

# FIXING INSTRUCTIONS - PROTECT VC FOIL ULTRA

## GENERAL

Protect VC Foil Ultra must not be exposed to continuous working temperatures in excess of 80°C, such as in direct contact with hot pipes, flues or electric heating cables.

No maintenance of Protect VC Foil Ultra is necessary once installed but it is important that the surface of the product remains clean during the installation process otherwise the thermal performance may be impaired.

**Protect VC Foil Ultra is for use with walls, ceilings and floors in masonry, metal or timber frame construction on the WARM side of the insulation.**

## WALLS AND CEILINGS

1 Roll out Protect VC Foil Ultra to the required length. Starting from the bottom and working upwards horizontally, fix into position, either nailing, stapling or mechanical fix to timber studs, battens or metal frame.

For metal frame constructions use self tapping screws with washers.

Fixings should be at approx 250mm vertical and max 600mm horizontal centres. Typical installation details are shown in figures 1, 2 & 3.

2 For Protect VC Foil Ultra supplied without integral tapes, all **vertical** joints should coincide with battens, metal or wooden studs or metal furrings, and be lapped by at least 100mm and sealed with Protect VC Foil tape (available separately - please see Glidevale Protect Lap & Seal Technology brochure for details). All **horizontal** laps should be lapped by at least 100mm and sealed with Protect VC Foil tape. Protect Double Sided Tape can be used to temporarily fix Protect VC Foil Ultra to masonry or metal frame.

For Protect VC Foil Ultra supplied with integral tapes, lateral edge overlaps should be at least 100mm. To seal the lap, remove release liner from the integrated adhesive layers. Press together firmly and mechanically fix the lapped edge to the substrate. Ensure that the overlapping edges are aligned, and pull both release liners away and press the adhesive surfaces together firmly to ensure a good bond seal. All other joints should be lapped and sealed with Protect VC Foil tape.

3 Protect VC Foil Ultra should be cut and neatly fitted around door and window frames, and trimmed and fitted into corners. All junctions should be sealed with Protect Reveal tape.

4 If necessary, any holes should be cut neatly into the Protect VC Foil Ultra to allow for services such as plumbing and electrical wiring to penetrate and any cuts should be subsequently sealed with Protect VC Foil tape. Any gaps should also be sealed.

5 Ensure that wood preservatives and damp-proofing treatments are fully dried out before installation of Protect VC Foil Ultra. Render or any wet trades should be allowed to dry out before installing Protect VC Foil Ultra.

6 When used as a vapour control layer, the membrane must be fixed on the warm side of the insulation, covering all the internal area, including joists, rafters, rails, studs, noggins, window reveals, lintels and sills. All joints should coincide with battens, studs or noggins, be lapped by at least 100mm and sealed in accordance with point 2 above.

7 Ceiling penetrations should be installed in accordance with BS 9250. To achieve the low emissivity benefit of the reflective surface it is important that a 20mm airspace is achieved adjacent to the foil face.

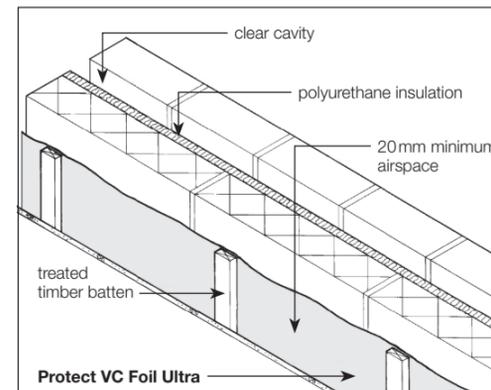


Figure 1. Masonry construction.  
Foil side facing into the airspace.

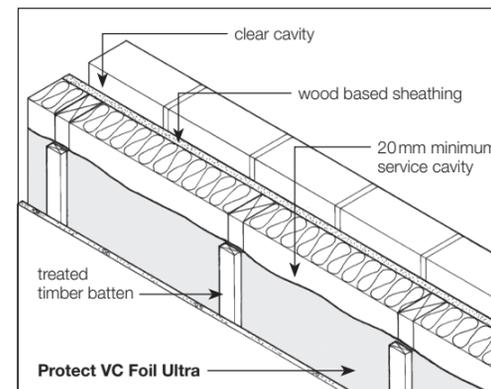


Figure 2. Timber frame construction.  
Foil side facing into the service void airspace.

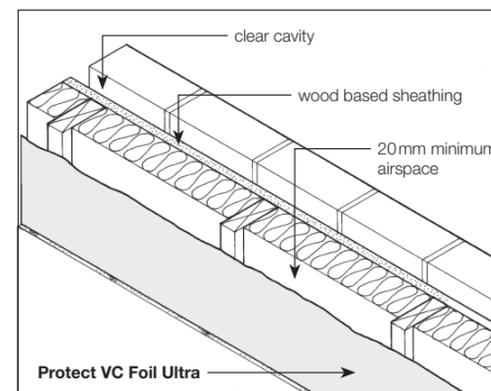


Figure 3. Timber frame construction.  
Foil side facing into the airspace between studs.

## FLOORS

### Solid floors

Protect VC Foil Ultra should be laid over the floor foil face upwards facing the airspace to ensure the total floor area is covered. In this application, do not tape the laps. Timber battens with a minimum 50mm depth, should be installed and fixed through the Protect VC Foil Ultra into the concrete floor at centres to suit the particular floor type.

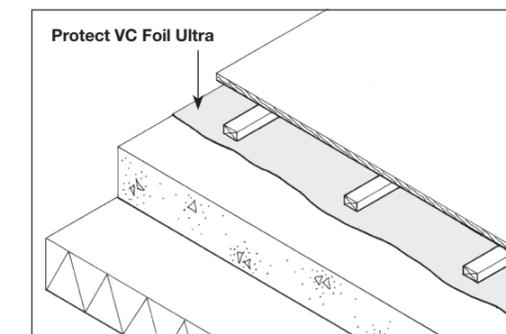


Figure 4. Solid floors.  
Foil side facing into the airspace.

### Suspended floors

Protect VC Foil Ultra should be fixed over the floor joists and/or battens allowing an air gap between the product and insulation. The foil side should face the airspace. In this application, do not tape the laps. The flooring is then fitted in the conventional manner.

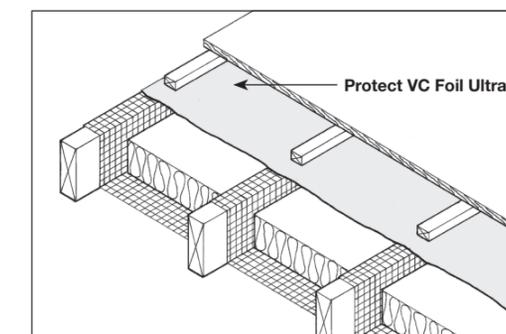
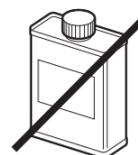


Figure 5. Suspended floors.  
Foil side facing into the airspace.

Note: In both applications, thermal bridging should be minimised by turning Protect VC Foil Ultra up at wall-floor junctions by 75mm which will be protected by skirting boards or similar. Joints should be lapped by 100mm and left unsealed.

To achieve the low emissivity benefit of the reflective surface it is important that an airspace of >50mm is achieved adjacent to the foil face of the membrane.



Do not use in direct contact with organic solvents



For technical advice telephone +44 (0)161 905 5700

### Other products purchased with this membrane:

Reflective Single-sided Reinforced Tape, Reveal Tape, Double-sided Tape, Reinforced Universal Tape, VC Foil Tape, BarriAir airtightness membrane, FCM 750 floor cassette membrane