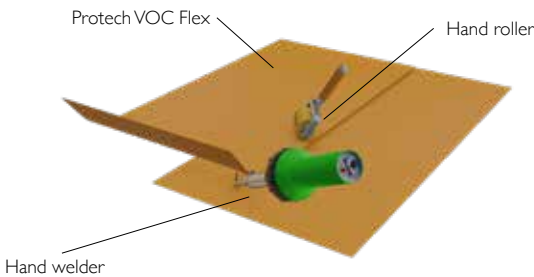


Protech VOC Flex

GAS PROTECTION

WELDING DETAIL

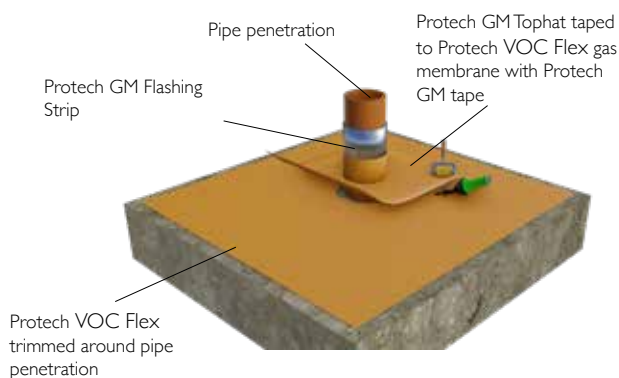


It is advised that VOC membranes that are installed below the slab should be welded, taped joints can be compromised by direct contact with some challenge chemicals found on VOC contaminated sites.

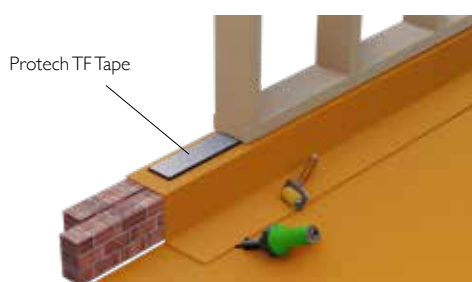
TAPE JOINT DETAIL



TOPHAT DETAIL



TIMBER FRAME DETAIL



METHOD

1. Lay roll of Protech VOC Flex gas membrane on a prepared sub base or Provoid venting mat ensuring all creases are removed and sheet is laid flat.
2. Roll out next sheet of Protech VOC Flex ensuring a minimum overlap of 50mm.
3. Insert the hand welder between the two sheets and fuse together using a hand roller whilst moving along the joint.
4. A weld width of between 30mm and 40mm is recommended.

Prior to welding the membrane, it is advised to test welds on membrane offcuts to determine correct heat setting and welding speed. Weld sample tickets (small test welds approx. 200mm to 300mm long) should be kept for independent verification.

METHOD

1. Lay roll of Protech VOC Flex Gas Membrane on prepared sub base or Provoid Venting Mat ensuring that all creases are removed and sheet is laid flat.
2. Roll Protech GM double sided tape 50mm in from edge of Protech VOC Flex Gas Membrane.
3. Roll out next sheet of Protech VOC Flex Gas Membrane ensuring a minimum 150mm overlap with adjoining sheet.
4. Remove the release paper from the Protech GM Tape and apply pressure to the top sheet of Protech VOC Flex Gas Membrane (This can be done with a long handled roller).
5. Ensure that the two sheets of Protech VOC Flex Gas Membrane are securely sealed.
6. Apply Protech Foil Lap Tape over membrane laps to prevent trip hazard/accidental uplift due to foot traffic.

METHOD

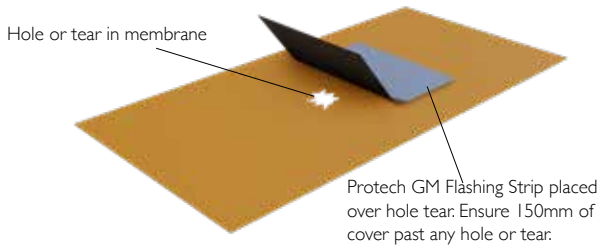
1. Trim Protech VOC Flex Gas Membrane around pipe penetration.
2. Fix Protech GM Tape to underside of tophat flange 20mm from edge, ensuring that there are no gaps between the strips of tape at each corner.
3. Remove the release paper from the Protech GM Tape and slide the Protech GM Tophat over the pipe and push down onto Protech VOC Flex Gas Membrane.
4. Ensure that the Protech GM Tophat is adhered to the Protech VOC Flex Gas Membrane.
5. Cut a strip of Protech GM Flashing Strip and stick to top of pipe penetration and Protech GM Tophat ensuring an overlap onto Pipe and Protech GM Tophat.

Protech GM Tophats are available in all popular pipe sizes including our standard 110mm, 130mm and 160mm and also bespoke sizes when required.

METHOD

1. Apply Protech TF Tape centrally on the gas membrane / DPC where the sole plate will be located.
2. Apply pressure to ensure a good seal using a roller or similar.
3. Any mechanical fixings that penetrate the TF tape and Membrane/ DPC will be sealed.

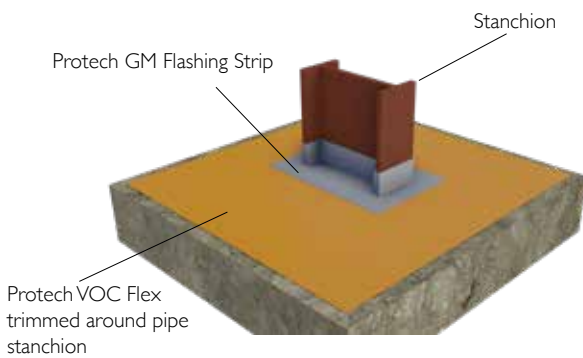
PATCH DETAIL



METHOD

1. Clean membrane with a damp cloth and wipe dry.
2. Cut a strip of Protech GM Flashing Strip, minimum of 300mm x 300mm, remove release paper and place over the hole or tear.
3. On larger holes, use several pieces of 300mm x 300mm Protech Flashing Strip, ensuring that strips are overlapped a minimum of 25mm with adjoining strip.

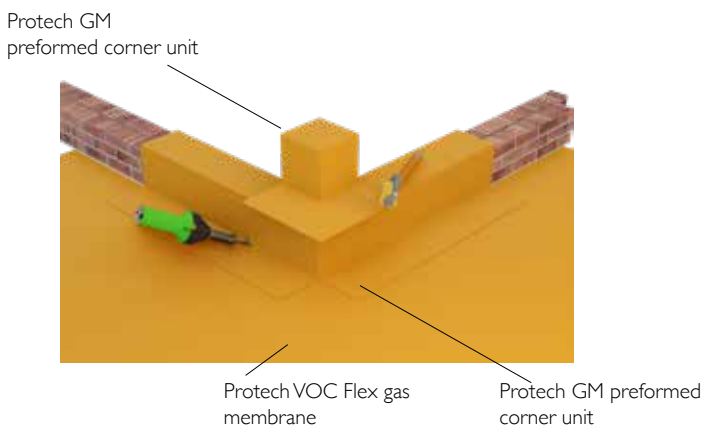
STANCHION DETAIL



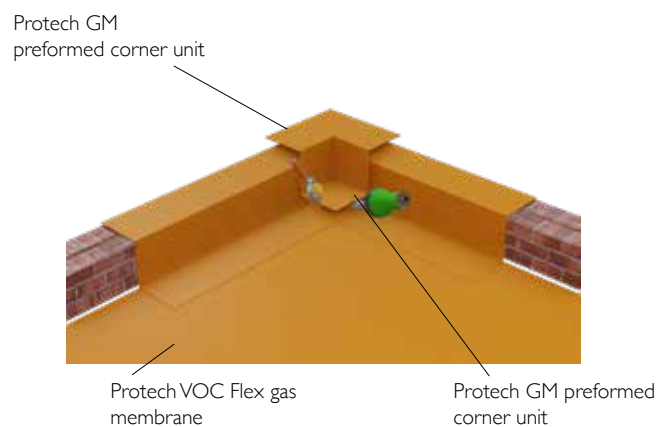
METHOD

1. Trim Protech VOC Flex Gas Membrane around stanchion.
2. Apply two coats of Protech Bitumen Primer to area of stanchion to be covered by Protech GM Flashing Strip.
3. Cut 300mm lengths of Flashing Strips and fold in half and apply to Protech VOC Flex Gas Membrane and stanchion.
4. Repeat the process around the entire stanchion until a gas tight seal is achieved.

EXTERNAL CORNER DETAIL



INTERNAL CORNER DETAIL



METHOD

1. Fix Protech GMTape to underside of Protech GM Corner 20mm from edge, ensuring that there are no gaps between the strips of tape at each corner.
2. Remove the release paper from the Protech GMTape and slide the Protech GM Corner over the edge and push down onto Protech VOC Flex Gas Membrane.
3. Ensure that the Protech GM Corner is adhered to the Protech VOC Flex Gas Membrane.
4. Cut a strip of Protech GM Flashing Strip and stick the the edges of Protech GM Corner ensuring an overlap onto Protech VOC Flex and Protech GM Corner.
5. Please note that an architectural cavity tray, in most instances, will need to be placed above the corner detail.

BS 8215, Design and Installation of DPCs, recommends that '3-dimensional shapes in DPC should be pre-fabricated' avoiding site fabrication.

The A. Proctor Group Ltd recommends the use of preformed corner units to achieve a gas tight seal.

Preformed corner units are a technically better solution for gas proofing and are also cost effective, due to the added time it takes to create similar details in situ.



Download a full Gas Protection brochure from our website...

www.proctorgroup.com

