

Concepts

Products

Service



Providence Tower, London



Lindner

Building New Solutions

Project Report

Providence Tower, London

New Providence is a luxurious residential tower in the London Docklands on the north end of Blackwall Tunnel. Providence Tower is composed of underground facilities, including car parking and healthcare facilities as well as two above-ground structures visually connected at one end but structurally separated from each other. The elliptical tower is a 45-storey structured building dedicated to private residential apartments with a total area of 13,000 sqm. The crescent-shaped Bar Building counts 12 storeys and offers affordable residential units, right alongside Fairmont Avenue and Yabsley Street. It comprises a faceted facade alternating between windows, doors and opaque wall areas with terracotta rainscreen cladding. The facade includes extensive areas of bolt-on balconies as well as smaller quantities of covered terraces with the facade spanning between concrete slabs in these locations. The bar building has an area of 5,400 sqm.

Client:	Ballymore Properties Ltd
Contractor:	Balfour Beatty
Project Architects:	Skidmore, Owings & Merrill Inc.
Facade Consultant:	Wintech
Project Managers:	Acumen
Structural Engineers:	WSP
Completion date:	2015



Building new solutions.

Lindner undertakes major projects worldwide in all areas of interior fit-out, insulation technology, industrial services and building facades. From pre-planning through to project completion Lindner is your partner of choice.

The Company's extensive manufacturing capability enables quality to be strictly maintained whilst allowing maximum flexibility to meet individual project requirements.

Environmental considerations are fundamental to all Lindner's business principles.

Through partnerships with clients Lindner turns concepts into reality.



Scope of works

Facade types and scope

Design, manufacture and installation of 13,000 sqm of bespoke cladding systems including:

- Unitised Curtain Wall
- Curved Unitised Curtain Wall
- Unitised Curtain Wall (steel frame system and windows)
- Curved Curtain Wall (faceted – steel frame system and windows)
- Curved Entrance Curtain with canopy
- Ground floor and roof plant cladding

Ground-zone: Facetted, thermally-broken aluminium curtain wall with double glazed units for vision areas and anodized aluminium cladding for opaque areas. Also included: High-volume automated curved slide lobby entrance doors, private entrances to facilities, administration and delivery or rubbish disposal service entrances.

Mid-zone: Facetted, thermally-broken aluminium curtain wall including outward-opening top-hung windows, side-hung doors, lift-slide doors as well as bolt-on balconies and terraces over concrete floor slabs. The Facade is designed to alternate between two principal facade layouts having different balconies and terrace layouts to create the distinctive tower appearance.

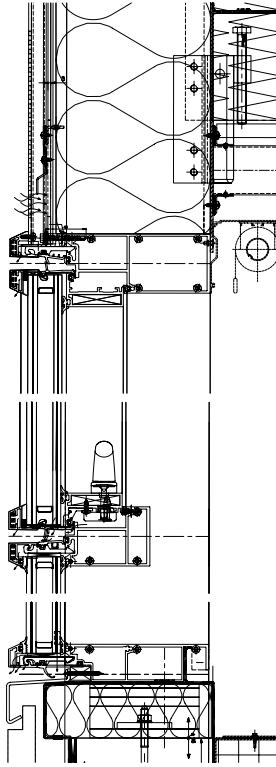
Top-zone: Besides penthouses and a viewing gallery, you can also see screened plant areas. The facade recedes considerably on levels 40 and 42 to create penthouse terraces and viewing platforms. Glazing and curtain wall panels are double-height in some of these areas.



CW65 top hung vent

The element facade system CW65 is one of Lindner's own systems.

The top hung opening out vents are visually integrated and provide smooth sight lines. It also creates a flat and even view from the outside.

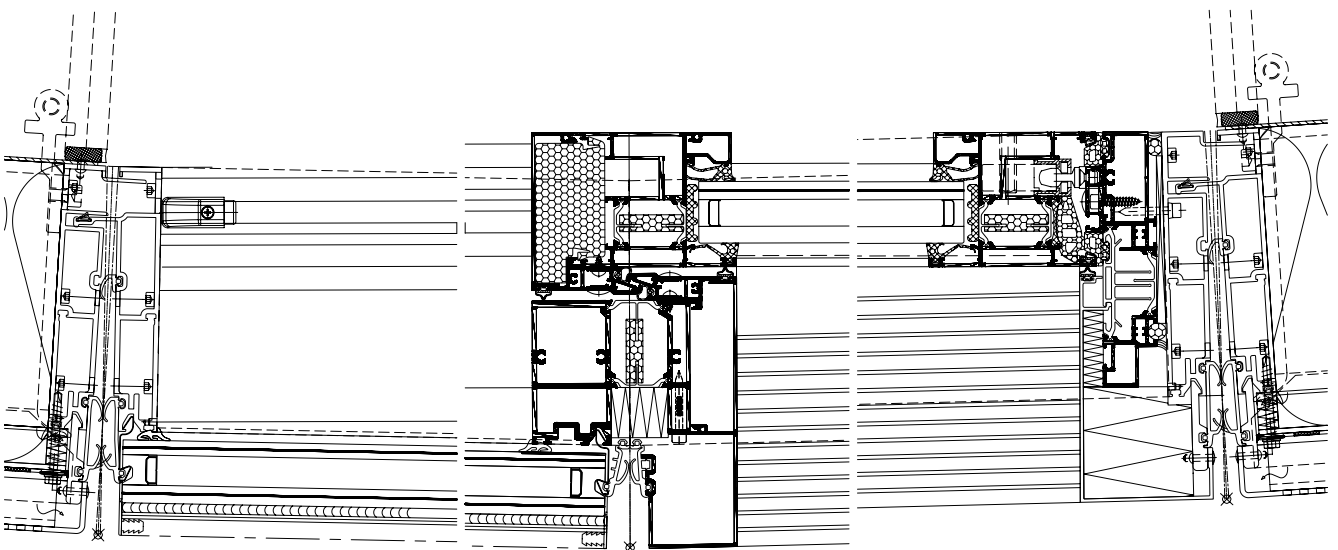
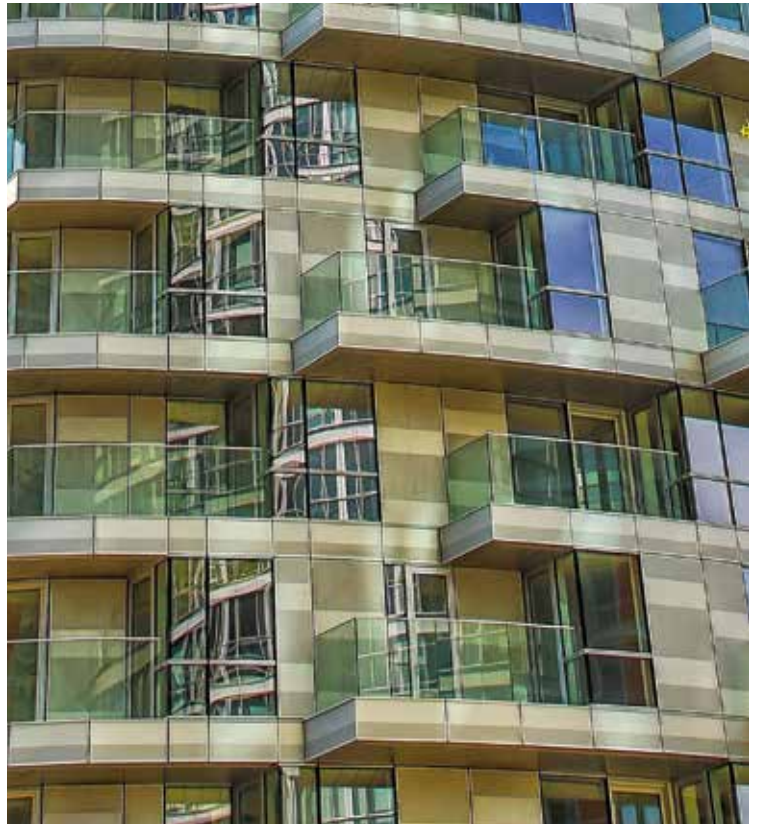


Vertical section top hung vent



Sliding doors

The high performance sliding doors are integrated in the curtain walling. They fulfill high requirements regarding thermal and acoustic performance.

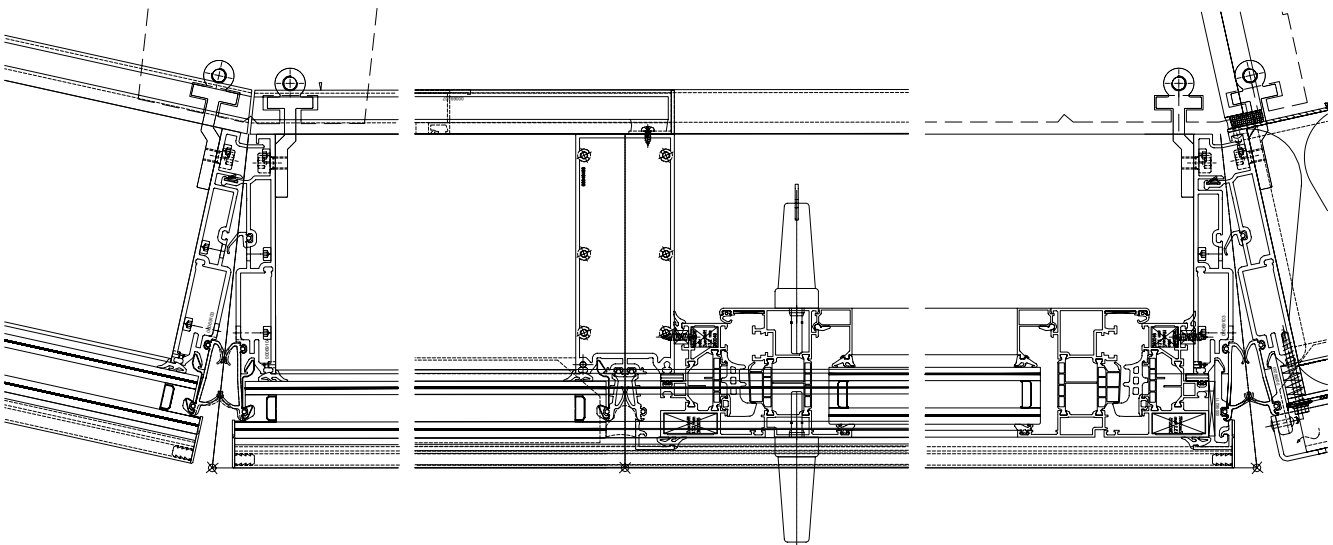
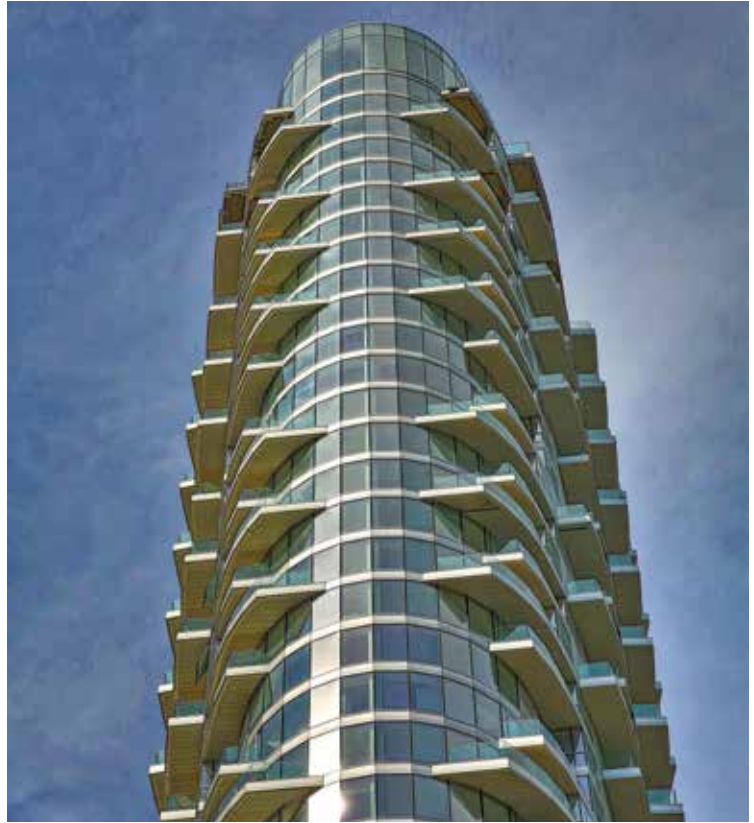


Horizontal section sliding door integrated in element

Facetted curtain walling system

The elliptically-formed tower is a prestigious residential development using Lindner's own curtain walling system CW65.

The elements are facetted with varying angles from 3° to 11°, featuring full height glazed elements and perforated panels.

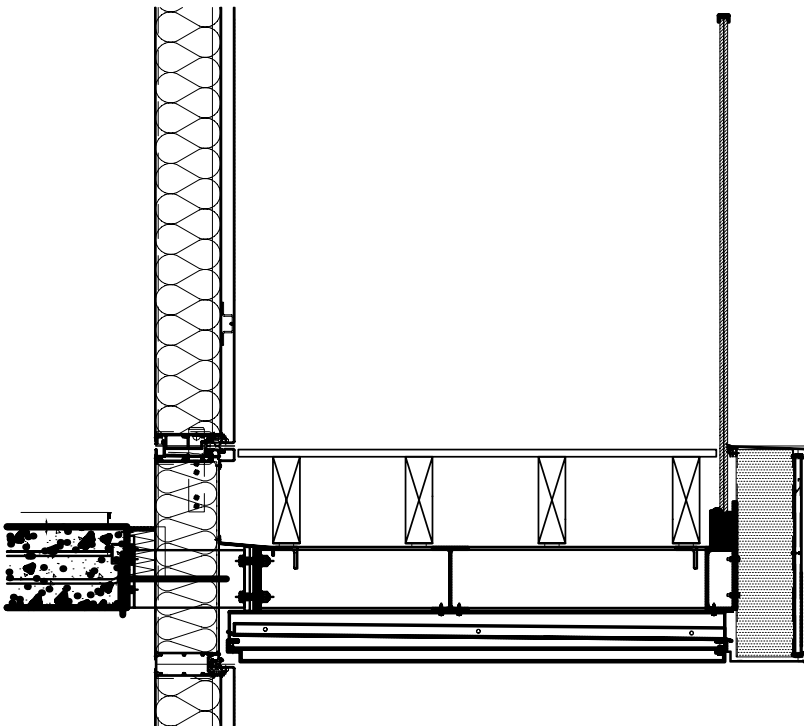


Horizontal section facetted area

Balconies

Every floor of the tower has an average of eight balconies.

Each featuring a glass to glass corner with varying angles and sizes.

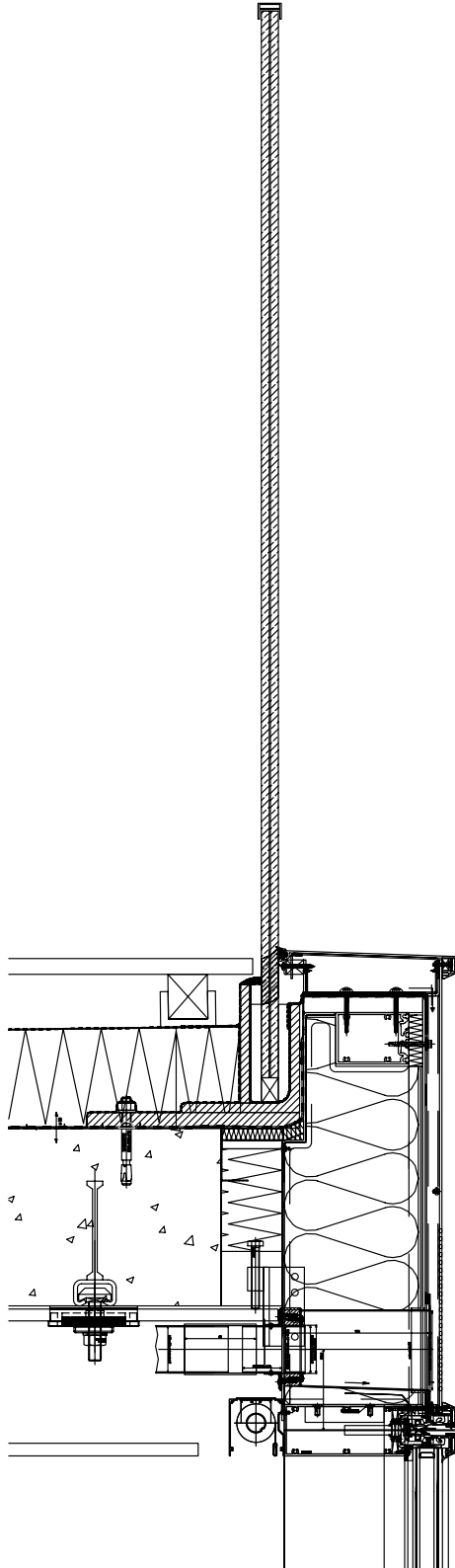


Bolt-on balcony

Balustrades



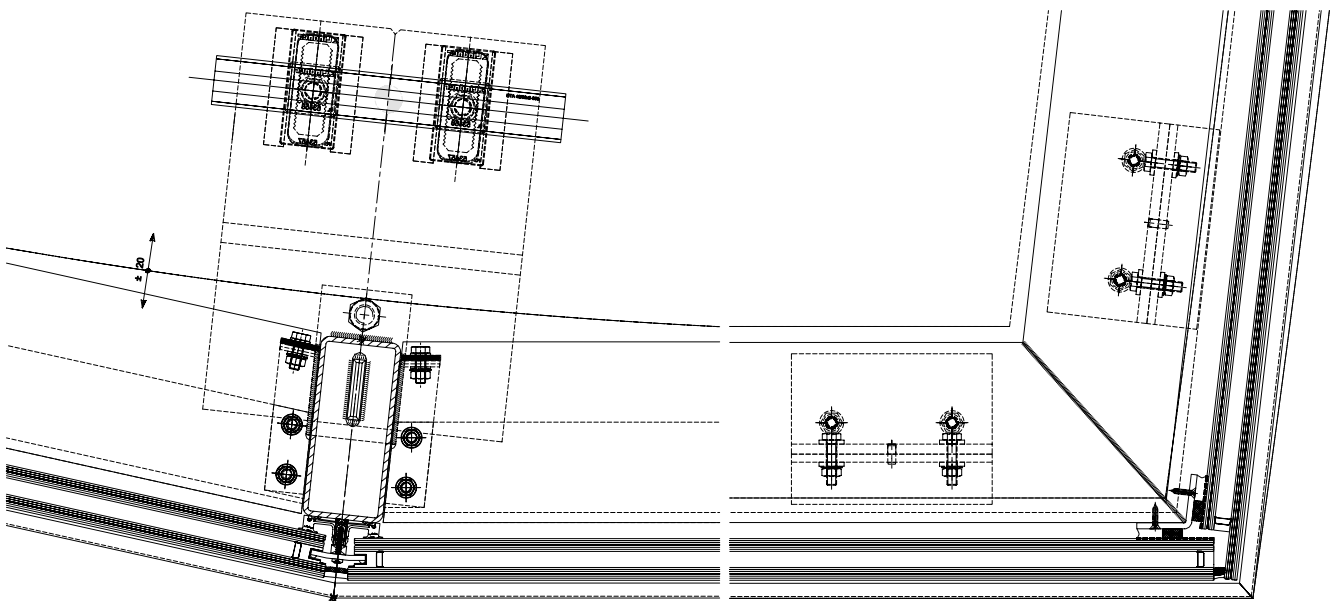
The balconies have glass balustrades with a low stainless steel channel trim.



**Vertical section
balustrade**

Viewing gallery

The top of the tower is the viewing gallery with a panoramic view over London. It is a wonderful two storey high toggle glazed system with steel sub-construction.

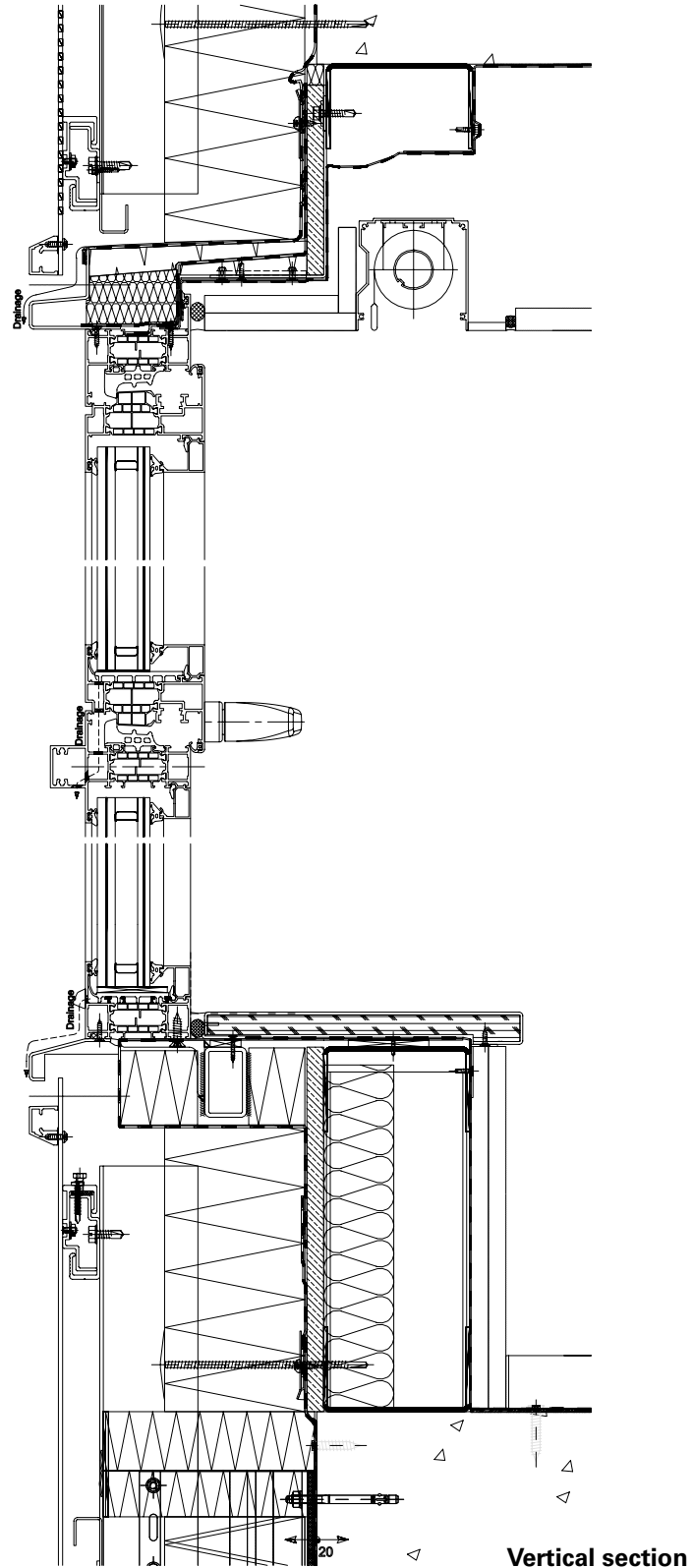


Horizontal section toggle glazed system

Bar Building



The Bar Building is a residential building with affordable homes. The construction is a steel frame system with integrated windows, doors and terracotta panels.



We can do it all for you.

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- Interior Fit-out and Furnishings
- Special-Purpose Constructions and Stadiums
- Studios and Concert Halls
- System Buildings

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- Facades
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- Lights and Lighting Systems
- Partition Systems
- Roofing Systems
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