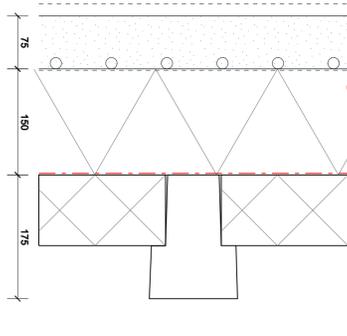


**FT-01 - Ground Floor**  
0.12 W/m<sup>2</sup>K U-Value

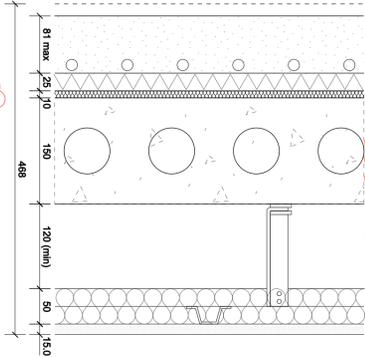


- Floor finish varies (timber/tiles/carpet)
- Tiles in wet areas to use high quality polymer modified based flexible waterproof tile adhesive such as Wickes Waterproof Wall and Tile Adhesive. Grout to be waterproof such as Wickes Waterproof Tile Grout White.
- BAL WP1 Tanking system installed to manufacturer recommendations to be provided below tiles in wet areas.
- 75mm reinforced screed with 16mm dia. underfloor heating pipes.
- 500 gauge polythene separating membrane
- 150mm Kingspan Thermofoam TF70 (thermal conductivity 0.022 W/mK)
- 25mm Kingspan Thermofoam TF70 perimeter insulation (thermal conductivity 0.022 W/mK)
- Proprietary 1200 gauge DPM
- Proprietary beam and block floor to SE detail.
- Ventilated void, minimum 300mm. Treat the surface of the ground in the void with an approved weed killer.
- Glidevale Periscope vents @ 1350mm centres to allow for 1500mm<sup>2</sup> free area ventilation per metre run of wall or 500mm<sup>2</sup> per m<sup>2</sup> of floor area whichever is greater.
- Flat air bricks to match facing brick

NOTE: No underfloor heating in common areas

**FT-02 - Compartment Floor**  
Deemed to provide 0 W/m<sup>2</sup>K U-Value

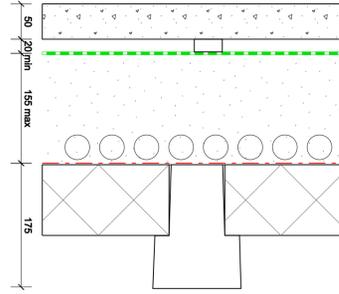
To achieve 60mins fire resistance from both sides and 5dB better than Part E Building Regulation sound requirement



- Floor finish (Timber/Tiles)
- Tiles in wet areas to use high quality polymer modified based flexible waterproof tile adhesive such as Wickes Waterproof Wall and Tile Adhesive. Grout to be waterproof such as Wickes Waterproof Tile Grout White.
- BAL WP1 Tanking system installed to manufacturer recommendations to be provided below tiles in wet areas.
- 51mm to 81mm Tarmac Topflo screed with 16mm dia. underfloor heating pipes (thickness varies to allow for 30mm camber in pc floor)
- 25mm Kingspan thermofoam TF70 or equivalent to achieve a thermal resistance above 0.75 sqm K/W
- 10mm Tekfoam10 acoustic layer with IsoEdge 6/260 flanking strip
- 150mm hollowcore precast concrete floor planks, 300 kg/m<sup>2</sup> (min) mass per unit area
- 120mm (min) suspended ceiling void
- Proprietary metal ceiling structure suspended from Thermal Economics Isosonic cleats
- 50mm (min) Isosonic Ceiling Quilt
- One layer 15mm (nominal 10 kg/m<sup>2</sup>) gypsum based board
- Taped and sealed joints

NOTE: See note 2 on FT-05

**FT-03 - Ground Floor External Deck**  
U-Value - NA



- 450x450x50mm standard textured concrete pavers to be Marshall or equivalent.
- 20mm min sand with self leveling feet to support paver
- Liquid applied RIW Flexiseal Pro integrity tank or equivalent installed to manufacturer recommendations
- Reinforced screed laid to 1:40 fall (max height 155mm, min height 65mm) with 18 gas pipes laid with 35mm min screed on top
- Proprietary 1200 gauge DPM
- Proprietary beam and block floor to SE detail.
- Ventilated void 300mm min. Treat the surface of the ground in the void with an approved weed killer.
- Glidevale Periscope vents @ 1350mm centres to allow for 1500mm<sup>2</sup> free area ventilation per metre run of wall or 500mm<sup>2</sup> per m<sup>2</sup> of floor area whichever is greater.
- Flat air bricks to match facing brick

Notes: - Do not scale from drawings unless by agreement with HTA. Use figured dimensions only. Check all dimensions on site prior to commencing the works. Drawing to be read in conjunction with other relevant consultant information. This drawing is the copyright of HTA Design LLP, and must not be copied or reproduced in part, or in whole, without the express permission of HTA Design LLP. Drawing to be read in conjunction with outline specification.

Drawing Notes: -

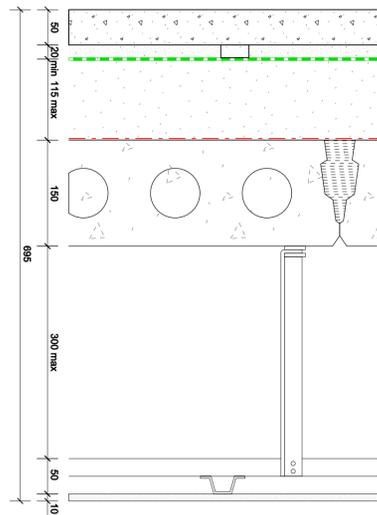
Legend: -

- Single Ply Membrane
- vapour-permeable Roofing Underlay
- Waterproof breather membrane
- Vapour control layer / Vapour barrier
- DPM
- DPC
- Lap tape
- Polythene separating membrane
- Liquid Applied Integrity Tank
- Rigid Closed Cell Insulation (refer to Outline Spec.)
- Insulation (refer to Outline Spec.)
- Airtightness
- Sealant for airtightness

For all structural requirements refer to Structural Engineers & Subcontractors details and specs

**FT-04 - External Deck, above ground**  
U-values - NA

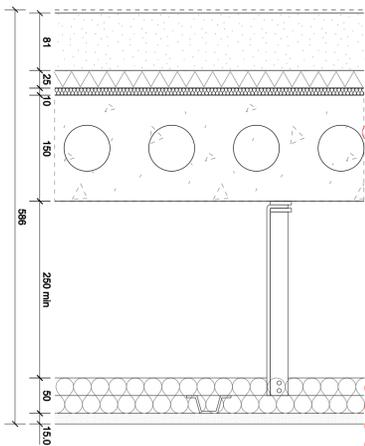
To achieve 60 minutes fire resistance from both sides



- 450x450x50mm standard textured concrete pavers to be Marshall or equivalent.
- 20mm min. sand with self leveling feet to support pavers.
- Liquid applied RIW Flexiseal Pro integrity tank or equivalent installed to manufacturer recommendations
- Reinforced screed laid to 1:40 fall (max height 115mm, min height 65mm)
- Proprietary 1200 gauge DPM
- 150mm hollowcore precast concrete floor planks, 300 kg/m<sup>2</sup> (min) mass per unit area.
- Suspended ceiling void varies: 300mm ground floor, 250mm upper floors.
- Proprietary metal ceiling structure suspended from Thermal Economics Isosonic cleats.
- 10mm fair faced cementitious board.

**FT-05 - Compartment Floor (common areas)**  
Deemed to provide 0 W/m<sup>2</sup>K U-Value

To achieve 60mins fire resistance from both sides



- Floor finish (carpet)
- 51mm to 81mm Tarmac Topflo screed (thickness varies to allow for 30mm camber in pc floor)
- 25mm Kingspan thermofoam TF70 or equivalent to achieve a thermal resistance above 0.75 sqm K/W
- 10mm Tekfoam10 acoustic layer with IsoEdge 6/260 flanking strip.
- 150mm hollowcore precast concrete floor planks, 300 kg/m<sup>2</sup> (min) mass per unit area.
- 250mm (min) suspended ceiling void.
- Proprietary metal ceiling structure suspended from Thermal Economics Isosonic cleats
- 50mm (min) Isosonic Ceiling Quilt.
- one layer 15mm (nominal 10 kg/m<sup>2</sup>) gypsum based board
- taped and sealed joints

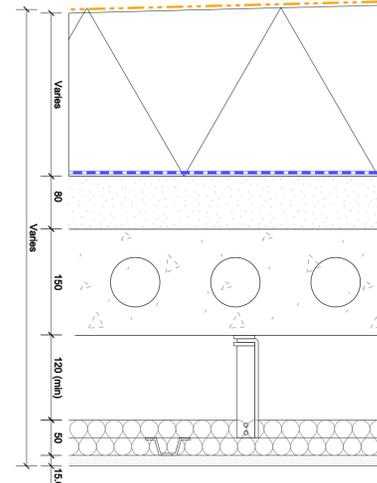
NOTE: For acoustic plasterboard layout ref. to reflected ceiling dwgs.

2- Acoustic layer revised by Primus from 6mm IsoRubber as required by Robust Detail E-FC-14 to Tekfoam10. This has an unknown impact on the acoustic performance of this wall type. Primus to appoint acoustic engineer to confirm acoustic performance and ensure pre-completion sound tests achieve the required 5dB better than building regulations.

**Roof Type RT-01: Single Ply Membrane Warm Roof**  
0.13W/m<sup>2</sup>K U-Value

- Sarnafil or similar approved lacquered reinforced waterproof membrane (thickness: 1.8mm, colour: light grey) fully adhered in accordance with manufacturers requirements.
- 180mm average thickness (30mm minimum, 300mm maximum) Kingspan Thermofoam PIR insulation or equivalent fixed by Kingspan approved installer.
- 125 micron high performance polythene vapour control layer
- 50mm to 80mm sand/cement structural bonded screed (thickness varies to allow for 30mm camber in pc floor)
- 150mm hollowcore precast concrete floor planks, 300 kg/m<sup>2</sup> (min) mass per unit area.
- 120mm (min) suspended ceiling void (250mm min. void in common areas)
- Proprietary metal ceiling structure suspended from Thermal Economics Isosonic cleats
- 50mm (min) Isosonic Ceiling Quilt (in common areas only)
- One layer 15mm (nominal 10 kg/m<sup>2</sup>) gypsum based board.
- Taped and sealed joints.

NOTE: For acoustic plasterboard layout ref. to reflected ceiling dwgs.



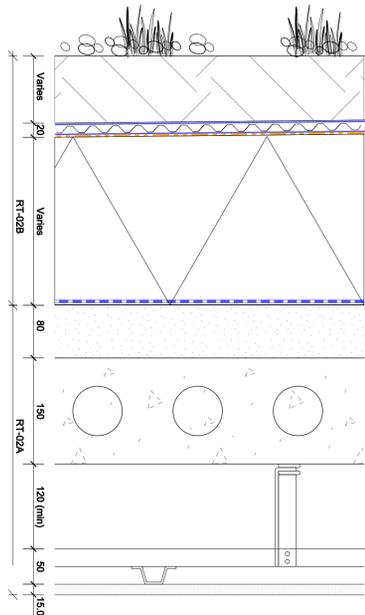
**Roof Type RT-02: Brown Roof Warm Roof**  
0.13W/m<sup>2</sup>K U-Value

RT-02B Proprietary Brown Roof System  
All items shall be sourced from a single manufacturer and installed by a single subcontractor approved by the manufacturer in accordance with the manufacturer's specification, recommendations and standard details, including but not limited to the following:

- Proprietary growing medium
- Proprietary edge angle to retain growing medium
- Proprietary washed round stones, 25-40mm diameter, as ballast to perimeter of brown roof
- Proprietary filter fleece
- 20mm minimum proprietary drainage & retention layer
- Proprietary protection fleece and root barrier
- Proprietary fully adhered warm roofing system that is BBA Certificated as being suitable for a 1:40 falls flat roof
- Proprietary compatible rainwater outlets to be run through the parapet walls to feed into hoppers by others
- Tapered insulation, 180mm average thickness, high performance rigid thermoset insulation with a thermal conductivity of 0.024W/mK, tapered to 1:40 falls, fully compatible with the roofing membrane and its adhesive fixing system, resistant to the passage of water vapour
- 100mm thick insulation to upstands, insulation type as described above
- High performance polythene vapour control layer
- Key stages of the installation shall be monitored by the Brown Warm Roof System manufacturer's Technical Managers and Site Technicians to ensure a consistently high standard of workmanship and compliance with the specification
- The manufacturer shall provide for the Brown Warm Roof System a 25 year minimum insurance backed guarantee, fully transferable to the client and any subsequent building owners against any defects in materials, products, installation/workmanship
- The manufacturer/approved subcontractor shall provide for the Brown Warm Roof System a maintenance schedule

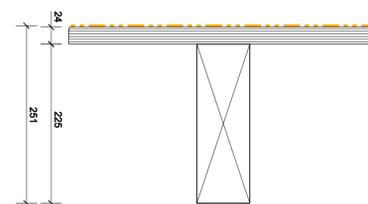
**RT-02A Roof Structure**

- Proprietary external grade self-levelling compound to achieve zero falls on top of screed
- 50mm to 80mm sand/cement structural bonded screed (thickness varies to allow for 30mm camber in pc floor).
- 150mm hollow-core precast concrete floor planks, 300 kg/m<sup>2</sup> (minimum) mass per unit area
- 120mm min suspended ceiling void
- Proprietary metal ceiling structure suspended from Thermal Economics Isosonic cleats
- One layer 15mm (nominal 10 kg/m<sup>2</sup>) gypsum based board
- Taped and sealed joints



**Roof Type RT-03 Single ply membrane**  
U-Value - NA

- Sarnafil or similar approved lacquered reinforced waterproof membrane (thickness: 1.8mm, colour: light grey) fully adhered in accordance with manufacturers requirements.
- 24mm marine plywood laid to 1:80 fall
- 75x225mm treated timber joists



key plan

revision	date	drawn	description
D	03.02.16	JC	Wet area tanking notes Amended, screed type amended, acoustic layer thickness amended. Note added to FT02-5 area amended
C	18.12.15	JC	Wet area notes Amended, tanking note to external deck area amended
B	05.10.15	JC	Brown roof amended
A	24.09.15	JC	Brown roof amended - issued for construction
	06.07.15	VME	Initial issue

FOR CONSTRUCTION

PRIMUS  
Willingham Terrace Camden NW5 2UY  
client / job name

**Floor & Roof Types**

drawing title

WTC AC 14-461  
drawing number

revision D

job reference scale 1:10 @ A3 drawn PSW

106-110 Kentish Town Road London UK NW1 9PX  
P (020) 7485 8555 F (020) 7485 1232 info@hta.co.uk