

QUOTATION

Aluminium & Glass Curtain-Wall Facade — Villa, Sheikh Zayed

Supply & installation — 2.50 × 8.00 m facade over 3 floors · Panorama 52 system · per attached Shop Drawing SD-01

CLIENT	LOCATION	FACADE	AREA	SYSTEM
—	Sheikh Zayed	2.50 × 8.00 m	20.00 m ²	Panorama 52

#	Description of Works & Specifications	Unit	Qty
1	Curtain-wall framing — Panorama 52 (stick system). 3 mullions 52×90 mm (full 8.00 m height, spliced at slabs) + transoms 52×80 mm at every floor and sill line, aluminium pressure plates & snap-on cover caps, EPDM gaskets, thermal isolators. Powder-coated (colour to be confirmed). 2 bays × 1250 mm.	m ²	20.00
2	Double-glazed units 24 mm. 6 mm HD Blue tempered + 12 mm air + 6 mm clear tempered. Lower panel of each floor has a 6.6 mm laminated inner pane (fall protection). Opaque spandrel panels at the 3 slab edges with insulated back-pan. 18 panels — see cutting list.	pcs	18
3	Concealed top-hung vents integrated in the facade (one per floor, upper right panel): friction stays, handle and multi-point lock — same look as the fixed panels from outside.	pcs	3
4	Anchoring & installation. Galvanised steel anchor brackets with chemical/expansion bolts at each slab (12 sets), fire-stop & smoke seal at slab edges, weather-sealing silicone, scaffolding, installation and final cleaning.	lot	1
TOTAL FACADE AREA (2.50 × 8.00 m)		m ²	20.00

TOTAL PRICE — items 1–4

20.00 m² × EGP 9,000 / m² · supply & installation · prices exclude VAT

EGP 180,000

Bank: **CIB — Commercial International Bank**

Account name: **BlueCrest Trading — بلوكريست للتجارة**

Account no. **100076933345**

Notes & Terms

- Price is **EGP 9,000 per m²** of facade (20.00 m²), covering aluminium, glass, vents, anchors, sealing, scaffolding, supply and installation.
- Aluminium: **Panorama 52** curtain-wall system per the client's catalogue. Mullion depth 90 mm per the client's request — confirmed by a **wind-load check** before fabrication.
- Glass colour (HD Blue shown) and aluminium colour are to be **confirmed by the client** on samples.
- Civil works by the client:** removing the existing balcony parapets if required, straight and finished slab edges, and a clear working area at the base.
- Payment terms: **70% advance on contract, 30% on installation.**
- Delivery & installation: **30 days** from the advance payment and approval of final site measurements (double-glazed units are made to order).
- Dimensions are **re-measured on site** before fabrication. This quotation is valid for **15 days**.

For / BlueCrest Glass

Submitted by — Signature & Stamp

For / Client

Approved — Signature & Stamp

Curtain-Wall Facade 2500 x 8000 – Panorama 52

Villa, Sheikh Zayed • Client: — • Ref: BC-QTN-2026-029 • Drawing SD-01

A. 3D MODEL – Villa facade · 3 floors



GLASS SPECIFICATION – IGU 24 MM



OUTSIDE ← → INSIDE · dual-seal (butyl + silicone) units · spandrels: same outer pane + opaque back-pan

Panels	18 pcs	Net glass	18.20 m²
Edge length	73.53 m.l.	Weight ≈	555 kg

ALUMINIUM – PANORAMA 52

Member	Section (mm)	Qty
Mullion	52 × 90	3 × 8.00 = 24.00 m
Transom	52 × 80	20 × 1.172 = 23.44 m
Pressure plate + cap	52	47.44 m
Top-hung vent sash	concealed	3 pcs
Anchor brackets	galv. steel	12 sets

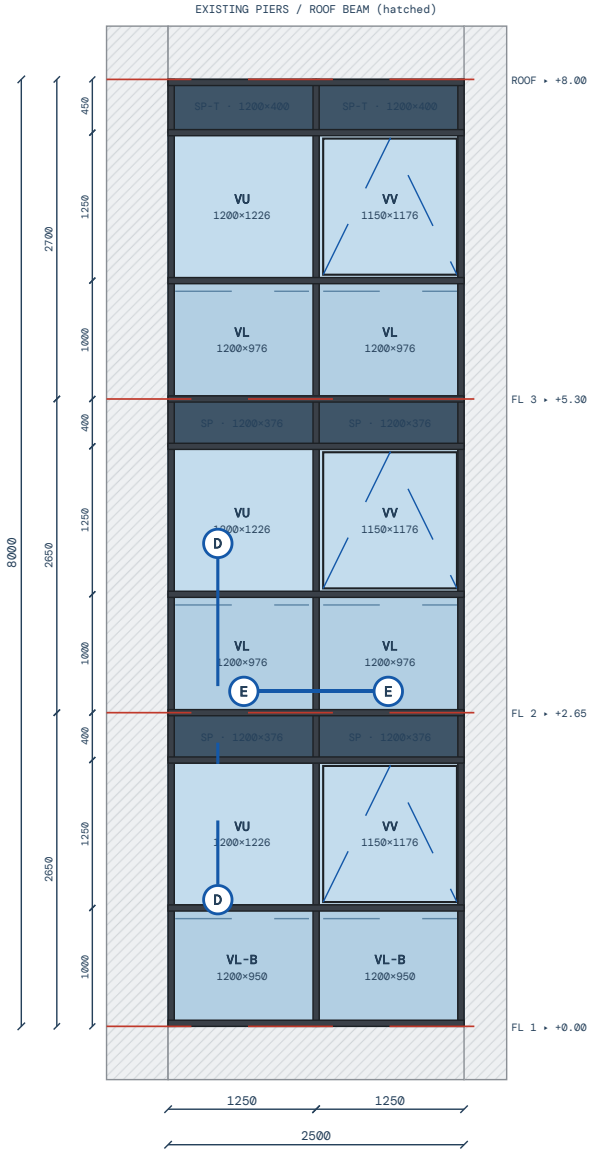
Catalogue range: mullion 52 × 70–210 (90 used), transom 52 × 25–98, vent max 130 kg. Mullion depth confirmed by wind-load check (span ≈ 2.65 m between slabs).

FACADE GRID

Floor	Rows (bottom → top, mm)	Height
1	1000 safety · 1250 vision/vent · 400 spandrel	2650
2	1000 safety · 1250 vision/vent · 400 spandrel	2650
3	1000 safety · 1250 vision/vent · 450 top spandrel	2700
TOTAL · 2 bays × 1250 = 2500 wide		8000

B. FRONT ELEVATION

NTS · mm

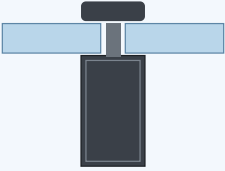


C. SITE & SYSTEM



PANORAMA 52

curtain-wall system · catalogue

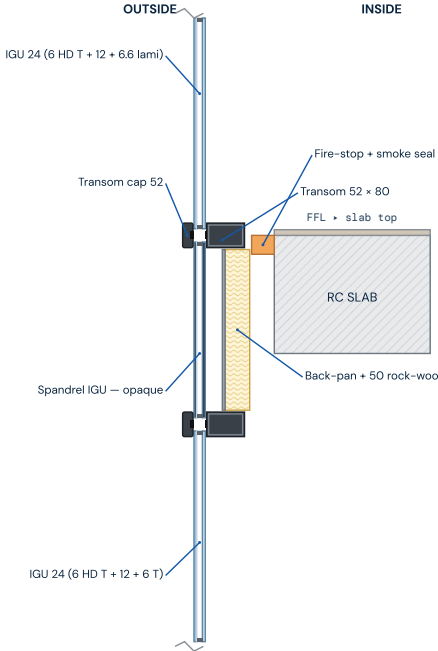


Mullion depth	52 mm
Mullion used	52 × 90 mm
Transom depth	52 mm
Transom height	25-98 mm
Max vent (top hung)	130 kg

System profile

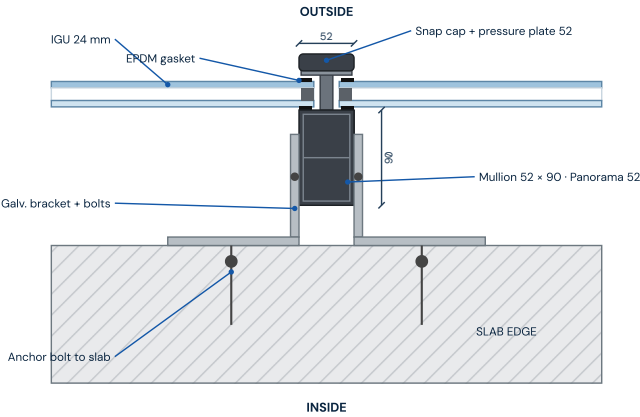
D. VERTICAL SECTION — typical floor slab

NTS · mm



E. HORIZONTAL SECTION — mullion at slab anchor

NTS · mm



F. LEGEND & NOTES

- Vision IGU — 6 HD Blue T + 12 + 6 clear T
- Safety IGU — inner pane 6.6 laminated (lowest row of each floor)
- Opaque spandrel — covers the slab edge
- Top-hung vent — apex = hinge (top)
- Aluminium mullion / transom cap, 52 mm face

- Overall facade **2500 × 8000** over 3 floors, 2 bays of 1250.
- Mullions anchored at every slab (4 levels) — dead load at the bottom of each length, sliding joint at the top.
- Glass sizes are nominal (14 mm bite) — **final after shop detailing & site survey.**

GLASS CUTTING LIST – 18 PCS · DOUBLE-GLAZED UNITS 24 MM

#	Code	Position	Make-up	Glass W × H (mm)	Pcs	Area each (m²)	Area total (m²)	Edge (m.l.)
1	VL	Lower safety row — floors 2 & 3 (both bays)	6 HD T + 12 + 6.6 lami	1200 × 976	4	1.171	4.68	17.41
2	VL-B	Lower safety row — floor 1 (on bottom sill)	6 HD T + 12 + 6.6 lami	1200 × 950	2	1.140	2.28	8.60
3	VU	Upper vision — fixed, left bay, each floor	6 HD T + 12 + 6 clear T	1200 × 1226	3	1.471	4.41	14.56
4	VV	Top-hung vent glass — right bay, each floor (in sash)	6 HD T + 12 + 6 clear T	1150 × 1176	3	1.352	4.06	13.96
5	SP	Spandrel at slab — floors 1 & 2	6 HD T + 12 + 6 opaque/back-pan	1200 × 376	4	0.451	1.80	12.61
6	SP-T	Top spandrel — roof slab / parapet	6 HD T + 12 + 6 opaque/back-pan	1200 × 400	2	0.480	0.96	6.40
TOTAL GLASS					18		18.20	73.53

Glass = clear opening between caps + 2 × 14 mm bite. Clear bay = 1250 – 52 (edge mullion) – 26 (half centre mullion) = 1172 mm. Vent glass sits in the concealed sash.

ALUMINIUM TAKE-OFF

Item	Section	Calc.	Total
Mullions (3 lines, spliced at slabs)	52 × 90	3 × 8.00	24.00 m.l.
Transoms (10 lines × 2 bays)	52 × 80	20 × 1.172	23.44 m.l.
Pressure plates + snap caps	52	24.00 + 23.44	47.44 m.l.
EPDM gaskets (in + out)	–	2 × 47.44	= 95 m.l.
Concealed top-hung vent sash	1200 × 1226	3 × 4.85	14.56 m.l.
Anchor brackets + bolts	galv. steel	3 × 4 levels	12 sets

Notes & Specifications

- Scope: **one curtain-wall facade 2500 × 8000** closing the 3-storey opening on the villa front, Sheikh Zayed — Panorama 52 stick system, 2 bays × 9 rows.
- Glass: **24 mm double-glazed units** — 6 mm HD Blue tempered + 12 mm air + 6 mm clear tempered; lowest row on each floor uses a **6.6 mm laminated** inner pane for fall protection; opaque spandrels at slab edges.
- Mullion 52 × 90 / transom 52 × 80; **final sections after wind-load calculation**. Colour of aluminium and glass to be approved on samples.
- All dimensions in mm. **Re-measure on site** (opening width, slab levels, plumb) before fabrication; glass sizes are final only after shop detailing.
- Civil works (removing balcony parapets if required, slab-edge finishing) by the client.

HARDWARE & SEALING

Item	Spec
Vents (×3)	Friction stays (stainless), concealed handle, multi-point lock, limiter
Slab edges (×3)	Rock-wool fire-stop + smoke sealant, galvanised back-pan, 50 mm insulation
Perimeter	Backer rod + weather-sealing silicone to piers and sill
Glazing	Setting blocks + EPDM wedge gaskets, 14 mm bite

BlueCrest Glass		Cairo, Egypt
PROJECT Villa Facade CW	LOCATION Sheikh Zayed	
DRAWING NO. SD-01	REFERENCE BC-QTN-2026-029	
DATE 20 / 10 / 2026	SCALE NTS	
REV. 1	UNITS mm	