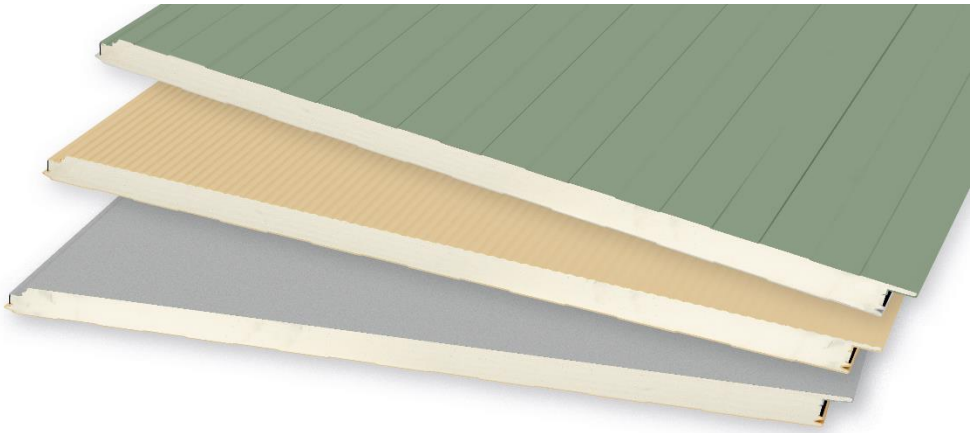
Data Sheet

FACADE PANEL DF-FN, DF-FM, DF-FL.



ÍSTATISTICAL 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.ºK 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.

The high quality of the steel with which the two profiles of the faces are manufactured gives the panel a high performance in the construction of facades.

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.

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

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USES AND APPLICATIONS:

Manufacture of facades with thermal and acoustic insulation. .

Rehabilitation of facades.

The design of the longitudinal joints and macmacguiping of the steel faces allow a total sealing against the environmental agents.

The panel anchorage system allows quick and easy placement of the facade, reducing assembly times.

Our facade panels provide a high finish both structural and aesthetic of the facade.

PHYSICALCHARACTERISTICS:

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Thermal Conductivity (PIR/PUR)	0.024**W/m**m· K						
Density of the insulator core	40-4 kg/m^3						
Panel thickness	**30**	**40**	**50**	**60**	**80**	**100**	Mm
Linear meter weight	11,26	11,72	12,18	12,64	13,56	15,40	Kg/m
Square meter weight	9.90	10,30	10.70	11,10	11.90	12,70	Kg/m^2
Tensile strength	0.062±0.02	0.062±0.02	0.06±0.02	0.06±0.02	0.062±0.02	0.062±0.02	Mpa
Compression resistance	0.12±0.05	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	0.10±-0.01	Mpa

CHEMICAL FEATURES:

Insulating core

Rigid polyisocyanurate (PIR) or polyurethane (PUR) foam, injected continuously.
VOC content < 1,5% weight.

Outer faces

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

Coatings

The DF-FN, DF-FM, DF-FL 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.

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STRUCTURAL FEATURES:

Slightly profiled bottom face.
Standard sheet metal thicknesses: 0.5 mm (other thicknesses available, S220GD or DX51D steel type

Useful width:	1150	mm
Manufacturing length	2 to 15	m
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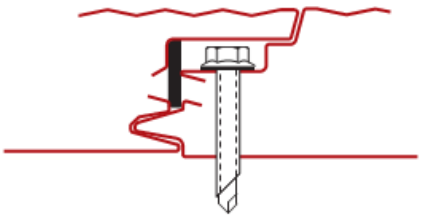

Calculation criteria:
Maximum permissible voltage of the plate T-1400 kg/m^2
Maximum permissible arrow f-L/200 (L being belt spacing)
Regulations:
UNE 14509 Self-supporting insulating sandwich panel double metalfaces.

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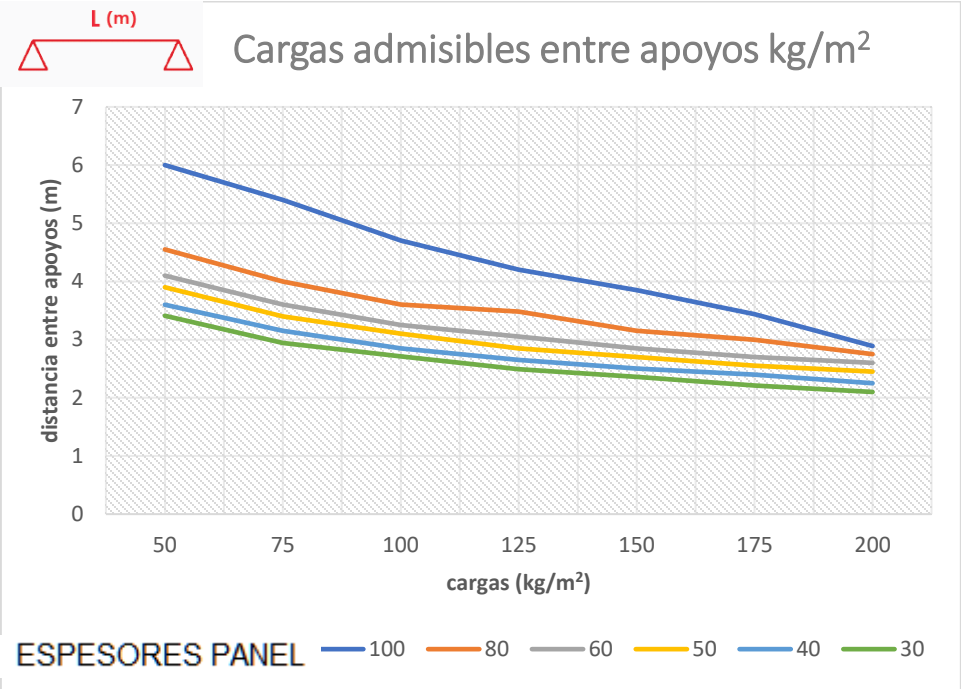
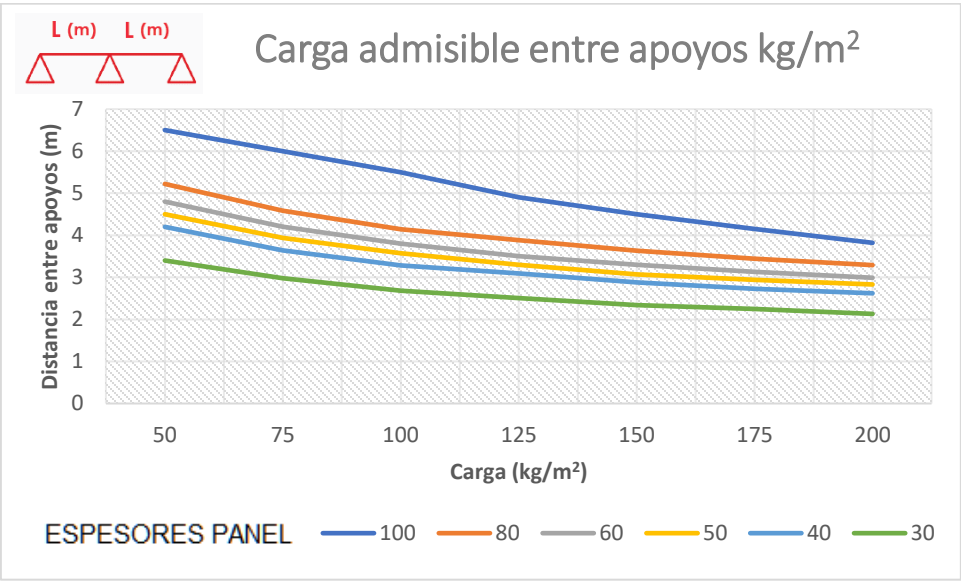
GRAPHS OF MAXIMUM LIGHTS BETWEEN SUPPORTS





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

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CHARACTEREANDÍFIRE RESISTANCE STATISTICS:

Facade panel DF-FN, DF-FM, DF-FL PIR:
Euroclass B,s2,d0

Facade panel DF-FN, DF-FM, DF-FL PUR:
Euroclass **B,s3,d0**

The reaction to fire has been determined by laboratory tests (EN 13501).

QUALITY AND CERTIFICATIONS:

Our insulating panels are manufactured with the best materials available on the market, both in the sheet steel (pre-lacquered or galvanized) 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 (prelaced) materials.
UNE-EN 10143 Steel sheets and bands with continuous metal coating by hot immersion. Dimensional and shape tolerances.

OTHERÍCHARACTERISTICS:

WATERTIGHTNESS AND STABILITY:
Our design, macapad and gasket systems make our water-water-waterproof insulating panels and atmospheric agents, as well as excellent thermal and acoustic insulation.

The foam cores both those manufactured in PIR and PUR do not adsorb water,, presenting excellent stability againstbiological, physical and chemical agents,, preserving their characteristics of thermal, dimensional and acoustic insulation.

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.

FACADE PANEL DF-FN, DF-FM, DF-FL.

ENVIRONMENTAL CONSERVATION MEASURES:

Our products do not contain organic chloro-fluorinated CFC compounds.

TREATMENT OF RESIDUE:

The residue from the cuts produced during assembly is formed by 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.

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