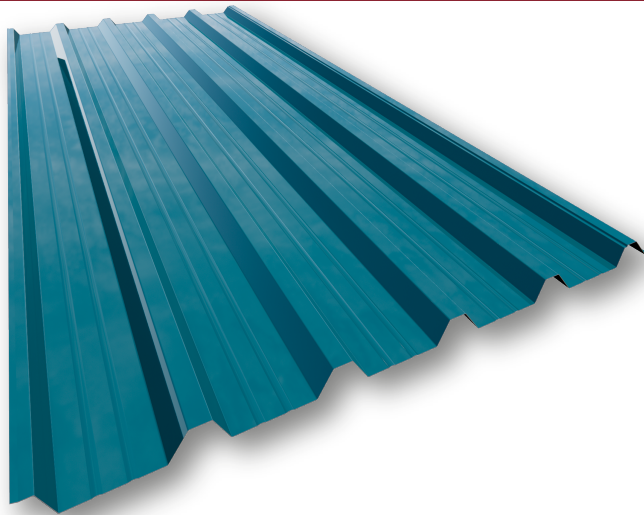


MT-32F
PROFILED SHEET

RAW MATERIAL
Steel

THICKNESSES mm (in.)
From 0.5 to 1.2
(0.019-0.047)

FINISH
Pre-painted/Galvanized

USEFUL WIDTH
1000 mm (39.37 in.)

	THICKNESS mm (in.)					
	0.50 (0.019)	0.60 (0.023)	0.70 (0.027)	0.80 (0.031)	1.00 (0.039)	1.20 (0.047)
P (kp/m ²)	4.91	5.89	6.87	7.85	9.81	11.78
I (cm ⁴ /m)	8.653	10,384	12,116	13,847	17,312	20,778
W (cm ³ /m) - side A	3,559	4,542	5,436	6,200	7,716	9,219
W (cm ³ /m) - side B	3,321	4,079	4,854	5,640	7,236	8,848

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


DESCRIPTION AND APPLICATION

The Hiansa MT-32 profile is specially designed for metal façades and has a 32 mm (1.26 in.) high-ribbed form, which gives this profile good resistance despite its reduced thickness. The thicknesses can range from 0.50 mm (0.019 in.) up to 1.20 mm (0.047 in.). Its useful width is 1000 mm (39.37 in.) and its usual length ranges between 1600 mm (62.99 in.) and 14,000 mm (551.18 in.). Its particular overlap system means that the joints are not visible when mounted on the facade. 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°.


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	
			👍	👍	👍	👍	

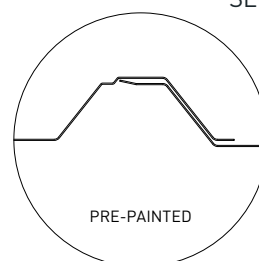
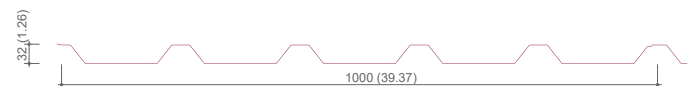
GEOMETRIC SPECIFICATIONS
APPLIED STANDARD

Geometric Specifications			
Characteristic	Value	Units	Tolerance / Standard
Profile thickness (h)	32 (1.26)	mm (in.)	±1.5 EN 508-1
Thickness of stiffeners	0	mm	+3/-1 EN 508-1
Wave Pitch	200 (7.87)	mm (in.)	±3.0 EN 508-1
Width of the ridge and valley	30/79.6	mm	+4/-1 EN 508-1
Useful width (w)	1000 (39.37)	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 (in.)	+20/ - 5 EN 508-1

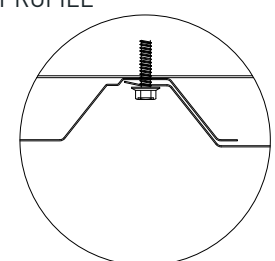
Ref. Standard	Description
EN 508-1	Products for sheet metal roofing and cladding. Specify for self-supporting steel sheet products. Part 1: steel.
EN 10143	Sheets and strips of steel with continuous metal coating by hot dipping. Dimensional and shape tolerances.
EN 10169	Flat steel products, continuous 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.

Units: mm (in.)

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 to 1.2	mm	UNE 10143
Type of steel	S220GD to S320GD		UNE 10346
Changes in measurements	12 x 10 ⁻⁶ 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		



OVERLAP DETAIL



FASTENING DETAIL

RESISTANCE TABLES

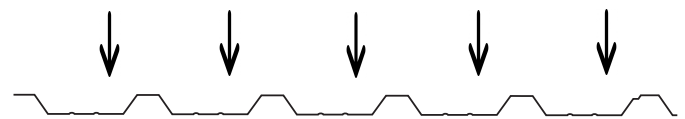
FAÇADE

STEEL S220GD - YIELD STRENGTH 220 N/mm²
 ADMISSIBLE LOADS (kp/m²) ACCORDING TO DISTANCE BETWEEN PURLINS (m)

PRESSURE LOAD											1 OPENING											SUCTION LOAD				
3.00	2.80	2.60	2.40	2.20	2.00	1.80	1.60	1.40	1.20	1.00	in (mm)	1.00	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80	3.00				
16	21	29	39	54	75	106	155	222	305	444	0.50	416	188	212	157	110	80	60	46	36	29	23				
19	26	36	48	65	91	129	188	267	367	533	0.60	526	365	268	197	142	100	75	58	45	36	29				
22	31	41	56	77	106	151	220	311	428	622	0.70	635	441	323	236	165	120	90	69	54	43	35				
26	35	48	64	88	122	173	253	356	489	711	0.80	725	503	369	270	189	138	103	79	62	49	40				
33	44	60	81	111	154	218	319	444	611	888	1.00	903	627	460	337	236	172	129	99	78	62	50				
39	54	72	98	134	186	263	385	532	731	1062	1.20	1081	750	550	405	284	207	155	119	93	74	60				

PRESSURE LOAD											2 OPENINGS											SUCTION LOAD				
3.00	2.80	2.60	2.40	2.20	2.00	1.80	1.60	1.40	1.20	1.00	in (mm)	1.00	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80	3.00				
37	44	53	64	77	95	120	154	204	281	408	0.50	451	313	230	176	139	112	92	77	66	57	49				
48	57	67	81	98	121	152	195	258	356	517	0.60	543	377	276	211	167	135	111	93	79	68	59				
58	69	82	98	119	147	184	236	312	430	624	0.70	634	440	323	247	195	158	131	110	93	80	70				
67	79	93	112	136	167	210	270	357	490	712	0.80	725	504	370	283	224	181	150	126	107	93	81				
83	98	116	140	169	209	262	336	444	611	888	1.00	907	630	464	356	281	228	189	159	136	117	102				
99	117	139	167	203	250	313	402	532	731	1062	1.20	1087	756	556	427	338	274	227	192	164	142	124				

PRESSURE LOAD											3 OPENINGS											SUCTION LOAD				
3.00	2.80	2.60	2.40	2.20	2.00	1.80	1.60	1.40	1.20	1.00	in (mm)	1.00	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80	3.00				
38	48	63	82	99	121	152	195	257	353	512	0.50	565	392	287	220	173	140	114	88	69	55	45				
46	59	76	100	126	154	193	247	326	447	648	0.60	679	471	346	264	209	169	139	110	86	69	56				
54	69	90	117	152	187	233	298	394	540	783	0.70	792	549	403	308	243	197	162	131	103	82	67				
62	79	103	135	173	213	266	341	449	617	894	0.80	904	627	461	352	278	225	185	150	118	94	76				
78	100	130	170	216	265	332	424	560	768	1114	1.00	1129	784	575	440	347	281	232	188	148	118	96				
94	121	157	205	259	317	397	508	670	919	1333	1.20	1352	938	688	526	415	336	277	226	177	142	115				



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 standard EUROCODE 3-Part 1-3. 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.