

INSULATED WALL SYSTEMS



Installation Guide

KS600/900/1000 AWP Wall Panel
Horizontally Laid

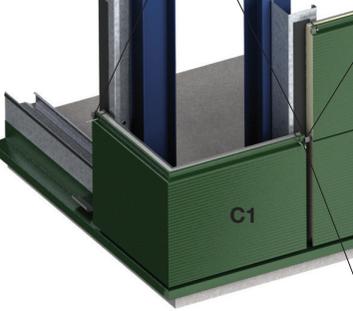


Note: Panels can be installed in either a tiered or coarsed sequence.

Visually check internal liner joint to ensure panels are joined fully. Check panel cover width module as works progress to ensure "creep" does not occur, particularly important when windows are incorporated into the elevation.

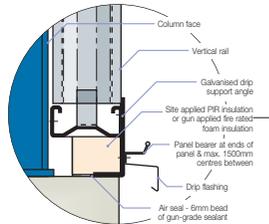
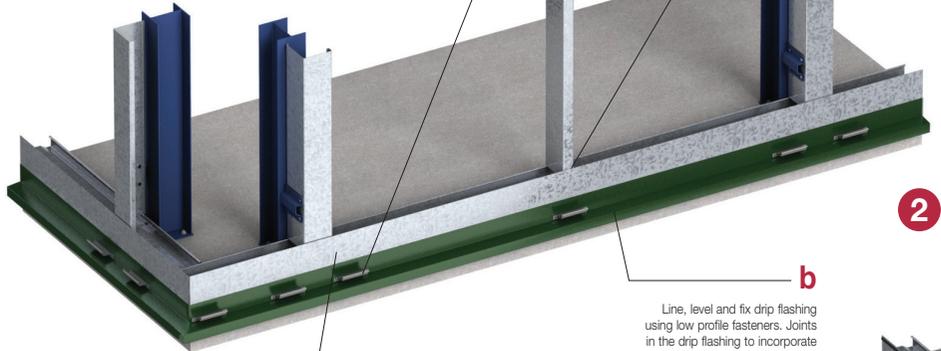
This is a generic AWP installation guide, however details may differ from project to project. Project specific construction details must be used. Please refer to the Kingspan Design and Construction Guide for further information.

m Install air seals and AWP filler at panel ends as previous. Refer to items j



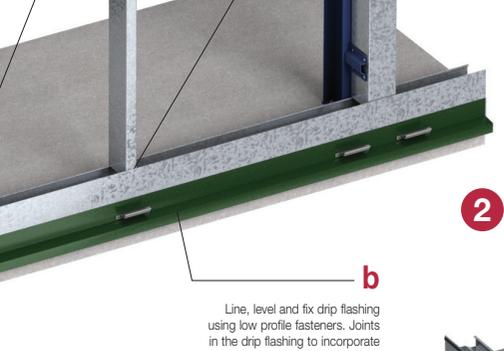
l Locate the preformed corner panel (C1) on panel bearers ensuring panel is evenly spaced and correctly positioned between the vertical joint centres and install main fasteners through the male joint

Note: Ensure steelwork is suitably lined, levelled and within tolerance. Min. bearing face for vertical joint steelwork is 130mm subject to joint option. Refer to Kingspan Design and Construction Guide. Min. bearing face for intermediate support is 50mm. Where long runs of integrated ribbon windows are installed in conjunction with horizontal laid architectural wall panels, the vertical panel joints should terminate above and continue below the window units. Contact Kingspan envirocare® technical services for shoe and deflector details. Gun-grade sealant type - non-setting butyl sealant - silicone sealant.



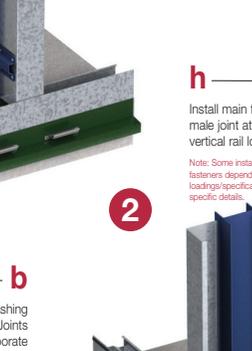
a Fit galvanised drip support angle using low profile fasteners. An air seal consisting of an unbroken 6mm Ø bead of gun-grade sealant is required between support angle and floor

1 Fit panel bearers, located maximum 150mm from panel ends and at maximum 1500mm centres. Ensure that bearers are accurately lined and levelled

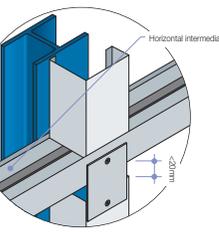


b Line, level and fix drip flashing using low profile fasteners. Joints in the drip flashing to incorporate butt straps sealed with two runs of gun-grade sealant

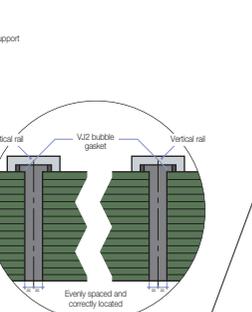
d Ensure vertical secondary steel face at horizontal and vertical interface is continuous to provide a support for the VJ2 EPDM bubble gasket air seal. Cover flashings required where gap is greater than 20mm



e A VJ2 EPDM bubble gasket is required at each vertical panel joint detail to provide an air seal. Apply gasket to the vertical steel member, ensure that it overlaps the vertical leg of the drip flashing

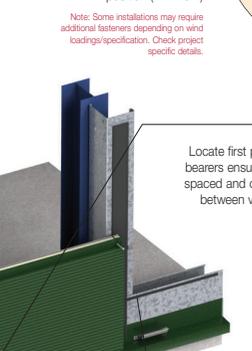


c Install main fasteners through the male joint at each panel end into vertical rail location
Note: Some installations may require additional fasteners depending on wind loadings/specification. Check project specific details.

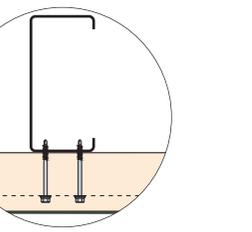


i Install 2 No. main fasteners at intermediate support position (minimum)
Note: Some installations may require additional fasteners depending on wind loadings/specification. Check project specific details.

g Locate first panel (P1) on panel bearers ensuring panel is evenly spaced and correctly positioned between vertical joint centres

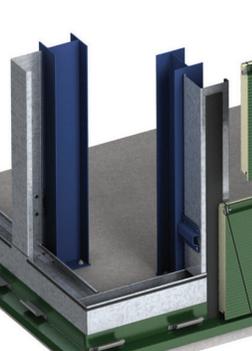


f Apply an unbroken 6mm Ø bead of gun-grade sealant to provide an air seal between back of panel and drip support angle. This air seal should meet the previously installed bubble gasket



j Bed an AWP filler in silicone sealant at panel ends, and run a gun-grade air seal across male joint

3 Lower the next panel (P2) into position ensuring that the factory applied weather seal is compressed and that the AWP filler remains in position. Ensure that the panel is evenly spaced and correctly positioned between vertical joint centres. Install main fasteners at each panel end and intermediate vertical steel member as previous



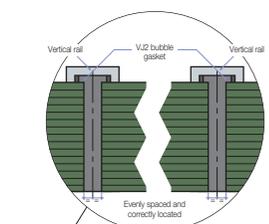
k Lower the next panel (P2) into position ensuring that the factory applied weather seal is compressed and that the AWP filler remains in position. Ensure that the panel is evenly spaced and correctly positioned between vertical joint centres. Install main fasteners at each panel end and intermediate vertical steel member as previous



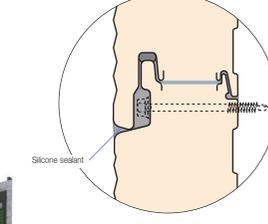
h Install main fasteners through the male joint at each panel end into vertical rail location
Note: Some installations may require additional fasteners depending on wind loadings/specification. Check project specific details.



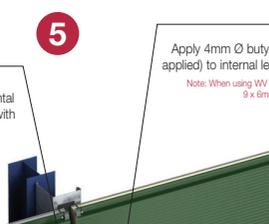
h Apply an unbroken 6mm Ø bead of gun-grade sealant to provide an air seal between back of panel and drip support angle. This air seal should meet the previously installed bubble gasket



m Install air seals and AWP filler at panel ends as previous. Refer to items j



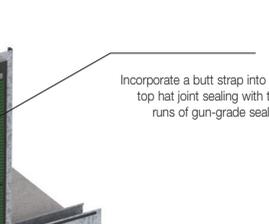
p Prior to installation of the top hat apply a silicone sealant, in horizontal panel joint at panel ends, in line with AWP filler



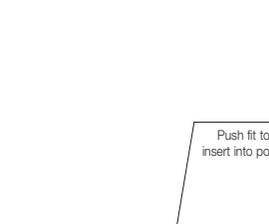
q Apply 4mm Ø butyl sealant (site applied) to internal legs of top hat
Note: When using WW (Wave) profile, use 9 x 6mm PVC foam tape.



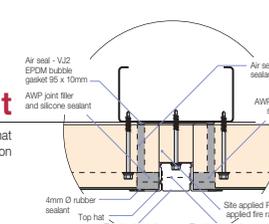
r Incorporate a butt strap into the top hat joint sealing with two runs of gun-grade sealant



s Place the top hat in to the vertical joint, aligned to the bottom of the panel. Fix through the insulation infill to the vertical steel member at max. 500mm centres, ensuring top hat is pulled tightly against panel to ensure effective weather seal. Care must be taken not to overdrive

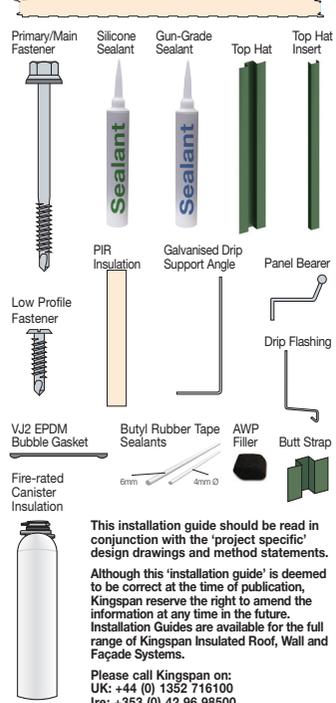


t Push fit top hat insert into position



o The gap between the panel ends is to be filled with PIR insulation board or gun applied fire rated canister insulation to a depth to suit the top hat section. If PIR board is used, ensure that continuity of insulation is achieved by filling any gaps with fire rated canister applied insulation
Note: There are several types of vertical joint options. This guide assumes that an Option A top hat detail is being used.

Components
KS1000 AWP Wall Panel



Note: For firewall specifications an internal fastener at maximum 250mm centres is required. Refer to envirocare® update EU38 revision A for further information. envirocare® updates can be found on our website at www.kingspanpanels.com.

This installation guide should be read in conjunction with the "project specific" design drawings and method statements. Although this "installation guide" is deemed to be correct at the time of publication, Kingspan reserve the right to amend the information at any time in the future. Installation Guides are available for the full range of Kingspan Insulated Roof, Wall and Façade Systems. Please call Kingspan on: UK: +44 (0) 1352 716100 Ire: +353 (0) 42 96 98500

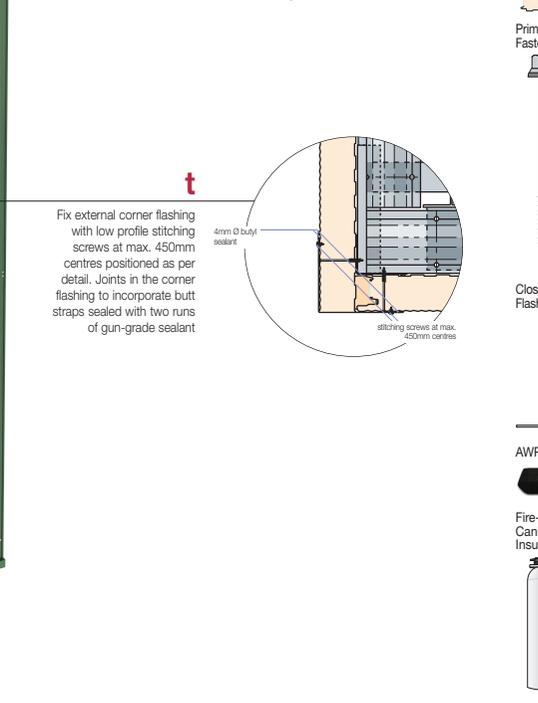
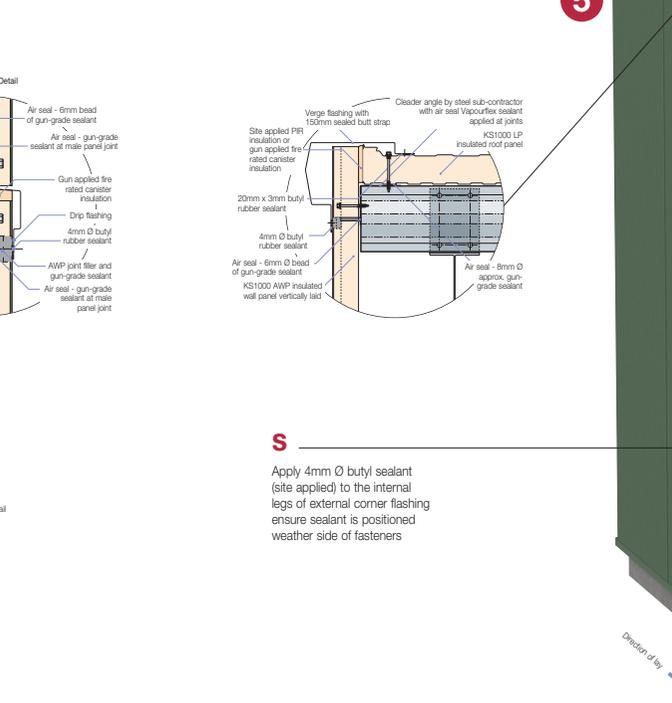
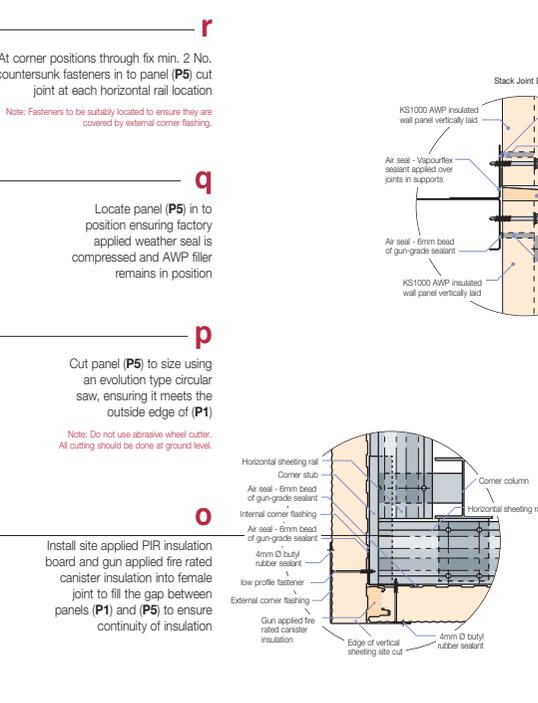
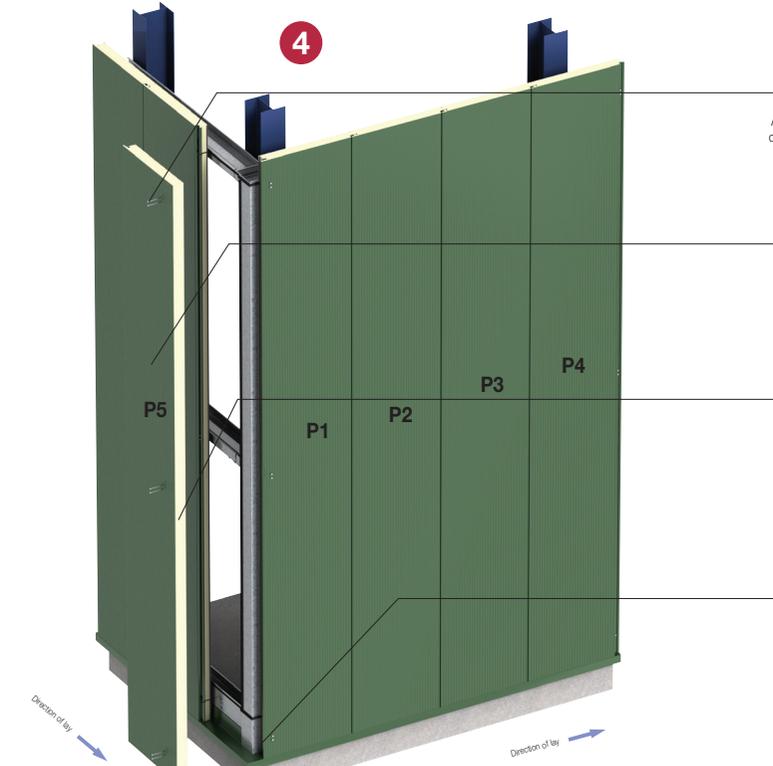
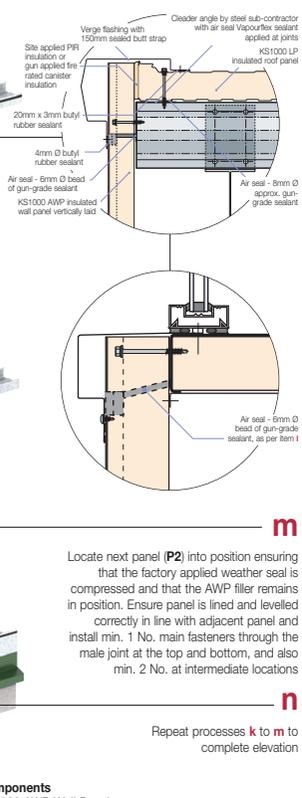
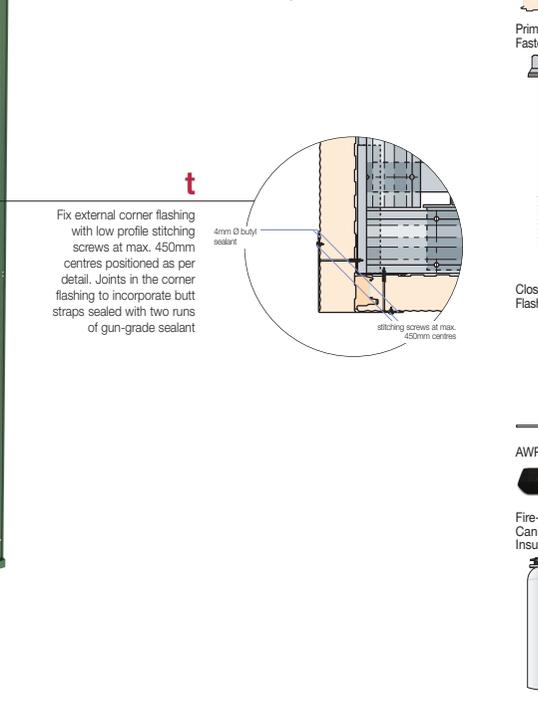
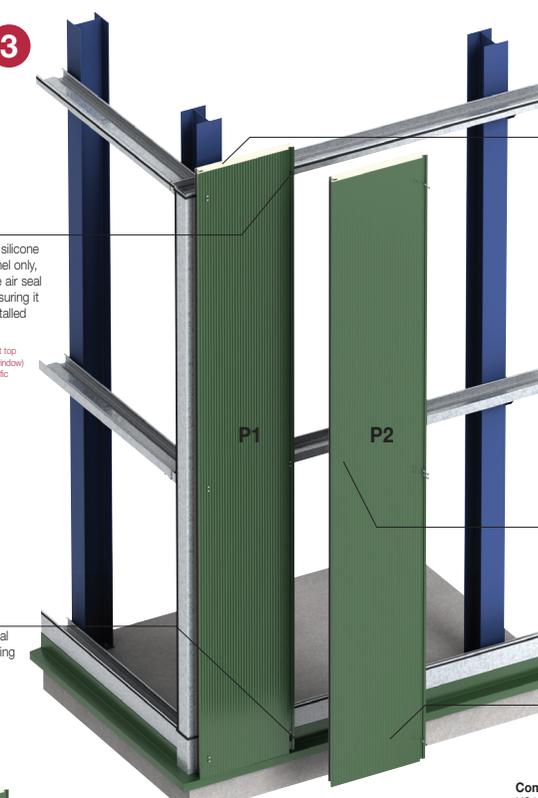
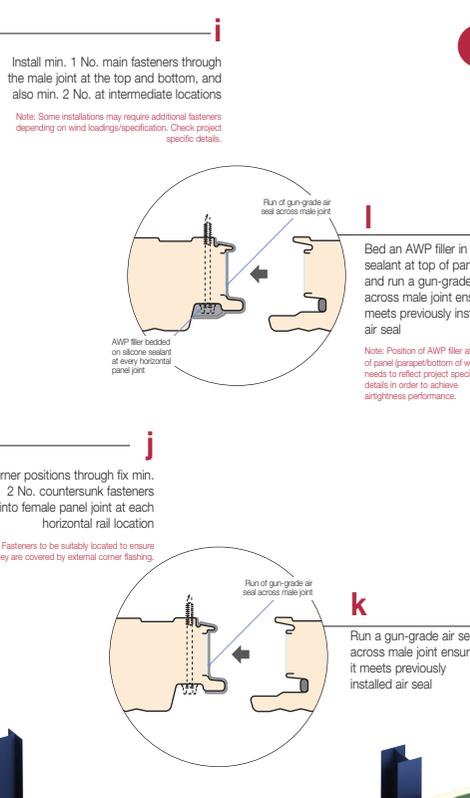
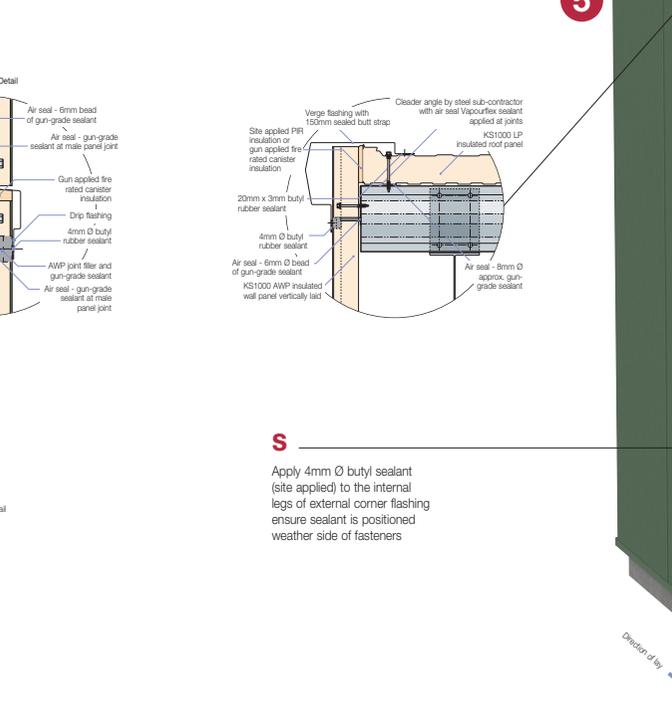
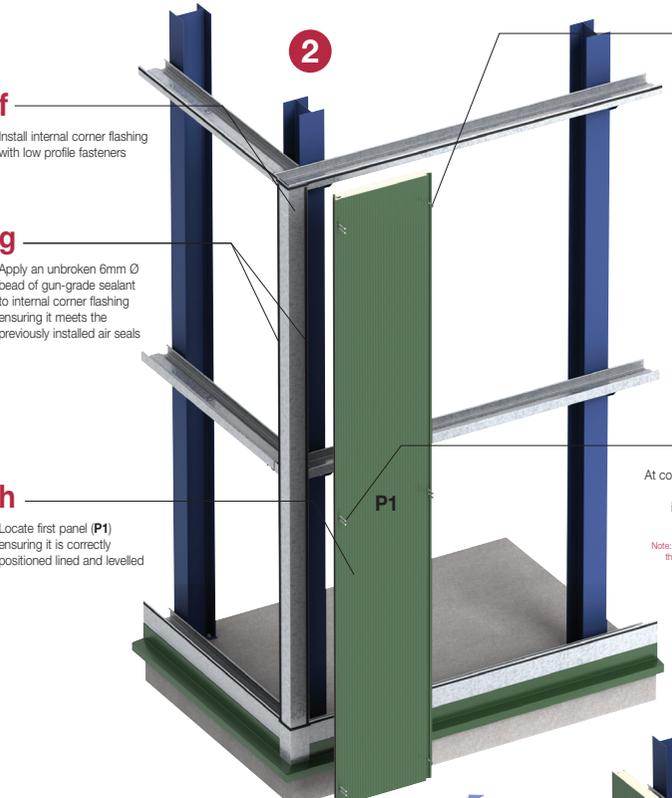
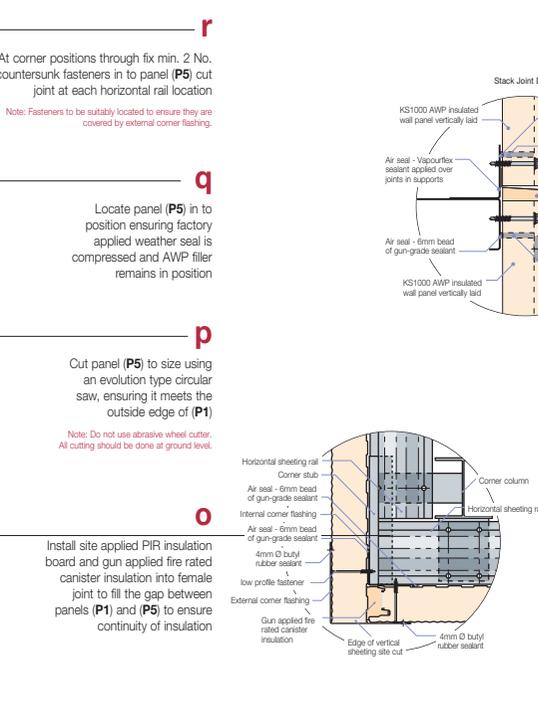
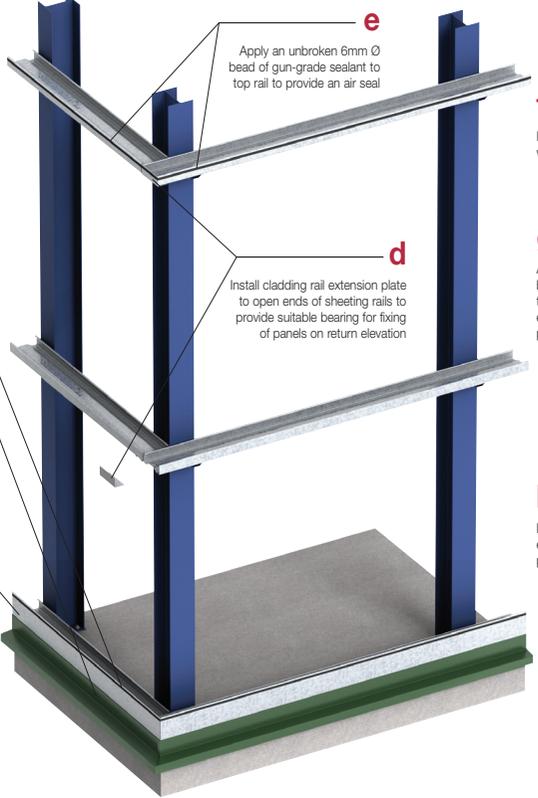
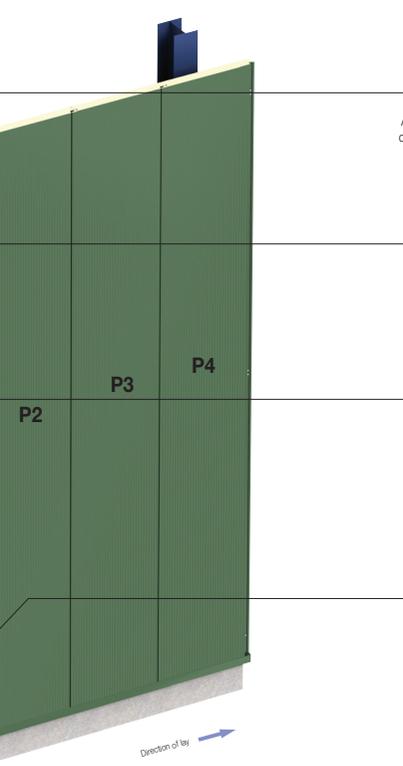
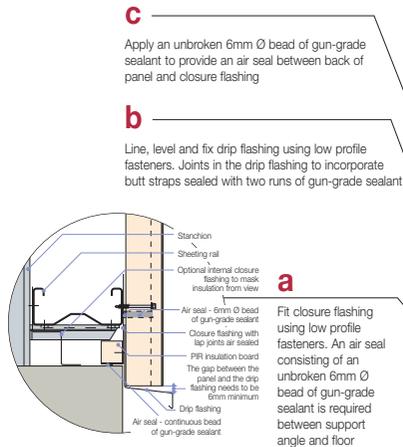
INSULATED WALL SYSTEMS

Installation Guide

KS600/900/1000 AWP Wall Panel
Vertically Laid



Note: Ensure steelwork is suitably lined, levelled and within tolerance.
Visually check internal liner joint to ensure panels are joined fully.
Check panel cover width module as works progress to ensure "creep" does not occur, particularly important when windows are incorporated into the elevation.
Joints need to be aligned correctly during installation to prevent the 'saw tooth' effect at the drip.
Gun-grade sealant type - non-setting butyl sealant - silicone sealant.
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Components
KS1000 AWP Wall Panel

Primary/Main Fastener	Counter Sunk Main Fastener	PIR Insulation	Gun-Grade Sealant	Silicone Sealant
Closure Flashing	Secondary/Stitching Screw	Butyl Rubber Tape Sealants	AWP Filler	Fire-rated Canister Insulation
Low Profile Fastener	External Corner Flashing	Drip Flashing		

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