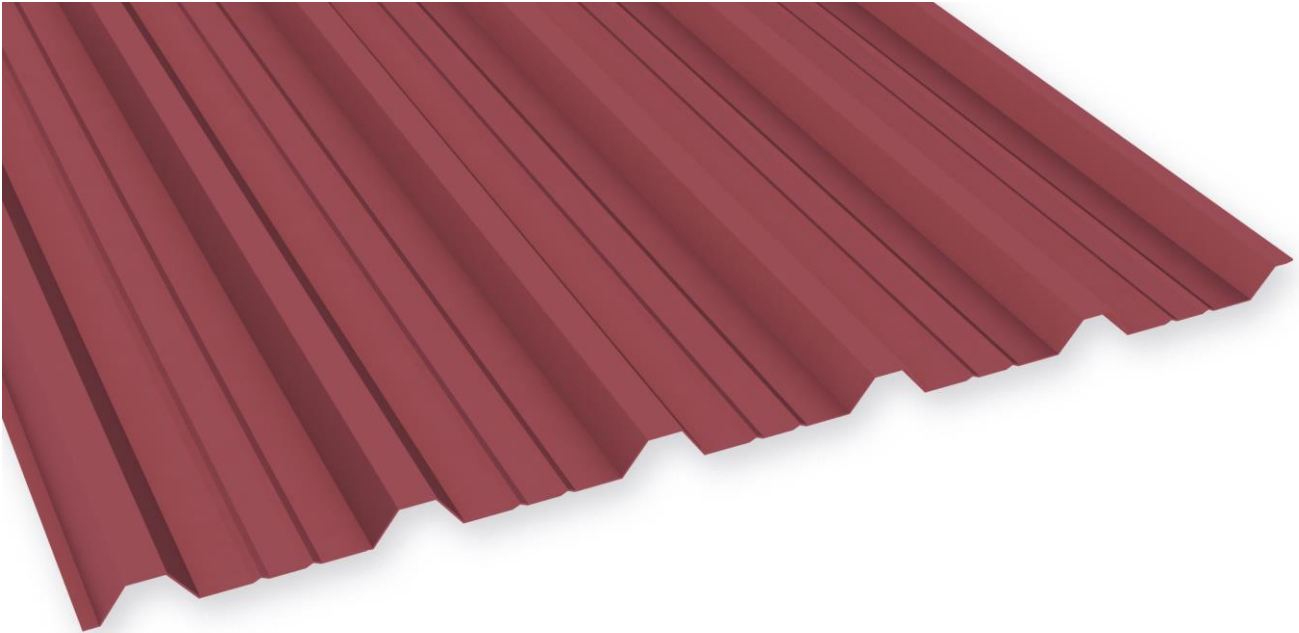


## PROFILE TRAPEZOIDAL DF-30/208



### Characteristic:

Trapezoidal profile of cold-formed, high-quality structural steel sheet, the type of profile that makes up the sheet give it excellent resistance to loads and perfect water tightness.

Manufactured in different sheet metal thicknesses allows an effective enclosure both outdoors and indoors.

It can be delivered in different finishes according to the needs of our customers, galvanized or pre-lacquered with various exterior coatings, the standard being the polyester of 25 microns, which confers a good resistance to the environment.

It is possible to choose a view A face and a view B face that make the coating the possibility of having two different finishes.

This profile provides a high finish both structural and aesthetic.



## PROFILE TRAPEZOIDAL DF-30/208



### USES AND APPLICATIONS:

Manufacture of roofs and facades for industrial, residential, sports facilities, commercial, prefabricated houses, pergolas, parking, rehabilitation of roofs and facades.

Acoustic systems with perforated sheets,

Facades that need lighting and ventilation. with the perforated plates.

The profile anchoring system together with the sealing of the joints allows for quick and easy placement, reducing assembly times.

Our roof or facade profiles provide a high finish both structural and aesthetic.



# PROFILE TRAPEZOIDAL DF-30/208

## PHYSICAL FEATURES:

<b>Quality of pre-lacquered steel</b>	Standard S220GD pre-lacquered
<b>Galvanized steel quality</b>	Galvanized DX51D

Steel sheet values	TYPE OF STEEL	
	Dx51d	S220GD
Re N/mm <sup>2</sup>	N.E.	220
Rm N/mm <sup>2</sup>	250 to 500	300
A% (Lo-80mm)	22%	20%

## CHEMICAL FEATURES:

CHEMICAL ANALYSIS (average) sheet metal steel					
C (%)	Mn (%)	S (%)	P (%)	Yes (%)	Al (%)
0.18	1.2	0.45	0.12	0.5	N.e.

### OUTER FACES

Cold-profiled sheet from S220GD Z140 pre-lacquered structural steel coil, galvanized DX51D, certified quality.

Hot galvanized sheet according to EN 10346.

### COATINGS

The sheet can be manufactured with various exterior coatings to ensure maximum durability, depending on the environment and the intended conditions of use:

Polyester lacquer (25 microns)

Granite HDX (55 microns)

PVDF / Polyvinylidete Fluoride (35 mm)

PET (50 microns) (for panel inner face only)

Granite FARM (35 microns) for agricultural or livestock sector.

### Z140 TYPE

Total minimum coating mass, three-point test: 140 gr/cm<sup>2</sup>

Theoretical indicative values for the thickness of the surface coating, test at a point 10 (range 7 to 15), (Z zinc coating masses).

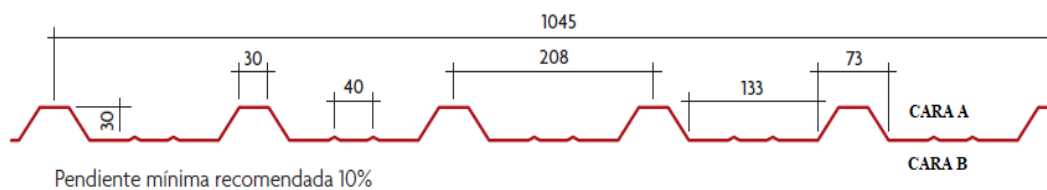
Density 7.1 g/cm<sup>3</sup>



# PROFILE TRAPEZOIDAL DF-30/208

**STRUCTURAL FEATURES:**

<b>Useful width:</b>	1045	Mm
<b>Manufacturing length</b>	On request	Mm
<b>Number of grecas</b>	6	N°
<b>Height greca</b>	30	Mm
<b>Passage of greca</b>	208	Mm
<b>Thicknesses</b>	0,5/0,6/0,7/0,8/1	Mm


**Detalle del solape:**


Thickness	Weight		Position A Covered			Position B facade	
			Moment of inertia I	Resilient moment W	Moment flector M	Resilient moment W	Moment flector M
Mm	kg/m	kg/m <sup>2</sup>	cm <sup>4</sup> /m	cm <sup>3</sup> /m/m	kg-m	cm <sup>3</sup> /m/m	kg-m
0,5	5	4,78	7,25	3,15	45,36	2,98	42,51
0,6	6	5,74	8,74	3,78	52,11	3,54	50,36
0,7	7	6,70	10,22	4,50	64,29	4,45	63,04
0,8	8	7,66	11,54	4,98	72,52	5,16	71,97
1	10	9,55	12,52	5,55	95,75	5,61	94,33

**Calculation criteria:**

 Maximum permissible voltage of the plate T-1400 kg/m<sup>2</sup>

Maximum permissible arrow f-L/200 (L being belt spacing)


**Regulations:**


UNE 14782 Self-supporting metal sheets for coating and coating of roofs and facades.



## PROFILE TRAPEZOIDAL DF-30/208

### MAXIMUM LIGHTS TABLE BETWEEN SUPPORTS (TWO SUPPORTS)


		Position A Covered						
		Distance between supports L(m)						
Thickness mm		1	1,25	1,5	1,75	2	2,25	2,5
0,5		342	187	142	99	79	68	56
0,6		425	237	187	124	101	85	68
0,7		503	281	222	147	119	101	80
0,8		575	324	250	173	146	120	95
1		733	417	327	222	188	153	120
Allowable load between supports kg/m <sup>2</sup>								


		Position B facade						
		Distance between supports L(m)						
Thickness mm		1	1,25	1,5	1,75	2	2,25	2,5
0,5		331	181	141	94	75	64	52
0,6		407	220	172	111	90	74	57
0,7		496	268	205	138	109	93	76
0,8		574	308	230	156	135	104	79
1		739	395	292	199	173	133	104
Allowable load between supports kg/m <sup>2</sup>								



## PROFILE TRAPEZOIDAL DF-30/208

### TABLE OF MAXIMUM LIGHTS BETWEEN SUPPORTS (FOUR SUPPORTS)

 Position A Covered Distance between supports L(m)							
Thickness mm	1	1,25	1,5	1,75	2	2,25	2,5
0,5	430	230	168	119	99	80	65
0,6	537	284	215	141	114	94	74
0,7	620	332	255	167	137	112	87
0,8	717	385	295	194	160	130	101
1	907	487	381	243	200	163	124
Allowable load between kg/m2 supports							

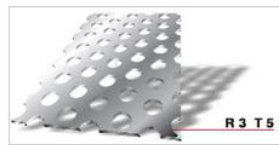
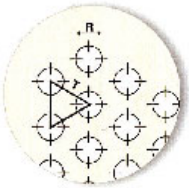
 Position B facade Distance between supports L(m)							
Thickness mm	1	1,25	1,5	1,75	2	2,25	2,5
0,5	414	229	178	121	98	83	67
0,6	509	286	223	150	130	103	79
0,7	513	314	268	178	148	128	102
0,8	716	403	321	211	180	144	110
1	911	510	414	269	232	188	144
Allowable load between kg/m2 supports							



**PROFILE TRAPEZOIDAL DF-30/208****PERFORATIONS FOR ACOUSTIC SOLUTIONS:**

You can supply this profile with uniform perforation, e.g. type R3T5

<b>DRILLING TYPE:</b>	R3T5
<b>HOLE TYPE:</b>	Round
<b>PROVISION:</b>	Angular
<b>DIAMETER (R):</b>	3 mm
<b>DISTANCE BETWEEN CENTRES (T):</b>	5 mm
<b>PERFORATED SUPERFICIE:</b>	32.62 % (S.L. s $0.906 \times (R / T)^2$ )

**QUALITY AND CERTIFICATIONS:**

Our profiles are manufactured with the best materials available on the market, both in the pre-lacquered or galvanized steel sheet used.

**UNE 14782** For different profiles, marked according to standard.



**UNE-EN 10346** Steel flat products coated continuously by hot immersion. Technical conditions of supply.

**UNE-EN 10169** Flat steel products, continuously coated with organic (pre lacquered) materials.

**UNE-EN 10143** Steel sheets and bands with continuous metal coating by hot immersion. Dimensional and shape tolerances.

**OTHER FEATURES:****WATERTIGHTNESS AND STABILITY:**

Our design, of the overlap make our profiles watertight and atmospheric agents.

Our products comply with the European REACH regulation containing substances classified as extremely worrying (SVHC) according to Annex XIV to that regulation.





## PROFILE TRAPEZOIDAL DF-30/208



### ENVIRONMENTAL CONSERVATION MEASURES:

#### TREATMENT OF RESIDUE:

The residue from the cuts produced during assembly consists of sheet metal that is not considered as hazardous waste.

They must be classified with the corresponding LER codes and subtracted by an authorized waste manager in accordance with local legislation in force at the time the waste is produced.

When the profiles or panels of a roof or facade are changed for any reason, the same treatment should be given to the residue produced.

The environment of waste products produced by the handling of our panels must be protected at all times in order to contribute to the maintenance and improvement of the environment. **The owner of the facility where our profiles are mounted is the final holder.**

#### ENVIRONMENTAL SUSTAINABILITY:

Our products comply with the European REACH regulation containing substances classified as extremely worrying (SVHC) according to Annex XIV to that regulation.

