

GYPSUM.

CAST STONE

Technical data sheet

Revision: 24/04/2020

Manufacturer: GYPSUM s.r.l.

The material

Product made with the mixture of a particular selection of binders and light aggregates, with the addition of specific additives, it is reinforced in the production phase with glass fibre and can be moulded into any shape.

Cast stone has a class A1 fire resistance.

The product

Cast stone is a material created with a mixture of carefully selected binders and light aggregates, to which additives are added to improve the mechanical characteristics of the finished product. Due to its features and its very light weight compared to traditional systems, this material is particularly suitable for the realization of non-structural architectural decorations of external facades, but it is also used for indoor and outdoor wall coverings, skirting, columns, etc. During the production phase, the product is reinforced with a particular glass fibre, which is the only reinforcement: not using any iron reinforcement excludes all related problems.

The final product is characterized by important mechanical performances of hardness, flexibility, low porosity and a light weight. It is possible to produce artefacts with a very thin thickness (from 9/10 mm) and, in the case of bulky elements, these are further lightened by inserting self-extinguishing polystyrene suitably shaped inside the casting, with a minimum thickness of about 13/15 mm.

The products are made by mould casting and the fineness of the material guarantees a faithful reproduction of every detail.

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The production cycle needs forced and controlled drying of the products in a special hot air dryer (about 50°C), in order to guarantee the final mechanical performance in a very short time.

The products arrive on site ready to use and, once laid and grouted on the joints, they must be painted with outdoor products. We recommend an elastomeric cycle.

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 for 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.

Technical features

The materials used during production are the result of lengthy research. For this reason every raw material and every additive are carefully chosen and purchased only from suppliers who can guarantee to supply consistent-quality materials.

The mass of the technical stone is about 1500 kg/mc.

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.