



## **CHROMATICS RIGID PANELS - DATA SHEET**

### **INTRODUCTION**

Fenestration Ltd 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 arrised 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**

Clean rooms  
Medical facilities  
Canteens and kitchens  
Training rooms  
Escalators  
Lift cars  
Computer rooms (the composition defeats electronic surveillance)  
Low cost homes  
Corporate colour matching and branding  
Signs

### **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:**

Stock sheets:

- 6mm glass: 2540 x 1220mm
- 4mm glass: 2440 x 1220mm (changing to 2540 x 1220mm in Spring 2008)

**Panel weight:**

- Chromatics RP 24mm 11kg/m<sup>2</sup>
- Chromatics RP 72mm 18.5kg/m<sup>2</sup>

**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.

**THERMAL INSULATION**

Chromatics RP 24mm has a 'U' value of 0.95W/m<sup>2</sup>K.

Chromatics RP 72mm has a 'U' value of 0.33W/m<sup>2</sup>K.

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.

## **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 Fenestration 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.

## **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.

## **FIXING METHODS**

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.

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

## **POLICY**

It is the policy of Fenestration Ltd. to carry out stringent quality control. In addition to in-house testing, Fenestration Ltd. also engages independent institutions such as Yarsley Laboratories, ICI, Pilkington Technical Services, Wintech, UV Tests, Florida and Fire Research Laboratories, Warrington.

This website 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.

## **SPECIFICATION**

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 2<sup>nd</sup> surface of the glass, the final surface being a rigid lightweight board, 20mm thickness.

The foam backing-board will be protected by a permanently bonded foil vapour barrier.

The composite panel will have a 'U' Value of 0.33 W/m<sup>2</sup>K and will comply with BSEN 12600 1(B)1.

Allen Walker. Coatings Technology  
07776 235 171  
allen.walker @toughcoat. co.uk

Patricia M Wilcock Glass Technology  
07872 379 027  
patriciawilcock@btconnect.com

## **FURTHER INFORMATION**

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