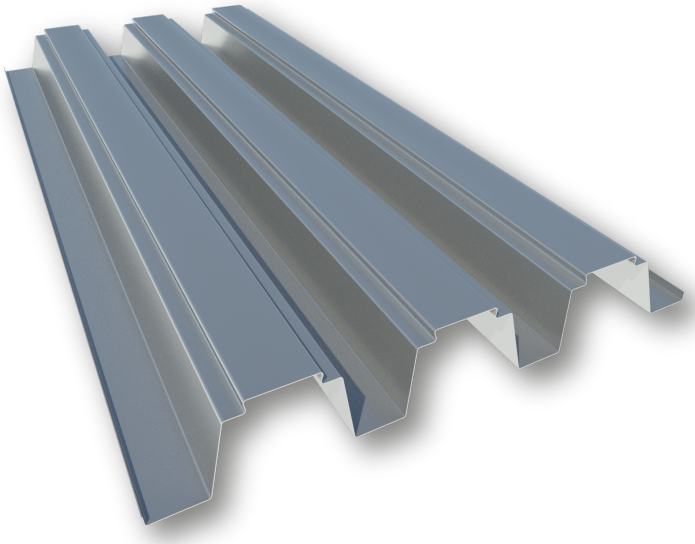
Hiansa
Grupo Hiemesa

REV. 02 - May 2021

MT-100 SE

PROFILED SHEET



RAW MATERIAL
Steel

FINISH
Galvanized

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

USEFUL WIDTH
675 mm (26.57 in.)

	THICKNESS mm (in.)				
	0.70 (0.027)	0.75 (0.029)	0.80 (0.031)	1.00 (0.039)	1.20 (0.047)
P (kg/m²)	10.18	10.90	11.63	14.54	17.44
I (cm⁴/m)	172.23	182.64	195.78	244.81	294.72
W (cm³/M) - upper fiber	30.59	31.95	34.50	43.09	52.06

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

PROFILE NOT OVERLAPPABLE TRANSVERSELY

ISO 9001 BUREAU VERITAS Certification

CE

DESCRIPTION AND APPLICATION

Hiansa's profiled sheet MT-100 SE is specially designed for lost formwork and as roof support.
This profiled sheet has a rib height of 100 mm (3.94 in.), which gives it a very good resistance for large spans. The thicknesses can range from 0.7 mm (0.027 in.) up to 1.20 mm (0.047 in.). Its useful width is 675 mm (26.57 in.) and its usual length ranges between 2000 mm (78.74 in.) and 14,000 mm (551.18 in.).
Available in galvanized steel sheet.

Profile NOT overlappable at the joint in the transverse direction.

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

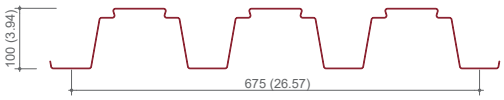
Geometric Specifications				
Characteristic	Value	Units	Tolerance / Standard	
Profile thickness (h)	100 (3.94)	mm (in.)	±1.5	EN 508-1
Thickness of stiffeners	-	mm	+3/-1	EN 508-1
Wave Pitch	225	mm	±3.0	EN 508-1
Width of the ridge and valley	132.46/65	mm	+4/-1	EN 508-1
Useful width (w)	675 (26.57)	mm (in.)	(±0.1 • h) and ≤15	EN 508-1
Bending radius (r)	3	mm	±2.0	EN 508-1
Length (l)	2000 (78.74) to 14,000 (551.18)	mm (in.)	+20/-5	EN 508-1

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^{-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			

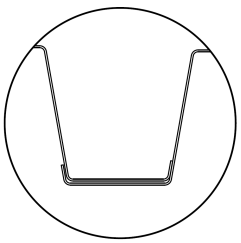
APPLIED STANDARD

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 (inches)



SECTION PROFILE



OVERLAP DETAIL

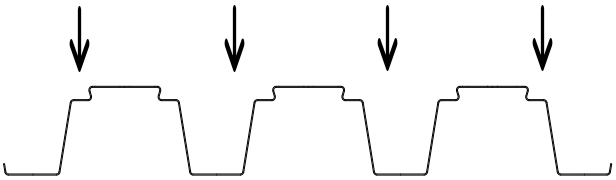
RESISTANCE TABLES

ROOFING and FORMWORK

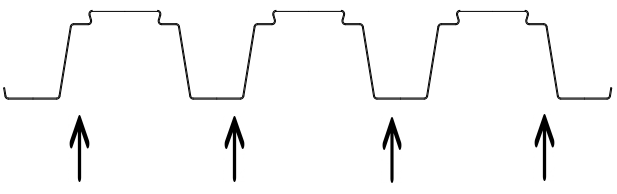
fy=220 N/mm² - POSITION SIDE "A"

ADMISSIBLE LOADS (kp/m2) ACCORDING TO DISTANCE BETWEEN PURLINS (m)

1 OPENING	LOAD PRESSURE																								
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	3325	2306	1692	1294	1021	825	680	570	485	417	362	317	280	245	207	176	151	130	113	98	86	75	66	58	52	46
0.75	3564	2472	1814	1387	1094	884	729	611	520	447	388	340	300	263	222	189	162	140	121	105	92	81	71	63	56	49
0.80	3819	2649	1944	1486	1172	948	782	655	557	479	416	365	322	284	240	204	175	151	131	114	99	87	77	68	60	53
1.00	4850	3364	2469	1887	1489	1204	993	832	707	608	528	463	409	363	311	265	227	196	170	148	129	113	100	88	78	69
1.20	5892	4088	2999	2293	1809	1463	1206	1011	860	739	642	563	497	442	385	328	281	243	210	183	160	141	124	110	97	86
2 OPENINGS	LOAD PRESSURE																								
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	2462	1707	1252	957	754	609	502	421	357	307	266	233	206	182	163	146	132	119	109	99	91	83	77	71	65	60
0.75	2904	2014	1477	1129	890	720	593	497	422	363	315	276	243	216	193	173	156	142	129	118	108	99	91	84	78	72
0.80	3279	2274	1668	1275	1006	813	670	562	477	410	356	312	275	244	218	196	177	161	146	133	122	112	103	96	88	82
1.00	4385	3042	2232	1706	1345	1088	897	752	639	549	477	418	369	328	293	263	238	215	196	179	164	151	139	129	119	110
1.20	5591	3879	2846	2176	1716	1387	1144	959	815	701	609	533	471	419	374	336	304	276	251	229	210	193	178	165	153	142
3 OPENINGS	LOAD PRESSURE																								
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	3080	2136	1567	1198	945	764	630	528	449	386	335	293	259	230	206	185	167	151	138	126	115	106	98	90	84	78
0.75	3633	2520	1849	1414	1115	902	744	623	530	456	396	347	306	272	243	219	198	179	163	149	137	126	116	107	100	92
0.80	4101	2845	2088	1596	1259	1018	840	704	599	515	447	392	346	308	275	248	224	203	185	169	155	143	132	122	113	105
1.00	5484	3805	2792	2135	1685	1362	1124	942	801	689	599	525	464	412	369	332	300	272	248	227	208	192	177	164	152	141
1.20	6993	4852	3561	2723	2149	1738	1434	1202	1022	880	765	670	592	527	471	424	383	348	317	290	266	245	226	209	194	177



1 OPENING	LOAD SUCTION																								
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	2479	1724	1269	973	771	626	519	437	374	323	283	249	222	199	179	163	148	136	122	108	97	87	79	72	65	60
0.75	2922	2032	1495	1147	908	737	611	515	440	380	332	293	261	234	211	191	174	157	139	123	110	99	90	81	74	68
0.80	3298	2293	1687	1294	1024	832	689	580	496	429	375	331	294	263	237	215	196	175	155	137	123	110	100	90	82	75
1.00	4408	3065	2255	1729	1369	1111	920	775	662	573	500	441	392	351	316	287	258	226	199	177	158	142	128	116	106	97
1.20	5619	3907	2874	2204	1744	1415	1172	987	843	729	637	561	499	447	402	364	319	280	247	219	196	176	159	144	131	120
2 OPENINGS	LOAD SUCTION																								
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	3341	2323	1709	1310	1037	841	697	587	501	433	379	334	297	265	239	217	197	180	166	153	142	131	123	115	107	101
0.75	3581	2490	1831	1404	1111	902	747	629	537	464	406	358	318	284	256	232	211	193	178	164	152	141	131	123	115	108
0.80	3838	2668	1963	1505	1191	967	800	674	576	498	435	383	341	305	275	249	226	207	190	176	163	151	141	131	123	116
1.00	4873	3388	2492	1911	1512	1227	1016	856	731	632	552	486	432	387	348	316	287	263	241	223	206	192	178	167	156	147
1.20	5920	4116	3028	2321	1837	1491	1234	1040	888	767	670	591	525	470	423	383	349	319	293	270	250	233	217	202	190	178
3 OPENINGS	LOAD SUCTION																								
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	3868	2689	1978	1516	1200	973	806	678	579	501	437	385	342	306	276	249	227	208	191	176	163	151	141	127	115	105
0.75	4474	3110	2287	1753	1387	1125	931	784	669	578	505	445	395	353	318	288	262	239	220	203	187	174	160	145	131	120
0.80	4795	3333	2451	1879	1486	1206	998	840	717	620	541	477	423	379	341	309	281	257	236	217	201	186	174	161	146	133
1.00	6088	4232	3112	2385	1887	1531	1267	1067	911	787	687	605	537	481	433	392	356	326	299	275	255	236	220	206	188	171
1.20	7397	5141	3781	2898	2293	1860	1539	1296	1106	956	834	735	653	584	525	476	433	395	363	335	309	287	267	250	233	212



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 EUROCODES 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.

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