



# FIBROSTIR R - RS - FL

## INSULATING PANELS IN EXTRUDED POLYSTYRENE



### DESCRIPTION

Fibrostir is a single layer yellow panel, specific for thermal insulation in both civil and industrial sectors.

The characteristics that distinguish it are: excellent thermal insulation, impermeability to water, good resistance to the passage of steam, high compressive strength, excellent dimensional stability.

The peculiar characteristic of Fibrostir is a low coefficient of thermal conductivity that allows a considerable energy saving in the usual applications of insulation of structures. Minimum coefficient of water absorption and good resistance to steam, these characteristics are due to its homogeneous cellular structure and surface furling.

Thanks to its homogeneous cellular structure, Fibrostir has a high compressive strength. In fact, it can be used as insulation for underfloor and practicable flat roofs.

The movements of the material, even with significant variations in temperature and humidity, are practically zero or negligible and allow the use of Fibrostir in the field of laminates in general.



<b>Profile</b>	<b>Fibrostir MF</b>
<b>edges</b>	<b>Male/female</b>
<b>Surface</b>	<b>with leather</b>
<b>Thicknesses (mm)</b>	<b>30/120</b>
<b>Dimensions (mm)</b>	<b>600 x 2800-3000</b>



<b>Profile</b>	<b>Fibrostir SV</b>
<b>edges</b>	<b>Raw edges</b>
<b>Surface</b>	<b>with leather</b>
<b>Thicknesses (mm)</b>	<b>20/120</b>
<b>Dimension (mm)</b>	<b>600 x 1250</b>



<b>Profile</b>	<b>Fibrostir BT</b>
<b>edges</b>	<b>with overlaps</b>
<b>Surface</b>	<b>with leather</b>
<b>Thicknesses (mm)</b>	<b>30/120</b>
<b>Dimension (mm)</b>	<b>600 x 1250</b>



<b>Profile</b>	<b>Fibrostir SVR</b>
<b>edges</b>	<b>sharp edges</b>
<b>Surface</b>	<b>Rough surface with or without grooves</b>
<b>Thicknesses (mm)</b>	<b>20/100</b>
<b>Dimension (mm)</b>	<b>600 x 3000 *</b>

For sizes different from those mentioned above, please contact our Sales Department.



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## CHARACTERISTICS AND TEST METHODS

Reference standard: UNI EN 13164 "factory made extruded expanded polystyrene panels (XPS)"

Characteristic	Designation code element Thickness	Test Method
Thickness tolerance	Ti (l= 1; 2; 3)	UNI EN 823
Declared thermal conductivity (stabilised value weighted for a period of 25 years).	$\lambda_D$	UNI 12667 - EN 12939 UNI EN 13164
Declared thermal resistance (stabilised value for a period of 25 years).	$R_D$	UNI 12667 - EN 12939 UNI EN 13164
Fire behaviour	Euroclassi	UNI EN 13501-1
Compressive strength at 10% strain	CS (10/Y)i	UNI EN 826
Dimensional stability under specific temperature conditions	DS (T+)	UNI EN 1604
Dimensional stability under specific temperature and humidity conditions	DS(TH)i	UNI EN 1604
Viscous compression flow (creep)	CC(l= 1; 2; 3) $\sigma_c$	UNI EN 1606
Deformation under specific load and temperature conditions	DLT(i)5	UNI EN 1605
Water absorption for long-term immersion	WL(T)i	UNI EN 12087
Water absorption for long-term diffusion	WL(V)i	UNI EN 12088
Water vapour diffusion resistance factor	$\mu$	UNI EN 12086

# MALVIN

The performance characteristics reported refer to laboratory tests, the values may vary depending on the climatic conditions and methods of implementation. The user must check the suitability of the product for its intended use.



## MALVIN



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