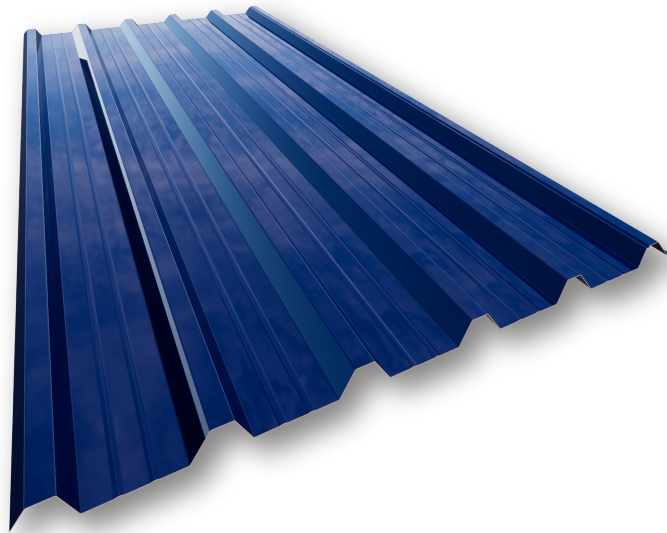


MT-32

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

Hiansa's MT-32 profiled sheet is specially designed for metal roofs 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.). 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	±1.5 EN 508-1
Thickness of stiffeners	0	mm	+3/-1 EN 508-1
Wave Pitch	200	mm	±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	(±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 508-1

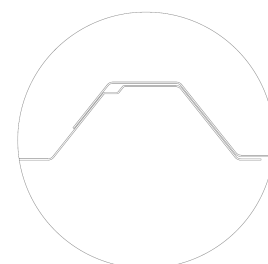
Ref. Standard	Description
EN 508-1	Products for sheet metal roofing and cladding: Specify for self-supporting steel sheet products. Part 1: steel.
EN 10143	Sheets and strips of steel with continuous metal coating by hot dipping. Dimensional and shape tolerances.
EN 10169	Flat steel products, continuous 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 (0.02) to 1.2 (0.05)	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



SECTION PROFILE



OVERLAP DETAIL

RESISTANCE TABLES

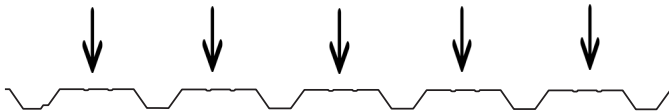
ROOFS - side "B"

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

PRESSURE LOAD											1 OPENING										PRESSURE LOAD			
21	26	34	44	59	80	111	160	227	310	449	in (mm)	1.00	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80	3.00		
21	26	34	44	59	80	111	160	227	310	449	0.50	421	193	217	162	115	85	65	51	41	34	28		
25	32	42	54	71	97	135	194	273	373	539	0.60	532	371	274	203	148	106	81	64	51	42	35		
29	38	48	63	84	113	158	227	318	435	629	0.70	642	448	330	243	172	127	97	76	61	50	42		
34	43	56	72	96	130	181	261	364	497	719	0.80	733	511	377	278	197	146	111	87	70	57	48		
43	54	70	91	121	164	228	329	454	621	898	1.00	913	637	470	347	246	182	139	109	88	72	60		
51	66	84	110	146	198	275	397	544	743	1074	1.20	1093	762	562	417	296	219	167	131	105	86	72		

PRESSURE LOAD											2 OPENINGS										PRESSURE 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		
42	49	58	69	82	100	125	159	209	286	413	0.50	456	318	235	181	144	117	97	82	71	62	54		
54	63	73	87	104	127	158	201	264	362	523	0.60	549	383	282	217	173	141	117	99	85	74	65		
65	76	89	105	126	154	191	243	319	437	631	0.70	640	446	329	253	201	164	137	116	99	86	76		
75	87	101	120	144	175	218	278	365	498	720	0.80	731	510	376	289	230	187	156	132	113	99	87		
93	108	126	150	179	219	272	346	454	621	898	1.00	913	636	470	362	287	234	195	165	142	123	108		
111	129	151	179	215	262	325	414	544	743	1074	1.20	1093	762	562	433	344	280	233	198	170	148	130		

PRESSURE LOAD											3 OPENINGS										PRESSURE 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		
43	53	68	87	104	126	157	200	262	358	517	0.50	570	397	292	225	178	145	119	93	74	60	50		
52	65	82	106	132	160	199	253	332	453	654	0.60	685	477	352	270	215	175	145	116	92	75	62		
61	76	97	124	159	194	240	305	401	547	790	0.70	799	556	410	315	250	204	169	138	110	89	74		
70	87	111	143	181	221	274	349	457	625	902	0.80	912	635	469	360	286	233	193	158	126	102	84		
88	110	140	180	226	275	342	434	570	778	1124	1.00	1139	794	585	450	357	291	242	198	158	128	106		
106	133	169	217	271	329	409	520	682	931	1345	1.20	1364	950	700	538	427	348	289	238	189	154	127		



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.

RESISTANCE TABLES

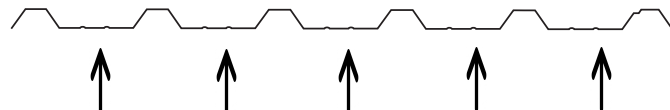
ROOFS - side "A"

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

PRESSURE LOAD											1 OPENING										PRESSURE 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			
20	25	32	42	56	76	107	153	209	286	413	0.50	453	318	235	168	119	88	67	53	43	35	29			
25	32	41	53	71	95	133	192	264	361	523	0.60	549	383	282	204	145	107	82	64	52	42	35			
30	38	49	64	85	115	160	231	319	437	631	0.70	340	446	329	239	170	125	96	75	60	50	41			
34	44	56	73	97	132	183	264	364	498	720	0.80	731	510	376	275	195	144	110	86	69	57	48			
43	55	70	92	122	165	229	330	454	621	898	1.00	913	636	470	346	246	181	138	109	87	72	60			
51	66	84	110	146	198	275	397	544	743	1074	1.20	1093	762	562	417	296	219	167	131	105	86	72			

PRESSURE LOAD											2 OPENINGS										PRESSURE 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			
46	54	63	75	90	109	136	173	227	310	449	0.50	421	293	217	167	133	108	90	76	66	57	50			
56	65	76	90	108	131	163	208	273	373	539	0.60	532	371	274	211	167	136	114	96	83	72	63			
65	75	88	105	126	153	190	242	318	435	629	0.70	642	448	330	254	202	165	137	116	100	87	76			
74	86	101	120	144	175	217	277	364	497	719	0.80	733	511	377	290	230	188	156	132	114	99	87			
93	108	126	149	179	219	272	346	454	621	898	1.00	913	637	470	362	287	234	195	165	142	123	108			
111	129	151	179	215	262	325	414	544	743	1074	1.20	1093	762	562	433	344	280	233	197	170	148	130			

PRESSURE LOAD											3 OPENINGS										PRESSURE 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			
41	51	65	84	111	138	171	217	285	389	562	0.50	525	366	270	207	165	134	112	95	76	62	51			
51	64	82	105	136	165	205	261	343	468	675	0.60	664	462	341	262	208	169	141	116	93	75	62			
62	77	98	126	158	193	239	304	399	545	788	0.70	801	558	411	316	251	204	170	136	109	88	73			
71	88	112	145	181	220	273	348	456	623	900	0.80	914	637	470	361	287	233	194	157	125	101	84			
88	111	140	181	226	275	341	434	570	778	1124	1.00	1140	794	585	450	357	291	242	197	157	128	105			
106	133	169	217	271	329	409	520	682	931	1345	1.20	1364	950	700	538	427	348	289	238	189	154	127			



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.