

Decorative Mouldings for Building Interiors OPENWOOD FIBROUS PLASTER

Openwood specialises in the design, fabrication and installation of high-quality decorative mouldings for building interiors. The Company is experienced in all commonly-available materials including glass-fibre reinforced gypsum, glass-fibre reinforced plastic, and fibrous plaster.

The Company works closely with architects, interior designers, building owners and others, bringing to each project a degree of efficiency, organisation and control, together with a high level of advice and guidance, rarely encountered among specialist subcontractors.

Description

Openwood's fibrous plaster is based on a traditional material consisting of gypsum casting plaster moulded into decorative or functional shapes; the mouldings being reinforced by means of jute scrim, wire netting or timber laths incorporated into the mould.

Openwood fibrous plaster can be used to produce simple or complex mouldings of any shape or size and be given a smooth or textured surface. It will faithfully reproduce extremely rich detail from the mould face and offers a very high-quality surface which is normally decorated after fixing. It can be easily cut and worked on site and is easily fixed; individual mouldings can be invisibly jointed on site to give a continuous surface.

The material is inherently fire-resistant with a nil rating for surface spread of flame.

The process, which is extremely versatile, can be used to produce products suitable for internal decorative applications for walls, ceilings, and similar areas. Openwood fibrous plaster is essentially for internal use and should not generally be installed in exposed positions or in locations where it might be subject to mechanical damage; it should only be used in situations where it will not be liable to impact or abrasion in normal use.

Typical products manufactured from Openwood fibrous plaster include ceiling cornices, covings, bosses, centre pieces and trims, wall panels and decorations, and a wide range of decorative shapes and other non-structural elements. The Openwood fibrous plaster process lends itself to both single and multiple production runs and the mould forms may be stored and re-used at a later date if required.



Authority

Plasters used comply with the Class A requirements of BS 1191:Part 1:1973, 'Specification for gypsum building plasters; excluding premixed lightweight plasters'.

Openwood PLC is certified to BS 5750:Part 1:1987 'Specification for design/development, production, installation and servicing'; and to ISO 9000.

Composition, manufacture

Openwood fibrous plaster consists of unretarded gypsum plaster which is reinforced by the addition to the mould of jute scrim, fine wire netting or timber in the form of blocks, strips or laths. The plaster is cast in moulds, which may be of timber, steel, rubber or other suitable material, to provide the required shape, finish and texture.

The set plaster consists essentially of calcium sulphate hemi-hydrate ($\text{CaSO}_4 \cdot \frac{1}{2}\text{H}_2\text{O}$).

Fixing grounds of timber, or stainless or galvanised-steel brackets etc may be incorporated into the mouldings during manufacture if required.

Shape

The process lends itself well to the production of complex shapes and will faithfully reproduce fine, rich surface detail; the use of flexible moulds allows the moulding of shapes with small returns or reverse curves.

After casting, the material may be shaped, cut, drilled or sanded as required.

Size

Although there are production constraints on the size of individual mouldings, in practice, site conditions and practical handling limitations are more likely to restrict maximum sizes than is production capacity.

Mouldings can be invisibly-jointed on site to provide larger elements.

Weight

The actual weight depends on the shape, thickness and complexity of the moulding; weights can be calculated on request against specific designs.

The approximate weight is 12kg/m^2 for 10mm thickness; voids can be introduced into larger mouldings to reduce the total weight.

