

Thermal Bridging Calculation Diagrams

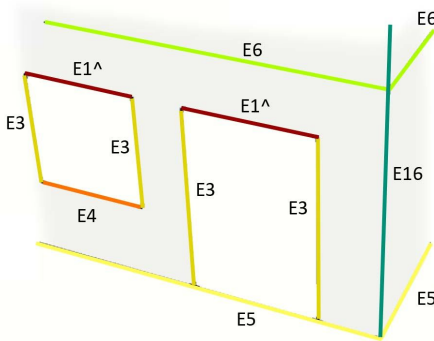
- E1 Steel lintel with perforated steel base plate
- E2 Other lintels (including other steel lintels)
- E3 Sill
- E4 Jamb
- E5 Ground Floor
- E6 Intermediate floor within a dwelling
- E7 Intermediate floor between dwellings (in flats)

- E8 Balcony within a dwelling
- E9 Balcony between dwellings
- E10 Eaves (insulation at ceiling level)
- E11 Eaves (insulation at rafter level)
- E12 Gable (insulation at ceiling level)
- E13 Gable (insulation at rafter level)
- E14 Flat roof
- E15 Flat roof with parapet
- E16 Corner (normal)
- E17 Corner (inverted)

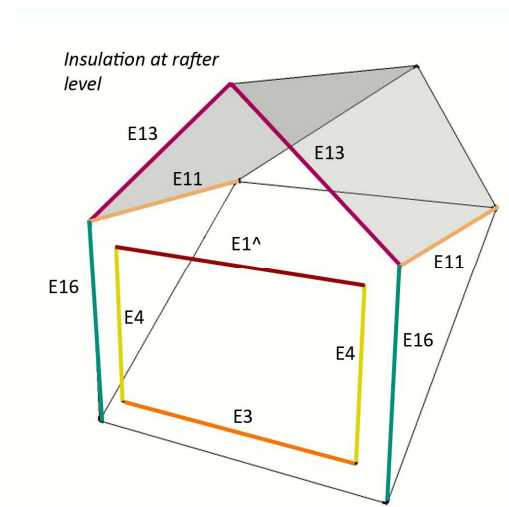
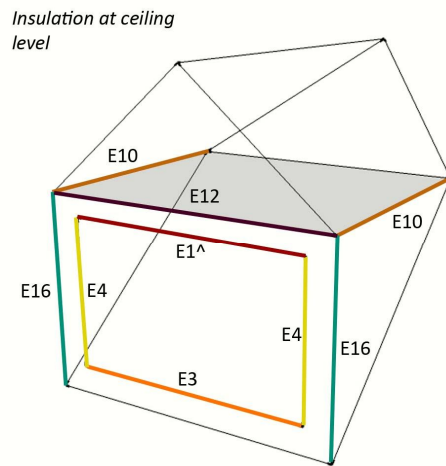
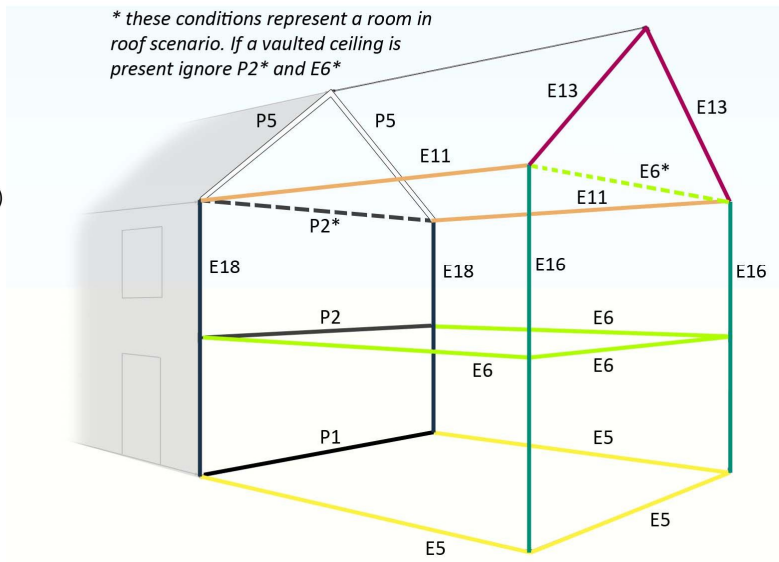
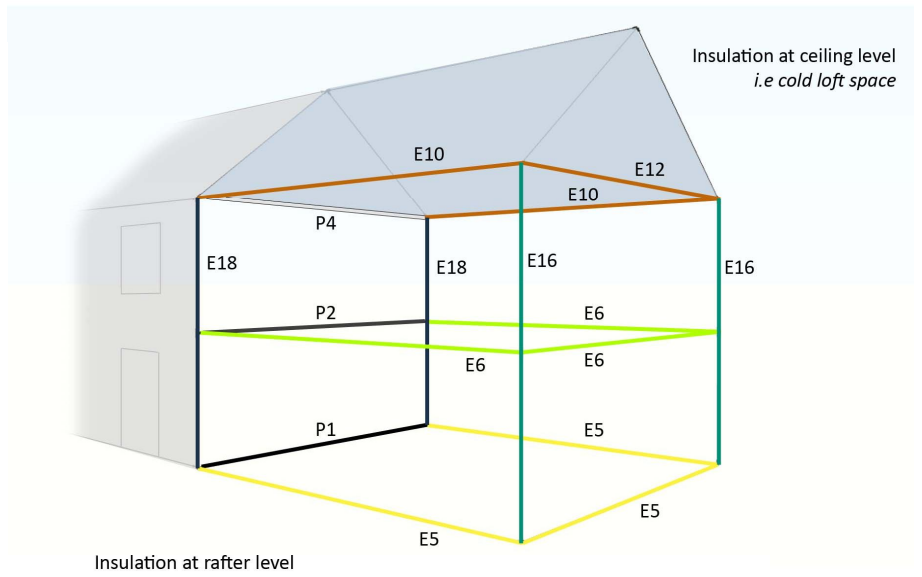
- E18 Party wall between dwellings
- P1 Ground floor
- P2 Intermediate floor within a dwelling
- P3 Intermediate floor between dwellings (in flats)

- P4 Roof (insulation at ceiling level)
- P5 Roof (insulation at rafter level)

[^]E1 Perforated Steel lintel assumed, otherwise use E2

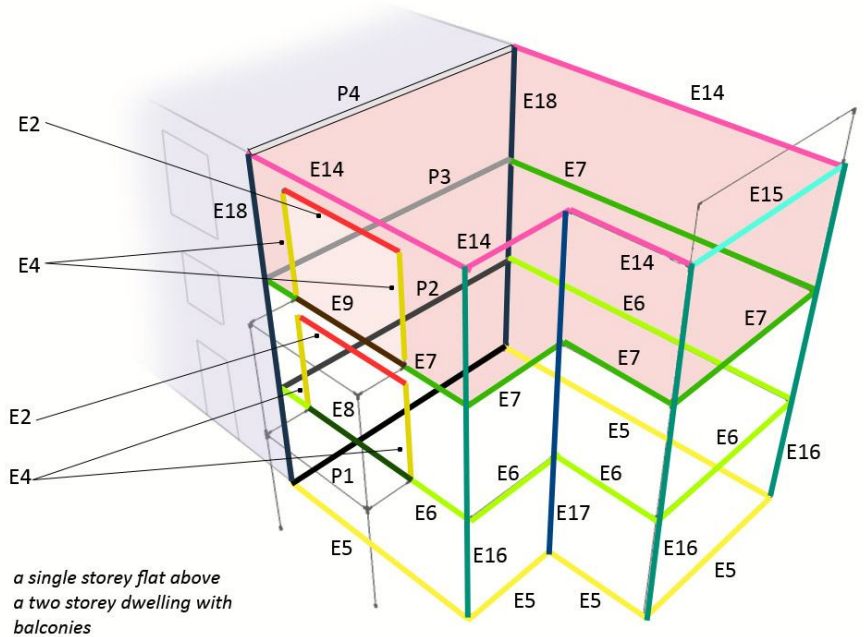


NOTE: Junctions where the dormer meets the main structure are disregarded



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	E1	Steel lintel with perforated steel base plate
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	E3	Sill
	E4	Jamb
	E5	Ground Floor
	E6	Intermediate floor within a dwelling
	E7	Intermediate floor between dwellings (in flats)
	E8	Balcony within a dwelling
	E9	Balcony between dwellings
	E10	Eaves (insulation at ceiling level)
	E11	Eaves (insulation at rafter level)
	E12	Gable (insulation at ceiling level)
	E13	Gable (insulation at rafter level)
	E14	Flat roof
	E15	Flat roof with parapet
	E16	Corner (normal)
	E17	Corner (inverted)
	E18	Party wall between dwellings
	P1	Ground floor
	P2	Intermediate floor within a dwelling
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	P4	Roof (insulation at ceiling level)
	P5	Roof (insulation at rafter level)



Balconies

The conventions (Appendix 1.3) state that:

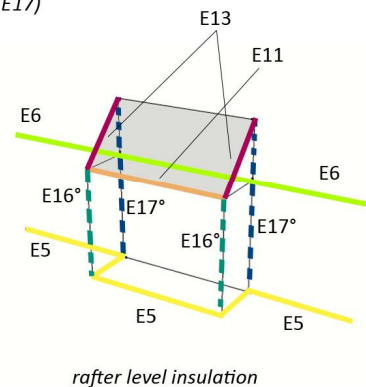
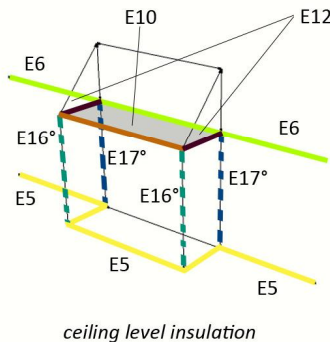
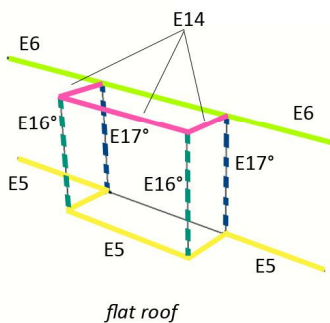
'In the case of a balcony where the balcony support does penetrate the wall insulation, use the default value from Table K1 for junction E2.'

This means a psi value of **1.00 W/mK** is used with this particular detail if present in a dwelling.

This supersedes the footnote * in table K1.

Bay Window Junctions

° If the insulation between walls is continuous these junctions are disregarded, otherwise use default psi values from Table K1 (E16 & E17)



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Junctions between two roofs

These are disregarded, and such no psi values or lengths need to be included in the SAP calculations for this type of detail.

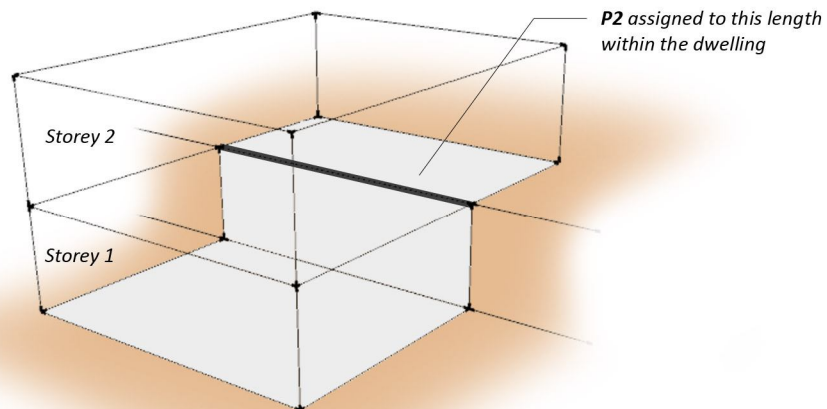
Parapet Roof Junctions

If the wall passes over the edge of the roof, treat as a roof with a parapet (E15 – Table K1)

If the roof passes over the top of the wall, treat as a roof without a parapet (E14 – Table K1)

Split level arrangements

Split Level Arrangements - Dwellings



Split Level Arrangements - Flats

