

**BANDEJA BAN 130.600**
**SELF-SUPPORTING TRAY**

**RAW MATERIAL**  
 Steel

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

**FINISH**  
 Pre-painted/Galvanized

**USEFUL WIDTH**  
 600 mm (23.62 in.)

	THICKNESS mm (in.)			
	0.70 (0.027)	0.80 (0.031)	1.00 (0.039)	1.20 (0.047)
P (kg/m <sup>2</sup> )	9.34	10.67	13.33	15.99
I (cm <sup>4</sup> /m)	272,352	311,113	388,605	465,949
W (cm <sup>3</sup> /m)	25,689	30,780	40,535	49,539

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 a replacement solution for purlins both on the roof and on the façade, offering remarkable aesthetic results due to its small size and design. This product offers excellent mechanical resistance and is very easy to assemble, thereby saving completion time on site.

This model is available in numerous finishes: galvanized, pre-painted and aluzinc, with thicknesses ranging from 0.7 mm (0.027 in.) to 1.2 mm (0.047 in.). Its usable width is 600 mm (23.62 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**

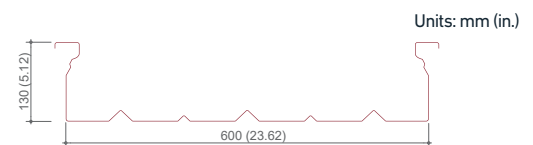
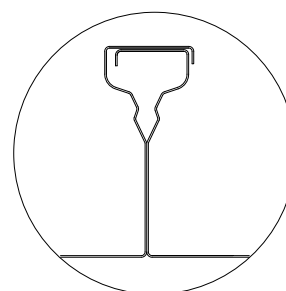
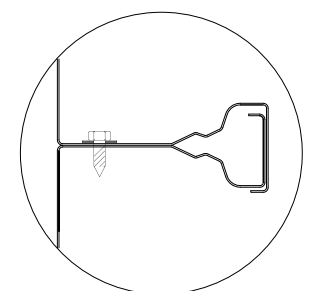
Roof SANDWICH panel	Roof SANDWICH panel	Roof DECK panel	SIMPLE façade	Façade SANDWICH panel	Façade SANDWICH panel	Interior	Lost Formwork
Interior Profile	Exterior Profile	Base Profile		Interior Profile	Exterior Profile	False Ceilings	

**GEOMETRIC SPECIFICATIONS**
**APPLIED STANDARD**

Geometric Specifications				
Characteristic	Value	Units	Tolerance / Standard	
Profile thickness (h)	130 (5.12)	mm (in.)	±1.5	EN 508-1
Thickness of stiffeners	25.75	mm	+3/-1	EN 508-1
Wave Pitch	105/90	mm	±3.0	EN 508-1
Width of the ridge and valley	60/600	mm	+4/-1	EN 508-1
Useful width (w)	600 (23.62)	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 <sup>-6</sup> 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**

**DETAIL STITCHED SCREW  
 (2 per opening)**

## RESISTANCE TABLES

### ROOFS

 ADMISSIBLE LOADS (kp/m<sup>2</sup>) ACCORDING TO DISTANCE BETWEEN PURLINS (m)

e(mm)		3	3.5	4	4.5	5	5.5	6	6.5
1 Opening	0.7	334	243	184	144	115	93	77	65
	0.8	400	292	221	173	138	112	93	78
	1	530	387	293	229	183	149	124	101
	1.2	653	476	361	282	226	184	153	128
2 Opening	0.7	362	264	200	156	125	102	84	71
	0.8	419	305	231	181	145	118	98	80
	1	532	388	294	230	184	150	124	100
	1.2	643	469	356	278	222	181	150	126
3 Opening	0.7	453	332	252	197	158	129	107	94
	0.8	526	384	292	228	183	150	124	106
	1	668	488	370	290	233	190	158	137
	1.2	807	589	448	351	282	230	191	167

### FAÇADES

 ADMISSIBLE LOADS (kp/m<sup>2</sup>) ACCORDING TO DISTANCE BETWEEN PURLINS (m)

e(mm)		3	3.5	4	4.5	5	5.5	6	6.5
1 Opening	0.7	342	251	192	152	123	102	85	73
	0.8	410	301	231	182	148	122	102	87
	1	542	398	305	241	195	161	136	114
	1.2	667	490	375	297	240	199	167	142
2 Opening	0.7	370	272	208	165	133	110	93	80
	0.8	428	315	241	190	154	127	107	89
	1	544	399	306	242	196	162	136	115
	1.2	657	483	370	292	237	196	164	140
3 Opening	0.7	463	340	260	206	167	138	116	103
	0.8	535	393	301	238	193	159	134	116
	1	680	499	382	302	245	202	170	149
	1.2	822	604	462	365	296	244	205	181

Permissible service loads, uniformly distributed in kg/m<sup>2</sup>. 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 250MPa.