

MT-68
PROFILED SHEET

RAW MATERIAL
 Steel

THICKNESSES mm (in.)
 From 0.7 to 1.2
 (0.027-0.047)

FINISH
 Pre-painted/Galvanized

USEFUL WIDTH
 880 mm (34.65 in.)

	THICKNESS mm (in.)			
	0.70 (0.027)	0.80 (0.031)	1.00 (0.039)	1.20 (0.047)
P (kg/m ²)	7.80	8.92	11.14	13.36
I (cm ⁴ /m)	65,267	74,573	93,171	111,752
W (cm ³ /M) - upper fiber	14,760	16,959	21,127	25,272
W (cm ³ /M) - lower fiber	26,662	30,046	37,418	44,737

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-68 DECK profiled sheet is specially designed for Deck roofs and has a high rib of 68 mm (2.68 in.), in thicknesses that can range from 0.7 mm (0.027 in.) to 1.2 mm (0.047 in.). Its useful width is 880 mm (34.65 in.) and its 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. 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°.



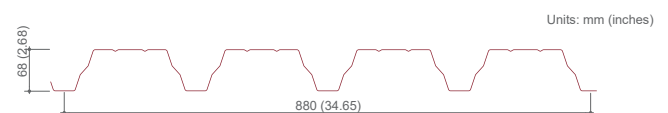
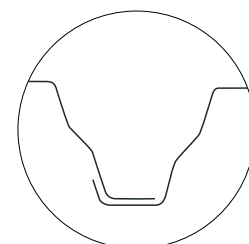
USE							
Roof SANDWICH panel	Roof SANDWICH panel	Roof DECK panel	SIMPLE façade	Façade SANDWICH panel	Façade SANDWICH panel	Interior	Lost Formwork
Interior Profile	Exterior Profile	Base Profile		Interior Profile	Exterior Profile	False Ceilings	
👍		👍		👍			👍

GEOMETRIC SPECIFICATIONS
APPLIED STANDARD

Geometric Specifications				
Characteristic	Value	Units	Tolerance / Standard	
Profile thickness (h)	68 [2.68]	mm (in.)	±1.5	EN 508-1
Thickness of stiffeners	8	mm	+3/-1	EN 508-1
Wave Pitch	218	mm	±3.0	EN 508-1
Width of the ridge and valley	36/122	mm	+4/-1	EN 508-1
Useful width (w)	880 [34.65]	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.

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	0.7 to 1.2	mm	UNE 10143	
Type of steel	S220GD to S320GD		UNE 10346	
Changes in measurements	12 x 10 ⁻⁴ 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

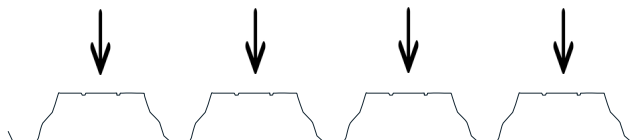
ROOFS - Deck

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

1 OPENING		PRESSURE LOAD																								
in (mm)	1.00	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.20	4.40	4.60	4.80	5.00	5.20	5.40	5.60	5.80	6.00
0.70	1728	1198	878	671	529	427	352	294	250	215	185	151	125	104	87	74	63	53	46	40	34	30	26	22	19	17
0.80	1977	1371	1005	768	605	489	402	337	286	246	213	174	144	120	101	85	72	62	53	46	39	34	30	26	22	19
1.00	2476	1716	1258	961	758	612	504	422	358	307	267	220	182	151	127	107	91	78	67	58	50	43	37	32	28	24
1.20	2968	2058	1509	1152	908	733	604	506	429	369	320	264	218	182	153	129	110	94	80	69	60	52	45	39	34	29

2 OPENINGS		PRESSURE LOAD																								
in (mm)	1.00	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.20	4.40	4.60	4.80	5.00	5.20	5.40	5.60	5.80	6.00
0.70	1711	1186	870	664	524	423	348	292	247	212	184	161	142	126	112	101	91	82	75	68	62	57	52	48	44	41
0.80	1983	1375	1008	770	607	490	404	338	287	246	214	187	165	146	130	117	105	95	86	79	72	66	61	56	52	48
1.00	2476	1716	1258	961	758	612	504	422	358	307	267	233	205	182	163	146	131	119	108	98	90	82	76	70	64	60
1.20	2968	2058	1509	1152	908	733	604	506	429	369	320	280	246	218	195	175	157	142	129	118	108	99	91	84	77	71

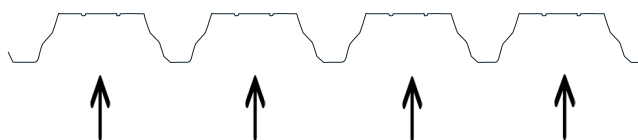
3 OPENINGS		PRESSURE LOAD																								
in (mm)	1.00	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.20	4.40	4.60	4.80	5.00	5.20	5.40	5.60	5.80	6.00
0.70	2141	1484	1089	832	656	530	437	366	311	267	232	203	179	159	142	128	115	104	94	81	71	63	55	49	43	38
0.80	2480	1720	1262	964	760	614	506	424	360	310	269	235	208	184	165	148	133	121	108	94	82	72	63	56	49	44
1.00	3097	2148	1575	1204	949	767	632	530	450	387	336	294	259	230	206	185	167	151	136	118	103	91	80	71	62	55
1.20	3713	2575	1889	1443	1138	920	758	635	540	464	402	352	311	276	246	221	200	181	163	142	124	109	96	85	75	67



1 OPENING		SUCTION LOAD																								
in (mm)	1.00	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.20	4.40	4.60	4.80	5.00	5.20	5.40	5.60	5.80	6.00
0.70	1724	1200	883	678	537	436	362	305	261	226	198	167	140	119	103	89	80	69	61	55	49	45	41	37	34	32
0.80	1998	1390	1023	785	622	505	419	353	302	261	229	193	162	138	118	103	90	79	70	63	57	51	47	43	39	36
1.00	2495	1735	1277	980	777	631	523	441	377	327	286	241	203	172	148	129	112	99	88	79	71	64	59	54	49	46
1.20	2991	2080	1532	1175	931	756	627	529	452	391	342	289	243	207	180	154	135	119	106	95	85	77	70	64	59	55

2 OPENINGS		SUCTION LOAD																								
in (mm)	1.00	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.20	4.40	4.60	4.80	5.00	5.20	5.40	5.60	5.80	6.00
0.70	1741	1211	892	684	542	440	365	308	263	228	199	176	157	140	127	115	105	96	89	82	76	71	66	62	58	55
0.80	1992	1386	1020	783	620	504	418	352	301	261	228	201	179	161	145	132	120	110	101	94	87	81	76	71	67	63
1.00	2495	1735	1277	980	777	631	523	441	377	327	286	252	224	201	182	165	150	138	127	117	109	101	95	89	83	79
1.20	2991	2080	1532	1175	931	756	627	529	452	391	342	302	269	241	218	198	180	165	152	141	131	122	114	106	100	94

3 OPENINGS		SUCTION LOAD																								
in (mm)	1.00	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.20	4.40	4.60	4.80	5.00	5.20	5.40	5.60	5.80	6.00
0.70	2175	1512	1113	853	676	549	455	383	327	283	248	218	194	174	157	142	130	119	109	97	86	78	70	64	58	53
0.80	2488	1730	1273	977	773	628	520	438	375	324	283	250	222	199	179	163	148	136	125	112	100	90	81	73	67	61
1.00	3116	2167	1594	1223	968	786	651	549	469	406	355	313	278	249	225	204	186	170	156	139	125	112	101	92	84	77
1.20	3736	2598	1912	1466	1161	942	781	658	562	486	425	375	334	299	269	244	223	204	187	167	150	134	121	110	100	92



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.