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MATERIAL KEY

RETAIL PODIUM - External Envelope

WALLS

- RT.W01 - Rainscreen stone cladding. 20mm Basalt stone panels individually supported by aluminium battens on adjustable aluminium helping hand brackets/walls. rainscreen cavity, 50mm rainscreen insulation and 100mm block work backing wall.
U-value 0.27W/m²K
- RT.W02 - PPC aluminium ventilation louvers to plant room area. PPC aluminium louvers to provide min 50% free area, insect mesh.
U-value N/A
- RT.W03 - PPC aluminium screening louvers with blanking panel, 150mm insulated structural framing system backing wall filled with mineral wool insulation.
U-value 0.27W/m²K
- RT.W04 - PPC steel screening louvers with blanking panel in 70mm channel (split to provide min 50% free area), 150mm insulated structural framing system backing wall filled with rigid insulation.
U-value 0.27W/m²K
- RT.W05 - Stone cladding. 20mm Basalt stone panels fixed to concrete walls using proprietary stone support systems.
U-value N/A
- RT.W06 - Panelised aluminium composite rainscreen cladding supported by aluminium battens on aluminium helping hand brackets/walls. cavity, rainscreen insulation and concrete block work backing.
U-value 0.20W/m²K

CURTAIN WALL/WINDOWS/DOORS

- RT.G01 - Capped aluminium curtain wall to retail units. Thermally broken, pressure equalised, zone drained outside dry glazed stick system. Double glazed (Argon filled), laminated, PPC aluminium framing. Integral access doors and louvers as required.
U-value 1.70 W/m²K
G-value 0.41
Transmittance 0.75
- RT.G02 - Capped aluminium curtain wall to residential and office entrance units. Thermally broken, pressure equalised, zone drained outside dry glazed stick system. Double glazed (Argon filled), laminated, PPC aluminium framing. Integral access doors, opening lights and louvers as required.
U-value 1.70 W/m²K
G-value 0.41
Transmittance 0.75
- RT.G03 Automated steel door. Bespoke design.
U-value N/A
- RT.RT.G04 4 wing glazed revolving door with PPC aluminium framing. Top glass drum.
U-value 5.4W/m²K

ROOFS AND SOFFITS

- Ground floor
U-value 0.20W/m²K
- RT.R01 - Roof Type 1 Green roof terrace (inverted roof on insitu concrete floor slab, rigid insulation, hot melt water proofing, drainage layer, growing medium, extensive planting)
U-value 0.20W/m²K
- RT.R02 - Roof Type 2 Typical roof terrace (inverted roof on insitu concrete floor slab, rigid insulation, hot melt water proofing, drainage layer, pebble stone paving slabs)
U-value 0.20W/m²K

CANOPY/HANDRAILS

- RT.C01 Glass canopy to ground floor entrances. Clear glass, structural silicone glazing with silicone joints.
U-value N/A
- RT.C02 Glass canopy and wall to shaded walkway on podium terrace. Fitted glass, structural glazing with silicone joints on PPC steel frame supports.
U-value N/A
- RT.C03 Clamped glass balustrade to podium. Clear glass with steel clamp fixings.
U-value N/A
- RT.C04 Rooflight on podium. Double glazed unit with capless PPC aluminium framing, structural silicone bonding. Light diffusing glazing.
U-value 1.70 W/m²K
G-value 0.41
Transmittance 0.75
- Ⓢ All doors to be Secure By Design compliant doors.
- Ⓢ Dry clear inter cabinet 610mm wide x 700mm high with architrave and door to BS5041, Zintec steel finish, RAL 3002 (red), 6mm Georgian wired glass with PVV lettering and Yale slam lock.

MARKET TOWER - External Envelope

WALLS

- MT.W01 - Aluminium rainscreen cladding - Folded aluminium composite rainscreen cladding supported by aluminium battens on aluminium helping hand brackets/walls, cavity, rainscreen insulation. Backing wall varies - concrete wall backing or 150mm insulated structural framing system backing wall filled with mineral wool insulation. RAL 7039 colour.
U-value 0.20W/m²K
- MT.W02 - Glazed external solid wall - Double glazed aluminium curtain walling with low 'E' clear glass, argon filled cavity and toughened glass panels.
U-value 0.20W/m²K
- MT.W03 - Glazed external solid wall - Double glazed aluminium spandrel panel units with rigid insulation. Toughened glass panels and internal plasterboard finish.
U-value 0.20W/m²K
- MT.W04 - PPC aluminium feature channel with rigid insulation backing.
U-value 0.20W/m²K
- MT.W05 - PPC aluminium feature channel with rigid insulation backing. Vents behind the channels.
U-value 0.20W/m²K
- MT.W06 - Aluminium cladding to roof fins - Folded aluminium composite cladding supported by aluminium battens on aluminium helping hand brackets/walls fixed to galvanneal steel support structure.
U-value 0.20W/m²K

CURTAIN WALL/WINDOWS/DOORS

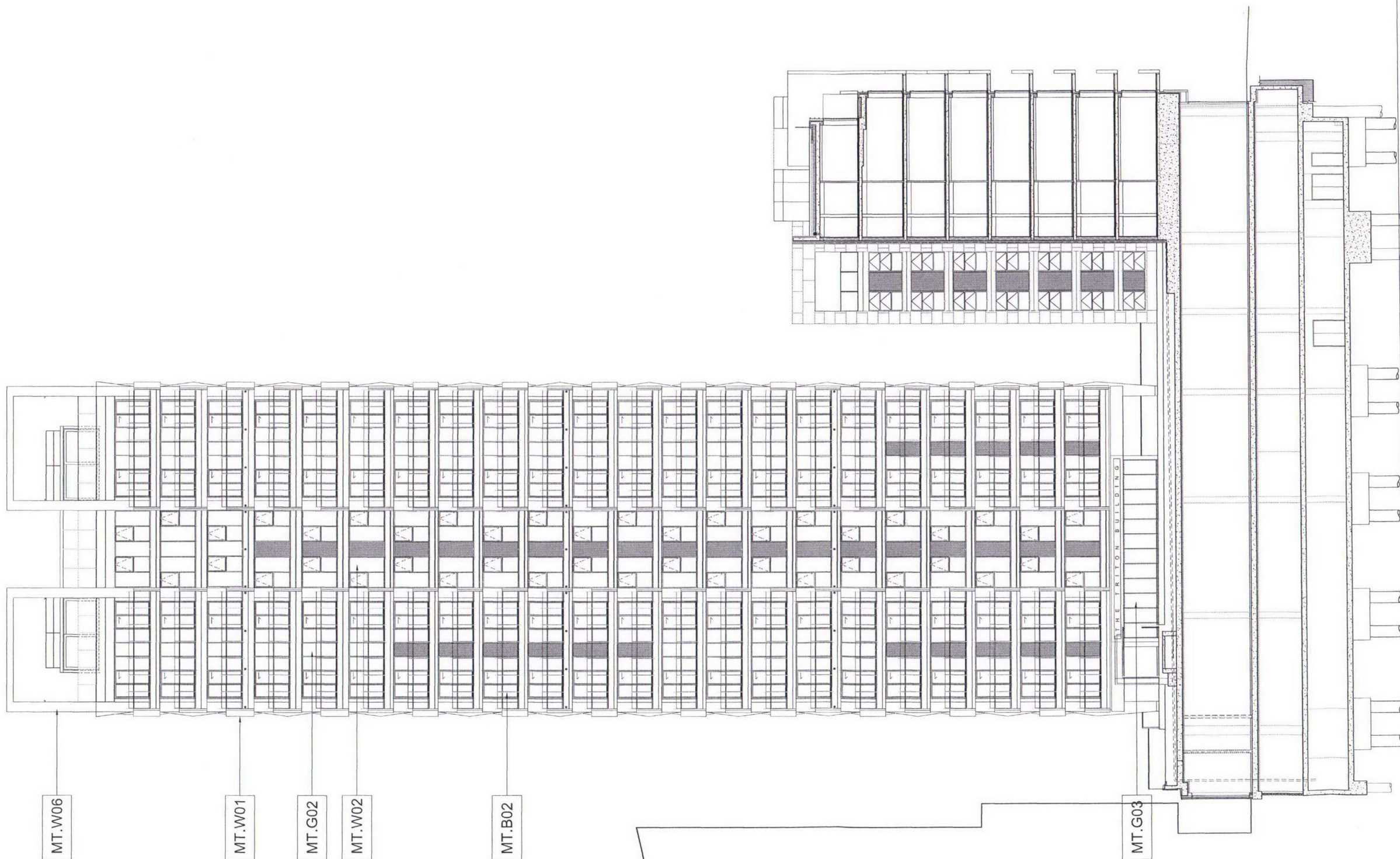
- MT.G01 - Punched glazed windows. Clear low 'E' Double or Triple glazing with argon filled cavity on aluminium window system. Top hung window. Toughened glass panels. Oppaque windows to have inner pane fitted to black colour.
U-value 1.70 W/m²K
G-value TG 0.33 DG 0.38
Transmittance TG 0.5 (TBC) DG 0.65
- MT.G02 - Glazed sliding doors to balconies - Clear low 'E' Double or Triple glazing with argon filled cavity on aluminium window system. Toughened glass panels. Lift and pull with level access to balcony.
U-value 1.70 W/m²K
G-value TG 0.33 DG 0.38
Transmittance TG 0.5 (TBC) DG 0.65
- MT.G03 Capless curtain walling system - Thermally broken structural glazing, outside dry glazed, multi/transom drained on stick support system. Clear low 'E' Double or Triple glazing with argon filled cavity and external UV resistant silicone pane edge joint, laminated glass. PPC aluminium framing. Integral framed access doors and vents as required.
U-value 1.70 W/m²K
G-value TG 0.33 DG 0.38
Transmittance TG 0.5 (TBC) DG 0.65
- MT.G04 Glazed Windows - Clear low 'E' Double or Triple glazing with argon filled cavity on aluminium window system. Top hung window top panel and fixed lower panel. Toughened glass panels.
U-value 1.70 W/m²K
G-value TG 0.33 DG 0.38
Transmittance TG 0.5 (TBC) DG 0.65

BALCONIES/COLD BRIDGING

- MT.B01 Concrete balconies with silver-grey timber phenolic composite decking (Eco-deck). Thermal break system, PPC aluminium soffit finish to voids of slab. standard RAL. Drainage via floor gully.
- U-value 2.40 W/m² L.b.c
Linear Transmission Coefficient 0.48 W/m L.b.c
Distance Continuous
- MT.B02 Handrails and Balustrade 1 - Clear glazed hand rails on steel framing. Limited safety glass.
- MT.B03 Handrails and Balustrade 2 - PPC metal handrails and posts.

ROOFS AND SOFFITS

- Ground floor
U-value 0.20W/m²K
- MT.R01 PPC aluminium soffit aluminium panels, rigid insulation.
U-value 0.20W/m²K
- MT.R02 - Roof Type 1 (inverted roof on insitu concrete floor slab, rigid insulation, hot melt water proofing and roof finish - timber/pebble/concrete paving slabs)
U-value 0.20W/m²K
- MT.R03 Capless glazed roof system - Thermally broken structural glazing, outside dry glazed, multi/transom drained on stick support system. Clear low 'E' double glazing with argon filled cavity and external UV resistant silicone pane edge joint, laminated glass. PPC aluminium framing support. Integral framed access vents as required.
U-value 0.20W/m²K



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PLANNING

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drawing MARKET TOWER South Courtyard Elevation

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