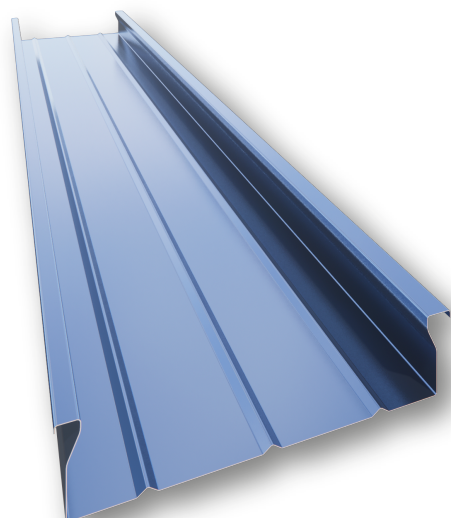


BANDEJA BAN 90.380

SELF-SUPPORTING TRAY



RAW MATERIAL
Steel

THICKNESSES mm (in.)
Up to 1.2
(0.047)

FINISH
Pre-painted/Galvanized

USEFUL WIDTH
380 mm (14.96 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 (kg/m ²)	6.56	7.87	9.18	10.50	13.12	15.74
I (cm ⁴ /m)	88,665	106,399	124,133	141,868	177,338	212,809
W (cm ³ /m)	13,157	15,986	18,650	21,315	26,644	31,973

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



DESCRIPTION AND APPLICATION

Ideal profile as an interior support for façades and roofs fixed to the main structure without the need for substructures. Characterized by its design and small size, this product offers excellent mechanical resistance and is very easy to assemble.

This model is available in numerous finishes: galvanized, pre-painted and aluzinc, with thicknesses ranging from 0.5 mm (0.019 in.) to 1.2 mm (0.047 in.). Its usable width is 380 mm (14.96 in.), while the length can vary between 1600 mm (62.99 in.) and 14,000 mm (551.18 in.).

For mounting solutions that require it, this sheet is also available with holes drilled 3 mm in diameter, 5 mm between shafts and staggered 60° (R3T5). Other thicknesses, widths and lengths may be supplied on request.



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)	90 (3.54)	mm (in.)	±1.5	EN 508-1
Thickness of stiffeners	12.55	mm	+3/-1	EN 508-1
Wave Pitch	120/70	mm	±3.0	EN 508-1
Width of the ridge and valley	30/380	mm	+4/-1	EN 508-1
Useful width (w)	380 (14.96)	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

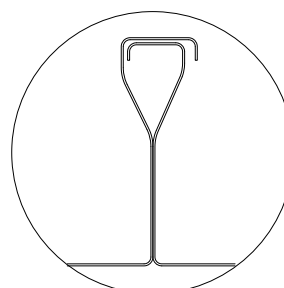
Ref. Standard	Description
EN 508-1	Products for sheet metal roofing and cladding: Specify for self-supporting steel sheet products. Part 1: steel.
EN 10143	Sheets and strips of steel with continuous metal coating by hot dipping. Dimensional and shape tolerances.
EN 10169	Flat steel products, continuous 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	0.5 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			

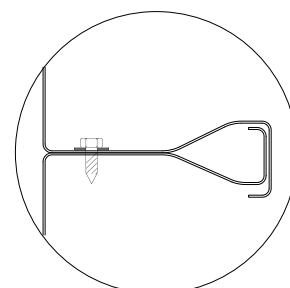
Units: mm (in.)



SECTION PROFILE



OVERLAP DETAIL



DETAIL STITCHED SCREW
(2 per opening)

RESISTANCE TABLES

ROOFS

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

in (mm)		3	3.5	4	4.5	5	5.5	6	6.5
1 Opening	0.5	171	124	94	72	51	36	26	19
	0.6	208	151	114	86	61	44	32	23
	0.7	243	176	133	101	71	51	37	27
	0.8	278	202	152	115	81	58	42	31
	1	347	252	190	144	101	73	53	39
	1.2	416	302	228	172	121	87	63	48
2 Openings	0.5	171	124	94	73	58	47	38	32
	0.6	208	151	114	89	71	57	47	39
	0.7	243	176	133	103	82	67	55	45
	0.8	278	202	152	118	94	76	62	52
	1	347	252	190	148	118	95	78	65
	1.2	411	298	225	175	139	112	92	82
3 Openings	0.5	216	157	119	93	74	60	50	41
	0.6	262	191	144	113	90	73	60	50
	0.7	306	223	168	131	105	85	70	59
	0.8	350	254	193	150	120	97	80	67
	1	437	318	241	188	150	122	101	84
	1.2	518	377	285	222	177	144	119	97

FAÇADES

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

in (mm)		3	3.5	4	4.5	5	5.5	6	6.5
1 Opening	0.5	177	130	100	78	57	43	33	26
	0.6	215	158	121	94	69	52	40	31
	0.7	251	185	141	110	80	60	46	36
	0.8	287	211	161	126	92	69	53	42
	1	359	264	202	157	114	86	66	52
	1.2	413	316	242	188	137	103	79	64
2 Openings	0.5	177	130	100	79	64	53	44	38
	0.6	215	158	151	96	78	64	54	46
	0.7	251	185	141	112	90	75	63	54
	0.8	287	211	161	128	103	85	72	61
	1	359	264	202	159	129	107	90	76
	1.2	426	313	239	189	153	127	106	93
3 Openings	0.5	221	163	125	98	80	66	55	47
	0.6	269	198	151	120	97	80	67	57
	0.7	314	231	177	140	113	93	78	67
	0.8	359	264	202	159	129	107	90	76
	1	449	330	252	199	161	133	112	96
	1.2	532	391	299	236	191	158	133	118

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 NBE EA-95 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. Steel yield strength 250 MPa.