

MT-56
PROFILED SHEET

RAW MATERIAL
 Steel

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

FINISH
 Pre-painted/Galvanized

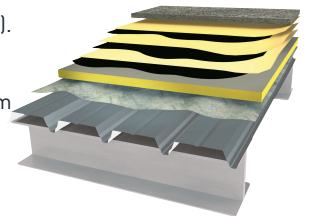
USEFUL WIDTH
 952 mm (37.48 in.)

	THICKNESS mm (in.)			
	0.70 (0.027)	0.80 (0.031)	1.00 (0.039)	1.20 (0.047)
P (kg/m ²)	7.21	8.25	10.30	12.36
I (cm ⁴ /m)	32.744	37.422	46.777	56.130
W (cm ³ /m)- fiber upper	8.003	9.147	11.434	13.721

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-56 DECK profiled sheet has a 56 mm (2.20 in.) high-ribbed form with thicknesses up to 1.20 mm (0.047 in.). Its useful width is 952 mm (37.48 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

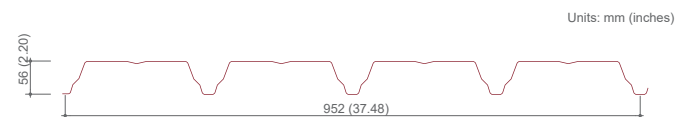
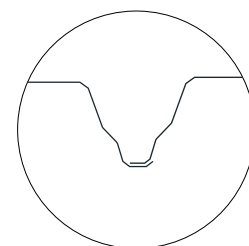
Roof SANDWICH panel	Roof SANDWICH panel	Roof DECK panel	SIMPLE façade	Façade SANDWICH panel	Façade SANDWICH panel	Interior	Lost Formwork
Interior Profile	Exterior Profile	Base Profile		Interior Profile	Exterior Profile	False Ceilings	
👍		👍		👍			👍

GEOMETRIC SPECIFICATIONS
APPLIED STANDARD

Geometric Specifications			
Characteristic	Value	Units	Tolerance / Standard
Profile thickness (h)	52 (2.05)	mm	±1.5 EN 508-1
Thickness of stiffeners	6	mm	+3/-1 EN 508-1
Wave Pitch	238	mm	±3.0 EN 508-1
Width of the ridge and valley	20/70	mm	+4/-1 EN 508-1
Useful width (w)	952 (37.48)	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.

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	916	634	464	354	279	224	184	154	130	107	85	69	57	47	39	32	27	22	19	16	13	11	9	7	6	5			
0.80	1056	731	535	408	321	259	213	178	150	125	100	81	66	55	45	38	32	26	22	19	16	13	11	9	7	6			
1.00	1331	922	675	515	405	326	268	224	190	162	130	105	86	71	59	49	41	34	29	24	20	17	14	12	10	8			
1.20	1593	1103	808	616	485	390	321	268	227	194	156	126	103	85	71	59	49	41	35	29	25	21	17	14	12	9			

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	939	650	476	363	286	230	189	158	134	114	99	86	76	67	59	53	47	43	39	35	32	29	26	24	22	20			
0.80	1071	741	543	414	326	262	216	180	152	130	113	98	86	76	68	60	54	49	44	40	36	33	30	27	25	23			
1.00	1333	923	676	515	405	327	268	224	190	162	140	122	107	95	84	75	67	61	55	50	45	41	37	34	31	29			
1.20	1593	1103	808	616	485	390	321	268	227	194	168	146	128	113	101	90	80	72	65	59	54	49	45	41	37	34			

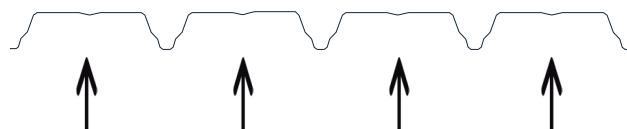
3 OPENINGS		PRESSURE LOAD																											
in (mm)	1.00	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.20	4.40	4.60	4.80	5.00	5.20	5.40	5.60	5.80	6.00			
0.70	1175	814	596	455	358	289	238	199	169	145	125	109	96	85	76	67	57	48	42	36	31	27	23	20	17	15			
0.80	1340	928	680	519	409	330	271	227	192	165	143	125	110	97	86	77	67	57	49	42	36	31	27	24	20	18			
1.00	1668	1156	847	646	509	411	338	282	239	205	178	155	136	121	107	96	86	74	63	55	47	41	35	31	27	23			
1.20	1994	1382	1012	773	608	491	404	338	286	245	212	185	163	144	128	115	103	89	76	66	57	49	43	37	32	28			



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	951	662	488	375	298	242	201	170	146	127	105	87	74	63	55	48	42	38	34	31	28	26	24	22	20	19			
0.80	1084	755	557	428	340	276	230	194	166	144	120	100	85	72	63	55	48	43	39	35	32	29	27	25	23	22			
1.00	1350	940	693	533	423	344	286	242	207	180	149	125	106	91	78	69	61	54	48	44	40	36	34	31	29	27			
1.20	1614	1124	829	637	505	411	342	289	248	215	179	150	127	109	94	82	73	65	58	53	48	44	40	37	35	33			

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	928	647	477	366	291	237	197	166	143	124	109	96	86	77	70	64	58	54	50	46	43	40	38	35	33	32			
0.80	1069	745	549	422	335	273	226	191	164	142	125	111	99	89	81	73	67	62	57	53	49	46	43	41	39	36			
1.00	1349	939	692	532	422	344	286	241	207	180	158	140	125	112	101	92	85	78	72	67	62	58	55	51	49	46			
1.20	1614	1124	829	637	505	411	342	289	248	215	189	167	149	134	121	111	101	93	86	80	75	70	65	62	58	55			

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	1159	807	594	456	362	294	244	206	177	153	134	119	106	95	86	78	71	65	58	52	47	42	38	35	32	30			
0.80	1335	929	685	526	417	339	281	238	203	176	155	137	122	109	99	90	82	75	66	59	53	48	44	40	37	34			
1.00	1684	1172	863	663	526	427	355	299	256	222	195	172	154	138	125	113	104	93	83	74	67	60	55	50	46	43			
1.20	2015	1402	1033	793	629	512	425	358	307	266	233	206	184	165	149	136	124	112	99	89	80	72	66	60	55	51			



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.