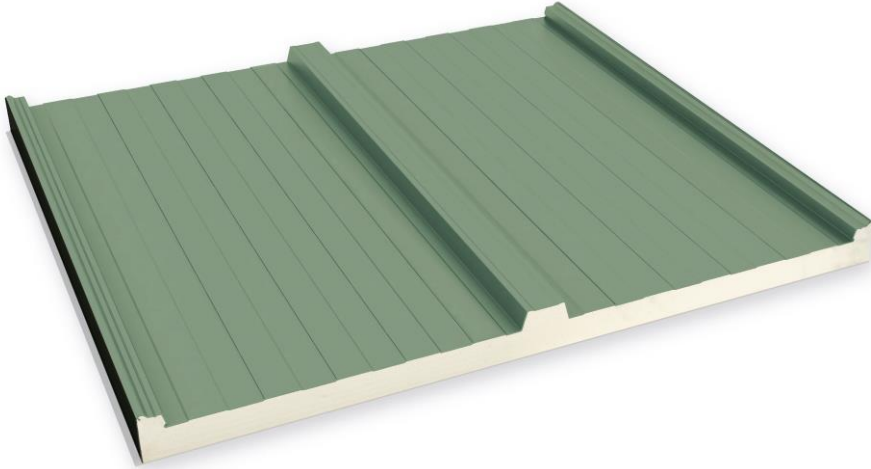


COVER PANEL AGRODEF



CHARACTERISTICS:

Sandwich panel made of rigid polyurethane foam of high insulating power and faces of high-quality steel sheet.

Rigid foam made of polyisocyanurate (PIR) or polyurethane (PUR) has a low thermal conductivity of only 0.024 W/m.°K providing good thermal and acoustic insulation.

The chemical characteristics of the foam give it a high durability and resistance to external agents both physical, chemical and biological.

Manufactured the outer layer in high quality steel and the lower layer with polyester that gives the panel high performance in the construction of roofs and a special resistance to corrosive interior environments.

The sheet of the face of our panele are coated by a layer of polyester paint of 25 microns that gives a high resistance to the environment.

The panels can be delivered in different finishes according to the needs of our customers, different colors in pre-lacquered or galvanized.



COVER PANEL AGRODEF



USES AND APPLICATIONS:

Manufacture of covers with thermal and acoustic insulation.

Rehabilitation of roofs, farms, laboratories chemical industry, food industry and particularly corrosive environments

The design of the longitudinal and macaguid joints of the steelface allow a total sealing against the environmental agents.

Polyester bottom face gives the panel special corrosion resistance

The panel anchoring system together allows quick and easy placement of the cover, reducing mounting times.

Our roof panels are practicable within the mites that are set out in the sections of physical and structural characteristics.

PHYSICAL CHARACTERISTICS:



DEFORMAC S.L. C/ Dels Teixidor, 6 Banyeres de Mariola (Alicante)
Tel: 966568008, www.deformac.com, comercial@deformac.com



COVER PANEL AGRODEF

Thermal Conductivity (PIR/PUR)	0.024W/m ² K						
Density of the insulator core	40-4 kg/m ³						
Panel thickness	30	40	50	60	80	100	mm
Linear meter weight	7,37	7,83	8,29	8,75	9,67	10,66	Kg/m
Square meter weight	6,41	6,81	7,21	7,61	8,41	9,22	Kg/m ²
Tensile strength	0.062-0.02	0.062-0.02	0.06x 0.02	0.06x 0.02	0.062-0.02	0.062-0.02	Mpa
Compression resistance	0.12-0.01	0.12-0.05	0.076-0.05	0.076-0.05	0.125-0.05	0.125-0.05	Mpa
Resistance moments flectors	0.099-0.01	0.099-0.01	0.076-0.01	0.076-0.01	0.101-0.01	0.101-0.05	Mpa

CHEMICAL FEATURES:
Insulating core

Rigid polyisocyanurate (PIR) or polyurethane (PUR) foam, injected continuously.
 VOC content < 1.5% weight.

Outer face:

Cold-profiled sheet from S220GD type structural steel coil, certified quality.
 Hot galvanized sheet according to EN 10346

Inner face:

fiberglass-reinforced orthophthalic polyester lacquer.

Coatings

The DF-AGRO COVER panel 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.



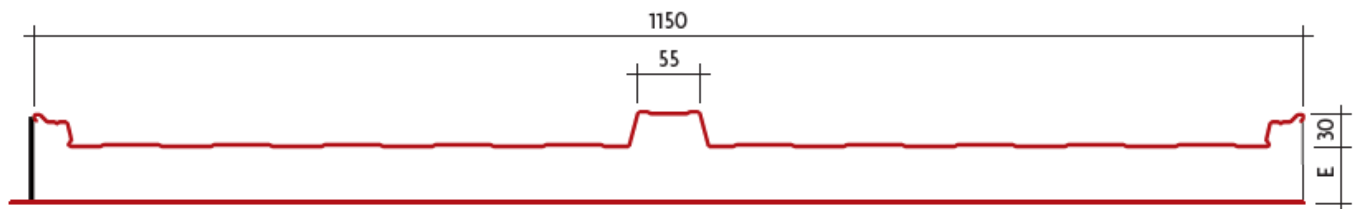
COVER PANEL AGRODEF

STRUCTURAL FEATURES:

Top face with three grecas, slightly profiled bottom face.

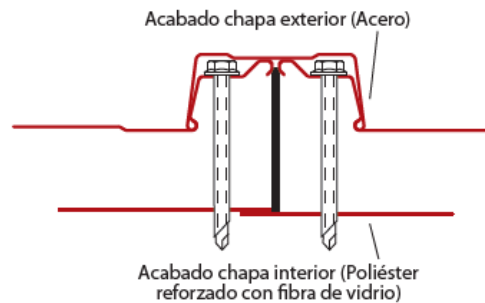
Standard sheet metal thicknesses: 0.5 mm (other thicknesses upon request).

Useful width:	1150	mm
Manufacturing length	2 to 15	m
Number of grecas	3	Unit
High of the greca	30	mm
Passage of greca	575	mm



Pendiente mínima recomendada 5%

Detalle del solape:



Calculation criteria:

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

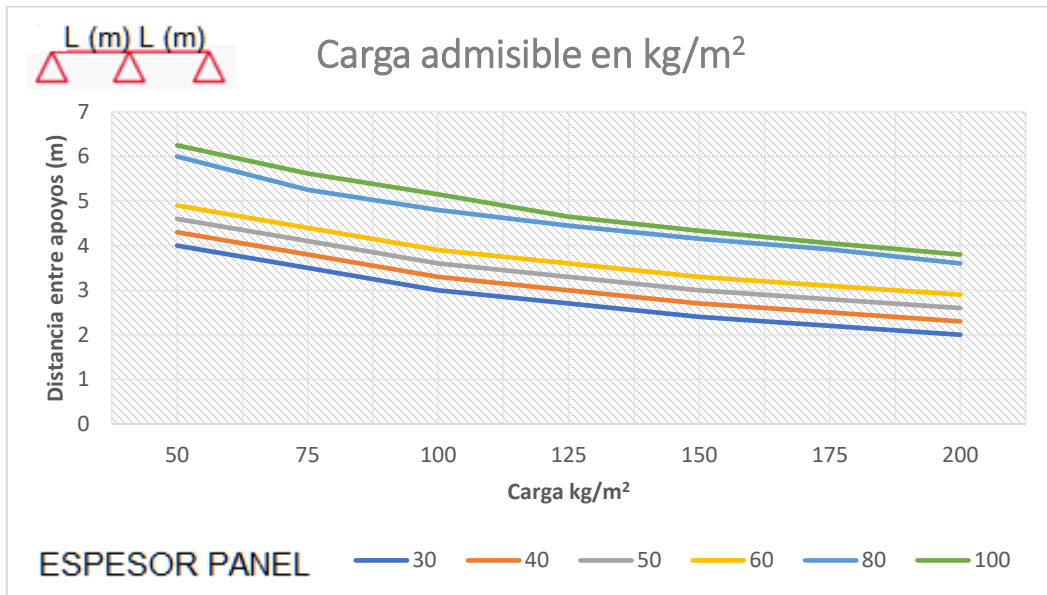
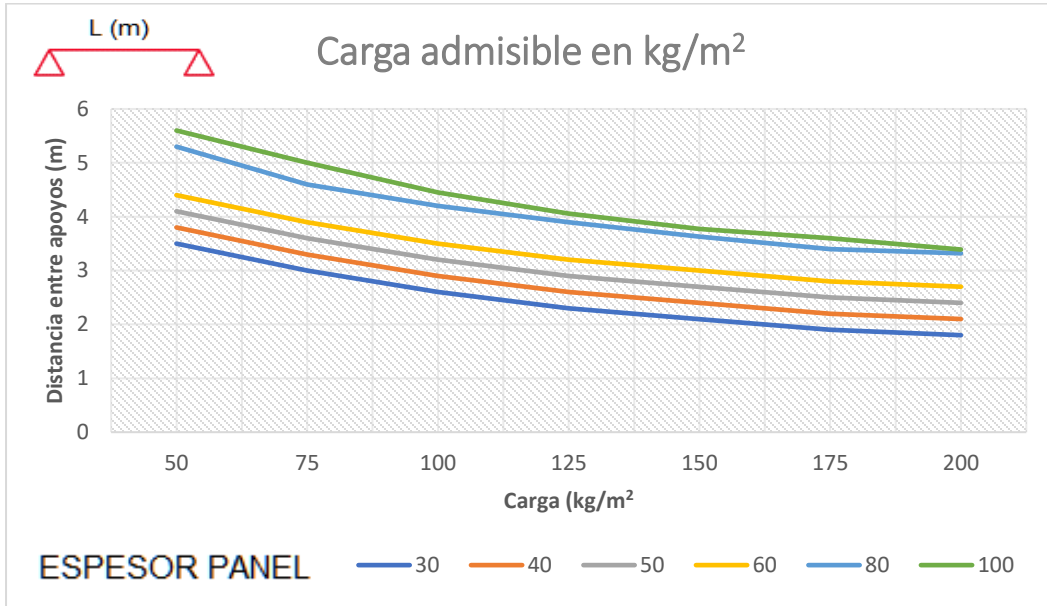
Maximum permissible arrow $f = L/200$ (L being belt spacing)

Regulations:

UNE 14509 Self-supporting insulating sandwich panel double metal faces.

COVER PANEL AGRODEF

GRAPHIC OF MAXIMUM LIGHTS BETWEEN SUPPORTS.



The graphs show the maximum allowable distances between supports depending on the load (uniformly distributed) and the thickness of the panel.



COVER PANEL AGRODEF

QUALITY AND CERTIFICATIONS:

Our insulating panels are manufactured with the best materials available on the market, both in the sheet of steel used and, in the products, used in the manufacture of the core foam complying with the standards:

UNE 14509 For Sandwich panel, 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 (preplaced) 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, maca pad and gasket systems make our water-water-waterproof insulating panels and atmospheric agents, as well as excellent thermal and acoustic insulation.

The foam cores are manufactured in PIR and PUR do not adsorb water, presenting excellent stability against biological and chemical agents while retaining their thermal, dimensional and acoustic insulation characteristics.

PROTECTION OF PERSONS:

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

A **Safety Data Sheet** is available to our customers.



COVER PANEL AGRODEF



ENVIRONMENTAL CONSERVATION MEASURES:

TREATMENT OF RESIDUE:

The residue from the cuts produced during assembly is formed by polyisocyanurate polyurethane foam and sheet metal that have an easy separation by tensile tearing.

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

When the panels of a roof or facade are changed for any reason, the same treatment should be given to the residue produced by the cut-outs in the assembly.

At all times the environment of waste products produced by the handling of our sandwich panels must be protected in order to contribute to the maintenance and improvement of the environment.

ENVIRONMENTAL SUSTAINABILITY:

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

A **Safety Data Sheet** is available to our customers

