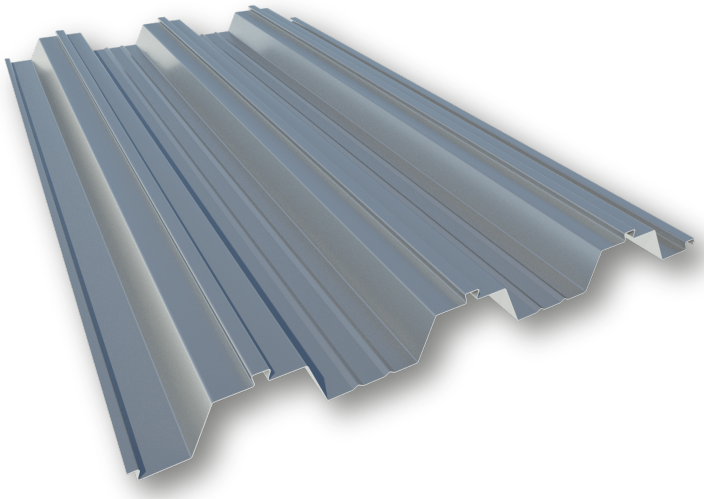
MT-76 SE

PROFILED SHEET



RAW MATERIAL
Steel

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

FINISH
Galvanized

USEFUL WIDTH
880 mm (34.65 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)	7.81	8.36	8.92	11.15	13.38
I (cm⁴/m)	75.00	75.58	89.00	111.10	133.00
W (cm³/M) - upper fiber	23.57	24.01	27.30	33.80	40.50

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-76 SE is specially designed for **lost formworks and as a support for roofs**. This profiled sheet has a rib height of 76 mm (2.99 in.), which gives it a very good resistance for large spans. The thicknesses can range from 0.70 (0.027 in.) mm to 1.20 mm 0.047 in.). Its useful width is 880 mm (34.65 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

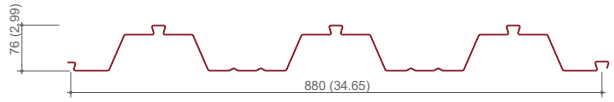
Geometric Specifications				
Characteristic	Value	Units	Tolerance / Standard	
Profile thickness (h)	76 (2.99 in.)	mm	±1.5	EN 508-1
Thickness of stiffeners	-	mm	+3/-1	EN 508-1
Wave Pitch	293	mm	±3.0	EN 508-1
Width of the ridge and valley	164/129	mm	+4/-1	EN 508-1
Useful width (w)	880 (34.65 in.)	mm	(±0.1•h) 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	+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			

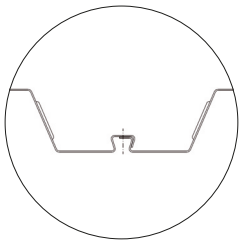
APPLIED STANDARD

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

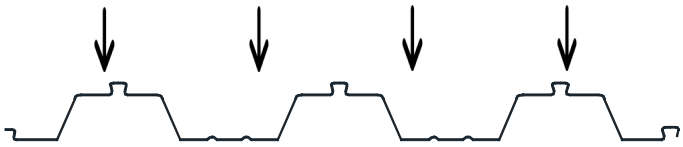
RESISTANCE TABLES

ROOFING and FORMWORK

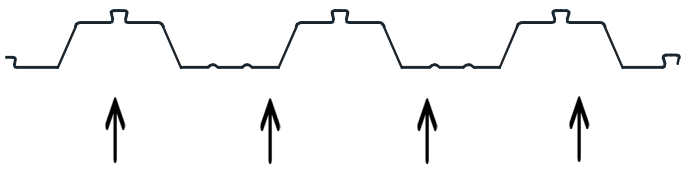
fy=220 N/mm² - POSITION SIDE "A"

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	2680	1859	1364	1043	823	665	525	403	315	251	203	166	137	114	96	81	69	59	51	44	38	33	29	25	22	19
0.75	2898	2011	1475	1128	890	719	578	443	347	276	223	182	151	126	106	90	76	65	56	49	42	36	32	28	24	21
0.80	3066	2127	1560	1193	941	761	613	470	368	293	237	194	160	133	112	95	81	69	60	52	45	39	34	29	26	22
1.00	3835	2660	1952	1492	1177	952	785	607	475	378	306	250	207	172	145	123	105	90	77	67	58	50	44	38	33	29
1.20	4594	3187	2338	1788	1410	1140	940	738	578	460	372	304	251	210	177	150	128	109	94	81	71	61	53	47	41	36
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	2334	1619	1188	908	716	579	477	400	340	292	254	222	196	174	157	140	126	114	104	95	87	80	74	68	63	56
0.75	2604	1806	1325	1013	799	646	532	446	379	326	283	248	219	194	174	156	141	128	116	106	97	89	82	76	69	62
0.80	2807	1947	1428	1092	861	696	574	481	409	352	305	267	236	210	187	168	152	138	126	115	105	97	89	82	73	66
1.00	3622	2512	1843	1409	1111	899	741	621	528	454	394	345	305	271	242	218	197	178	162	148	136	125	115	107	95	85
1.20	4392	3046	2235	1709	1348	1090	899	753	640	550	478	419	370	329	294	264	238	216	197	180	165	152	140	129	116	103
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	2919	2025	1486	1136	987	725	598	501	426	367	319	279	247	219	188	160	137	119	103	90	78	69	61	54	48	42
0.75	3256	2259	1658	1268	1000	809	667	560	476	409	356	312	275	245	207	176	151	130	113	99	86	76	67	59	52	47
0.80	3511	2436	1787	1367	1078	872	719	603	513	441	383	336	297	259	219	187	160	138	120	105	92	81	71	63	56	50
1.00	4530	3143	2307	1764	1392	1125	929	779	662	570	495	434	383	335	283	241	207	179	155	135	119	104	92	81	72	64
1.20	5493	3811	2797	2139	1688	1365	1126	944	803	691	600	526	465	407	344	293	252	217	189	165	144	127	112	99	88	78



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	2347	1632	1201	921	729	592	490	413	327	263	216	179	150	128	110	95	83	73	65	58	52	47	43	39	36	33
0.75	2618	1820	1339	1027	813	660	547	456	360	290	237	197	166	141	121	105	92	81	72	64	58	52	47	43	40	37
0.80	2822	1962	1443	1107	877	711	589	485	383	308	252	209	176	149	128	111	97	86	76	68	61	55	50	46	42	39
1.00	3641	2531	1862	1428	1130	917	760	616	487	392	321	266	224	190	163	141	123	109	96	86	77	70	64	58	53	49
1.20	4414	3069	2258	1731	1370	1112	921	745	588	474	387	322	270	229	197	171	149	131	116	104	93	84	77	70	64	59
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	2693	1872	1377	1056	836	678	562	473	404	349	305	269	239	214	193	174	159	145	134	123	114	104	93	84	77	70
0.75	2913	2025	1489	1142	904	734	607	512	437	378	330	291	258	231	208	189	172	157	144	133	123	114	103	93	84	77
0.80	3081	2142	1575	1208	956	776	642	541	462	399	349	308	273	245	220	200	182	166	153	141	130	121	109	99	90	82
1.00	3854	2679	1971	1511	1196	970	804	677	578	500	437	385	342	306	276	250	227	208	191	176	163	152	139	125	114	104
1.20	4616	3209	2361	1810	1432	1162	963	811	692	599	523	461	410	367	330	299	272	249	229	211	195	182	167	151	137	125
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	3364	2338	1720	1318	1043	846	700	590	503	435	380	331	277	235	201	173	151	132	116	103	92	83	75	68	62	56
0.75	3639	2529	1860	1426	1128	915	758	638	544	470	411	362	305	259	221	191	166	145	128	114	101	91	82	75	68	62
0.80	3849	2675	1967	1508	1193	968	801	674	576	497	434	383	325	275	235	203	176	154	136	121	108	97	87	79	72	66
1.00	4815	3346	2461	1886	1492	1211	1002	844	720	622	543	479	413	349	299	258	224	196	173	153	137	123	111	100	91	84
1.20	5767	4009	2948	2260	1788	1450	1201	1011	863	745	651	573	499	422	361	311	270	237	209	185	165	148	134	121	110	101



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.