

# GYP SUM.

## POLYSTYRENE (STYRO collection)

### Technical data sheet

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#### The material

Polystyrene is a material made from the processing of the styrene polymer and there are three different types:

- Expanded sintered polystyrene (EPS): expanded polystyrene beads, obtained by immersing styrene in water with the addition of pentane, are inserted into a mould in which water vapour is injected, which dissolves the surface of the spheres causing them to adhere.
- Extruded expanded polystyrene (XPS): the polystyrene beads are immersed in a worm extruder where they are melted; then gas under pressure is blown and the melt comes out in the desired shape through a die at the extruder's head.
- Anti-impact polystyrene (HIPS): obtained by chemical modification of styrene, it creates a very hard plastic able to resist shocks.

#### The product

Styro is a line of products in EPS, XPS and HIPS, suitable for architectural interior decoration. Each product is characterized by high quality standards: the density of the material of 40 kg/mc guarantees excellent detail finishing and good hardness. In addition, the dimensional tolerances are very small, which makes it easy to set up and guarantees a high level final aesthetic result.

The product types are as follows.

- Extruded profiles in XPS: these are shaped profiles with a smooth surface, ideal for creating frames between a wall and ceiling or for wall panels. They are obtained by extrusion and have an excellent surface finish.
- EPS moulded elements: these are decorative products with a three-dimensional bas-relief, ideal for the creation of frames between wall and ceiling, rosettes,

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shelves, columns, etc. The very fine dimension of the polymer bead and the high density of the final product allow very defined details to be obtained.

- HIPS (HD) moulded elements: this is a modified polymer moulding process, which makes it possible to obtain very hard and impact-resistant products, ideal for skirtings, chair rails, cornices for frames on walls at a height of less than one metre, edge profiles, etc. The surface finish is very smooth and the reproduction of detail is very fine.
- Products in polyurethane foam: these are fake beams and shelves, obtained by moulding high density polyurethane, which have an aesthetic appearance equal to natural wood. These products are sold pre-painted in different colours: walnut, oak, white.

The products arrive on site ready to use and, once laid and grouted on the joints, can be painted with water-based paint.

### **The project**

GYPSUM works alongside architects and designers to give the best technical support during the design phase, assessing the customer's request to provide the right construction suggestions of the artefacts, the possibility of splitting them into parts and the correct implementation.

Our technical staff will support the designer through 2D and/or 3D CAD drawings, as well as through physical samples.

Whether it is a single piece or a series production, we are able to guarantee a constant and high quality standard of the product.

### **Use instructions**

The products should be kept in a covered place, should be handled with care and should be laid shortly after being removed from the packaging.

A site check is necessary to verify that the conditions in place are suitable for the product's use, also taking into consideration the sector tolerances that affect production.

### **Note**

We are at your disposal for any further information.

GYPSUM reserves the right to modify the content of this sheet without notice.

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