



Application Notes / Overview

Winshield - Shielded Windows

catalogue pages 23-25

Winshield is a range of EMC screened viewing panels for use with display types ranging from cathode ray tubes, liquid crystal displays, vacuum fluorescent displays or light emitting diodes. The types offered are detailed below and use a blackened copper or stainless steel mesh gauze to provide the EMC shielding.

P&P Technology are always happy to provide guidance on the best option for your application.



WF Shielding - Fully laminated windows in glass or plastic

Advantages - Good light transmission

Can be supplied complete with mounting gaskets

Surface treatment anti-reflective finish available

Tinted inter layers available for anti-reflective or contrast enhancement

Surface treatment scratch resistant finish available

Available with or without a step

Available with or without a silver painted busbar

Can be supplied as individual windows or in sheet form machined into smaller segments

Points to Note -

None

Applications -

Enclosure doors

Displays

Viewing panels

WG Shielding - Edge bonded windows in glass or plastic

Advantages - Cost effective

Good light transmission

Can be supplied complete with mounting gaskets

Surface treatment anti-reflective available

Surface treatment scratch resistant finish available

Custom sizes easily manufactured

Optional aluminium frame available

Applications -

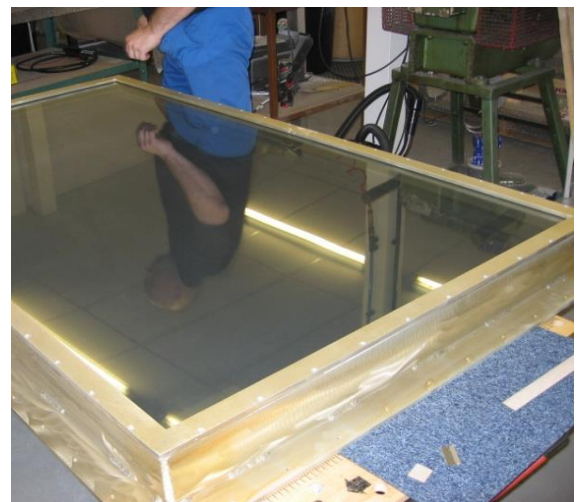
Enclosure doors

Displays

Viewing panels

Particularly suited to large enclosures & racks

MRI viewing windows



Points to Note -

Not suitable for stepped construction

Performance reduces as size increases



Application Notes / Overview

Winshield - Shielded Windows



WC Shielding - Cast plastic windows

Advantages - Robust construction for specialist applications

Good light transmission

Can be supplied complete with mounting gaskets

Surface treatment anti-reflective finish available

Surface treatment scratch resistant finish available

Stepped construction possible

Available tinted for contrast enhancement

Minimum thickness advantages over other windows

Points to Note -

Cost more than laminated windows

Process necessitates silver busbar termination

Applications -

Enclosure doors

Displays

Viewing panels

Gasket Options:-

Flying mesh windows generally bond both the window and the flying mesh to a convenient point on the equipment. The window and/or the mesh can also be gasketed using most gasket types. The mesh can be wrapped around a sponge material and clipped into position.



Metweave gaskets provide a flexible sealing option with good attenuation.

Extended mesh options (with or without foil busbar) are readily gasketed using K-Range cored meshes and twinstrip (KC Series).



WM Shielding - Woven copper & stainless steel meshes

Advantages -

Copper mesh can be conductively blackened to improve contrast

Allows customers to laminate their own windows

Can be supplied in pre-cut sheets or bulk

Applications -

Membrane switch panels

Points to Note -

Untreated mesh is best ordered by the linear metre

to avoid fraying & handling problems



P&P Technology are specialist manufacturers of EMI / RF shielding products. For application notes on the rest of our range, or one of our catalogues, please find our contact details below.

© P&P Technology Ltd • Unit 5 Cherry Tree • Wethersfield Road • Halstead • Essex • CO9 3LZ

Telephone +44 (0) 1376 550525

e-mail info@p-p-t.co.uk • www.p-p-t.co.uk