

PROFILE TRAPEZOIDAL DF-44/175**Characteristic:**

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

Manufactured in different sheet metal thicknesses allows an effective enclosure 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.

This profile provides a high finish both structural and aesthetic.



PROFILE TRAPEZOIDAL DF-44/175**USES AND APPLICATIONS:**

Manufacture of roofs and facades for industrial, residential, sports facilities, commercial, false ceilings.

Acoustic systems with perforated sheets.

Facades that need lighting and ventilation, with perforated sheets.

The profile anchoring system together with the seal watertightness 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-44/175

PHYSICAL FEATURES:

Quality of pre-lacquered steel	Standard S220GD prelacquered
Galvanized steel quality	Galvanized DX51D

Steel sheet values	TYPE OF STEEL	
	Dx51d	S220GD
Re N/mm ²	N.e.	220
Rm N/mm ²	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/cm²

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

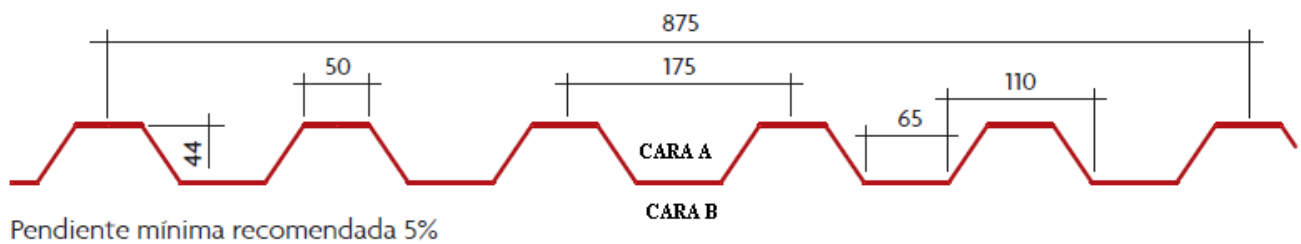
Density 7.1 g/cm³



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STRUCTURAL FEATURES:

Useful width:	875	mm
Manufacturing length	Up to 6000	mm
6	6	N °
Height greca	44	mm
Passage of greca	175	mm
Thicknesses	0,5/0,6/0,7/0,8/1	mm



Thickness	Weight	
	Mm	kg/m ²
0,5	5	5,75
0,6	6	6,86
0,7	7	8
0,8	8	9,14
1	10	11,43

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Calculation criteria:

Maximum permissible voltage of the plate T-1400 kg/m²


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.

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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	200	148	108	79	61	20th	20th	
0,6	256	180	128	97	71	20th	20th	
0,7	300	210	151	115	85	55	20th	
0,8	343	240	174	129	99	64	20th	
1	431	301	218	161	121	80	50	
Allowable load between supports kg/m ²								

		Position B facade Distance between supports L(m)						
Thickness mm	1	1,25	1,5	1,75	2	2,25	2,5	
0,5	196	153	113	84	67	20th	20th	
0,6	257	184	136	102	81	50	20th	
0,7	305	214	157	119	96	60	20th	
0,8	350	248	184	140	111	73	50	
1	440	310	230	172	136	91	62	
Allowable load between supports kg/m ²								




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TABLE OF MAXIMUM LIGHTS BETWEEN SUPPORTS (FOUR SUPPORTS)

 on A Covered Distance between supports L(m)							
Thickness mm	1	1,25	1,5	1,75	2	2,25	2,5
0,5	239	190	153	126	106	72	50
0,6	313	248	201	164	138	88	58
0,7	385	303	244	202	168	104	68
0,8	470	376	299	248	193	119	82
1	627	498	400	310	241	150	101

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	257	205	165	137	114	79	52
0,6	332	263	216	177	147	95	62
0,7	408	322	264	217	170	110	74
0,8	496	396	321	257	198	126	89
1	654	521	423	322	248	158	109

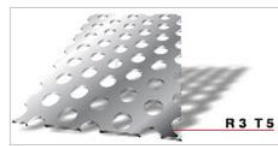
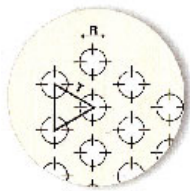
Allowable load between kg/m2 supports



PROFILE TRAPEZOIDAL DF-44/175**PERFORATIONS FOR ACOUSTIC SOLUTIONS:**

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

DRILLING TYPE:	R3T5
HOLE TYPE:	Round
PROVISION:	Angular
DIAMETER (R):	3 mm
DISTANCE BETWEEN CENTRES (T):	5 mm
PERFORATED SUPERFICIE:	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 (prelacquered) materials.

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

OTHER CHARACTERISTICS:**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-44/175**ENVIRONMENTAL CONSERVATION MEASURES:****TREATMENT OF RESIDUE:**

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

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

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.

At all times the environment of waste products produced by the handling of our profiles must be protected 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.

