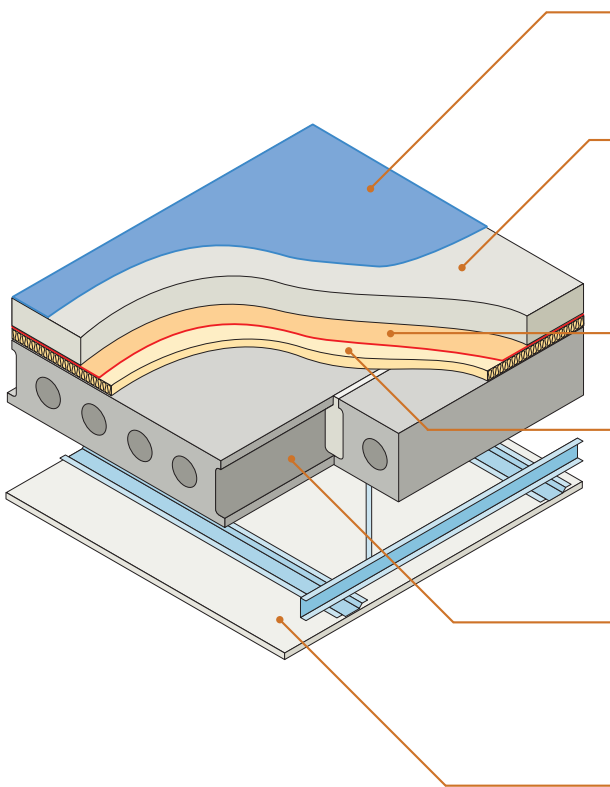


- Precast concrete plank
- Screed laid on resilient layers
- Bonded resilient floor cover



Floor covering	4.5mm (min) bonded resilient floor covering (see section 4)
Screed	65mm (min) sand cement screed, or 40mm proprietary screed, 80 kg/m ² (min) mass per unit area
Isolating layer (1)	5mm foamed polyethylene layer 30-36 kg/m ³
Isolating layer (2)	25mm mineral wool batt 140 kg/m ³ (min), 25mm EPS (flooring grade SD) or extruded polystyrene insulation
Structural floor	Precast concrete plank of 150mm (min) thickness and 300 kg/m ² (min) mass per unit area
Ceiling	See section 3 for suitable ceiling treatment which is dependent on floor plank depth

IMPORTANT

Bonded resilient floor coverings must be tested in accordance with Appendix G.

See section 4 for performance requirements and edge detail installation options.

Polyethylene foams may not be used for bonded resilient floor coverings.

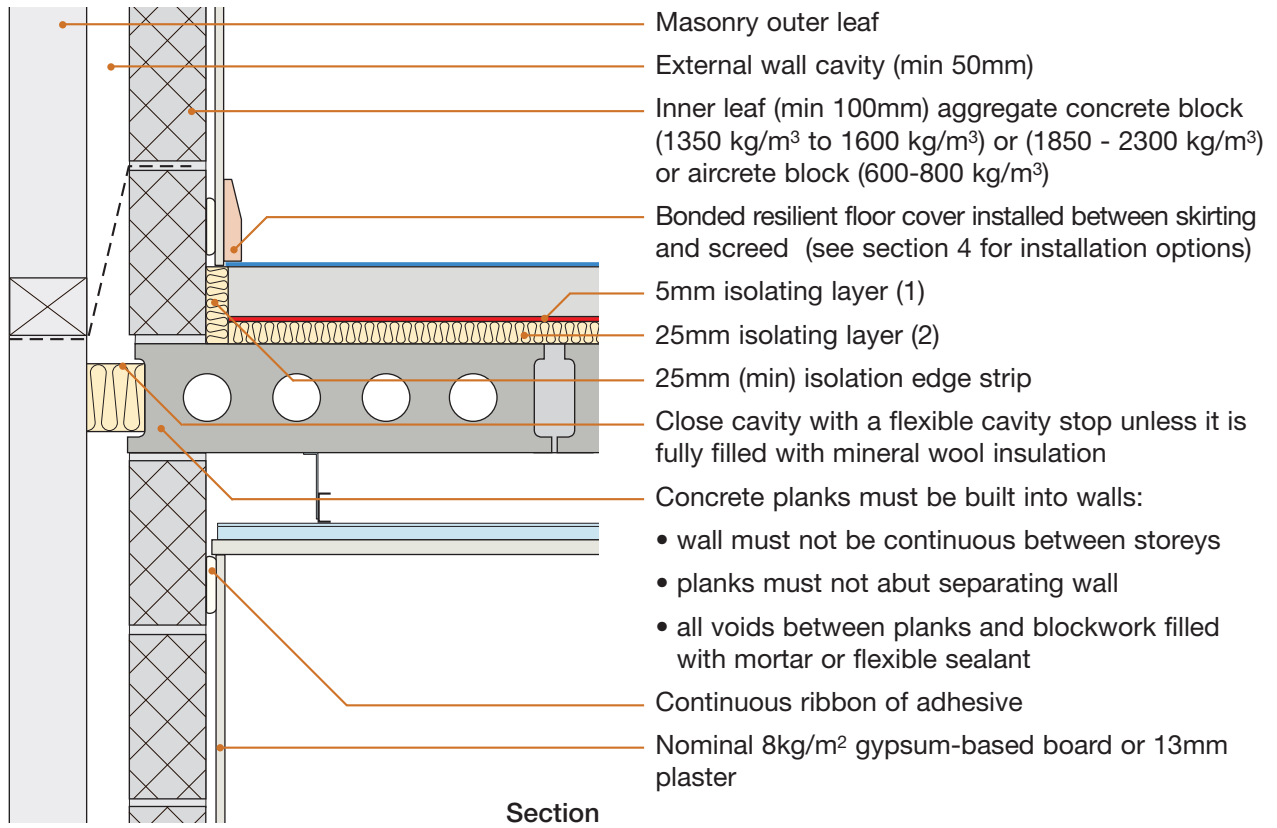
The resilient floor covering material must be overprinted with wording prohibiting its removal.

Bonded resilient floor covering should be suitably resistant to site and removals traffic.

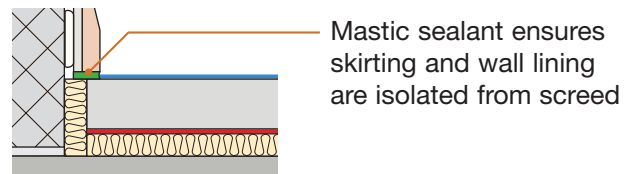
DO

- Butt planks tightly together
- Grout all joints between planks
- Fill all voids between walls and floor
- Install the 5mm and 25mm isolating layers with staggered joints
- Make sure ceiling treatment is installed in accordance with the manufacturer's instructions (where applicable)
- Ensure the isolating edge strip is 25mm mineral wool batt (min 140 kg/m³) or expanded (SD grade) or extruded polystyrene insulation board
- Ensure resilient floor cover is bonded using only suppliers' recommended adhesives, and is not readily removable

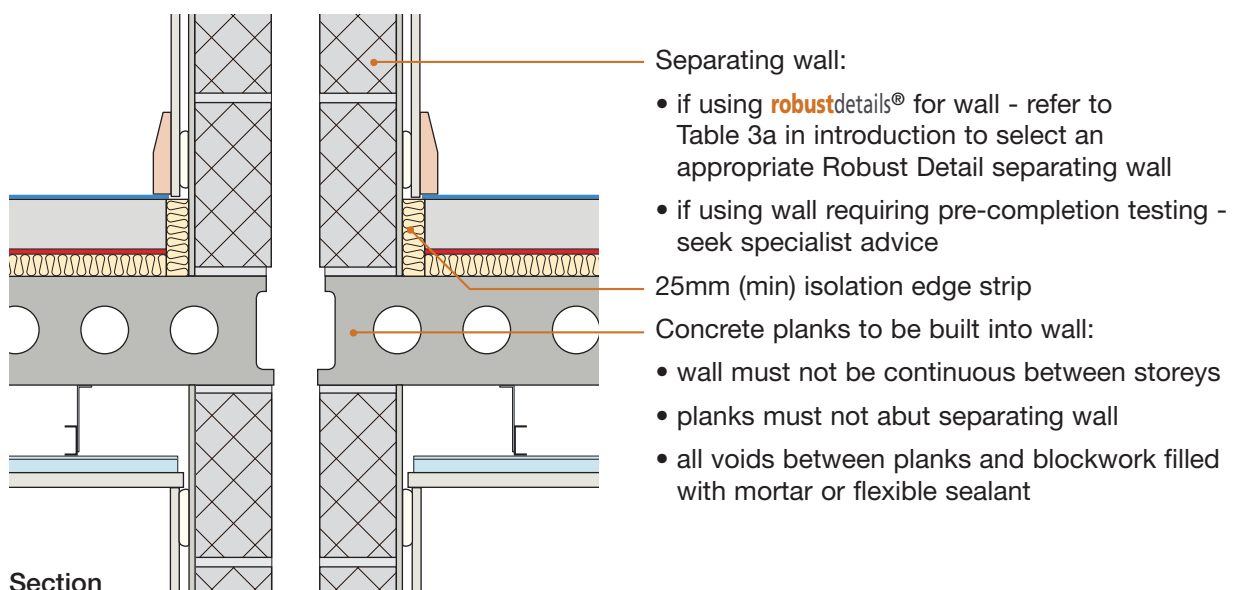
1. External (flanking) wall junction



Sketch shows CT0 type ceiling treatment



2. Separating wall junction



Sketch shows CT0 type ceiling treatment

3. Ceiling treatments for E-FC-8

All ceiling treatments must be installed in accordance with the manufacturer’s instructions. All ceiling joints should be sealed with tape or caulked with sealant.

Note: the sound insulation performance of all ceiling treatments is increased if:

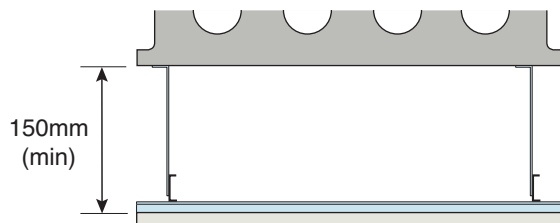
- 25mm (min.) mineral fibre quilt is placed in the ceiling void, and/or
- if resilient hangers are used.

Downlighters and recessed lighting

Provided there is a minimum ceiling void, as stated below for CT0 and CT1, downlighters or recessed lighting may be installed in the ceiling:

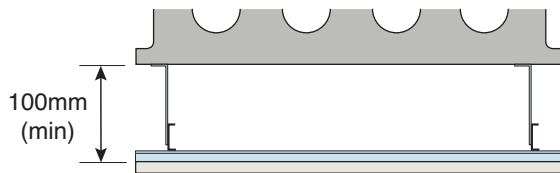
- in accordance with the manufacturer’s instructions
- at no more than one light per 2m² of ceiling area in each room or see Appendix F
- at centres not less than 0.75m
- into openings not exceeding 100mm diameter or 100x100mm

Particular attention should also be paid to Building Regulations Part B - Fire Safety



CT0 – Metal ceiling system - 150mm void To be used for 150mm (min) depth concrete planks

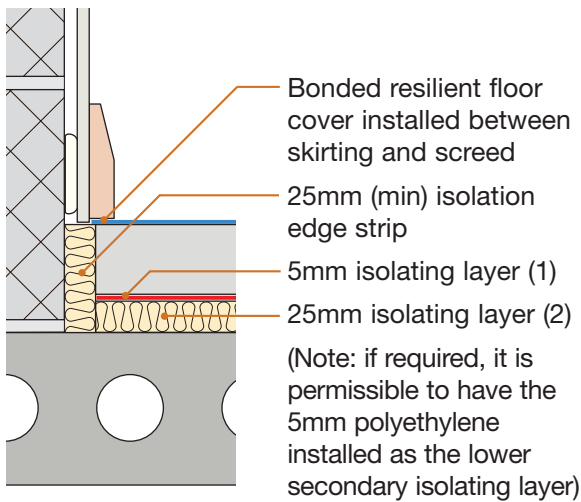
- any metal ceiling system providing 150mm (min) ceiling void
- one layer of nominal 10 kg/m² gypsum-based board



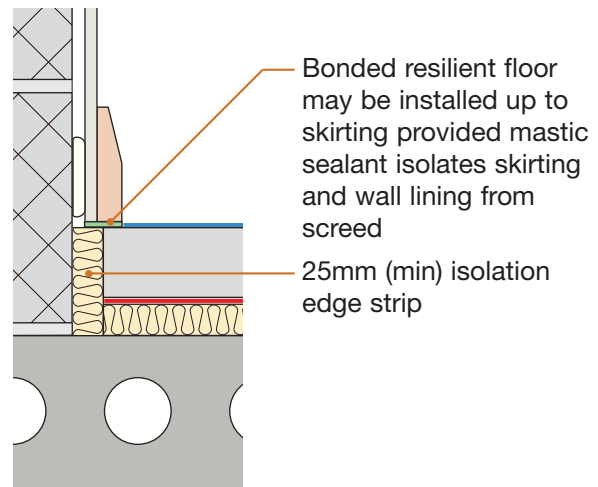
CT1 – Metal ceiling system – 100mm void Only to be used for 200mm (min) depth concrete planks

- any metal ceiling system providing 100mm (min) ceiling void
- one layer of nominal 10 kg/m² gypsum-based board

4. Isolating layers installation, edge strip and bonded resilient floor cover



OPTION A



OPTION B

Isolating layer (1)

- 5mm (min) foamed polyethylene

Isolating layer (2) and isolating edge strip

- 25mm (min) thick
- may be mineral wool batt (min 140 kg/m³) or expanded (SD grade) or extruded polystyrene insulation board

(Note: joints for isolating layers 1 and 2 should be staggered)

Bonded resilient floor cover

- min 4.5mm thickness and must be bonded
- must be capable of supporting carpet and wood finishes in habitable rooms
- **Laboratory testing performance must be undertaken directly on the resilient cover, and with a wood floor finish as outlined in Appendix G (min ΔL_w 17 dB without timber board overlay; min $rd\Delta L_w$ 17 dB with timber board overlay)**

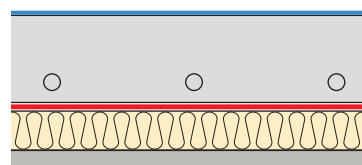
5. Underfloor heating systems within screeds

Underfloor heating systems (including connectors and fixings) installed within the screed must not penetrate the isolating layers or bridge the screed to the slab. Isolating layers with preformed surface indent channels, for the heating elements, may be used provided the material meets the specification for Isolating layer (2) above.

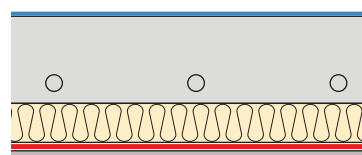
Appropriate screed depth cover to the heating system must be designed for – contact underfloor heating manufacturer for guidance.

Note: If required it is permissible to have the 5mm layer installed as the lower secondary isolating layer (as shown in Option B).

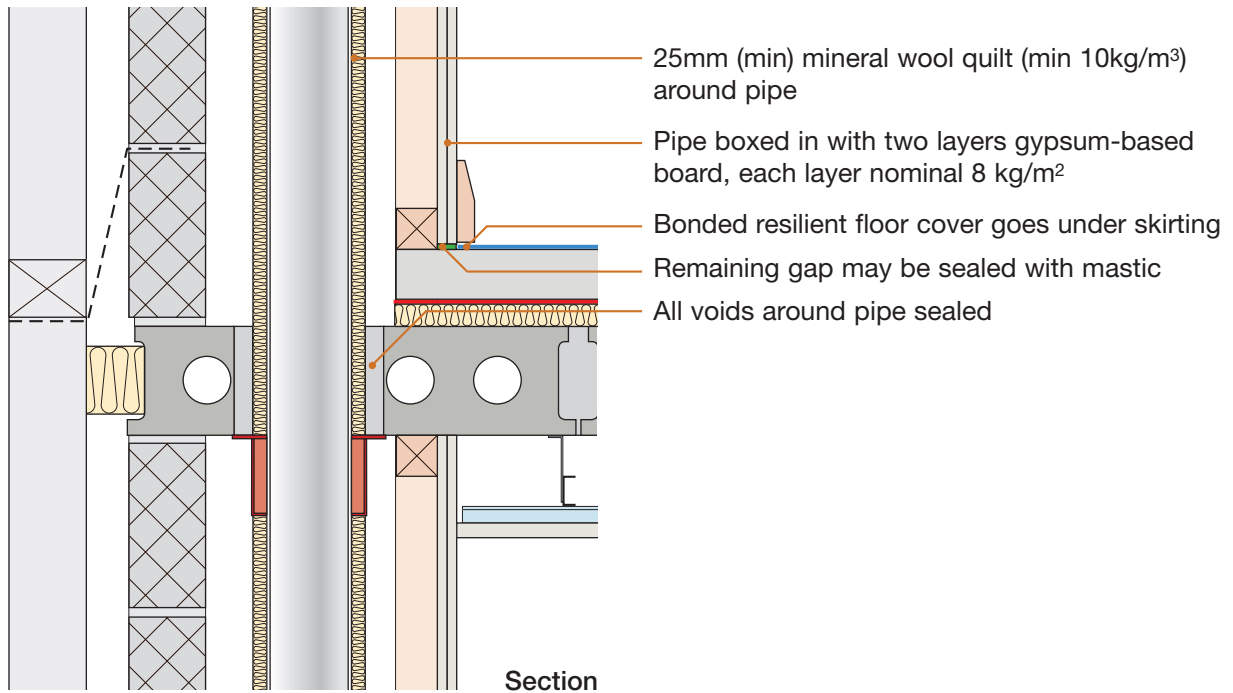
OPTION A



OPTION B



6. Services – Service pipes through separating floor



Sketch shows CT0 type ceiling treatment

Alternative detail

