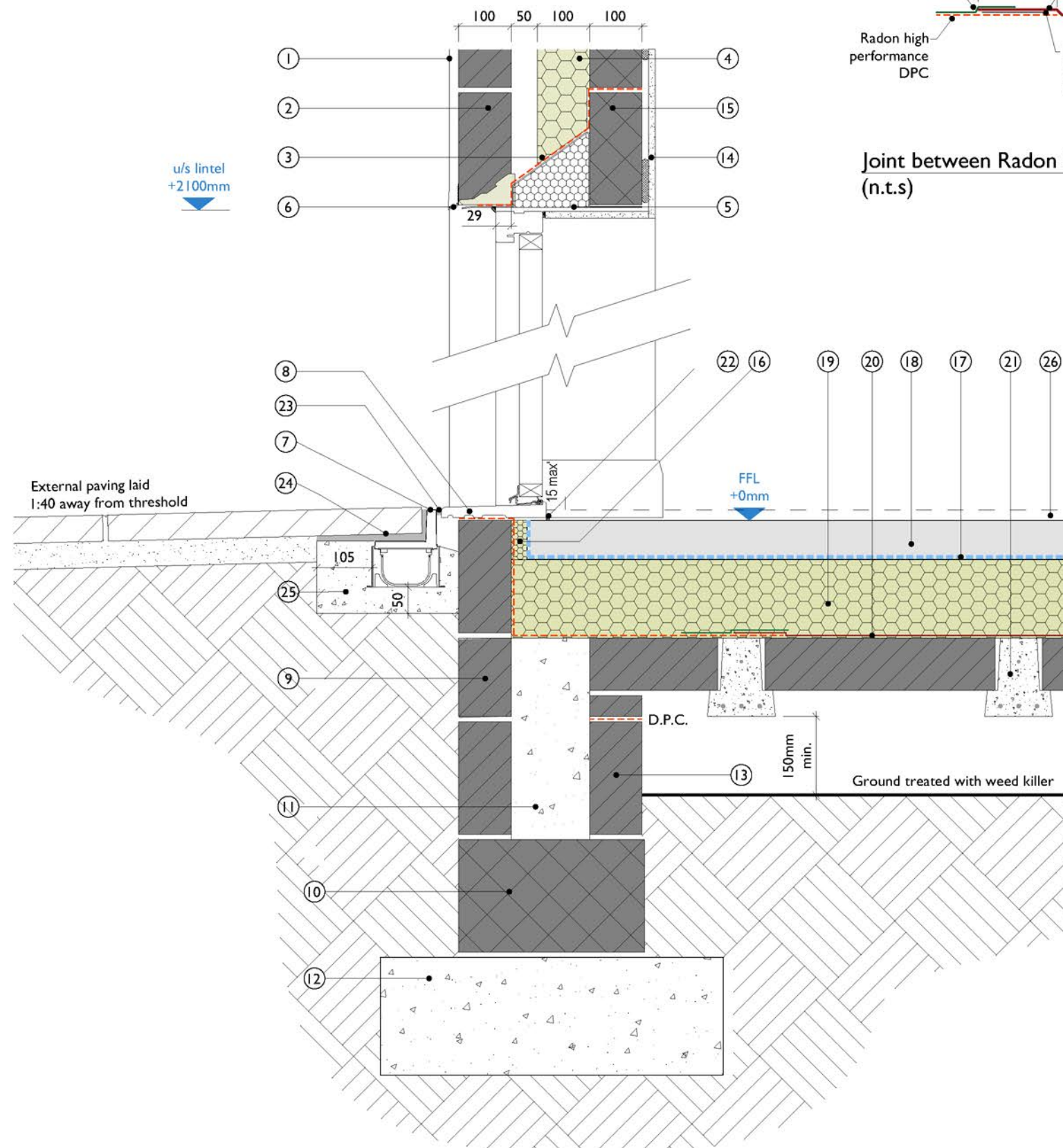


# RADON : LEVEL THRESHOLD (BEAM & BLOCK FLOOR)

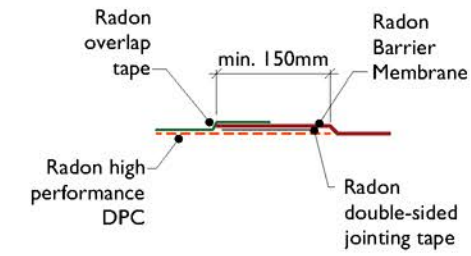
1:10

## Details Legend

- ① Synthetic through coloured render.
- ② 100mm dense concrete blockwork external leaf (1950-2300kg/m<sup>3</sup>). Refer to GA plans for compressive strength.
- ③ Proprietary loose laid cavity tray laid on top of lintel to stop any residual moisture from escaping into the gap between the lintel and the blockwork.
- ④ Partial fill insulation shown. Please refer to regional construction specification and SAP assessment for insulation specification.
- ⑤ Proprietary steel lintel.
- ⑥ Render bell cast drip / stop bead with weep holes at max. 450mm centres behind. Minimum of 2 per opening. External one part polysulphide seal against door. Weep vent only specified if there is no render or cover to the visible underside of the lintel when exposed externally.
- ⑦ ACO HexDrain Brickslot (or similar performing) drain set 5mm down from top of hard surfacing and door cill.
- ⑧ 200mm synthetic threshold cill on Radon Protection High Performance D.P.C. with external one part polysulphide seal against masonry below.
- ⑨ Coursing blocks to be used below feature brickwork where sufficiently below external ground level.
- ⑩ Thermalite or similar approved trench blocks below D.P.C.
- ⑪ Cavity filled with a weak mix concrete infill.
- ⑫ Concrete foundations to engineer's design
- ⑬ 100mm dense concrete blockwork (1950-2300kg/m<sup>3</sup>) cut to course the B&B floor. Refer to GA plans for compressive strength.
- ⑭ 12.5mm Gyproc Wallboard (density 8.5kg/m<sup>3</sup>) taped and jointed on plaster dabs.
- ⑮ 100mm Aircrete (or similar approved) concrete blockwork inner leaf (600-800kg/m<sup>3</sup>). Refer to GA plans for compressive strength.
- ⑯ 25mm Perimeter insulation upstand (min psi value 0.29).
- ⑰ 500 gauge polythene membrane.
- ⑱ \* 75mm reinforced sand & cement screed.
- ⑲ \* 150mm Xtratherm PIR rigid insulation tightly butted.  $\lambda = 0.022\text{W/mK}$
- \* denotes 'Subject to Regional specification design stage SAP calculations'
- ⑳ Full Radon Protection Barrier Membrane (min. 1600 gauge for basic protection) taped & lapped min. 150mm with Radon Protection High Performance DPC.
- ㉑ Beam & block suspended floor to Specialist Supplier design and detail. Beam ends are to be neatly sealed with Blackjack bitumen paint (or similar performing).
- ㉒ Flexible perimeter sealant.
- ㉓ Flexible waterproof sealant (Sika Flex I IFC or similar approved) between edge of slot drain and door cill. Joint width and depth in accordance with manufacturers recommendations.
- ㉔ Hard surfacing directly adjacent to frame of slot drain must be bedded using a polymer modified mortar.
- ㉕ ACO HexDrain Brickslot drain (or similar performing) set on concrete bed and haunching. Minimum strength C20/25 (to BS EN-206:2013)
- ㉖ 20mm floor notional finishes zone (shown as dashed line)



- NOTES:
- All information on this drawing is copyright ©
  - All sizes to be verified on site
  - No dimensions to be scaled off this drawing
  - All dimensions are to structure only unless otherwise stated
  - All dimensions to drawing in millimetres unless otherwise stated
  - This drawing to be read in conjunction with all other project drawings



Joint between Radon Barrier & Radon DPC (n.t.s)

Drawing Title:  
**RADON : LEVEL ACCESS THRESHOLD DETAIL**

Drawing No: **RAD-150-BB01**

Drawing Status: **CONSTRUCTION**

Scale: **1:10@A3**

Revision: