

4-20 panel adaptor

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Specification

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The Metal Technology Panel Adaptor System is an integral part of System 4-20 and may be used in situations where windows have to be incorporated into proprietary insulated panel systems.

The 4-20 Panel Adaptor System has been designed to be compatible with proprietary cladding panel systems such as Kingspan or Ward. It may be further adapted to suit other panel systems. However, Metal Technology's Technical Department should be contacted for further details and confirmation.

Among other advantages the Metal Technology Panel Adaptor system enables windows to be retrofitted into openings formed in the panelled walling avoiding the problems of co-ordination that often cause problems on such projects. The system is specifically designed to accommodate a variation in site tolerances.

The provision of a 1.6mm thick EPDM membrane at the head of the windows ensures that water and air cannot leak into the top of the window. This EPDM must be fixed to the cladding rail steel support section prior to the installation of the panels.

The provision of the EPDM membrane ensures that the construction of long ribbons of windows will not cause weathering problems. System 4-20 thermally broken opening sashes can be installed provided the specified size limits for that system are not exceeded and the manufacturing recommendations are strictly adhered to.

Installation

1. Prior to the installation of the insulated metal panels the EPDM must be applied to the cladding rail section at the head of each window in accordance with the instruction sheet contained in this document.

2. The insulated metal panels are installed by the panel contractor in the normal way ensuring that the EPDM membrane is not damaged or trapped in any way. The panel

contractor should ensure that the ends of panel/panel joints at head, cill and intermediate joints adjacent to windows are sealed in accordance with the panel suppliers recommendations. The panels should be installed level and with the maximum vertical tolerance on the window opening of +/- 5mm.

3. The windows are then assembled ready for installation, a cellular PVC support block is positioned in the top of the panel below the window, to provide a level surface to support the window. The window is then offered into position (with fixing lugs attached). The EPDM membrane should be pulled through the gap between the head and the panel. When the outer face of the window is exactly aligned with the outer face of the insulated metal panels the fixing lugs at the head and cill can be secured to the cladding rails. The EPDM membrane is then trimmed level with the bottom of the outer vertical face of the window prior to fitting the drip/pressure plate which clamps the EPDM in place. The joints between the insulated panels at the head and cill are then sealed with silicone, ensuring the specified drain holes are provided at the head.

