DESIGNVISUAL

ARCHITECTURAL FINISHES & INSTALLATIONS

DESIGNING AND SPECIFYING ARCHITECTURAL MOULDINGS

Design and Visual Concepts is a specialist manufacturer of Glassfibre Reinforced Gypsum (GRG) and Jesmonite building design features including wall panels, curved ceiling bulkheads, column encasements and suspended ceiling features for the flagship areas of a project.

These design features are typically cast using custom-made moulds that are uniquely manufactured for your project. The beauty of architectural mouldings is they can take almost any form you wish and are advantageous in delivering curves in multiple directions.

Curved footprints and profiles are a popular way to define the shape of rooms and buildings, but building curves can require innovative methods and materials, something we feel we are well qualified to deliver.

From an architectural standpoint, curves have the tendency to remove the edge from your line of sight and draw your attention to a focal point or a particular feature. It can also be highly useful in adding length to an area.

Our expert team provides advice and technical input for designing, specifying and installing architectural mouldings. **Please visit www.designandvisual.com**

WHAT CAN BE MOULDED?

Shapes: domes, spheres, coves that radii on plan, concave or convex forms with curves in two directions (side profile and plan), conical elements, boxes, and flat panels.

Surface finishes: smooth and coarse surfaces can be manufactured through a combination of model making and acid etching. Classic or modern geometric repeating patterns, in large or small scale are usually easily accommodated.

Applications: interior design ceiling and wall features, signature sculptural pieces, wall panels, modular feature tiles, ceiling feature boxes and lighting troughs.

DVC STANDARD PRODUCT RANGE

We have a selection of architectural mouldings available that includes column casings in a variety of diameters, modular wall panels/cladding and ceiling design details. These can assist architects and contractors by reducing installation time and cost, as well as providing consistent quality and finish, and reducing environmental issues and wastage. Please contact us for details.

MANUFACTURING MATERIALS

Glass Reinforced Gypsum (GRG) has benefit in being able to provide a monolithic finish, can be painted and decorated, is lightweight and strong in construction, Class 0 fire rated, and is well suited to bespoke interior design. Castings can be manufactured to accommodate audio speakers, sprinklers, alarms, cameras, lighting etc.

Jesmonite is a family of products that are composite materials, a combination of a reactive material base and a pure water based acrylic resin. The most popular material is called AC730. It is available in various colours and surface finishes and can be used both inside and outside of a building. Jesmonite AC730 is probably best suited to providing a lightweight alternative to natural stone.

Jesmonite Flex Metal Gel Coats are the latest development in Jesmonite materials. They are formulated using real metal powder to create the ultimate replication of metal in moulded materials.

Jesmonite products have been fire tested in accordance with BS EN 13501-1.

Below is a guide to specifying the best material for architectural design features.

	Glass Reinforced Gypsum (GRG)		Jesmonite AC730 / Flex Metals	
	Interior	Exterior	Interior	Exterior
Column encasements	✓		✓	✓
Moulded wall panels	✓		✓	✓
Modular feature tiles	✓		✓	✓
Ceiling feature boxes and bulkheads	✓			
Lighting troughs, reflectors, boxes etc.	✓			
Architectural and decorative mouldings	✓		✓	✓
Sculptural pieces and art			✓	✓

Jesmonite AC730

Jesmonite Flex Metal Gel Coats

Further information on material performance is available to download as data sheets from our website. **Please visit www.designandvisual.com**

SUSTAINABILITY

There are some notable benefits in sustainability when specifying architectural mouldings over some traditional building materials. These include:

- Minimal wastage of materials as all moulded items are cast to fit your specified dimensions.
- Solvent free & no VOCs - all Jesmonite / GRG products are water-based, non-solvent and contain no VOC's.
- Our raw materials are sourced from responsible suppliers, each with their own focus on improving environmental efficiency.
- We manufacture all our products in the UK for supply to the domestic market.
- Utilising lightweight, modular building materials reduces transportation and installation costs and large-scale lifting equipment is not usually required.
- Gypsum is highly durable and needs very little maintenance. If used properly, it can last for decades even in high-demand settings.
- Jesmonite offers excellent chemical stability, heat stability, and UV resistance, whilst being low in efflorescence and therefore maintenance, making it a prime long-lasting decorative material.

ACHIEVING EFFICIENCY IN DESIGN

Consistency is cost effective

When considering large-scale architectural moulding applications, each new aspect or change in design feature is likely to require a new mould, so it is advisable to strive for consistency in application, where possible, in order to minimise origination costs.

- Rationalise multiple changes in design
- Incorporate repetition
- Integrate with plasterboard for larger flat areas
- The more a mould is utilised, the more cost effective the project is likely to be

Consider finishes on top of a GRG substrate

It is possible to apply decoration on top of cast GRG sections to broaden the scope of surface finishes.
For example, polished plaster, which can be engineered to emulate polished marble, travertine or limestone.

Specify a stock colour or finish in Jesmonite

In most instances it is possible to colour match Jesmonite to a RAL reference of your choice, however there is already a good selection of colours available in the AC730 range. Using these is always faster and more cost efficient than a bespoke option. See our website for more details.

Employ a regular fixing system for moulded panels

If your building's supporting blockwork walls are sufficiently flat we can use a hook & rail type system to mount directly on to that (e.g. NVOLPE System NV3). Alternatively an SFS stud & track system can be used as framework to hang architectural panels from, with the same hook & rail system.

Panel joins

If specifying Jesmonite, architects will need to design in a 'feature joint' between panels, as joints cannot be filled on site after, as with GRG. Simple butt joins and overlapped joints have been used successfully in the past. Colour matched soft point mastic can also be used.

GET IN TOUCH

Design and Visual Concepts has been working with GRG and Jesmonite materials for over 10 years, turning architects' visions into practical builds and installations. From initial design guidance through to complete consultation, we provide total specifier support.

Our expert team provides advice and technical input for designing, specifying and installing architectural mouldings.

Our bespoke offering includes:

- Full take-offs and concise quotation schedules
- Design input and consultancy
- Stresses, loadings and fixings advice
- Typical fixing recommendations and in-depth site installation advice
- Product samples and colour matching
- Case studies

Email: **info@designandvisual.com**
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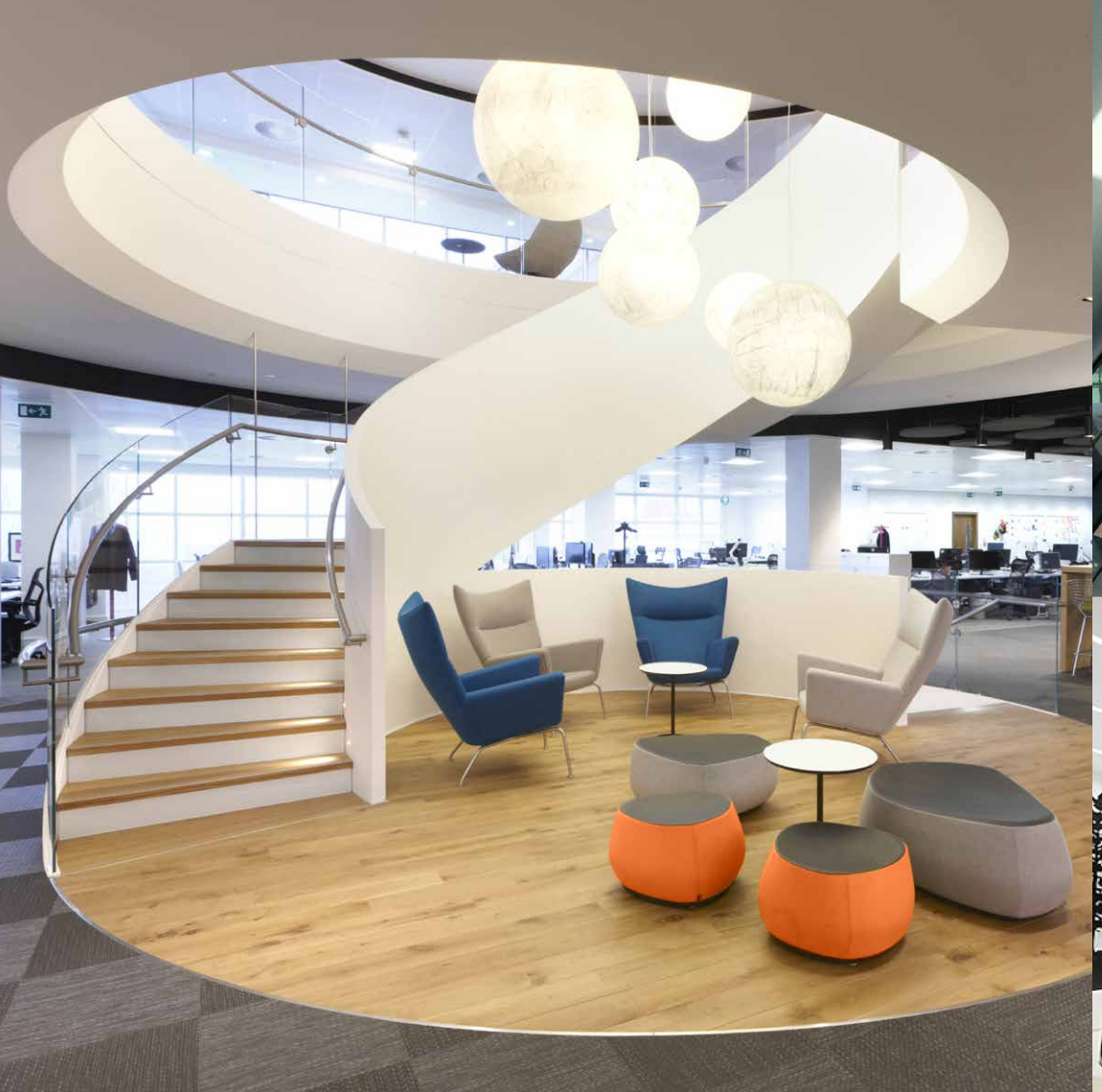
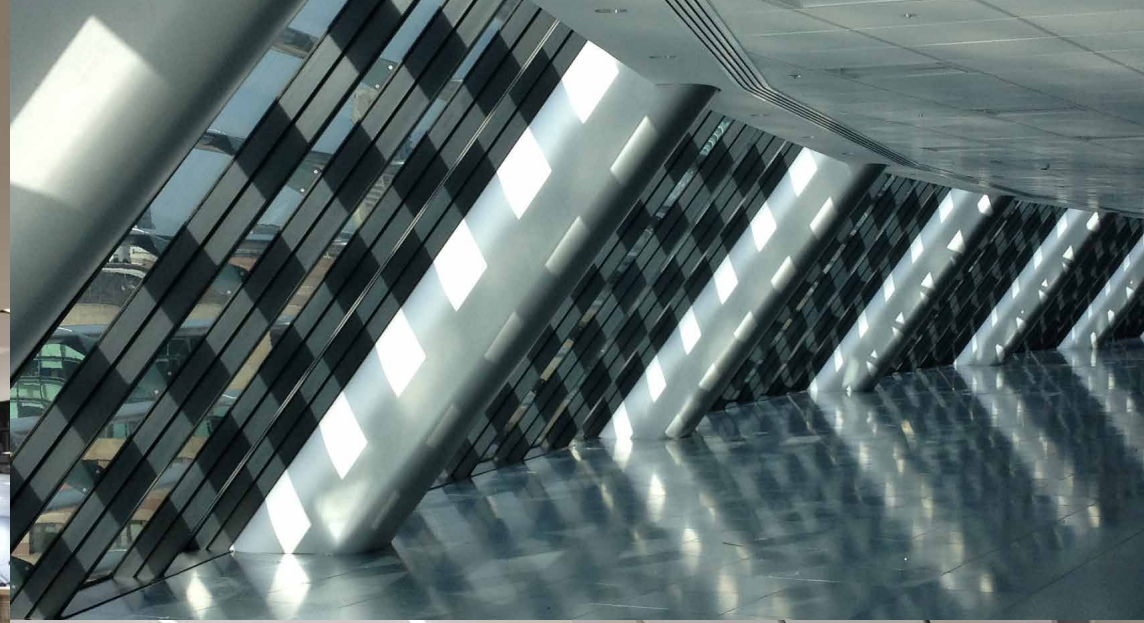
Visit: **www.designandvisual.com**





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