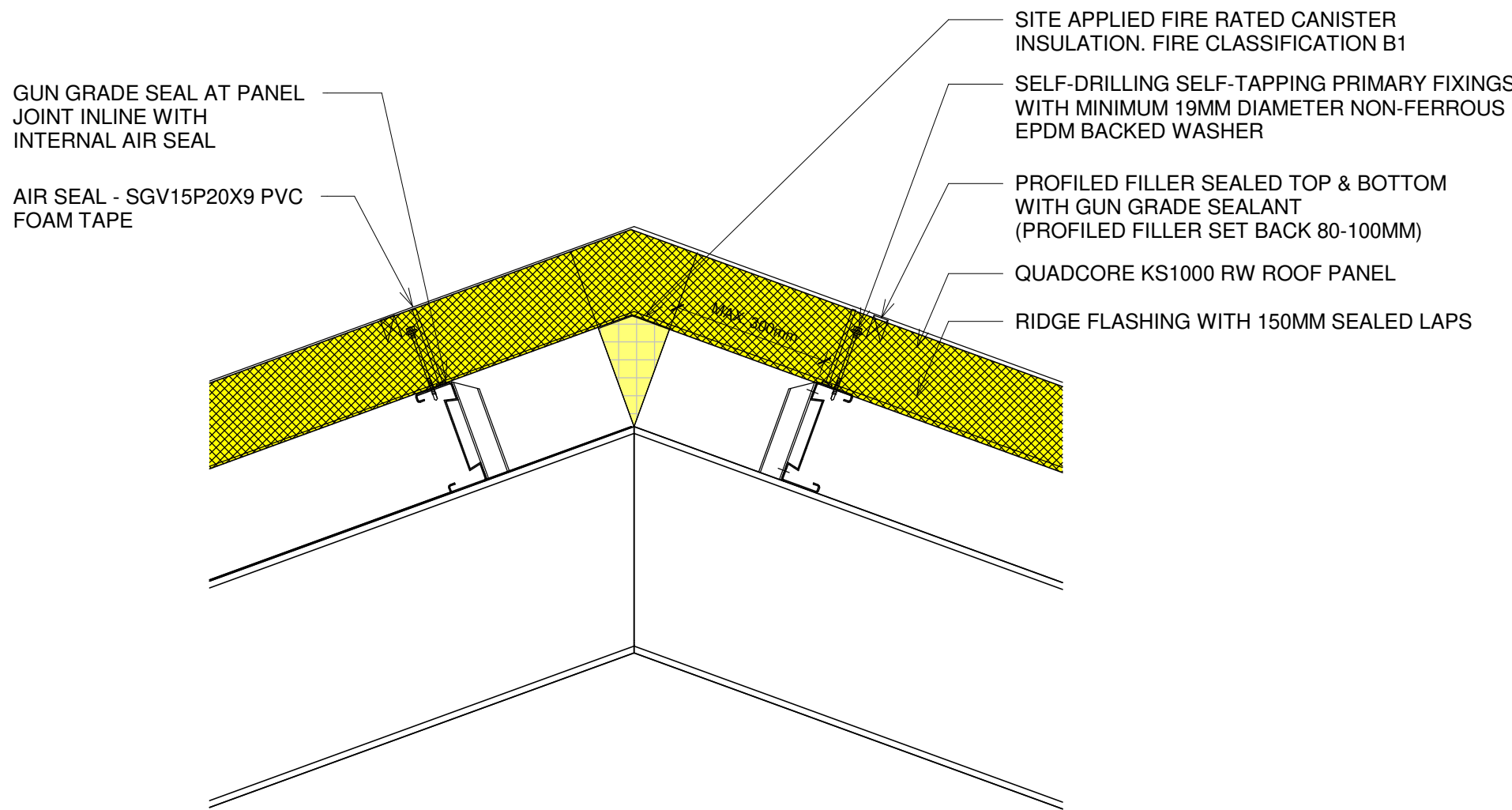
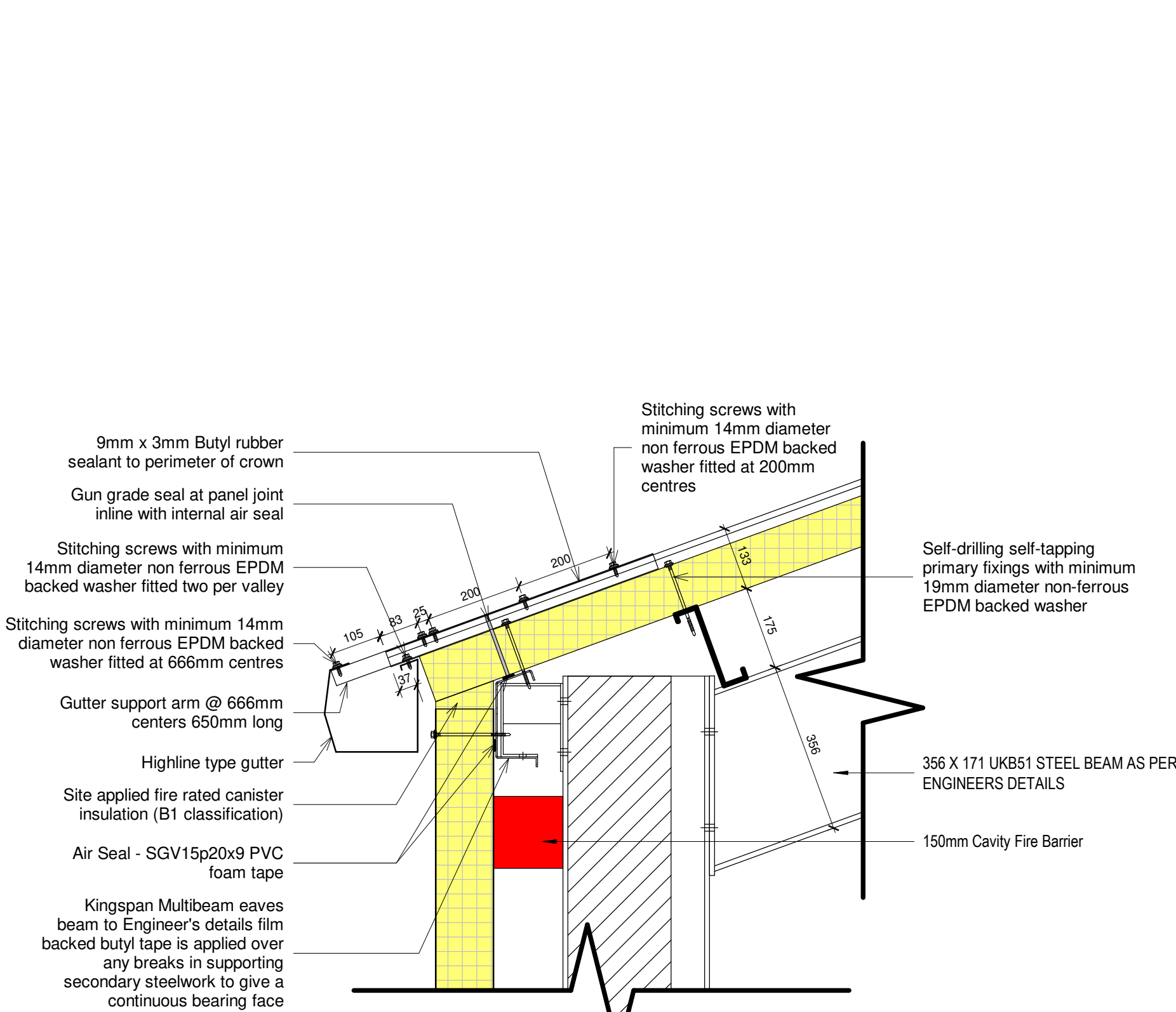




DETAIL 02- ROOF RIDGE

1 : 10

Estimated Quantities & Cost

Material Name	Area	Volume
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CL 101 - 600x1200 Mineral Fibre Suspended Ceiling System		
Ceiling Tile 600 x 1200	15 m²	0.24 m³
Metal - Stud Layer	15 m²	0.55 m³

FL 101 - Ground Bearing Power-Floated Concrete Floor Slab		
Concrete - Cast-in-Place Concrete	219 m²	43.71 m³
Damp-proofing	219 m²	0.00 m³
Rigid insulation	219 m²	17.48 m³
Site - Hardcore	219 m²	54.63 m³

FL 102 - 150mm Reinforced External Concrete Footpath		
Concrete, Cast In Situ	529 m²	79.42 m³
Hardcore	529 m²	156.85 m³

JN 101 - Training Booth Raised Platform Floor System		
Plywood Sheathing 20mm	63 m²	1.27 m³
Structure - Timber Joist/Rafter Layer	63 m²	8.23 m³

Cladding Roof 100		
Concrete, Cast In Situ	31 m²	0.00 m³
Kingspan KS1000RW 151mm	49 m²	6.58 m³

RF 201 - Kingspan QuadCore KS1000RW 151mm Insulated Roof Panel		
QuadCore KS1000RW Panels 151mm	254 m²	34.30 m³

FD 101 - Reinforced Concrete Strip Foundation 900x300		
Concrete, Cast-in-Place gray	174 m²	19.12 m³

JN 201 - Training Booth Service Partition 40mm		
Plywood Sheathing 20mm	166 m²	3.32 m³

WL 101 - 100mm Internal Concrete Block Partition Wall		
Concrete Masonry Units-30MM	29 m²	2.89 m³
Selected Paint to Blockwork	58 m²	0.12 m³

WL 101 - 100mm Internal Concrete Block Partition Wall 2		
Concrete Masonry Units-30MM	32 m²	3.22 m³

WL 101 - 200mm Internal Concrete Block Partition Wall		
Concrete Masonry Units-30MM	7 m²	1.48 m³

WL 201 - 215mm Concrete Blockwork Wall with Vertical QuadCore Reinsoeren System		
Concrete Masonry Units-60MM	336 m²	71.79 m³
QuadCore KS1000RW Panels 151mm	698 m²	47.64 m³
Vapour Barrier	336 m²	0.00 m³
Ventilated Cavity & Purins	332 m²	49.64 m³

WL 202 - 215mm Concrete Blockwork Wall with Horizontal Insulated Panel Cladding		
Concrete Masonry Units-60MM	24 m²	5.24 m³
Kingspan Insulated Panel Horizontal Layout 151mm	24 m²	3.67 m³
Vapour Barrier	24 m²	0.00 m³

WL 203 - Reinforced Retaining Wall with Waterproof Protection System		
AEC, Concept - White	96 m²	0.95 m³
Concrete Masonry Units	47 m²	14.45 m³
Plastic - Silver	106 m²	0.00 m³

Keynote Legend

Key Value	Keynote Text
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BD 201	External Metal Balustrade - Proprietary galvanised steel balustrade and handrail system complete with posts, rails, infill bars or mesh panels, base plates, brackets, fixings and all associated accessories. Steelwork to be hot-dip galvanised after fabrication and polyester powder coated where specified. Provide corrosion resistant fixings, concealed connections where possible and robust installation suitable for external exposure. Balustrade heights, openings and loadings to comply with TGD K Stairways, Ladders, Ramps and Guards and TGD M Access and Use. Structural steelwork to comply with EN 1090. Installation to comply with TGD D Materials and Workmanship.
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CL 101	Suspended Ceiling - 600x1200 mineral fibre suspended ceiling system comprising exposed galvanised steel grid, suspension hangers, perimeter trim and acoustic ceiling tiles. Tiles to achieve minimum Euroclass A2-s1,d0 fire performance. Installation to EN 13964. All access panels, service penetrations, edge trims and movement joints included. Workmanship and materials to TGD B Fire Safety and TGD D Materials and Workmanship.
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DR 101	Internal Door Set - Complete internal doorset comprising factory-finished timber door leaf, frame, architraves, hinges, handles, locks, stops, seals, fixings and all associated ironmongery. Provide vision panels, kick plates, acoustic seals and fire-rated construction where required by the Fire Strategy drawings. Doors to be robust and suitable for educational and workshop environments. Installation to comply with TGD B Fire Safety, TGD D Materials and Workmanship and TGD M Access and Use.
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DR 201	External Door System - Supply and install complete insulated external doorset including door leaf, frame, threshold, ironmongery, security hardware, weather seals, flashings, fixings and all associated accessories. Door assembly to provide weather resistance, airtightness, durability and thermal performance appropriate to the building use. Provide safety glazing to vision panels where required and accessible ironmongery in accordance with Part M. External door assembly to achieve a maximum U-Value of 1.4 W/m²K or better, or lower where required by project energy calculations. Installation to maintain continuity of insulation, airtightness and damp proofing. Comply with TGD B Fire Safety, TGD C Site Preparation and Resistance to Moisture, TGD D Materials and Workmanship, TGD L Conservation of Fuel and Energy and TGD M Access and Use.
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DR 202	Insulated Industrial Roller Shutter Door - Proprietary electrically operated insulated steel roller shutter door complete with galvanised guides, weather seals, flashings, safety devices, controls and all associated fixings. Double-skin insulated steel curtain with corrosion resistant factory finish. Provide airtight and weatherproof installation. Door assembly to achieve a maximum U-Value of 1.5 W/m²K or better. Installation to comply with TGD B, TGD D and TGD L.
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FD 101	Strip Foundations: Reinforced concrete strip foundations constructed to dimensions, reinforcement requirements and bearing levels as detailed on Structural Engineer's drawings and specifications. Concrete to minimum strength class as specified by the Structural Engineer and in accordance with IS EN 206 and Eurocode 2. Provide excavation, preparation of formation level, reinforcement, concrete placement, concrete cover and all associated works required for a complete foundation system. Installation and workmanship to comply with TGD A Structure and TGD D Materials and Workmanship. Structural Engineer's drawings and specifications shall take precedence where applicable.
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FL 101	Ground Bearing Power - Floated Concrete Floor Slab - 200mm Dp C30/37 CONCRETE SLAB (SINGLE A393 MESH ON TOP) ON 80mm FLOOR INSULATION ON KKDPM ON 35 mm SAND BLINDING ON 150 mm COMPACTED CL804 ON TYPE 6F2 HARDCORE COMPACTED IN 300 mm LAYERS.
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FL 102	External Footpath - 150mm reinforced concrete footpath comprising C30/37 concrete slab on minimum 300mm compacted Clause 804 hardcore sub-base. Provide brushed anti-slip finish, expansion joints at maximum 3m centres and falls away from building. Concrete to IS EN 206. Installation to comply with TGD C and TGD M Access and Use.
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FL 201	Precast hollowcore concrete suspended floor system: precast hollowcore concrete planks spanning between structural walls or beams, structural grout joints between planks, 50mm levelling screed with mesh reinforcement, resilient acoustic layer where required, final floor finish above.
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JN 101	Training Booth Raised Platform Floor System - Internal non-structural platform raised 150mm from FFL comprising treated timber joist framework with 20mm structural plywood deck fixed using countersunk corrosion-resistant screws. Provide perimeter noggings, restraint blocking, concealed fixings and smooth sanded finish ready for decoration or service installation. Assembly intended for plumbing training booth construction and not for use as a structural building floor. Materials and workmanship to comply with TGD D Materials and Workmanship.
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JN 201	Training Booth Service Partition - Internal non-loadbearing partition, x2 20mm structural plywood sheathing as indicated. Materials and workmanship to comply with TGD D Materials and Workmanship.
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RF 201	Kingspan Insulated Roof - 151mm Kingspan QuadCore KS1000RW insulated roof panel system fixed to structural steel support system with integrated Kingspan Day-Lite Trapezoidal Rooflights where indicated. Provide all flashings, ridge details, nightlight trims, closure pieces, side laps, sealants, fixings and weatherproof junctions. Roof and rooflight systems to be installed as a complete proprietary assembly achieving required thermal, weathering and daylighting performance. Panel system to EN 14509. Installation to comply with TGD B Fire Safety and TGD L Conservation of Fuel and Energy.
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WL 101	Internal Blockwork Partition - 100mm dense concrete blockwork partition wall complete with sand/cement plaster finish and low VOC paint finish both sides. Provide movement joints, fire stopping at head of wall and seal all service penetrations. Minimum 30-minute fire resistance rating. Masonry units to EN 771. Installation to comply with TGD B Fire Safety and TGD D Materials and Workmanship.
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WL 201	External wall comprising internally 215mm Dense Concrete Blockwork, Internal Skim Finish, Galvanised Support Rail system, and Cavity Fire Block-Top and Bottom of Cavity Vertical and as shown in the Drawings. 150mm Kingspan QuadCore KS1000RW Insulated Panel installed Vertically. Provide Cavity Barriers, Fire Stopping, Flashings, Vermin Mesh, Corner Trims, Closure Pieces, Stainless Steel Fixings and Weather Seals throughout. Colour to be Kingspan XL Forté Willow Green - RAL 100 - 80 - 20. External Envelope to achieve Part L thermal performance requirements. Masonry to EN 771 and insulated panels to EN 14509. Installation to comply with TGD B, TGD C and TGD L - Conservation of Fuel and Energy. WL 0200
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WL 202	External wall comprising internally 215mm Dense Concrete Blockwork, Internal Skim Finish, Galvanised Support Rail system, and Cavity Fire Block-Top and Bottom of Cavity Vertical and as shown in the Drawings. 150mm Kingspan QuadCore KS1000RW Insulated Panel installed Vertically. Provide Cavity Barriers, Fire Stopping, Flashings, Vermin Mesh, Corner Trims, Closure Pieces, Stainless Steel Fixings and Weather Seals throughout. Colour to be Kingspan XL Forté Willow Green - RAL 100 - 80 - 20. External Envelope to achieve Part L thermal performance requirements. Masonry to EN 771 and insulated panels to EN 14509. Installation to comply with TGD B, TGD C and TGD L - Conservation of Fuel and Energy. WL 0200
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WL 203	Reinforced concrete retaining wall complete with waterproof membrane, drainage board, perforated land drain, geotextile separation membrane and free-draining granular backfill. Provide hydrostatic pressure relief, weep holes and inspection access where required. Construction to Eurocode 2. IS EN 206 and TGD A Structure. Waterproofing and drainage provisions to comply with TGD C.
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WN 101	Glazing to Window System - Supply and install complete thermally broken external window assembly including frame, insulated glazing unit, gaskets, seals, flashings, cavity closers, fixings and all ancillary components. Glazing to comprise double or triple glazed low-emissivity sealed units with argon-filled cavity and warm edge spacers. Provide safety glazing where required by Building Regulations. Window assembly to achieve a maximum U-Value of 1.4 W/m²K or better, or lower where required by project energy calculations. Installation to maintain weather tightness, airtightness, structural stability and thermal continuity throughout. Comply with TGD C Site Preparation and Resistance to Moisture, TGD D Materials and Workmanship, TGD L Conservation of Fuel and Energy and TGD M Access and Use.
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WN 202	Fire Rated Glazed Screen and Vision Panel System - Proprietary fire-tested glazing assembly complete with certified framing system, fire-resistant glazing, fixings, seals and intumescent components. Fire resistance rating and integrity period as indicated on drawings and fire strategy. Installation strictly in accordance with manufacturer's fire certification and tested details. Comply with TGD B Fire Safety and TGD D Materials and Workmanship.
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REFER TO ENGINEERS DRAWINGS AND SPECIFICATION FOR STEEL AND FOUNDATIONS

Revision Number	Revision Date	Issued by	Revision Description
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Use figured dimensions only. All dimensions to be checked on site.
Architects to be informed immediately of any discrepancies before work commences on site
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Project: TRAINING WORKSHOP AT BANAGHER FET CENTRE

Site: MAIN STREET, BANAGHER, CO. OFFALY

Client: LAOIS AND OFFALY EDUCATION AND TRAINING BOARD

Title: STRUCTURAL DETAILS Dwg No: 2512-KLA-00-ZZ-DR-A-400

Date: JUNE 2026

Scale: 1 : 10

Drawn By: MB

Checked: PL

VOLUME A.3.1. TENDER ISSUE

A1

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Slab Edge & Eaves Detail

1 : 10

REFER TO FIRECERTIFICATE SPECIFICATION REGARDING SLOTTED PURLINS ETC
120mm KINGSPAN KS1000RW/AWP WALL PANEL
PRESSED METAL INSULATED FLASHING BOARD/SLAB EDGING FIXED BEFORE BEARING BRACKET FLASHING TO BE PROTECTED WHEN LAYING FOOTPATHS/ROAD
PROPRIETARY RADON BARRIER/DPC DRESSED DOWN FACE OF BLOCKWORK
2 NO. COURSES OF AUTOCLAVED AERATED CONCRETE (AAC) BLOCKS COMPRESSIVE STRENGTH: 5.2 N/mm²
THERMAL CONDUCTIVITY: 0.17 W/MK DENSITY: 650 KG/M³

305 X 305 UKC97 STEEL COLUMN AS PER ENGINEERS DETAILS

215mm HALLOW BLOCKWORK INFILL

305 X 305 UKC97 STEEL COLUMN AS PER ENGINEERS DETAILS

FLOATED CONCRETE FLOOR SLAB - 200MM DP C30/37 CONCRETE SLAB (SINGLE A393 MESH ON TOP) ON 80MM FLOOR INSULATION ON KKDPM ON 35MM SAND BLINDING ON 150MM COMPACTED CL804 ON TYPE 6F2 HARDCORE COMPACTED IN 300MM LAYERS. . HARDCORE TO STRUCTURAL ENGINEERS DETAILS

RADON/DPM