

Tempa CLAD

CERAMIC PAINTED PANELS



CERAMIC PAINTED TEMPAGLAS SPANDREL PANELS

TempaCLAD Ceramic Painted TempaGLAS Spandrel Panels are manufactured in accordance with BS 6206: 1981 (1994) Class A - Specification for impact performance for safety glass for use in buildings. TempaCLAD Ceramic Painted TempaGLAS Spandrel Panels can also be used in areas where glass must comply with the safety glazing requirements of BS 6262: Part 4: 1994.

DESCRIPTION AND APPLICATION

TempaCLAD Ceramic Painted TempaGLAS Spandrel Panels are coloured panels for use in curtain wall applications. They can be either insulated or non-insulated. Insulated TempaCLAD Panels can have pre-finished pressed metal tray or foil backings. TempaCLAD Panels are normally incorporated into a sealed double glazing unit, but can be supplied in single format. In all cases, TempaCLAD Panels must have a solid background, such as a block or brick wall, or insulated tray. Due to the nature of the paint process, TempaCLAD Ceramic Painted TempaGLAS Spandrel Panels CANNOT be used in vision areas, otherwise inconsistencies in paint thickness may become visible and apparent.

MANUFACTURE

TempaCLAD Panels are manufactured from tempered glass - the ceramic paint coating is fired onto the float glass substrate during the tempering process. The result is a durable scratch resistant, permanent coloured coating.

PRODUCT RANGE

TempaCLAD Panels can be manufactured from either a 6mm or 10mm float glass substrate. The glass substrate can be clear float glass or body tinted glass, such as grey, bronze, green or blue. Certain "toughenable" coated



glasses can also be used, such as some solar control reflective coated float glasses. Please contact our Glass & Glazing Division for any further details regarding possible permutations.

MAXIMUM AND MINIMUM

TempaCLAD Ceramic Painted TempaGLAS Spandrel Panels can be manufactured to any size between the following minimum and maximum sizes:-

6mm or 10mm float glass substrate

Minimum size - 100mm x 250mm

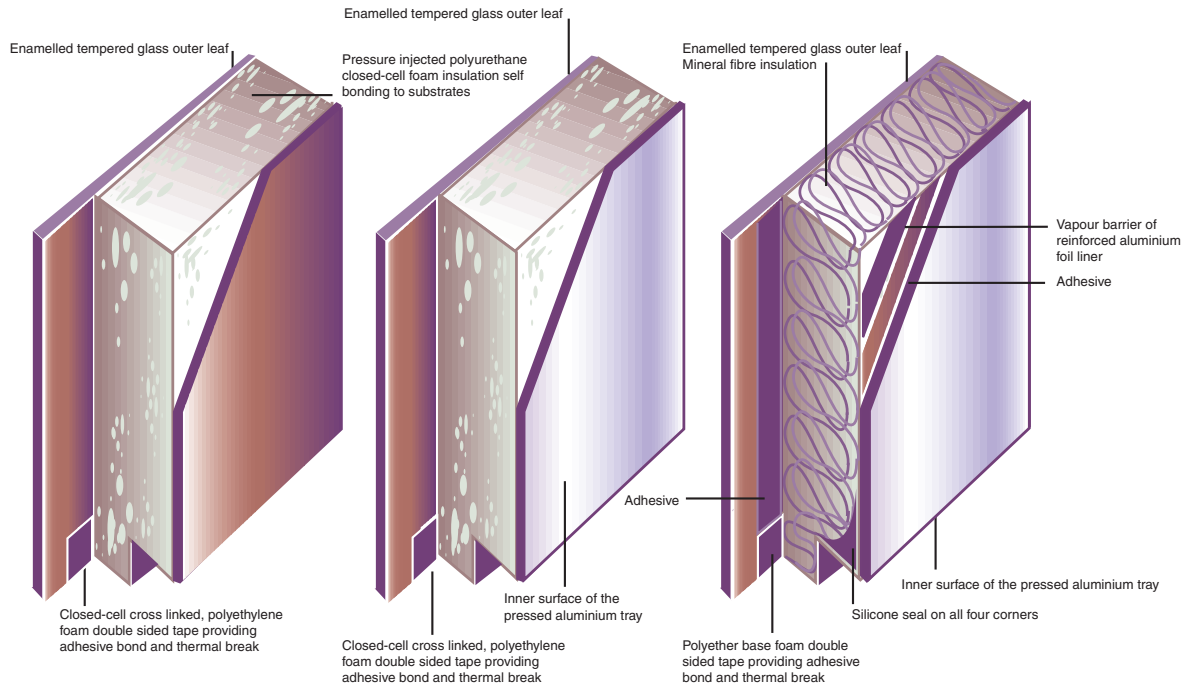
Maximum size - 2080mm x 4200mm

FLATNESS TOLERANCE

A degree of bow may be introduced to TempaCLAD Panels owing to the nature of the tempering process, but generally, this is kept to a minimum by utilising state-of-the-art plant and equipment.

Maximum acceptable bow is 2mm per metre. Bow is measured as the maximum difference between the true vertical line and the concave surface of the glass held in a vertical position at the quarter points.

INSULATED PANELS



EXTRUDED POLYSTYRENE

EXTRUDED POLYSTYRENE TRAY BACKED

MINERAL WOOL TRAY BACKED

VISUAL APPEARANCE

The tempering process, i.e. computer controlled heating and rapid cooling, will inevitably result in a product whose optical quality is not as high as annealed float glass. The process introduces high compression near each surface and compensating tension in the centre of each fully tempered panel. This process greatly increases resistance to stresses of a mechanical and thermal nature.

OPTICAL QUALITY

The tempering process reduces the surface flatness of glass panels and this is exacerbated when viewing images in reflection, particularly where body tinted floats and reflective coatings have been used in conjunction with ceramic painted surfaces to produce TempaCLAD Ceramic Painted TempaGLAS Spandrel Panels.

WIND LOADING

Reference to BS 6262 should be made prior to the selection of glass types and sizes that are to be subjected to wind loads. Although TempaCLAD Panels are much stronger than annealed glass, because the Young's Modulus of elasticity of both glass types is the same, the deflection characteristics, thickness for thickness are identical. As a consequence, it is necessary to restrict deflection to an acceptable visual degree, rather than design purely according to strength.

STANDARD COLOURS



Standard Colours - black, white, cactus green, mid grey, harmony bronze, graphite grey.

Non-Standard Colours are available on request - longer lead times will apply.

PERFORMANCE

TempaCLAD Ceramic Painted TempaGLAS Spandrel Panels are four to five times stronger than ordinary annealed glass of the same thickness.