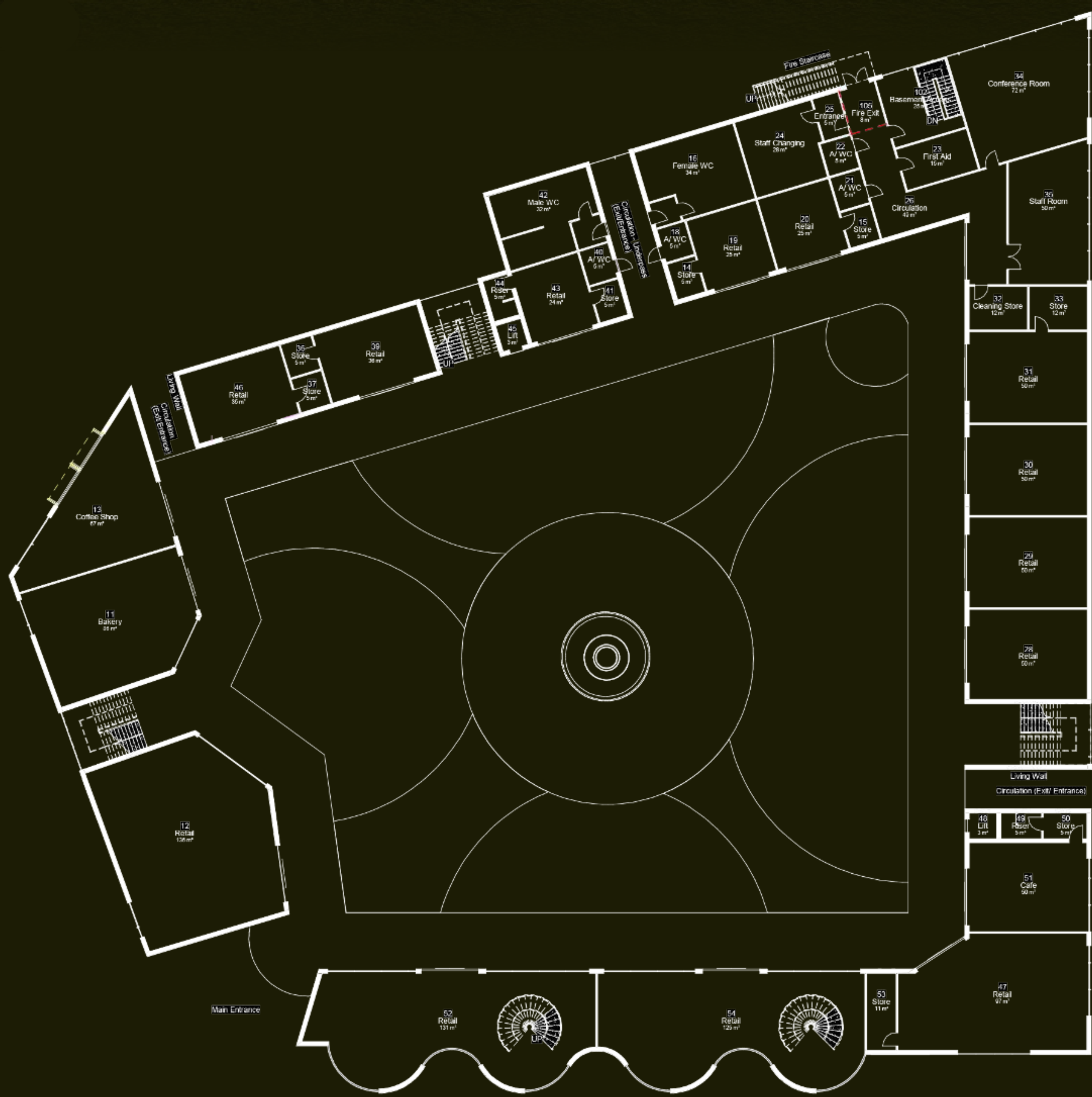


THE GRID

RETAIL AND LEISURE FACILITY



MAYFLOWER PARK

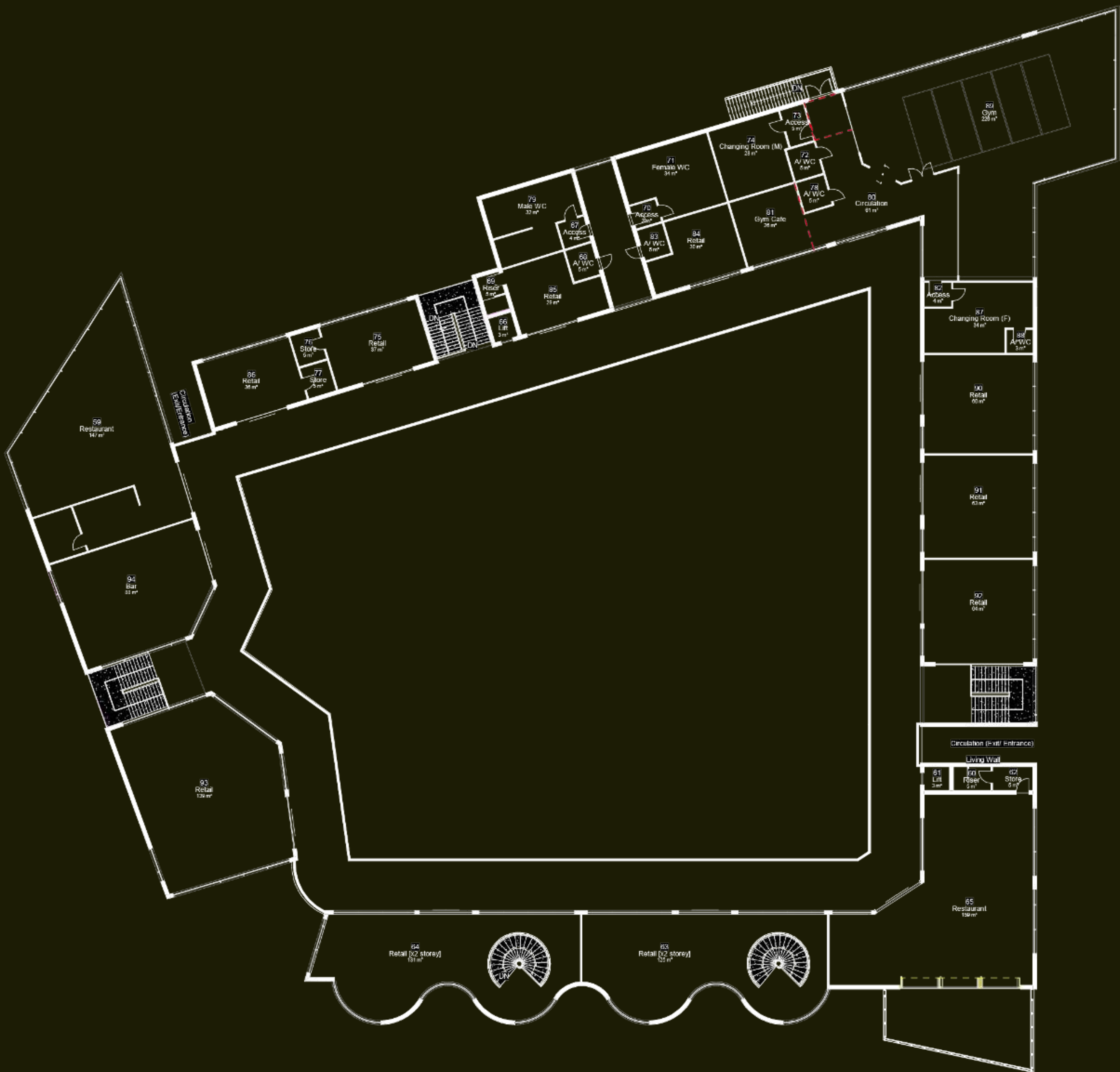


GROUND FLOOR PLAN

‘The Grid’ retail and leisure facility is a proposal that has been inspired through the growing opportunities that are available within the city of Southampton. The incentive behind designing the facility is to provide a welcoming and exciting environment for people to explore, relax and enjoy retail in a different way.

The stimulus of the project developed through the Masterplan set out by the client (Southampton City Council) and the users; everyone as a collective. With the primary focus upon sustainability, socio-economic and environmental factors, the proposal accommodates different sustainable technologies along with multiple social focal points.

The final concept for the retail facility derived from a modern, lineal and organic perspective; consisting of natural design elements and ‘sharp’ design features. Comprising of two levels and a basement, each level offers numerous retail services, ranging from Heath & Fitness services to general shopping outlets. Moreover, the ‘core’ of the facility entails of outlets/ stalls that are operated through smaller business along with a large communal area. For example, family operated businesses that are currently established within the city and/or those that wish to grow in the future and all users of the building can gather and socialise effortlessly.



FIRST FLOOR PLAN



THE GRID

RETAIL AND LEISURE FACILITY



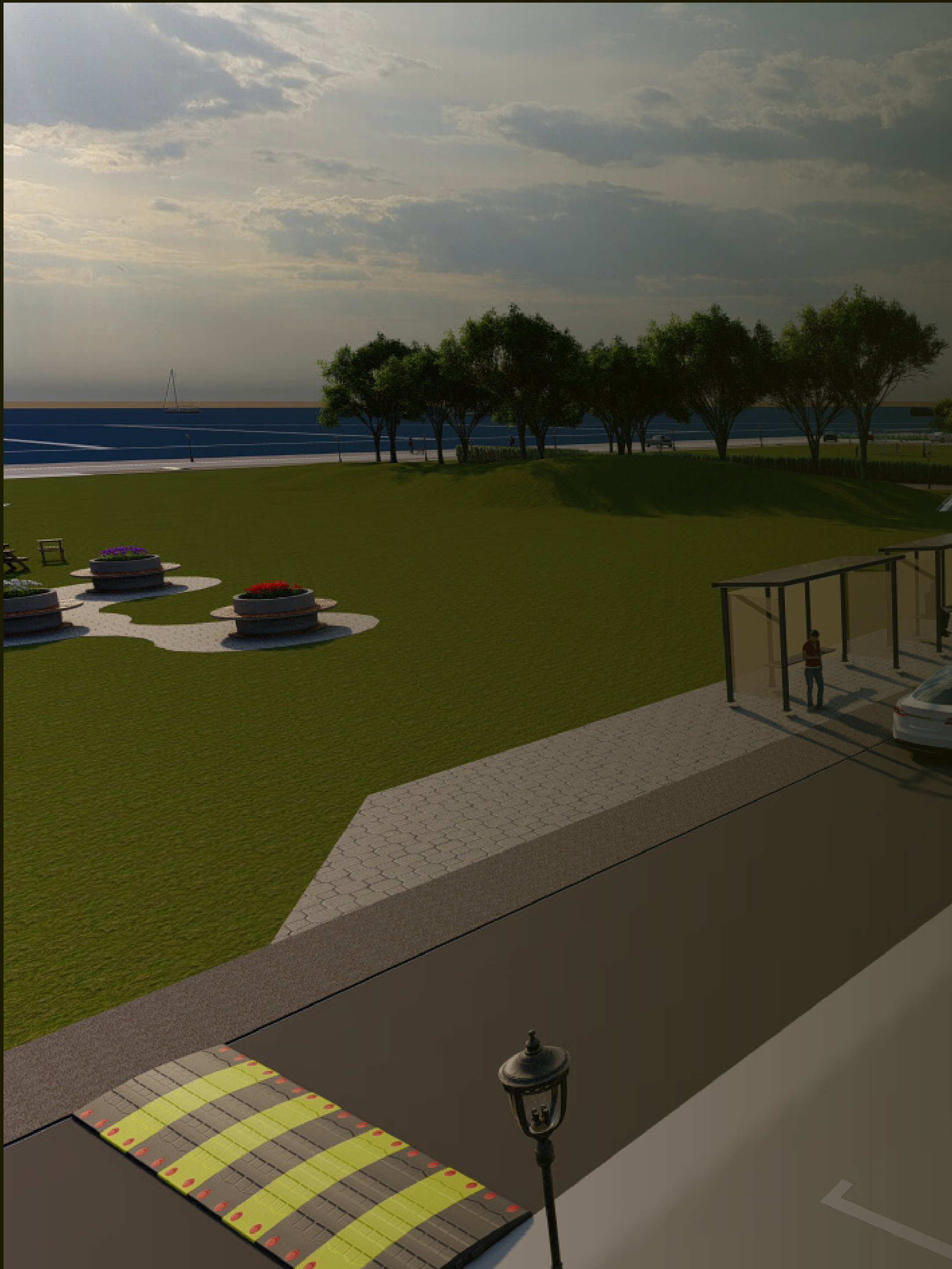
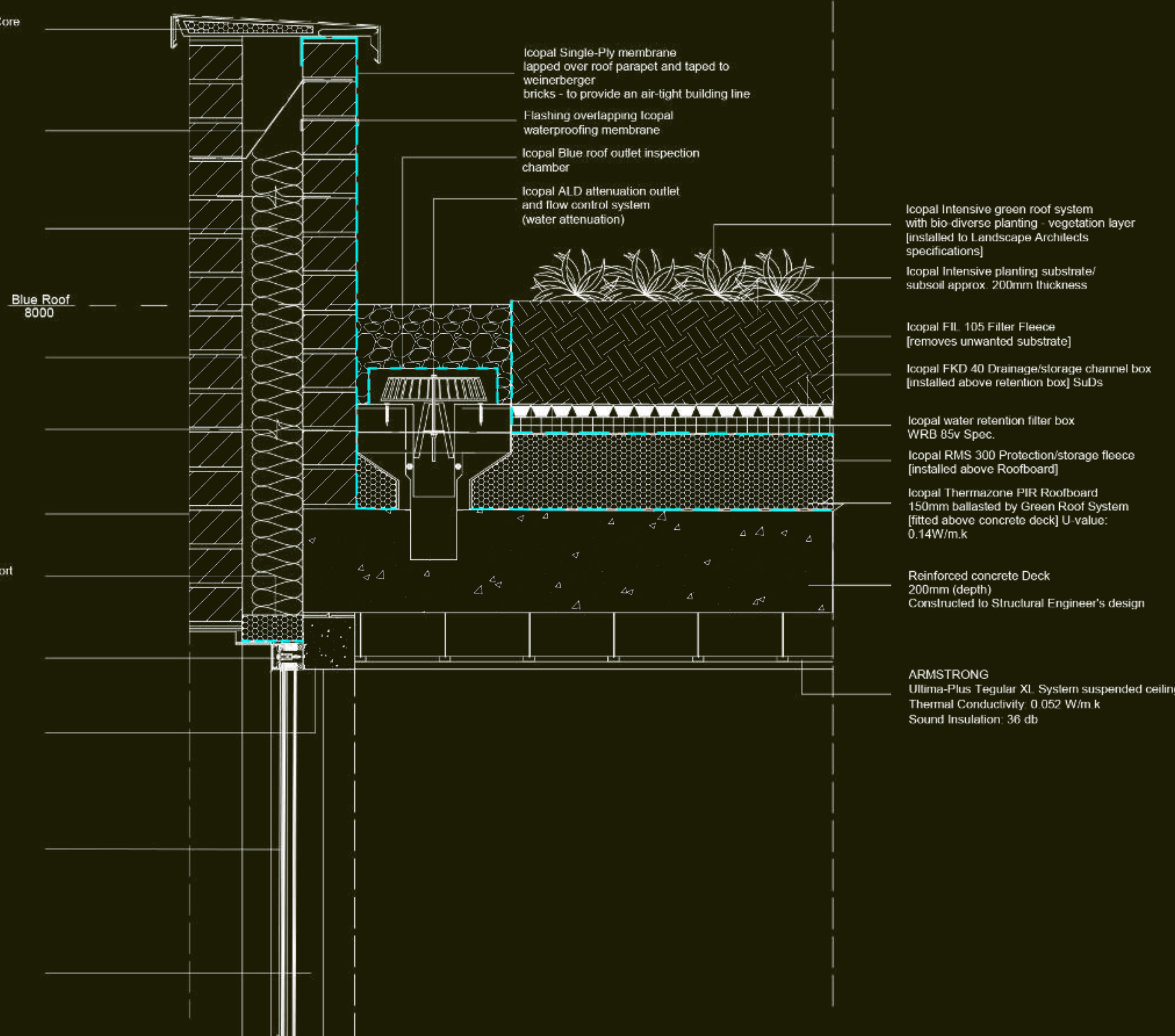
THE ENVIRONMENT • THE EXPERIENCE • THE PEOPLE



Curtain Wall to Attenuated Blue Roof

1:5

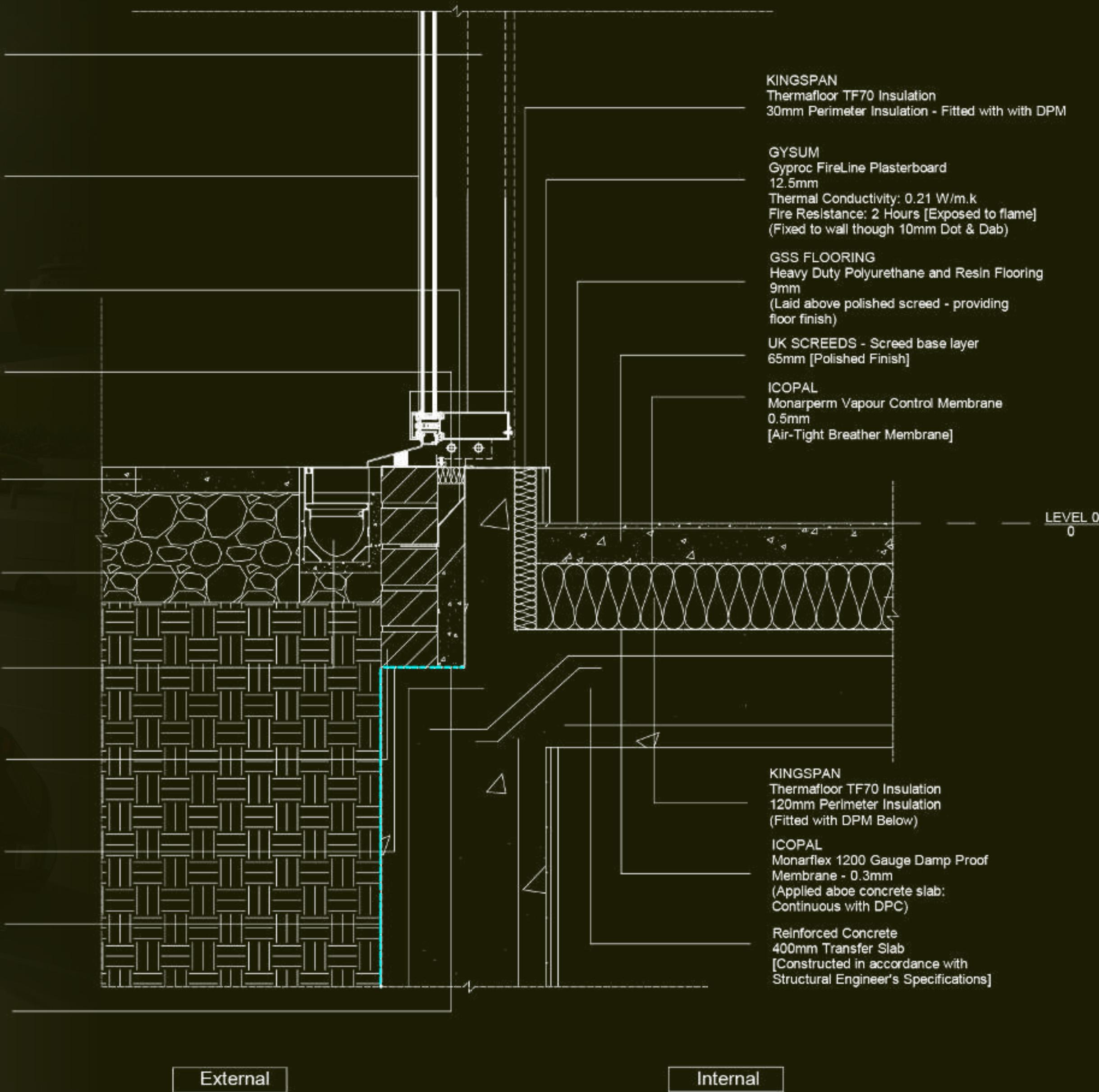
- DURASEAL**
Aluminium Roof Panel Capping - Insulated Core
(Continuous Chel - Covered with
Newton 108 HydroBond
for Drainage - Fitted with Roofing Scales)
- ACS**
G-Tray Stainless Steel Cavity Tray
225mm Length (Weep holes at intervals)
(Fitted within Wall cavity with overlapping
DPC)
- KINGSPAN**
Thermalwall TW55 Rigid Insulation
(100mm Thermal Conductivity: 0.022
W/m.k
(Fitted within Cavity Wall)
- Ventilation Void**
10mm gap continuous within wall cavity
(Prevents the build of moisture)
- ANCON**
S11 Heavy Duty Wall Tie
200mm length (20mm embedment)
(Allows beds to be shared by both
inner and outer leaf)
- WEINERBERGER**
Avenue Smooth Black Brick (85mm)
Thermal Conductivity: 0.18 W/m.k
- KAWNEER**
Insulated Butt joint - installed for system support
(Anchored joint and thermal barrier)
Waterproofing membrane applied below
- Curtain Wall Transom**
(Fixed below Parapet - screwed to lintel)
Providing a brace for complete facade to
Curtain Wall transition
- MCM Concrete Lintel**
100mm (thickness)
Massive support for above systems
- KAWNEER**
Curtain Wall System (AA110 Series)
20mm Tilted Glazing
Thermal Conductivity: 1.0 W/m.k
Fire Resistance: In accordance with EN 1364-3
Drainage provided through mullions
Sill Deflection < 15mm
- KAWNEER**
Steel Fixing System
(Supports entire Curtain wall System
Provides structural stability)



Ground Floor to Curtain Wall System

1:5

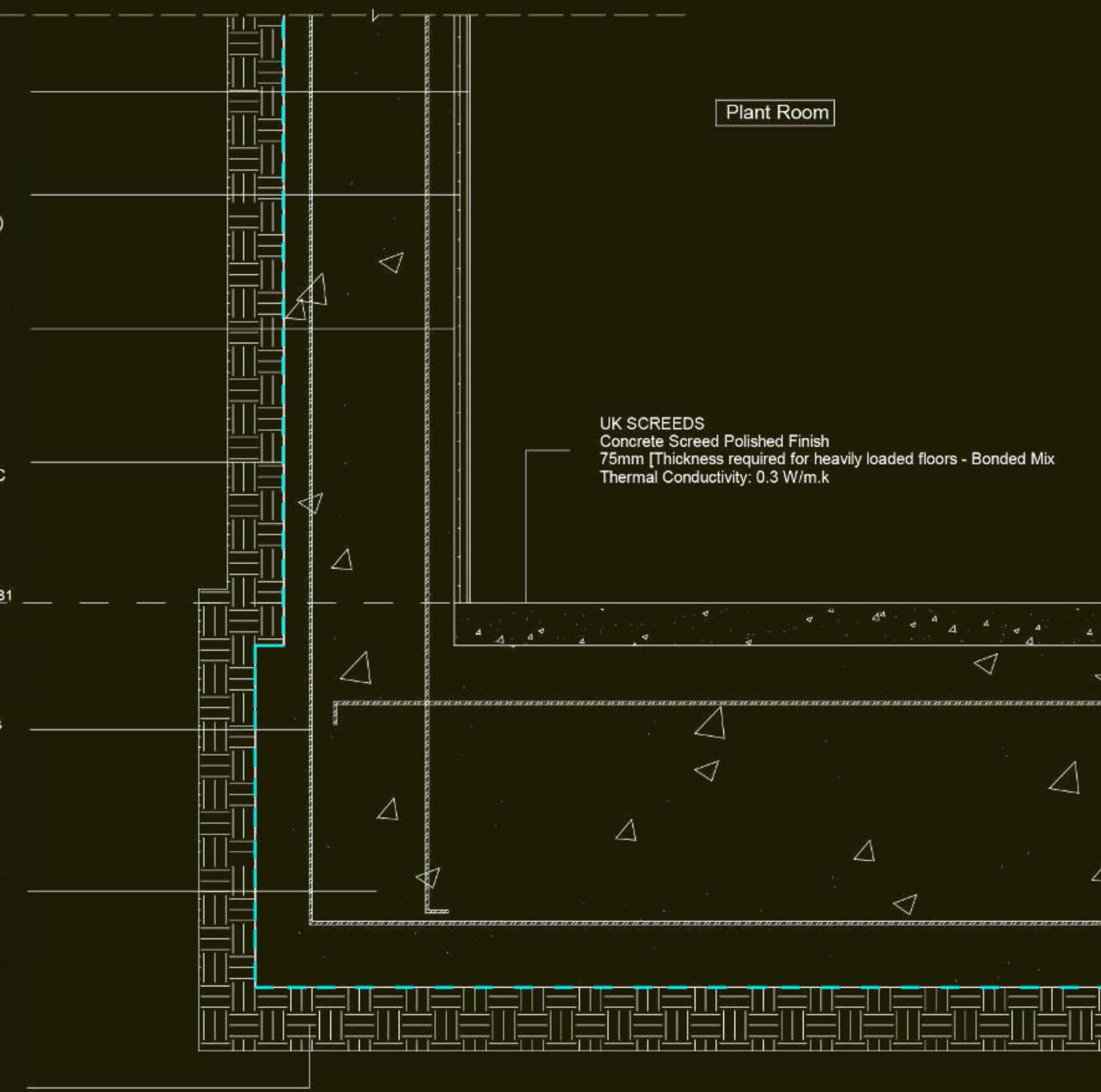
- KAWNEER**
Stick Framing System
(Supports entire Curtain wall System -
Provides structural stability)
- KAWNEER**
Curtain Wall System (AA110 Series)
20mm Glazing
Thermal Conductivity: 1.0 W/m.k
Fire Resistance: In accordance with EN 1364-3
Drainage provided through mullions
Sill Deflection < 15mm
- ACS**
G-Tray Stainless Steel Cavity Tray
225mm Length (Installed at Manufacturer's requirements)
(Fitted within Wall cavity with overlapping DPC)
-Prevention of rain penetration
- KINGSPAN**
Keeleth Cavity Closer
30mm
Thermal Conductivity: 0.021 W/m.k
(Prevention of Thermal bridging)
- MARSHALLS**
Riviera Paving - Dark Pewter
200mm Pave Depth
(Placed upon Hardcore base - providing exterior floor
finish)
- TRAVIS PERKINS**
Hardcore - Crushed Run mix
200mm Base Layer
(Material laid to resist pressure of
live loads above/slightly paving base)
- ACC**
RainDrain Brickslat Drainage System
90mm Depth
(Polymer concrete drain surrounded by
20mm Sand Blinding - Fitted within Hardcore)
- WEINERBERGER**
Avenue Smooth Black Brick (85mm)
Thermal Conductivity: 0.18 W/m.k
- NEWTON 108 - LM**
Seamless Rubber Waterproofing/Liquid membrane
Membrane overlaps 100mm hydrobond
(Applied to concrete surface to prevent water tracking)
- NEWTON 108 HydroBond - LM**
External Waterproofing membrane
(Cold-Spray product applied to RC Wall)
-Overlapping DPM
- NEWTON 203 - RM**
Concrete In-Fill



Basement RC Wall/Waterproofing Arrangement

1:5

- GYPSUM**
Taslee PureFinish
Ready-Mixed Plaster 5mm (x2 Application)
- GYPSUM**
Gyproc WallBoard (Plasterboard)
12.5mm
Internal RC Wall Finish
(Fitted to RC Wall through Dot & Dab appliance)
- GYPSUM**
Knauf Based Plasterboard Adhesive
10mm
(Dot & Dab product) 25kg
(Direct bonding of Plasterboard to RC Wall)
- NEWTON 108 HydroBond - LM**
External Waterproofing Membrane
0.2mm
(Membrane entirely envelopes the Basement RC
Wall and Slab)
(Product is Cold-Spray applied to RC external)
-Providing complete waterproofing
- HEATON MANUFACTURING**
Embedded Steel Mesh Reinforcement Bars
B503 Specification
(Constructed in accordance with Manufacturer's
Specifications)
- In-Situ Reinforced Concrete Basement**
Retaining Wall below ground Level
300mm RC Wall
600mm RC Slab
(Accompanied with a Type A:
Newton Waterproofing System)
(Constructed in accordance with
Structural Engineer's Specifications)
- EARTH**
Surrounding Basement
(Excavations carried out in accordance with
Engineer's Specifications)



CONCRETE BASEMENT CONSTRUCTION: ILLUSTRATIVE ONLY - REFER TO ENGINEER'S SPECIFICATIONS
*NEWTON MEMBRANES MUST OVERLAP BRICKWORK, BLOCKWORK AND DPC TO CREATE A COMPLETE WATERPROOF ENVELOPE