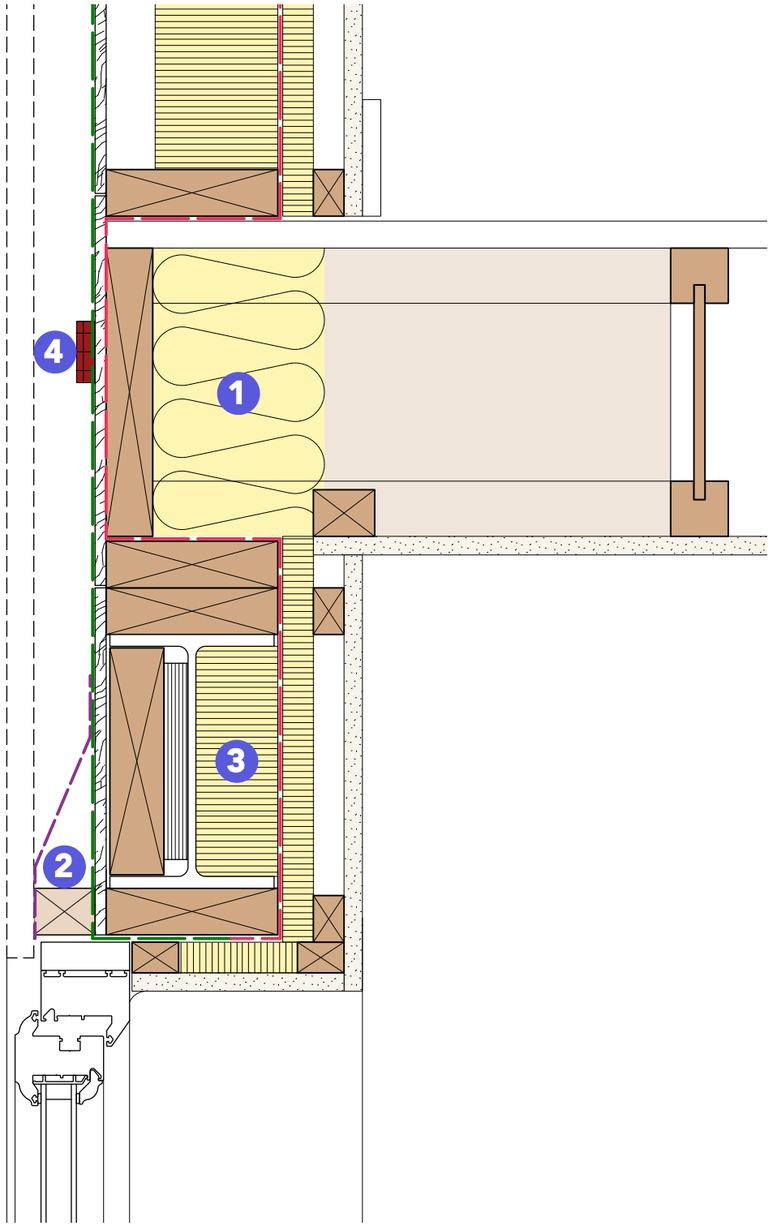
E2 -19: Steel Lintel - Timber Cavity Barrier

Psi Value: 0.098 W/mK

f Value: 0.88



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. Open state cavity barrier.

Construction Notes

1. Non-masonry cladding system to be specified and detailed by Principal Designer.
2. When using non-masonry cladding systems, A2 fire rated sheathing is a requirement in England and Wales. It is the Principal Designer's responsibility to confirm fire safety requirements for non-masonry cladding systems in all regulatory locations.
3. PIR insulation to inside of wall can be fitted hard to floor joist or underside of ceiling plasterboard, pending sequence of plasterboard installation.
4. At insulated reveals a wider timber frame opening and 25mm window packers are required on all four sides of window/door frames.
5. Cavity tray requirements and ventilation detailing at floor level and head of window are the responsibility of the Principal Designer.
6. Steel lintels, generally used over very large openings or very high point loads, subject to timber engineering design.
7. 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.
8. Horizontal cavity barriers, at external floor level junction, to be open state type to allow ventilation behind non-masonry cladding system.
9. 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.