



Product Data Sheet

CHROMATICS RP - CHROMATICS RIGID PANELS

Introduction

The Glass Wall Company offers a range of fast-track rigid cladding panels. Chromatics Rigid Panels (Chromatics RP) are cast-in-place lightweight panels with a Chromatics glass face, available in any opaque RAL colour or printed with an image supplied by the client. Chromatics Rigid Panels can be hand cut to the required size.

Product Description

Chromatics Rigid Panels are a laminate of glass, colour layer and aluminium, supported as building panels with a cast-in-place lightweight board. These materials are permanently laminated into a shatter and moisture-proof cladding panel. The panel is adequately rigid to enable fixing with fast-track fixing systems. The glass face is supplied with polished arised edges and may be cut on site where the last edge is cut into a corner. The on-site cutting may be finished with specialist glass hand-dressing diamond blocks or, more slowly, with wet and dry sandpaper.

Possible Uses

- Fast glazing panels for interior fit outs
- Clean rooms
- Medical facilities
- Catering areas and kitchens
- Computer rooms (the composition defeats electronic surveillance)
- Low cost homes
- Corporate colour matching and branding
- Signage

Glazing Recommendations

Chromatics RP, which is a multi-laminate product, can be glazed in a range of tried and tested systems which are widely available for other types of laminated glass products for architectural applications. Glazing systems should be drained systems and sealants such as silicone should be neutral curing.

Interior Fixing Recommendations

A variety of fixing methods may be used to fix Chromatics RP including:

- lift-up and drop-in trims,
- glazed into glazing beads, where the edge is hand cut to the appropriate profile, or
- bonded using proprietary building adhesives applied in horizontal bands - see Sika technical sheet.

CHARACTERISTICS

Glass types:

- Most forms of stock sheet glass, including clear Float, Optiwhite or other low iron, Body Tinted, many reflective glass substrates and rolled patterned glass.

Glass gauge:

- 4mm, 6mm.

Panel types available (by thickness mm):

- Chromatics RP 24mm (4mm glass + 20mm lightweight board)
- Chromatics RP 72mm (6mm glass + 66mm lightweight board)

Sizes:

- Maximum size of Chromatics rigid panels is 3000 x 1300mm.

Panel weight:

- Chromatics RP 24mm 11kg/m²
- Chromatics RP 72mm 18.5kg/m²

Fire rating:

Chromatics RP has a "Class A" fire rating from both sides, in accordance with BS476 parts 6 & 7. Chromatics RP with a "Class O" fire rating from both sides can be available to special order, subject to volume.

Wind loading:

Chromatics RP can be used as a monolithic glazing panel to meet individual building requirements for wind loading as required by the building engineers, subject to volume.

Light transmittance:

- Zero

Impact resistance:

Chromatics RP has been exhaustively tested for its performance in a variety of impact conditions and meets BSEN 12600 1(B)1 (indicative test using 4mm glass).

Thermal Safety

The unique patented characteristics of Chromatics RP offer the architect and builder a stockable and cuttable glass panel, which is resistant to thermal shock, without the need to toughen.

As with all Thermal Stress evaluations, all characteristics of the locality and building model must be taken into consideration when assessing the Calculated Temperature Difference.



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Cutting

Chromatics RP ("Class A") may be cut using hand tools. The panel is cut with a knife and the glass then cut using a conventional glass cutter.

Chromatics RP (indicative "Class O") incorporates an aluminium layer on the back surface which assists in the resistance of fire. This aluminium layer prevents simple hand cutting of stock sheets, requiring the panel to be machine cut before the glass is hand cut with a glass cutter.

Availability

Chromatics RP is manufactured in the UK by The Glass Wall Company Ltd.

Orders should state gauge, colour, quantity required and delivery requirements. If you have particular requirements, we recommend you contact our Sales Department.

Colour Range

Plain Colour

Consistently reproducible colours are available to RAL colour specifications.

NB. Where white or pastel colours are required, we recommend you specify Optiwhite or other low iron substrate.

Print Finish

Chromatics RP may be produced to incorporate clients' supplied digital images. It is important to discuss with The Glass Wall Company the quality of the print required. The size, quality and resolution of the digital origination dictates the final quality of the image that can be reproduced on the Chromatics panel.

CLEANING

Chromatics RP should be cleaned using only warm soapy water and a clean, soft cloth. Abrasive and or caustic cleaning agents must never be used.

Quality

Glass by its very nature will have minor scratches and blemishes on the surface which on clear glass would be invisible. Our coating process gives the glass an opacified backing, which in dark colours may allow these inherent marks to become more visible.

All glass is supplied to the GGF standards which states that "Minor scratches and/ or blemishes not visible from a distance of 2 metres from the glass, in natural daylight conditions, are acceptable."

We produce to architectural standards.

Further Information

Should any further information be required regarding the Chromatics range of products, please contact The Glass Wall Company Ltd. on +44 (0)844 800 9260.

Thermal Insulation

Chromatics RP 24mm has a 'U' value of 0.95W/m²K.

Chromatics RP 72mm has a 'U' value of 0.33W/m²K.

Due to the versatility of the Chromatics process, it is possible to achieve high performance insulation panels with minimal thickness and weight.

Safety

Should a Chromatics panel be broken in a glazed situation, it will in most circumstances remain in place until it can be removed safely and a new panel installed. The panel will remain watertight and it is unlikely that any harmful fragments of broken glass will fall as the glass surface is held in place on the backing laminates.

Policy

It is the policy of The Glass Wall Company Ltd. to carry out stringent quality control.

In addition to in-house testing, The Glass Wall Company Ltd. also engages independent institutions such as Yarsley Laboratories, ICI, Pilkington Technical Services, Wintech, UV Tests and Fire Research Laboratories, Warrington.

This data sheet gives a general description of the product and materials. It is the responsibility of the user to ensure that any and all use of the product is appropriate for any particular application and that such application complies with all the relevant local and national legislation, standards, codes of practice and other requirements.

Architectural Specification should state:

Chromatics RP comprising 4mm clear float glass (or low iron glass), having an opaque, coloured organic coating, free from heavy metal and volatile organic content in RAL..... applied to the 2nd surface of the glass, the final surface being a rigid lightweight board, 24 mm thickness.

The foam backing-board will be protected by a permanently bonded foil vapour barrier. The opaque, coloured coating will be free from pin-holes, will be fully reproducible, will not fade or discolour, will be resistant to scratching, remain stable under extremes of temperature and be resistant to UV degradation.

The composite panel will have a 'U' Value of 0.33 W/m²K and will comply with BSEN 12600 1(B)1.

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