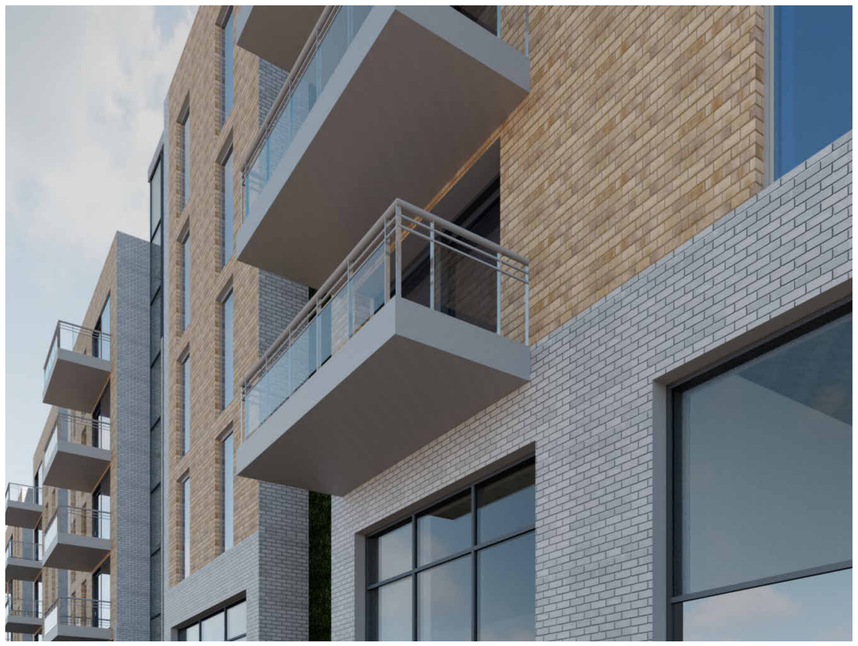
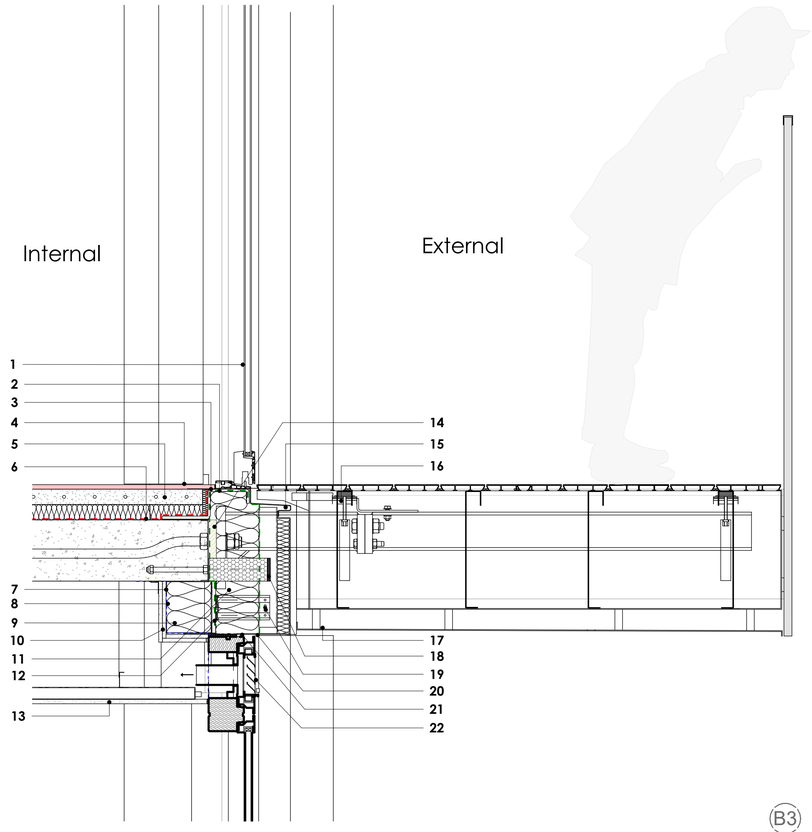
Sirocco Quays

Multi - Generational Residential Scheme





B3 B2 B1

1. Aluminium Timber Composite sliding door set VELFAC 200DGU or equal and approved. PPC finish to RAL 7016

2. Continuous extruded aluminium supportprofile fixed back to struc slab through A1/ A2 rated nylon thermal isolation pads and coordinated with balcony support arms. Top of profile to be at slab level. Fixing points of this profile to be coordinated with post- tension strands.

3. EPDM to be lapped with breather membrane by 100mm min.
Breather membrane to be Tyvek Firecurb Housewrap by Dupont or equal and approved. All joints and penetrations to be sealed in accordance with manufacturersrecommendations - joints to be sealed using Tyvek doubles sided acrylic tape, fixing staples to coincide with vertical strips of 50mm Tyvek Butyl tape (used to temporarily adhere membranes) to acheive seal, cladding support brackets to use soft washer / penetration covering
fixings. Membranes in external wall construction to achieve a minimum classification of B in accordance with EN
13501-1

4. Approx 20mm Floor finish to clients specification

5. Floor Make up Consists of 225mm concrete slab, 50mm kingspan K103 insulation with a thermal conductivity of 0.019 W/mK. 50mm UltraFlo lifqiud floor screed to accommodate underfloor heating namely UFLEX or Equal.

6. D.P.M Visqueen Ecomembrane or equal approved.

7. 150mm Metsec Infill Framing Sections orequal and approved to specialists design.Deflection head detail to underside of slab in accordance with SE recommendation.

8. Air and Vapour Control Layer to be Proctor Group Procheck® A2 or equal andapproved. Joints in membrane andjunctions with concrete to be lapped and
sealed in accordance with manufacturersinstructions. Membranes in external wall construction to achieve a minimum classification of B in accordance with EN 13501-1.

9. Rockwool Flexi Insulation or equal and approved between SFS studs @600centres

10. 2x12.5mm layers of Gyproc Wallboard

11. 150mm thick, 1200mm module, Kingspan K-Roc carrier panel laid horizontally. Fixed to SFS studs behind at centres set out in panel layouts. External face 0.7mm steel. Class A2-s1, d0 to EN 13501-1

12. Secondary layer of Tyvek Firecurb Housewrapby Dupont or equal and approved over theexternal face of insulation at balconylocations. Membrane to be sealed tobalcony support arms using Tyvek Flexwrap EZto prevent moisture ingress along blacony support structure.

13. Concealed monolithic metal frame suspended ceiling system. British Gypsum CasoLine MF or equal and approved.

14. 25mm farrat TBK structural thermal breaks:

Provide Farrat thermal break at all junctions where modular balconys connect with the concrete framing building structure

Thermal Conductivity tested to EN 12667
Compressive strength tested to EN 826

15 Cill profile formed as part of through fix Solid Aluminium Rainscreen Cladding Class A1 (Non Combustible). OPTIMA TFC SOTECH or equal and approved. PPC finish, colour to be RAL 7016 to match door cill.

16. SAPPHIRE gilide on Cassette balcony to be manufacturered offsite and connected to intergrated concrete structure. the Cassette combines the frameless glass balustrade and the surface finish of MYDEK Delta 30 30mm aluminium decking boards along with an aluminium sofit which have been constructed to provide drip edge channels.

17. Aluminium soffit trays to match the RAL colour of the door RAL 7016

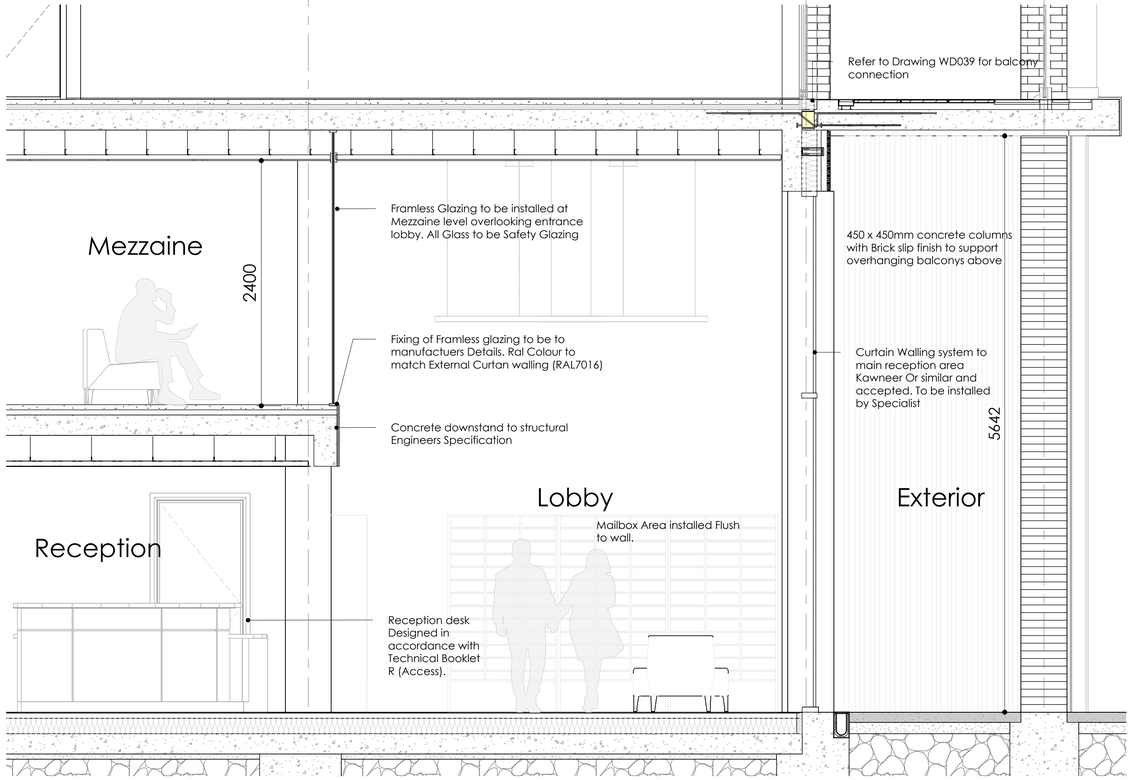
18.Firestopping to rainscreen cladding systems SIDERISE/ LANATHERM (or equal approved) 'open state' cavity barrier with intumescent RH/RV

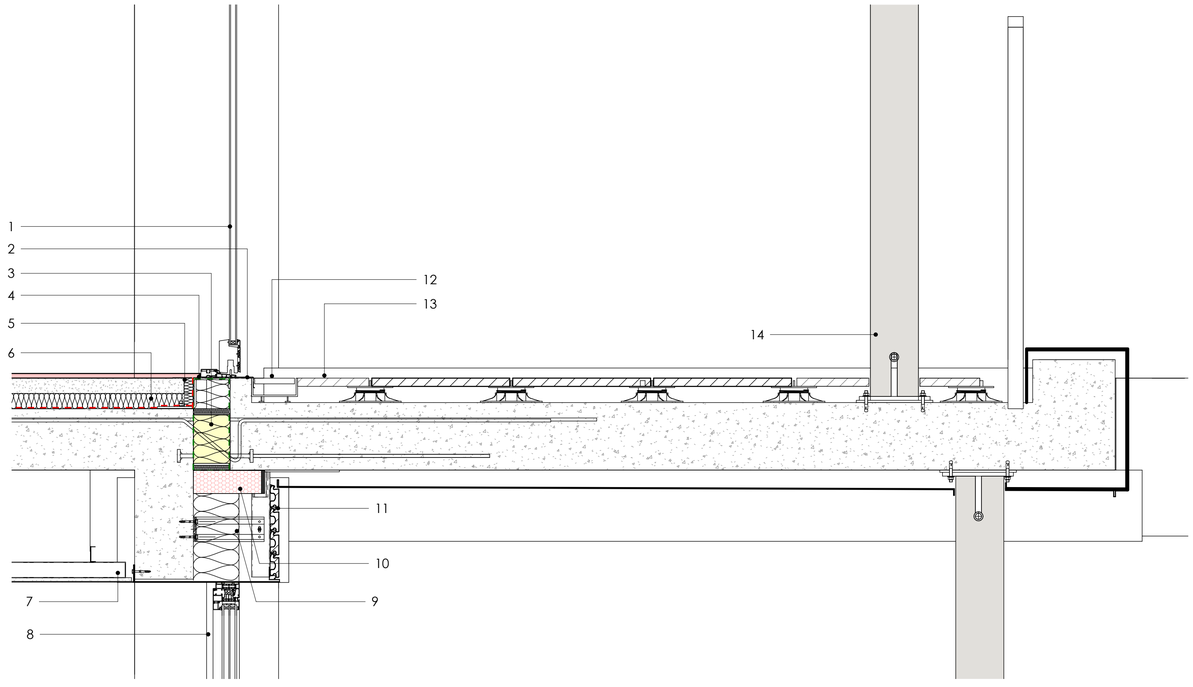
19. Horizontal Facade Mounting bracket to vertical carrier rail Eurofox or equal.

20. Through fix 3mm Solid AluminiumRainscreen Cladding Class A1 inaccordance with EN 13501-1 (Non
Combustible). OPTIMA TFC SOTECH orequal and approved. Panel to include weep holes at drip.

21. Compressible foam sealant to perimeter of
window opening in accordance with
manufacturers details, void to be tightly
packed with mineral wool.

22. Louvre with class A1 rated CP blanking panel to be glazed into window system. Mechanical ventilation ductwork to be connected via preformed metal spigot sealed to blanking plate in accordance with M&E Engineers design. Void behind blanking panel to be filled with 90mm Rockwool Flexi insulation. AVCL carefully sealed around spigot





TYPICAL CURVED BALOCNY DETAIL

1. Aluminium timber composite Window/ Sliding Door Set. RAL 7006. VELFAC 200DGU or equal and approved.

2. Minimium 150mm Concrete upstand to provent water ingress and allow fro level threhold access onto the balcony

3. The Schöck Isokorb® XT has been specificed as the method to allow the concrete balconys to align with the concrete framing of the building. this system is a load bearing thermal insulation element with a 120 mm insulation thickness which provides an excellent thermal breakage within the wall. Some of the product types in this range have been certified by the Passive House Institute in Darmstadt

4. Continuous extruded aluminium support profile fixed back to struc slab through A1/ A2
rated nylon thermal isolation pads and coordinated with balcony support arms. Top
of profile to be at slab level. Fixing points ofthis profile to be coordinated with posttension
strands.

5. Insulation upstand of a minimum 30mm kingspan k103 insulation board, lapped with D.P.M to provide excellent thermal resistance to thermal bridging .

6. Kingspan K103 insulation has been specifed for the insulation within apartments Kooltherm K103 has a thermal conductivity of 0.019 W/mK across all thicknesses.

7. Concealed monolithic metal frame suspended ceiling system. British Gypsum CasoLine MF or equal and approved

8. Aluminium timber composite Window/Sliding Door Set. VELFAC 200DGU or equal and approved. PPC finish, colour tbc

9. Horizontal facade mounting bracket to vertical carrier rail. Eurofox or equal approved.

10. Firestopping to rainscreen cladding systemsSIDERISE/ LANATHERM (or equal approved) 'open state' cavity barrier with intumescent strip. RH/RV

11. Mechanically fixed brick Slip Cladding System. Class A1/A2 in accordance with EN 13501-1 (Non Combustible). Panel depth 28mm.

12. Bauder AL80/100 aluminium drainage trim or equal and approved

13. 50mm Tobermore Sienna Permeable Paving Blocks. Blocks to be a mix of 208 x
173mm and 173 x 173mm.

14 To combat the large amounts of solar radiation aluminium brise soleil produced by AkzoNobel has been specified.
providing much needed solar shading to the large balcony areas of the tower whilst serveing as an aesthetic feature within the porject.
Aluminium to be powder coated to RAL 1011 and fixed to reinforced concrete with a base plate.