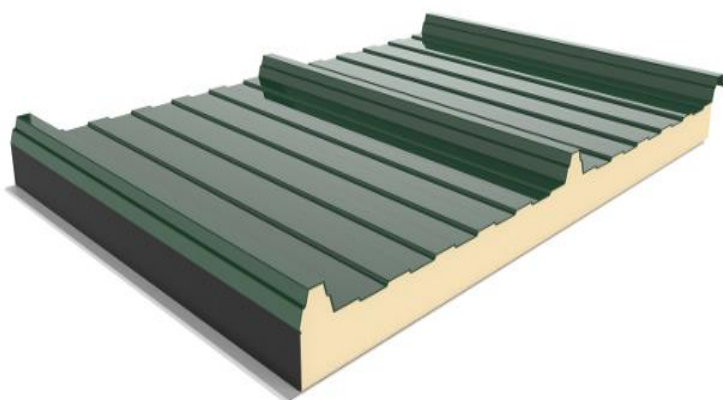


DESCRIPTION





Roof panel whose inner side is made up of **fiberglass-reinforced polyester resins** that withstand corrosive environments such as agricultural facilities, chemical industries, etc. **It can be manufactured with three or five frets** for greater mechanical resistance against external loads and forces.

Its insulating core is manufactured in **high-density PUR F foams**, to ensure thermal insulation in all types of situations. Its simple assembly represents great savings for the customer: the panel overlaps in the ribs of two adjacent panels to ensure \pm maximum watertightness.

Special galvanized and pre-lacquered steels are used in its manufacture, which comply with the **EN 508-1 standard**. You can choose on request from a wide variety of designs and colors depending on the needs of the project. It is especially used for the roofs of farms.



TECHNICAL DATA OF THE INSULATED AGRICULTURAL ROOFING

Outer Side	Inner Side	Thickness	Length
Pre-lacquered steel	Polyester	30 / 40 / 50	Up to 16,2 m
Most common colours			
 White Pyrenees RAL 9010	 Navarra Green RAL 6005	 Red Tile RAL 3009	 Silver Metallic RAL 9006

	Thickness (mm)		
	30	40	50
Length (mm)	Standard 2500 to 16000		
Width (mm)	1000		
Core density (kg/m ³)	40 (± 2)		
Thermal conductivity (W/mK)	0,025		
Coefficient of thermal transmission (W/m ² k)	0,68	0,53	0,43
Weight (kg/m ²)	5,90	6,30	6,70

LOAD TABLE OF INSULATED AGRICULTURAL ROOFING

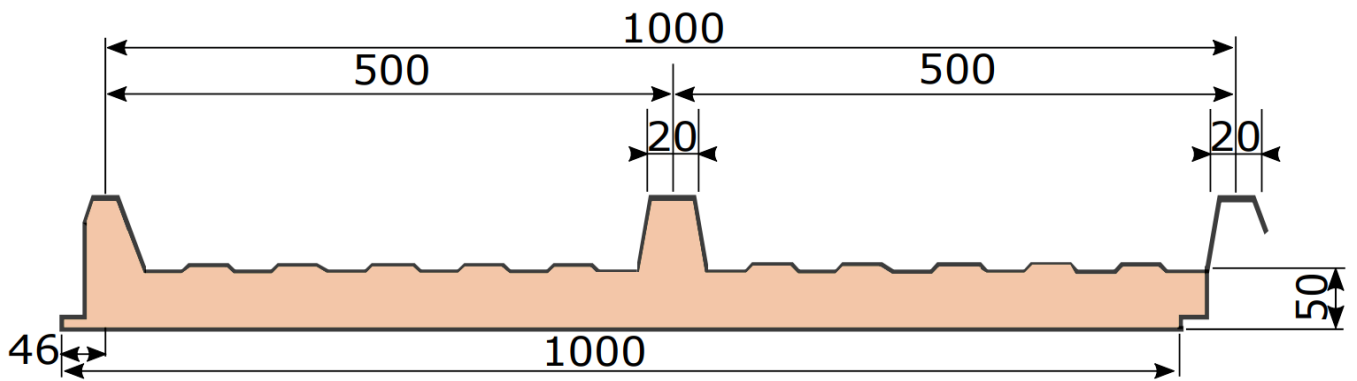
L	Sheet metal 0.3 (kg/m ²)			
	1 span		2 span	
	Pressure	Suction	Pressure	Suction
1.0	142	169	159	151
1.2	92	118	109	107
1.4	62	76	79	80
1.6	40	53	59	62
1.8	-	39	46	50
2.0	-	-	-	41
2.2	-	-	-	-
2.4	-	-	-	-

L	Sheet metal 0.5 (kg/m ²)			
	1 span		2 span	
	Pressure	Suction	Pressure	Suction
1.0	263	278	265	276
1.2	181	195	182	194
1.4	113	125	132	144
1.6	73	86	100	112
1.8	49	63	77	90
2.0	-	48	61	74
2.2	-	-	50	62
2.4	-	-	41	53
2.6	-	-	-	46

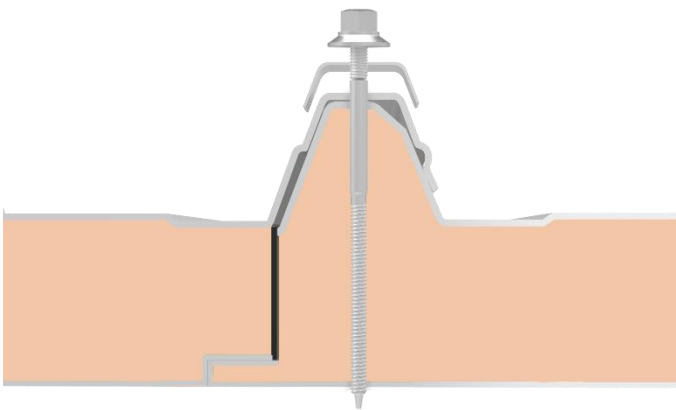
L	Sheet metal 0.4 (kg/m ²)			
	1 span		2 span	
	Pressure	Suction	Pressure	Suction
1.0	201	224	212	212
1.2	138	156	146	149
1.4	87	101	106	111
1.6	56	70	79	86
1.8	-	51	62	69
2.0	-	-	49	57
2.2	-	-	39	48
2.4	-	-	-	42

Deviation (mm)		
Length	L \leq 3 m L > 3 m	\pm 5 mm \pm 10 mm
Usable width		\pm 2 mm
Thickness	D \leq 100 mm D > 100 m	\pm 2 mm \pm 2 %
Deviation from perpendicularity		6 mm
De-linearization of the internal metallic parameters		\pm 3 mm
Coupling of bottom plates	F = 0 +3 mm	

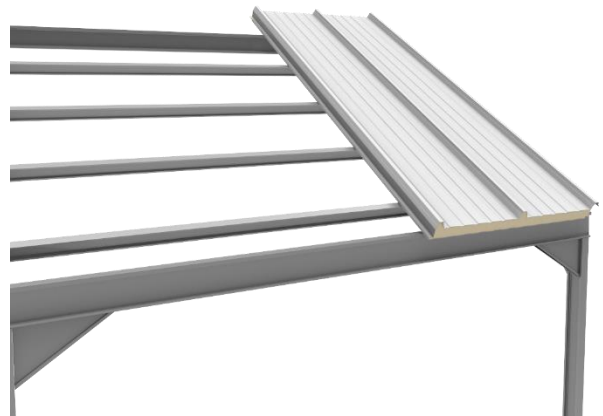
CROSS SECTION OF THE INSULATED AGRICULTURAL ROOFING



OVERLAP



INSTALLATION



In the installation of the Insulated Agricultural Metal Roofing for farms we must ensure the correct overlap between two adjacent plates, so that the **EPDM gasket** protects the encounter of possible condensation. The panel is fixed directly to the structure from the fret with the self-drilling screws provided that **incorporate cappellotti** to ensure maximum tightness. Although polyurethane is not a hydrophilic material, it is recommended to complete the installation with the appropriate finishes **to close the core and guarantee maximum protection.**

PHOTO

