



CHROMATICS COLOURED LAMINATED GLASS – DATA SHEET

INTRODUCTION

Fenestration Ltd offers a new generation of glass-to-glass opaque coloured laminates, available in any opaque RAL colour or printed with an image supplied by the client, called Chromatics CL.

PRODUCT DESCRIPTION

Chromatics CL is made by bonding together two plates of Chromatics CS (see Chromatics CS data sheet) using commercial adhesive systems.

A process is being introduced in 2008 where two sheets of glass with Chromatics coating are bonded using EVA in an autoclave. This offers an opportunity of assembling panels with colour or print on both sides.

Because the lamination uses a proprietary adhesive, the laminate can be assembled by installers from the feed stock of Chromatics CS.

POSSIBLE USES

Screens
Partitions
Balustrades
Smoke baffles
Low-level glazing
Conservatories

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:

- 9mm and 11mm.

Sizes:

- 2440 x 1220mm (changing to 2540 x 1220mm in Spring 2008)

Panel weight:

- 9mm glass substrate 21kg/m²
- 11mm glass substrate 26kg/m²



Fire rating:

N/A – non-combustible.

Wind loading:

N/A

Light transmittance:

- Zero

Impact resistance:

A laminate of two sheets of glass adopts the impact resistance characteristics of either surface. Where the laminate is assembled using two sheets of Chromatics Coloured Stock, the impact resistance will be enhanced by the other materials within the laminate. Impact tests are currently being assessed for adhered laminates and will be undertaken for EVA laminate when it becomes available in 2008.

THERMAL SAFETY

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

As with all Thermal Stress evaluations, all characteristics of the locality must be taken into consideration when assessing the suitability of Chromatics CL.

THERMAL INSULATION

N/A

SAFETY

Chromatics CL offers unique safety characteristics because the glass, when broken, is retained by the lamination of the component sheet and is further enhanced by the laminate's ability to resist penetration by a sharp object or a human body.

COLOUR RANGE

Chromatics CL can be either the same colour on both sides or dual-coloured, having one side of one colour and the other side of a different colour. Alternatively, Chromatics CL can be specified with the colour coating on one side and a mirror finish on the other side. It can also incorporate print finish on one or both sides of the laminated panel.



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 CL 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 CL may be glazed in accordance with the recommendations appropriate for all commonly used laminated glass in architectural applications.

Exterior glazing systems should be drained systems and sealants such as silicone should be neutral curing.

INTERIOR FIXING RECOMMENDATIONS

The use of laminates in interiors for screens and balustrading demands fixing using proprietary fixing clamps or other bespoke systems. It is recommended that any exposed edges of the laminate are edged and polished.

CUTTING

Chromatics CL is a bespoke product that should be cut before it is laminated and finished on edging equipment.

AVAILABILITY

Chromatics CL 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 specifications should state:

Chromatics CL panels comprisingmm xmm float glass, each having either a silvered coating or a 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 an aluminium vapour barrier.

The aluminium surfaces, 2 & 3 of the composite laminate, will be bonded together using either an approved adhesive or EVA autoclave lamination. Overall thickness will be approximately 9mm/11mm.

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FURTHER INFORMATION

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