



Damex FR Installation Guide



Purpose

Typical applications include being used as a vertical DPC or as a site formed, surface fixed, cavity tray to manage the downward passage of water in a cavity wall construction.

Tools Required

- Sheers, scissors or a sharp knife
- Surface cleaner
- Seam roller
- 600ml foil (barrel) gun
- Damex FR Non-Combustible DPC & Cavity Tray
- Stainless steel Pre-Formed Units (Optional)
- Stainless steel Fixings Strips (Optional)
- Suitable Fixings
- Damex FR Adhesive

Preparation

Ensure all surfaces are clean, dry and free from dust, oil, dirt and debris. Clean any non-porous surfaces with a suitable cleaner prior to installation.



Important Information

When building into the outer leaf of a masonry wall construction the Damex FR Non-Combustible DPC & Cavity Tray should be installed on a flat bed of fresh mortar, and any perforations in adjacent courses of masonry should be fully filled with mortar. To ensure mortar adhesion, as soon as possible after laying the Damex FR Non-Combustible DPC & Cavity Tray, lay at least one further course of masonry. The Damex FR Non-Combustible DPC & Cavity Tray should extend through the full thickness of the masonry wall, including pointing, applied rendering or other surface applied materials.

When used as a site formed cavity tray, the Damex FR Non-Combustible DPC & Cavity Tray can be either built-in to the inner leaf or surface fixed to the external face of the inner leaf depending upon the type of wall construction.

When surface fixing the cavity tray, the Damex FR Non-Combustible DPC & Cavity Tray should be sealed to the inner leaf using adhesive and permanently secured using suitable fixings and if required, a stainless steel fixing strip or strap. For typical details see Damex FR downloads section at www.damexfr.com or contact our technical team. To speed up or simplify installation of complex or awkward junctions (Corners, steel columns, changes of level, etc) an extensive range of pre-formed stainless steel units and flexible units are available).

All Damex FR Non-Combustible DPC & Cavity Tray to Damex FR Non-Combustible DPC & Cavity Tray joints, and Damex FR Non-Combustible DPC & Cavity Tray to pre-formed units joints should be overlapped by 100mm and bonded with adhesive.

Minimum spacing between Damex FR Non-Combustible DPC & Cavity Tray to Damex FR Non-Combustible DPC & Cavity Tray laps should be 900mm, i.e. adjacent cavity tray laps to be spaced at least 900mm apart. Where such laps occur at less than 900mm, back to back stop ends should be considered. Non-combustible weeps vents should be provided to cavity trays above openings and penetrations through the wall (such as sub-floor vents, ducts, or flues), at least two per opening at not more than 450mm centres. Please contact our technical team for more information.

Method of Use

If using them, start by placing all pre-formed corners and units into their desired locations. Then mark out the top edge of where the Damex FR Non-Combustible DPC & Cavity Tray will be applied to the substrate using a straight edge.

Apply an 8-10mm bead of adhesive a minimum of 5mm below the top edge of where the membrane is to be placed. Place the membrane onto the substrate and press into the adhesive once in the correct position. Use a seam roller to consolidate the bond, a small amount of adhesive should show from behind the top edge of the membrane. Mechanically fix directly through the Damex FR Non-Combustible DPC & Cavity Tray. Make sure to fix through the adhesive bond line as this will seal the penetration against water ingress.

A minimum of 1 fixing every 600mm should be used when fixing directly through the Damex FR Non-Combustible DPC & Cavity Tray, additional fixings can be installed as needed. If installing using fixing strips or strap, mechanically fix the top edge of the strip or strap to the top edge of the Damex FR Non-Combustible DPC & Cavity Tray. Not all holes need to be fixed through, providing one fixing is installed at least every 600mm.

Where Damex FR Non-Combustible DPC & Cavity Tray will be joined to itself, a pre-formed unit or stainless steel unit, an overlap of 100mm is necessary to ensure a sufficient bond. A preformed joint support can be used behind the membrane to increase strength if necessary.

Where two pieces of Damex FR Non-Combustible DPC & Cavity Tray or a pre-formed unit are to be joined, apply three 8-10mm beads of adhesive. One on the front edge of the lap, another a minimum of 100mm in from the first and a further bead in-between the two. Consolidate the adhesive using a seam roller. It is good practice for 2-3mm worth of adhesive to "creep" out from behind the membrane to enable a quick and comprehensive visual check. There is no need to paste or apply any additional adhesive over the top of the Damex FR Non-Combustible DPC & Cavity Tray. This may have a detrimental effect on performance.

The Damex FR Non-Combustible DPC & Cavity Tray can be left free to hang down the front of the inner leaf until such a time that the brickwork is being installed. Once at the stage of installing brickwork, apply a 2-5mm bed of mortar under the bottom edge of the Damex FR Non-Combustible DPC & Cavity Tray on top of the brickwork and apply a standard mortar bed on top. Continue to lay bricks as normal.

Damex FR products are manufactured to rigid standards of quality. No liability can be accepted for the information stated within this document. This information is published in good faith and believed to be complete and correct. Damex FR reserves the right to alter product specifications without prior notice. Please ensure site trials are conducted to ensure product suitability & compatibility.