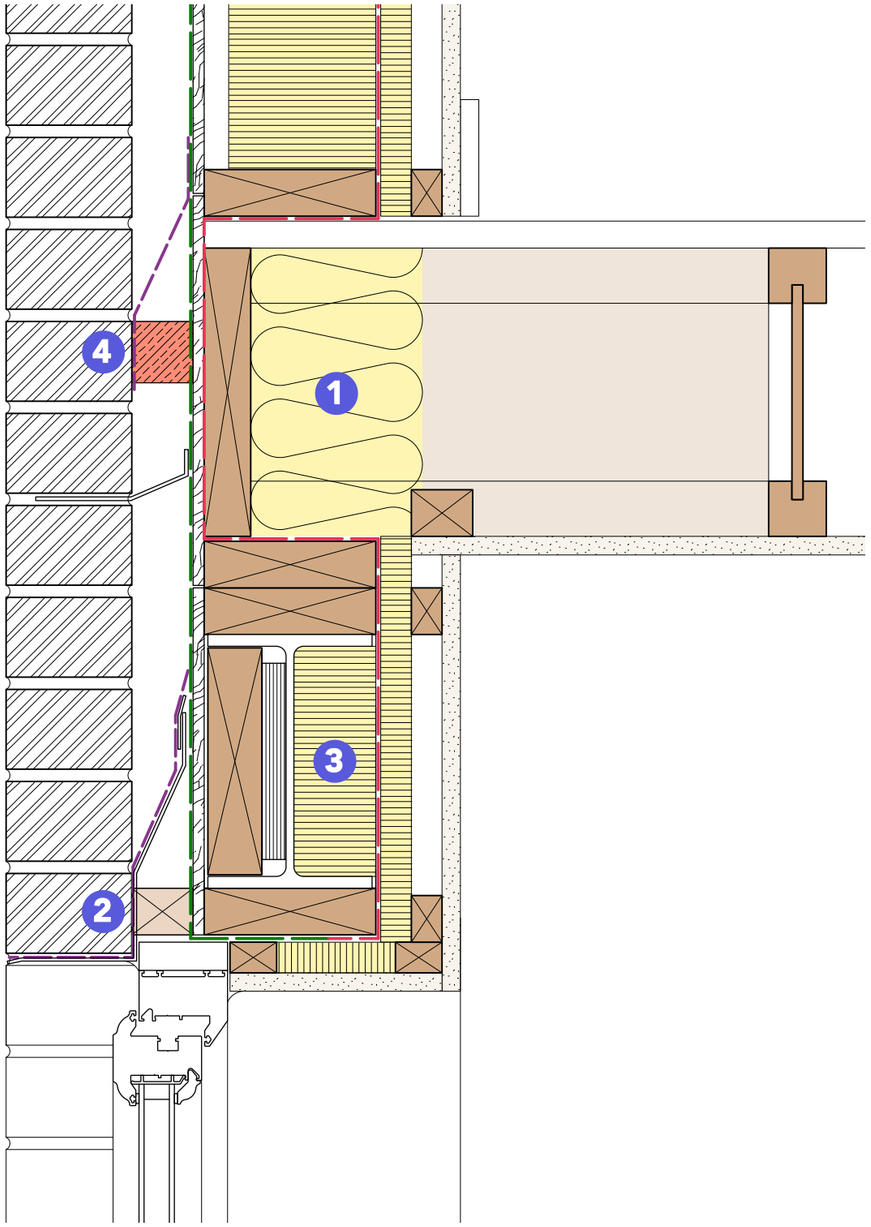
E2 -19: Steel Lintel - Timber Cavity Barrier

Psi Value: 0.070 W/mK

f Value: 0.90



Thermal Compliance Notes

1. 140mm mineral wool insulation (0.040 W/mK).
2. 38x50mm timber cavity barrier.
3. 67mm PIR rigid insulation (0.022 W/mK).
4. Cavity barrier.

Construction Notes

1. PIR insulation to inside of wall can be fitted hard to floor joist or underside of ceiling plasterboard, pending sequence of plasterboard installation.
2. At insulated reveals a wider timber frame opening and 25mm window packers are required on all four sides of window/door frames.
3. Steel lintels, generally used over very large openings or very high point loads, subject to timber engineering design.
4. At floor levels, allowing for building tolerances, an OSB cover plate or solid timber header joist, can be used to maintain cavity dimension, if required.
5. Horizontal cavity barriers at floors and openings, with masonry cladding, should be protected and drained as required.
6. Membrane and VCL shown may help improve air tightness performance.

General Notes

1. The timber frame detailing arrangements shown are considered common industry practice and align with STA technical guidance and advice where required.
2. All non-timber frame construction detailing, design and specifications, are the responsibility of the Principal Designer.
3. All horizontal and vertical cavity barriers and firestops (timber, polythene sleeved or open state) are to be located and fitted in accordance with STA cavity barrier and firestopping technical guidance.
4. Brick wall ties are shown indicatively, and are subject to coursing and structural engineering project specific design, under the responsibility of the Principal Designer.