly distributed in kg/m². The tables have been obtained based on a calculation methodology established in accordance with the provisions of the NBE EA-95 standard. These results comply with the Ultimate Limit States of normal and tangential stresses prescribed in said standards and with a limitation of the Serviceability Limit State for deformations of L/200.