



PILKINGTON

## **Pilkington Glass Consultants Information Sheet**

### **Pattern Distortion and Wire Drift**

#### **Pattern Distortion**

Pilkington Texture Glass is impressed with the pattern when the glass is in a semi-molten condition. During this process, the glass is very mobile and easily distorted, so there can be some misalignment of the pattern across the width of the glass as the rollers pull it through. This deviation is catered for in British Standard EN 572-5 'Patterned glass' and British Standard EN 572-6 'Wired patterned glass', which allow a deviation of 12 mm per metre width. Pilkington Texture Glass and Pilkington Pyroshield Texture conform to this specification.

#### **Wire Drift**

When the wires are inserted into Pilkington Pyroshield during manufacture, there can be some deviation of the wire from a square pattern. This deviation is catered for in British Standard EN 572-3 'Polished wired glass' and British Standard EN 572-6 'Wired patterned glass', which allow a deviation of 15mm per metre width. Pilkington Pyroshield conforms to this specification and is generally better, with a target to for wire deviation of less than 20 mm over a stock sheet of 1980mm width.

In addition to general wire drift, which can be either a linear distortion across the pane or bowing of the wires to form a slight curve, there are occasional 'pulls' in the wire, usually near to one edge of a stock sheet. These are also covered by the overall distortion limit of 15mm in a metre width pane.

#### **Alignment of patterns or wires in separate panes**

Patterns are repeated at approximately 600mm. It is therefore possible, as with paper, to roughly match the patterns on adjacent panes of Pilkington Texture Glass. However, this will not normally be done, unless specifically requested, because the manufacturer of the final cut size glass may not know the relative positions of the panes.

Because of the allowable deviation of the wires in relation to their spacing, it is not possible to guarantee alignment of the wires in adjacent panes of Pyroshield.