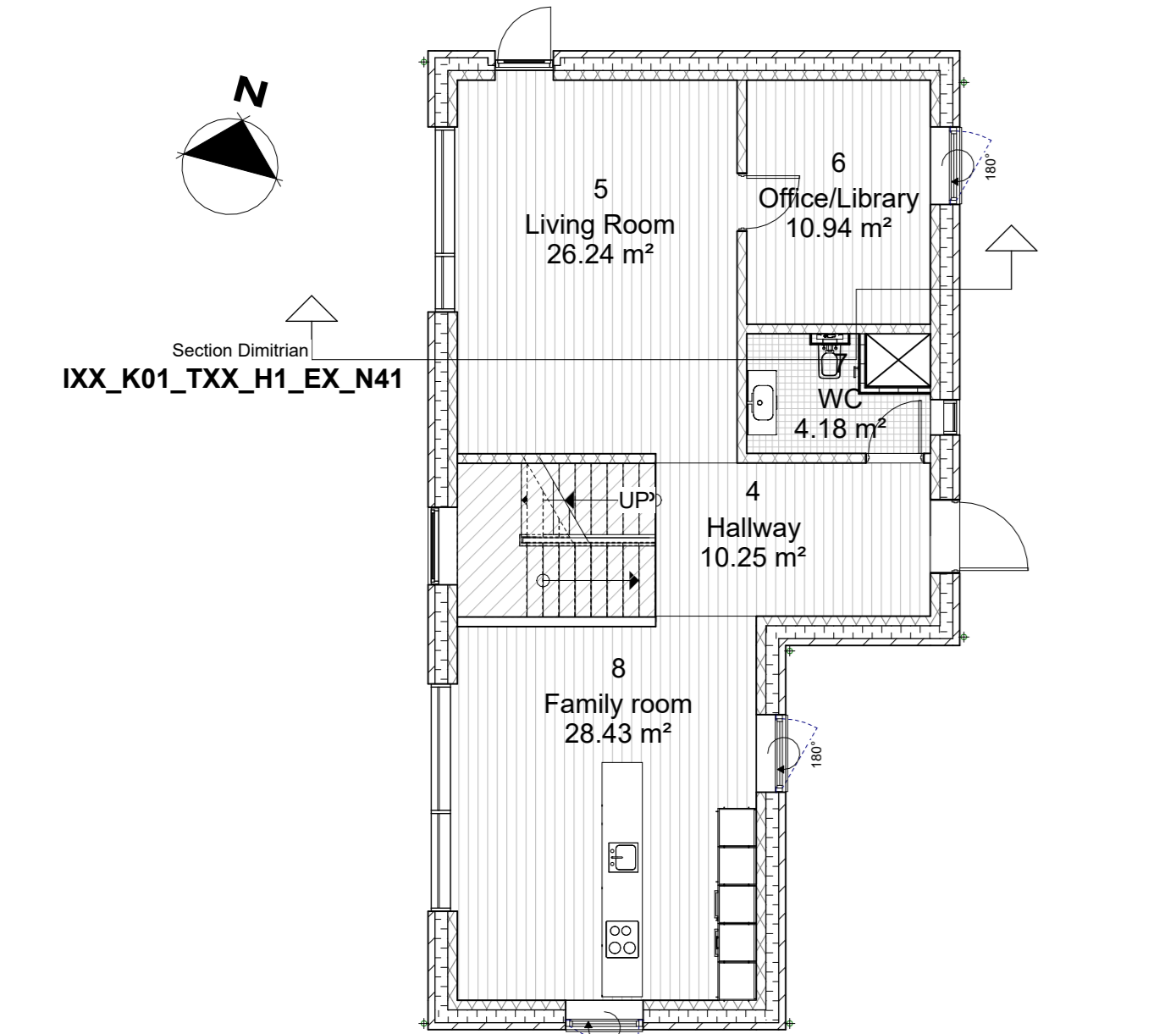
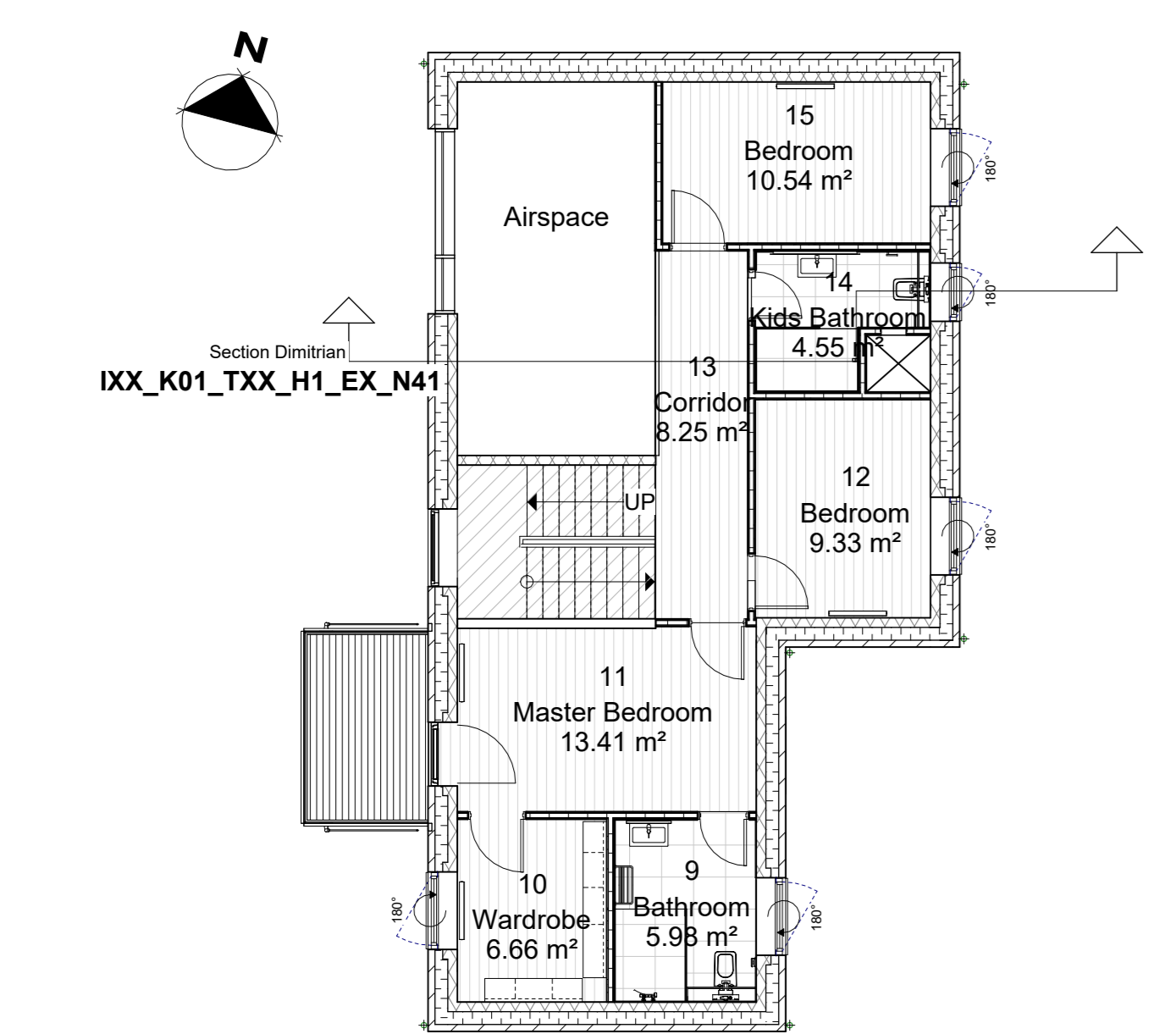


Basement Plan
1:100



Groundfloor Plan
1:100



1 Floor Plan
1:100

Ridge

- Ridge Ventilation is delivered flat and bent to fit the slope of the roof. It is Aluzinc-coated steel, 0.6 mm
- Ridge Battens are 38x73mm

233.001 Light Floor Partition

Thickness: 407mm

Wood Flooring:

- Laminate 22 mm
- Plywood 22 mm
- Battens 89x73 mm
- Open Wooden Web Joist 220 mm with 100 mm Rockwool Insulation inside
- Ceiling Battens 38x73mm
- Two Layers of Gypsum Ceiling Cladding 2x12.5mm

Wet Rooms Flooring:

- 200x200mm Ceramic Tiles 10 mm
- Tile Glue 5 mm
- Watertight Membrane
- Screed Layer 53 mm
- Concrete Layer 40 mm with e20mm Floorheating Pipes with a Minimum of 30mm Screed Above Pipes
- Metal Dovetailed Sheet 16 mm
- Vapour Barrier
- Open Wooden Web Joist 220 mm
- Ceiling Battens 38x73 mm
- Two Layers of Gypsum Ceiling Cladding 2x12.5 mm

Demands

- Fire Class REI 30

U-Value

- Recommended U-Value: 0.5 W/m²K
- Actual U-Value: 0.23 W/m²K

233.001 Open Web Joist

Thickness: 220 mm and 300 mm

- Open Wooden Web Joist 90x220 mm and 90x300 mm
- Placed Longitudinally, the Web Joists are 4580 mm and 4246 mm in Length, and 3171 mm near the Shaft.
- The Web Joists are resting on a Metal Bracket Fastened to the Inner Leaf of the External Walls by a Wooden Wall Plate.
- The Web Joists are Filled With 100mm of Mineral Wool Insulation

221.002 Internal Groundfloor Walls

- Mortar 10mm before the Aerated Concrete Blocks
- Walls are Aerated Concrete Blocks 150x400x600 mm
- 150mm Width 400mm Height, 600mm Length Aerated Concrete
- The Ytong Plade are joined using glue of 1mm
- Wall Plate is fixed on the top Block with a Chemical anchor and the Open Web Joist is placed on the Wall Plate

Demands

- Fire Class REI60

334.001 Ground Supported Slab

Thickness: 505mm

- Vinyl Sheet Flooring 5mm
- Concrete Slab 100mm
- Hard Insulation 250mm
- Damp Proof Membrane
- Capillary Layer 150mm
- Damp Proof Membrane 200 mm over Capillary Breaking Layer and 200mm Below Concrete Slab
- 20mm of Hard Insulation at the Connection of Ground Supported Slab To External Wall Joint

U-Value

- Recommended U-Value: 0.2 W/m²K
- Actual U-Value: 0.15 W/m²K

221.001 Internal Basement Walls

- Mortar 10mm before the Light Clinker Block
- Light Clinker Block 190x150x90mm
- Mortar 40mm after the Light Clinker Block
- Wall Panel 150mm Width Concrete C25

Demands

- Fire Class REI60 A1

123.001 Foundation

- In-Situ Casted Concrete External Foundation 400x600mm and In-Situ Casted Concrete Internal Foundation 315x400mm
- The Foundation is Reinforced by ø12mm Metal Bars
- Blinding Layer 50mm
- Perimeter Drain ø80mm is Placed in a 300x300mm Capillary Layer Made of Gravel Next to the Foundation

472.001 Roof

- 2 Layer of Bitumen Felt 0.3mm and 0.5mm
- Distance Battens 38x73mm
- Lattice Truss 64x125mm
- Walkway 800 mm

Demands

- Fire Class R30

U-Value

- Recommended U-Value: 0.2 W/m²K
- Actual U-Value: 0.116 W/m²K

Ceiling

Thickness: 363mm

- Mineral Wool Insulation 300 mm
- In between and Above Truss Bottom Chord
- Truss Bottom Chord 145mm
- Ceiling Battens 38x73mm
- Two Layers of Gypsum Ceiling Cladding 2x12.5mm

U-Value

- Recommended U-Value: 0.2 W/m²K
- Actual U-Value: 0.13 W/m²K

Eave

Thickness: 220mm

- 2 Layers of Bitumen Felt 0.3mm and 0.5mm
- Plywood 23 mm
- Distance Battens 38x73mm with a distance of 600 mm between
- Lattice Truss 45x145mm
- Soft Boards 25x100mm, 5mm Airgap in Between Boards
- Insect Net Under the Soft Boards
- Fascia Boards 19x250 mm
- Bird Screen
- Aluminium Gutter Drip
- Roof Gutter 150x93mm
- Gutter Pipe ø80mm
- Gutter Brackets
- Windbreaker 18mm Plywood, Extended Above Insulation
- Mineral Wool Insulation 300 mm
- In between and Above Bottom Chords of Trusses
- Wall Plate 38x100mm Secured to the Inner Leaf with Chemical Anchor 200mm Deep
- Roof Anchor 40x4mm, bend around Top Chord
- Damp Proof Membrane (DPM) Above Ceiling Battens
- Ceiling Battens 38x73mm Placed 300mm C/C Distance
- Two Layer of Gypsum Ceiling Cladding 2x12.5mm

Demands

- Fire Class R30

U-Value

- Recommended U-Value: 0.2 W/m²K
- Actual U-Value: 0.116 W/m²K

234.001 Internal First Floor Walls

Dry Wall 120 mm.

- 70 mm U-profile filled with 70 mm of Soft Insulation.
- The U-profile is covered by Two Layers of Gypsum Boards on Both Side 2x12.5mm.
- Around Wet Rooms, The U-profile is covered by one Layer of Gypsum Board and one Layer of Water Resistance Gypsum Boards.

Demands

- Fire Class REI60

213.001 Groundfloor External Wall

- Brick Wall 458mm_brick/insulation/Ytong Plade
- 108mm Brick
- 200mm Rockwool
- 150mm Ytong Plade

U-value: 0.15 W/m²K

Demands: 0.15 W/m²K

Fire resistance: RE60

Demands: RE60

231.001 Heavy Floor Partition

Thickness: 380 mm

- Laminate 14mm
- Foam membrane 2mm
- Concrete with Floor Heating Pipes 68mm with 300mm between the pipes
- Sound Membrane 6 mm
- Thermolite Insulation 110mm
- Prefabricated Concrete Deck Element 180x1200mm

Demands

- Fire Class REI 60 A2-s1,d0

U-Value

- Recommended U-Value: 0.5 W/m²K
- Actual U-Value: 0.44 W/m²K

211.001 Basement External Wall

Thickness: 450mm

- Prefabricated Sandwich Element Wall concrete/insulation/concrete
- External Leaf 100mm Concrete c20
- Hard Insulation 200 mm XPS Polystyrene
- Inner Leaf 150mm Concrete C20

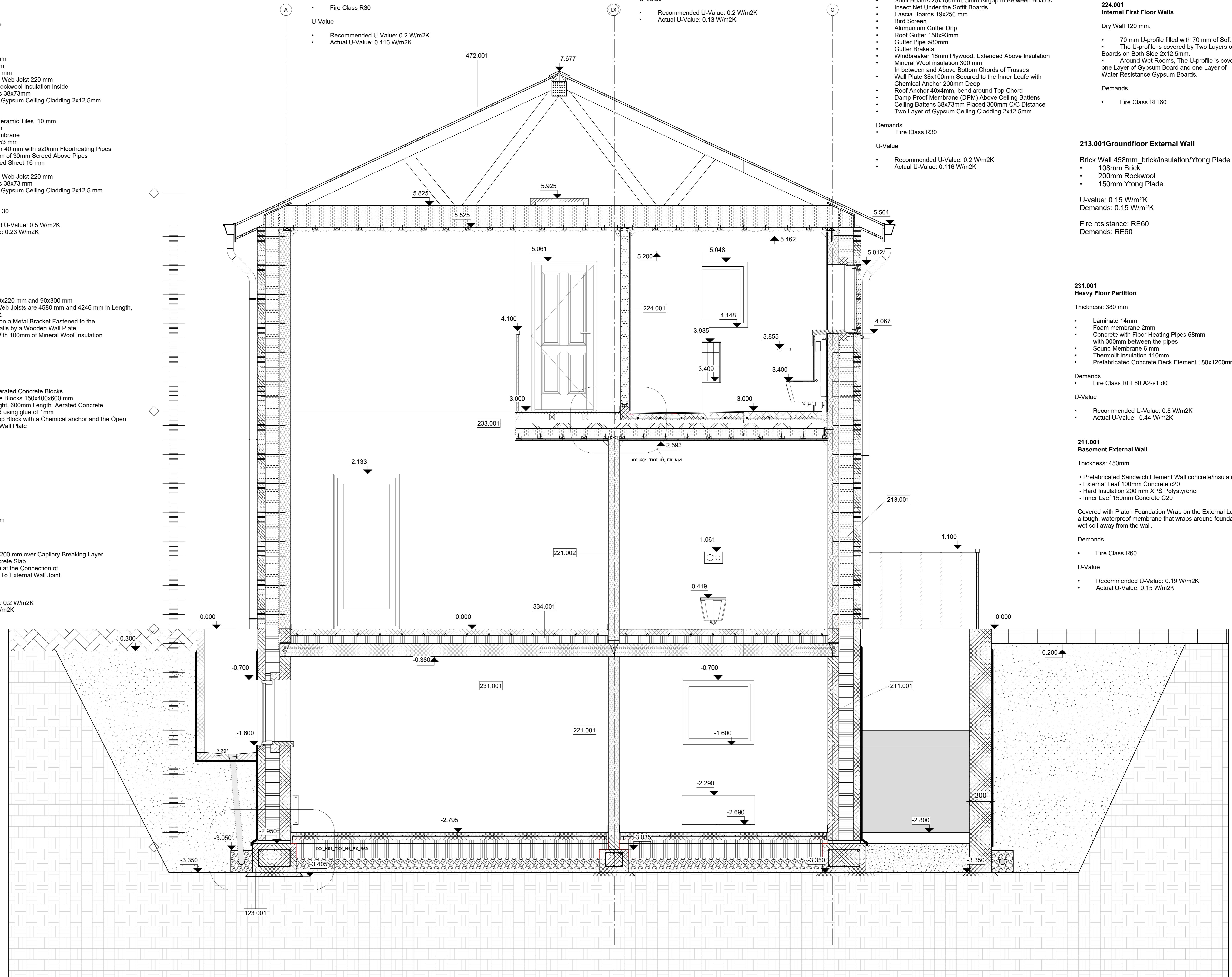
Covered with Platon Foundation Wrap on the External Leaf. Platon is a tough, waterproof membrane that wraps around foundation to keep wet soil away from the wall.

Demands

- Fire Class R60

U-Value

- Recommended U-Value: 0.19 W/m²K
- Actual U-Value: 0.15 W/m²K



Material Legend					
	Concrete		Gravel		Pavement
	Aerated Concrete		Ceramic Tile 100x100mm		Polystyrene
	Mansory Bricks		Wood-Finish		Gypsum
	Soft Insulation		Un-Excavated Soil		Mortar
	Laminated Wood		Backfill Soil		Sand