



Pilkington **Pyroshield™ 2** Safety Clear

A guide to cutting techniques

Product description

Pilkington **Pyroshield™ 2** Safety Clear is a clear, monolithic, wired glass that can be used in various internal or external applications suitable for vision areas where impact safety may be required. When suitably glazed, it can be used as part of

a screen or a door providing integrity only fire resistance for 30 minutes. (*60 minute test evidence may be available from third parties test evidence). Refer to the product literature for more details.

Safety

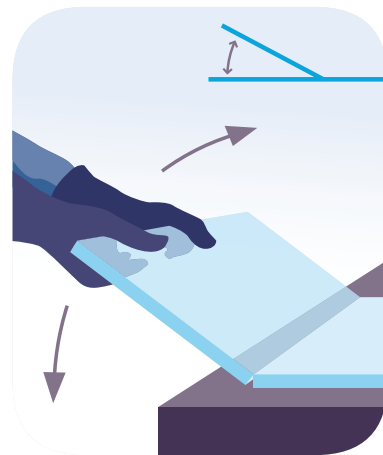


You should comply with national, local and factory requirements for personal protection equipment but as a minimum we recommend an approved type of cut resistant overall, safety boots, heavy duty gloves, wrist guards and safety glasses.

Hand cutting

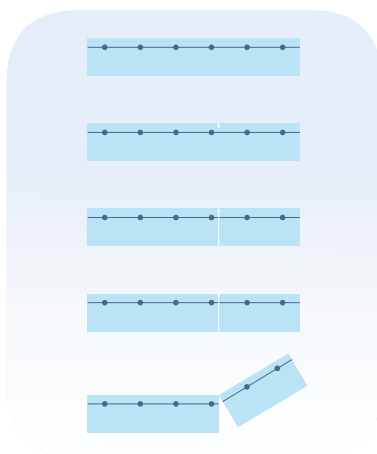


Score in a continuous and uniform depth using a cutting wheel lubricated with cutting oil. Run the cut along the score by flexing the plate by hand or with glass pliers.

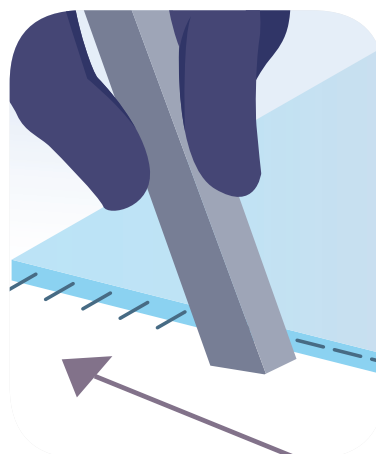


Weaken the wires by carefully moving the cut plate alternately up and down in a controlled manner to avoid damage to the top and bottom edge surfaces.

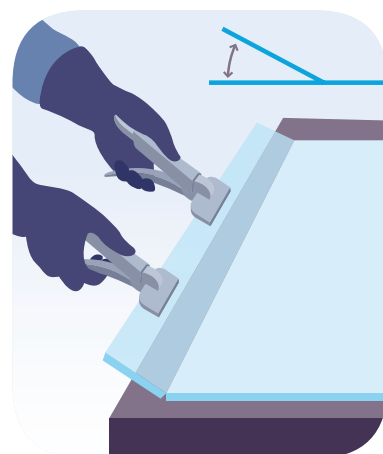
Cutting a narrow strip 75 - 100mm wide



You may find that the position of the wire within the glass is closer to one face of the glass than the other. Flexing the glass where the distance between the wire and the glass face is least, may help reduce the risk of edge crush.

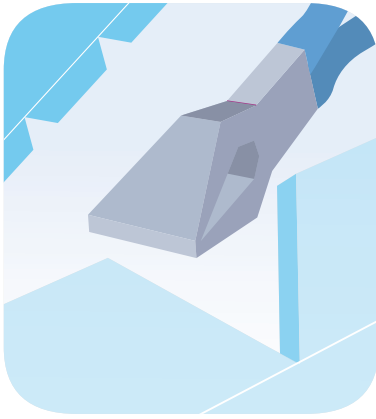


The protruding short wires can be folded over flush by running a metal tool or special roller tool down the edge of the glass.

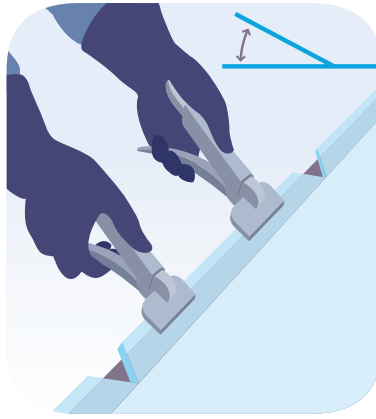


Score the glass as before and run along the cut with glass pliers. Use a suitable hand tool to assist in gripping the glass when snapping out.

Cutting a narrow strip approx 25 mm wide

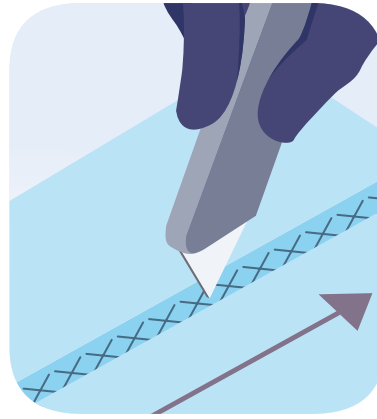


First, score as before, then separate into sections by cutting "V" notches out of the strip.



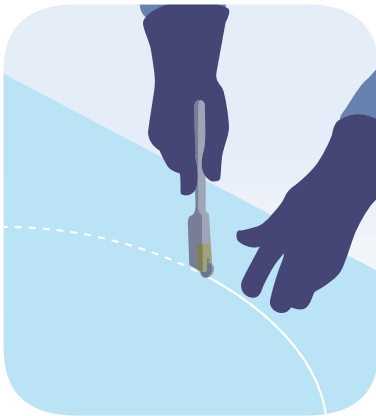
The sections are then removed separately using a hand tool.

Cutting at an angle to the wires



Cutting techniques are basically as before but the surface of the exposed wires should be scored with a sharp blade before snapping out.

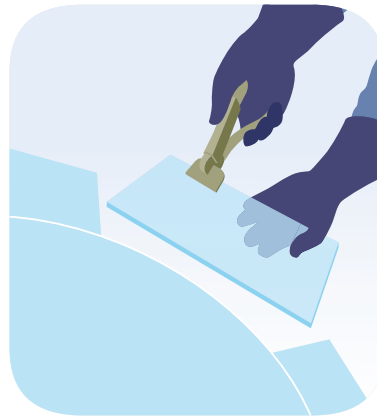
Cutting shapes



A template is placed under the glass and the shape traced with a cutting wheel.



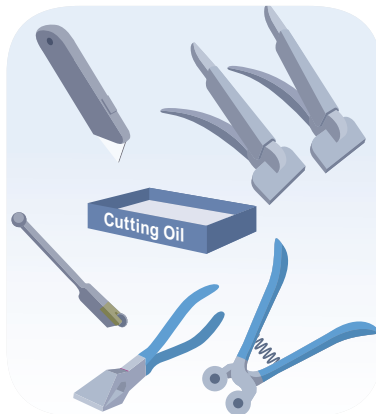
Excess glass is removed within an inch or so of the cut.



"V" notches are cut and the exposed wires scored with a blade. The strips are then removed separately.

Tools

The illustrations show the tools that you may need for cutting Pilkington **Pyroshield™ 2** Safety Clear.



Machine cutting

When cutting the glass by machine the wire should again be weakened before snapping out.

Summary

By practising these techniques, Pilkington **Pyroshield™ 2** Safety Clear can be cut to a consistently high standard of edge quality. For further information visit www.pilkington.co.uk/pyroshield2

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The Declaration of Performance for each product, including declared values, can be found at www.pilkington.com/CE