



Product Data Sheet

CHROMATICS CS - COLOURED STOCK SHEETS

Introduction

The Glass Wall Company manufactures the world's first cuttable, opaque, coloured glass cladding panel which has a high resistance to thermal shock to meet the requirements of architectural use. The Coloured Stock sheets, which are known as Chromatics CS, are available in any opaque RAL colour or printed with an image supplied by the client.

Product Description

Chromatics CS a laminate of glass, colour layer and aluminium permanently laminated into a shatterproof and weather-resistant stock sheet. The stock sheet manages the accumulation of solar heat gain without the need of toughening. The process results in a durable multi-laminate, glass cladding panel which can be cut to the required sizes from stock sheets.

Chromatics CS offers architects and designers a virtually unlimited range of design options, lighter structures, and shorter build times and maximises available floor areas.

Possible Uses

- IGUs and DG units
- Monolithic glazing units
- Clean rooms
- Medical facilities
- Catering Areas and kitchens
- Computer rooms (the composition defeats electronic surveillance)
- Low cost homes
- Corporate colour matching and branding
- Signs

Glazing Recommendations

Chromatics CS, 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 CS 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

Low-volume:

Chromatics CS may be cut using hand tools. The aluminium is cut with a knife and the glass then cut using a conventional glass cutter.

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, and, to special order
- 8mm and 10mm.

Sizes:

- Maximum Panel size of Chromatics CL is 3000mm x 1300mm

Panel weight:

- 4mm glass substrate 10kg/m²
- 6mm glass substrate 15kg/m²

Fire rating:

- N/A – non-combustible.

Wind loading:

Chromatics CS can be a surface finish to monolithic glazing panels or a component within a DG unit designed to meet individual building requirements for wind loading as required by the building engineers.

Light transmittance:

Zero

Impact resistance:

Chromatics CS has been exhaustively tested for its performance in a variety of impact conditions and meets BSEN 12600 3(B)3 (4mm) .

Thermal Insulation

N/A



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Cutting

High-volume:

A cutting tool for use on automatic cutting tables has been developed and is available to special order.

Availability

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

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

Safety

Chromatics CS 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.

CLEANING

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

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 CS 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.

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 Safety

The unique patented characteristics of Chromatics CS 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.

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 aluminium backing.

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 Labs, 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 CS is a laminate of mmglass, organic colour layer and aluminium permanently laminated into a shatterproof and weather-resistant stock sheet, 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 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.

(When incorporated in an IGU the aluminium surface will be surface 4).

The glass substrate will be annealed float and panels will be available from stock. Chromatics CS complies with BSEN 12600, 3(B)3.

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