

## References used for H+H thermal bridge modelling

### External walls

#### EW0 Brick + Cavity + 100mm Celcon Solar inner leaf

EW001	50mm part fill insulation	(0.018W/mK)
EW002	75mm part fill insulation	(0.018W/mK)
EW003	100mm part fill insulation	(0.018W/mK)
EW011	50mm part fill insulation	(0.022W/mK)
EW012	75mm part fill insulation	(0.022W/mK)
EW013	100mm part fill insulation	(0.022W/mK)
EW021	50mm part fill insulation	(0.030W/mK)
EW022	75mm part fill insulation	(0.030W/mK)
EW023	100mm part fill insulation	(0.030W/mK)

EW033	100mm full fill insulation	(0.032W/mK)
EW034	125mm full fill insulation	(0.032W/mK)
EW035	150mm full fill insulation	(0.032W/mK)
EW043	100mm full fill insulation	(0.037W/mK)
EW044	125mm full fill insulation	(0.037W/mK)
EW045	150mm full fill insulation	(0.037W/mK)
EW053	100mm full fill insulation	(0.045W/mK)
EW054	125mm full fill insulation	(0.045W/mK)
EW055	150mm full fill insulation	(0.045W/mK)

#### EW1 Brick + Cavity + 100mm Celcon Standard inner leaf

EW101	50mm part fill insulation	(0.018W/mK)
EW102	75mm part fill insulation	(0.018W/mK)
EW103	100mm part fill insulation	(0.018W/mK)
EW111	50mm part fill insulation	(0.022W/mK)
EW112	75mm part fill insulation	(0.022W/mK)
EW113	100mm part fill insulation	(0.022W/mK)
EW121	50mm part fill insulation	(0.030W/mK)
EW122	75mm part fill insulation	(0.030W/mK)
EW123	100mm part fill insulation	(0.030W/mK)

EW033	100mm full fill insulation	(0.032W/mK)
EW034	125mm full fill insulation	(0.032W/mK)
EW035	150mm full fill insulation	(0.032W/mK)
EW043	100mm full fill insulation	(0.037W/mK)
EW044	125mm full fill insulation	(0.037W/mK)
EW045	150mm full fill insulation	(0.037W/mK)
EW053	100mm full fill insulation	(0.045W/mK)
EW054	125mm full fill insulation	(0.045W/mK)
EW055	150mm full fill insulation	(0.045W/mK)

#### EW2 Brick + Cavity + 100mm Celcon High/Super Strength inner leaf

EW201	50mm part fill insulation	(0.018W/mK)
EW202	75mm part fill insulation	(0.018W/mK)
EW203	100mm part fill insulation	(0.018W/mK)
EW211	50mm part fill insulation	(0.022W/mK)
EW212	75mm part fill insulation	(0.022W/mK)
EW213	100mm part fill insulation	(0.022W/mK)
EW221	50mm part fill insulation	(0.030W/mK)
EW222	75mm part fill insulation	(0.030W/mK)
EW223	100mm part fill insulation	(0.030W/mK)

EW233	100mm full fill insulation	(0.032W/mK)
EW234	125mm full fill insulation	(0.032W/mK)
EW235	150mm full fill insulation	(0.032W/mK)
EW243	100mm full fill insulation	(0.037W/mK)
EW244	125mm full fill insulation	(0.037W/mK)
EW245	150mm full fill insulation	(0.037W/mK)
EW253	100mm full fill insulation	(0.045W/mK)
EW254	125mm full fill insulation	(0.045W/mK)
EW255	150mm full fill insulation	(0.045W/mK)

### Junctions

#### E1 Steel lintel with perforated steel base plate

LN004	Insulated lintel with perforated base plate
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#### E2 Other lintels (including other steel lintels)

LN001	Independent lintels, insulated closer (Thermabate)
LN002	Independent lintels, insulated closer (Cavalok)
LN003	Insulated open back lintel
LN005	Catnic Thermally Broken Lintel

#### E3 Sill

SL001	Proprietary insulated closer (Thermabate)
SL002	Proprietary insulated closer (Cavalok)

#### E4 Jamb

RV001	Proprietary insulated closer (Thermabate)
RV002	Proprietary insulated closer (Cavalok)

#### E5 Ground floor (normal)

GF001	Beam & Celcon block infill + 100mm insulation
GF002	Beam & Celcon block infill + 125mm insulation
GF003	Beam & Celcon block infill + 150mm insulation
GF011	Cast in-situ suspended slab + 100mm insulation
GF012	Cast in-situ suspended slab + 125mm insulation
GF013	Cast in-situ suspended slab + 150mm insulation
GF021	Ground bearing slab + 100mm insulation
GF022	Ground bearing slab + 125mm insulation
GF023	Ground bearing slab + 150mm insulation

#### E6 Intermediate floor within a dwelling

IF001	240mm Timber joist built in
IF002	300mm Timber joist built in

#### E7 Party floor between dwellings

IF003	150mm concrete plank separating floor
IF004	225mm concrete plank separating floor

#### E10 Eaves (insulation at ceiling level)

RE001	400mm insulation quilt
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#### E11 Eaves (insulation at rafter level)

RE002	150mm insulation
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#### E12 Gable (insulation at ceiling level)

RG001	400mm insulation quilt
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#### E13 Gable (insulation at rafter level)

RG002	150mm insulation
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#### E16 Corner (normal)

CN001	Corner (normal)
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#### E17 Corner (inverted)

CI001	Corner (inverted)
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#### E18 Party wall between dwellings

PW175	2 x 100mm Celcon Standard + 75mm cavity
PW100	2 x 100mm Celcon Standard + 100mm cavity
PW150	2 x 100mm Celcon Standard + 150mm cavity
PW275	2 x 100mm Celcon High/Super Strength + 75mm cavity
PW200	2 x 100mm Celcon High/Super Strength + 100mm cavity
PW250	2 x 100mm Celcon High/Super Strength + 150mm cavity
PW375	2 x 100mm Dense concrete block + 75mm cavity
PW300	2 x 100mm Dense concrete block + 100mm cavity
PW350	2 x 100mm Dense concrete block + 150mm cavity

#### E20 Exposed floor (normal)

IF007	195mm Timber joist built in
IF005	240mm Timber joist built in
IF006	300mm Timber joist built in

#### E25 Staggered party wall between dwellings

PW175s	2 x 100mm Celcon Standard + 75mm cavity
PW100s	2 x 100mm Celcon Standard + 100mm cavity
PW150s	2 x 100mm Celcon Standard + 150mm cavity
PW275s	2 x 100mm Celcon High/Super Strength + 75mm cavity
PW200s	2 x 100mm Celcon High/Super Strength + 100mm cavity
PW250s	2 x 100mm Celcon High/Super Strength + 150mm cavity
PW375s	2 x 100mm Dense concrete block + 75mm cavity
PW300s	2 x 100mm Dense concrete block + 100mm cavity
PW350s	2 x 100mm Dense concrete block + 150mm cavity