



THE WORLD HAD NEVER SEEN OPAQUE ANNEALED GLASS SPANDREL PANELS. UNTIL NOW.

After many years of initial development by The Glass Wall Company, and a further two years of joint testing with Pilkington to verify its performance - almost 100,000 hours in total - a revolutionary new product called Chromatics is now available. It incorporates a process that brings exceptional performance to monolithic panels and it can be incorporated into Insulating Glazing Units (IGUs).

INTRODUCING THE CHROMATICS PROCESS

The unique Chromatics production process involves organic elements forming a molecularly bonded product that is a laminate of float glass, colour layer and metal. It is not a toughened glass and as a result the end product is the world's first cuttable, opaque, coloured glass cladding panel product. Chromatics has a significantly greater resistance to thermal fracture than float glass and is effectively shatterproof in that even if broken as a result of extreme point impact, the panel will retain its integrity, remaining intact, waterproof and functional until replaced.

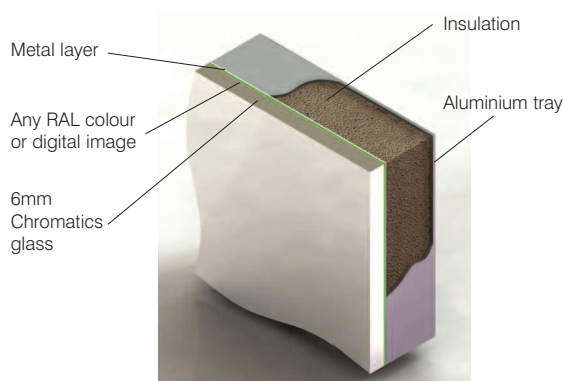
UNRIVALLED VISUAL POSSIBILITIES

The process allows an unrivalled depth and consistency of panel colour to be achieved across the entire RAL spectrum. In addition, for a totally stunning finish, any size of digital imagery, textural look, branding, or corporate colour requirements can be precisely and durably reproduced. There is no roller wave distortion, pinholes, or pigment and transparency variation with Chromatics, characteristics that are inherent in ceramic-coated toughened glass.

MONOLITHIC PANELS – REAL BENEFITS WITH CHROMATICS

Chromatics has been designed for both exterior and interior applications, involving new build and refurbishment, and a particular benefit is that by incorporating a suitable insulation material with Chromatics glass, it is possible to achieve U-values with a monolithic panel that are equal to or better than an IGU. In addition, a monolithic panel does not have an air space or gas-filled cavity, so there is no possibility of seal failure.

EXTERIOR CLADDING PANEL INCORPORATING CHROMATICS GLASS



A further benefit is that a monolithic panel utilising 6mm Chromatics glass weighs only 15kg/m² plus the insulation material weight. In comparison, an IGU incorporating two panes of 6mm will weigh in excess of 30kg/m² when fully fabricated. This has cost implications too, and in almost every application a Chromatics insulated monolithic panel will show cost advantages over an insulated IGU.

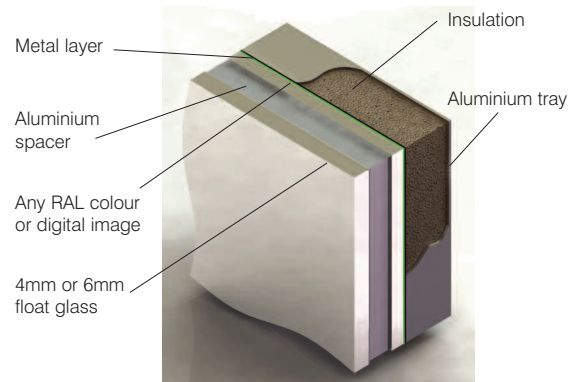
With the Chromatics process, the surface of the glass is not weakened during production. As a result it is possible with many applications to specify 4mm thickness rather than the conventional 6mm, resulting in greater safety and the potential to reduce the building's glazing skin weight by a third.

In such a situation the total cost of the cladding can often be recovered through the savings made on reduced material usage in the building structure. The glass types available are Clear Float, Low Iron and Body Tinted, along with a whole range of reflective glass substrates.

WHERE AN IGU IS SPECIFIED

In those cases where an IGU is specified over a monolithic panel to meet a particular building requirement, then subject to thermal stress analysis, Chromatics glass can be used with the Chromatics coating on surface 4. For the unusual circumstance where Chromatics is required on surface 1 or 2, CE marking is being actively appraised and it is anticipated that full approvals will be gained by June 2009.

EXTERIOR DOUBLE GLAZED CLADDING PANEL INCORPORATING CHROMATICS SURFACE 3 AND 4

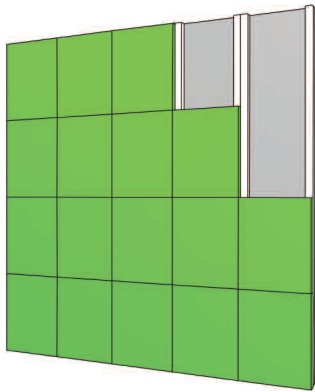


OUTSTANDING PERFORMANCE AS RAINSCREEN SYSTEM PANELS

Chromatics panels are particularly suited for use as the outer panel in a rainscreen system. Quite apart from being standalone monolithic panels and not part of a component build-up, they also have outstanding thermal safety characteristics and incorporate a cuttable epoxy layer on the back for total durability. Also, in many applications, subject to design and wind loading, it is possible to specify 4mm glass rather than conventional 6mm, offering the potential to significantly reduce the building's glazing weight – and construction costs.

They are shatterproof too, so during initial installation or for maintenance purposes, handling is much easier and safer.

A unique feature of Chromatics panels is the opportunity they offer to dramatically rejuvenate the exterior appearance of any building with exciting colour and imagery – which includes the replication of traditional finishes.



By using digital printing techniques, any natural stone, terracotta, porcelain, ceramic, brick – or even perforated metals – can be matched on panels for use at the higher levels where tactility is not a consideration. This is not only more cost effective than installing the original materials throughout, there is a significant weight saving advantage as well.

THE GLASS WALL COMPANY

SUPPLIERS OF SPECIALIST GLASS CLADDING

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