Free your vision with our structural glazing.

Introducing Pilkington Planar™ Crystal Connect™

With invisible structural bonding technology.
Cordeel's Temse NV, Belgium
Design & build / general contractor: and supply of structural glass systems and a fixed structural glazing system. The Pilkington Suite of glass products, the Pilkington Planar™ system, continues to be at the forefront of its technology class. Dow Corning® TSSA which is incorporated into the glazing panel. The benefits are crystal clear.

Specifications

- Max panel Size: 1500 x 3600 mm
- Gap between fittings: 1530 mm
- Max panel thickness: 15.12 mm
- Max panel weight: 135 kg
- Glazed area: Maximum toughened or heat-strengthened laminates with PVB or SentryGlas® interlayers
- Fitting Size: 135 x 100 mm

Panels can be vertical, sagged or horizontal with support structure on the inside and underside of the glass face.

Material properties

- The Pilkington Planar™ Crystal Connect® development programme is advancing rapidly so please enquire about possible applications even if they are outside the current technical scope outlined above.
- The transparent silicone structural adhesive Dow Corning® TSSA which is incorporated into the Pilkington Planar™ Crystal Connect® system has been developed over 40 years of experience by Dow Corning in this field.
- With their respective expertise in the design and manufacture of point fixing glazing solutions and the creation of high-strength, durable silicone based adhesives, the Pilkington Architectural and Dow Corning teams were uniquely placed to join forces to create the new product, which provides specifiers and architects with a new option in point fixed structural glazing.

Achieve your vision

Pilkington Planar™ Crystal Connect® can be used in similar applications as our existing point fixed glazing system.

- Examples include: Porch posts and balustrades
- Infill and cladding panels
- Coloured panels and custom artwork applications
- Toughened and laminated glass

Most tested. Most trusted.

With every Pilkington Planar™ product, comes the reassurance of over 40 years of testing and development. To meet the ever-growing demands of new projects, the latest engineers supporting the Pilkington Planar™ system undertake a continuous and rigorous programme of testing. All custom applications are researched, developed and tested before they are launched into the marketplace.

With reference to Pilkington Planar™ Crystal Connect®, independent testing was undertaken by both the Pilkington Architectural and Dow Corning teams in order to explore the safe working loads, durability, sensitivity and application of the technology in a real-life glazing system.

Tests were conducted on both a small-scale load testing machine and also within facade vent load tests. The primary focus was on the failure modes for straight tension, shear and torsion, and most importantly for the combination loading mechanisms experienced by the adherent when attached to flexible point-fixed glass panels.

Failure modes were selected to cover a wide range of different glass combinations and sizes and also to the ultimate modes of failure. The system has been developed to ensure that the glass can be retained on the fitting under extreme conditions and subject to significant loading. The failure modes of the adhesive fitting technology have also been extensively studied and an “early warning” system engineered, such that the fittings will indicate the presence of unintended stress and loads should they enter the system.

Achieve your vision

With a proven track record in the most demanding applications, the Pilkington Planar™ system lets architects create a complete glass envelope for buildings, with façades on any plane. This means you can build highly attractive working environments with more light and a greater feeling of space. Support can be derived from glass Mullions, a conventional steel construction, the lightweight Pilkington Planar™ Tension Structure design or even a combination of all three schemes. They can be as subtle or as dominant as you require.

In addition to the recently launched Pilkington Planar™ Crystal Connect®; other options in the Pilkington Planar™ range include Pilkington Planar™ Topaz®. The world’s first fully flexed glass bonded fitting has increased capacity by an extent that larger and heavier Insulating Glass Units can now be easily accommodated.

Pilkington Planar™ Heavy Duty

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