



BESPOKE STAIRCASES & GLASSWORKS

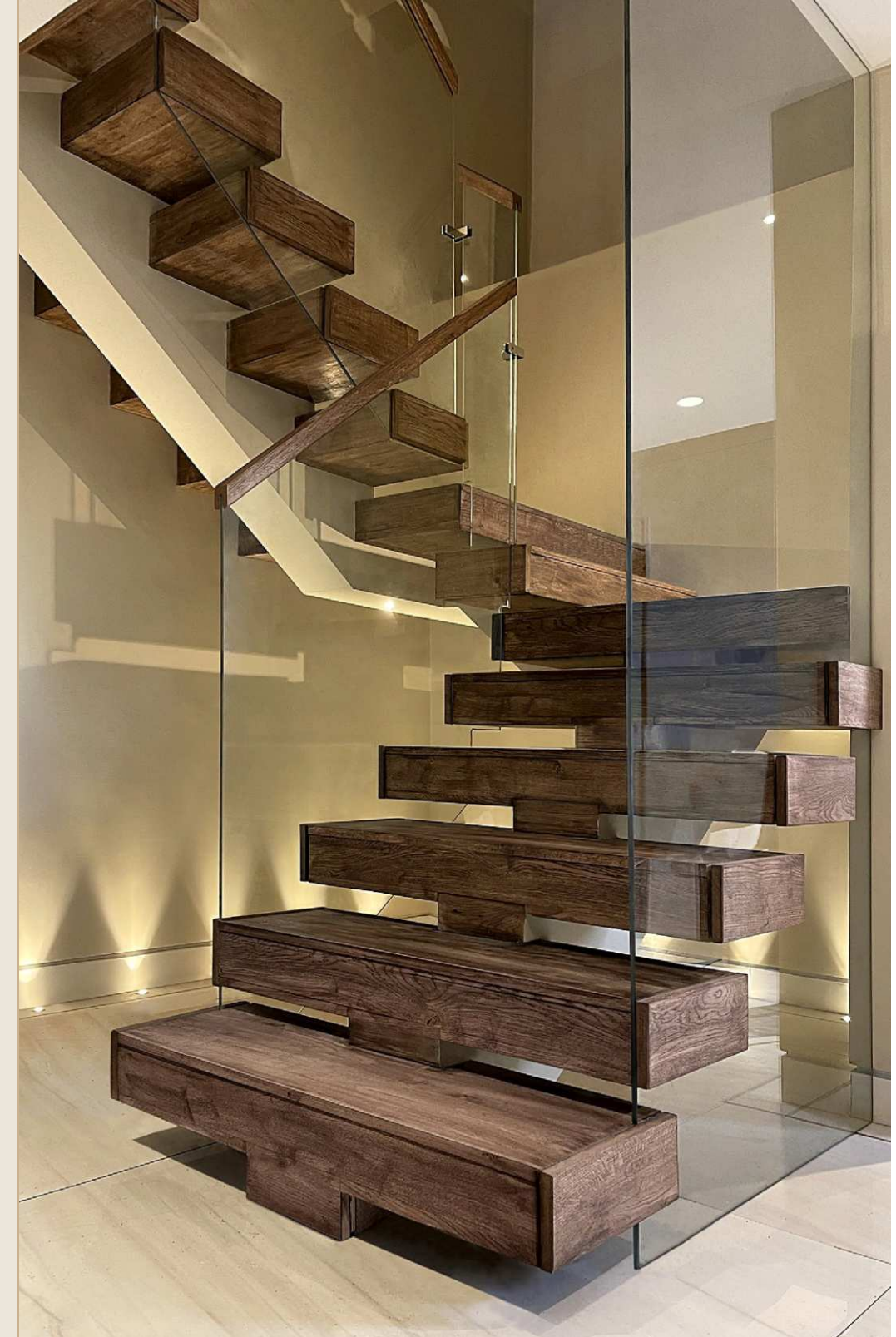
THE SPINE COLLECTION · VOLUME 01

Central Spine Stairs

A single steel beam down the centre of the flight, every tread cantilevered clear on both sides. Nothing beneath the stair but the spine that carries it.

DUBAI & GCC

CAWORKS.CO





ABOUT CAWORKS

The people behind the precision.

CAworks is an architectural staircase company with dozens of spine-staircase projects completed across the UAE and UK. We run a single, end-to-end service — concept, engineering, fabrication and installation, all handled in-house and signed off with you at every stage.

Built on the most advanced engineering approach on the market, our aim is straightforward: to be the most reliable spine staircase company in the UAE.

UAE · UK

SPINE STAIRCASES
DELIVERED

End-to-end

DESIGNED & INSTALLED
IN-HOUSE

DUBAI & GCC

THE SPINE COLLECTION



THE CAWORKS METHOD — SURVEY

Every staircase
begins as a point
cloud.

Most staircase errors are born in the survey, not the workshop — a single wrong measurement becomes a flight that breaks regulation or simply won't fit. So we take it out of human hands: a 360° laser scan records the space as a dense cloud of points, every dimension resolved to within half a millimetre, and archived for good.

MEASURED, NEVER ESTIMATED

360°

LASER CAPTURE

0.5mm

POINT-CLOUD PRECISION

THE CAWORKS METHOD — DESIGN & REGULATIONS

Every staircase is engineered to comply.

As specialty staircase contractors, we prepare a bespoke technical design for every project — a full 3D model and detailed drawings developed to the building regulations from the first line. Every part and every dimension is set to comply, and we issue the complete production drawings so any other fabricator on the project can build straight from them.

3D

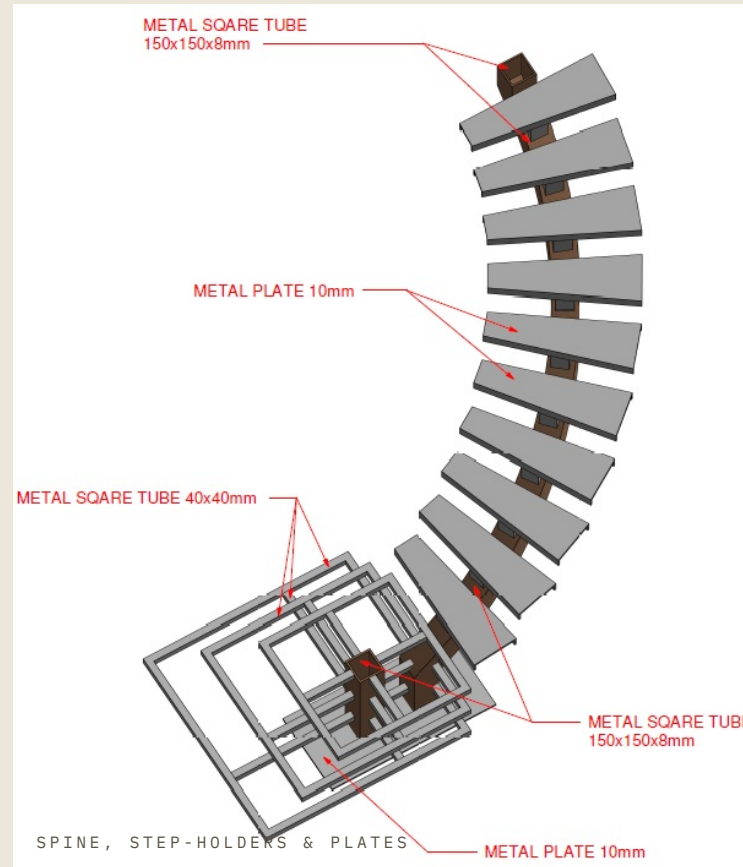
MODEL &
FULL
DRAWINGS

100%

TO BUILDING
REGULATIONS

3D model • issued for construction. Spine, step-holders and plates modelled in full and dimensioned to finished floor levels — released so any other trade or fabricator on the project can build to the same set.

COMPLIANT BY DESIGN



PROJECT 01 · CENTRAL SPINE

Private Residence

A single blackened steel spine carries the flight up the wall, each solid smoked-oak tread cantilevered clear on both sides. Frameless glass is fixed straight through the treads on polished standoffs — no posts, no frame, and open air beneath every step. The lower treads break away on a winder to meet the herringbone floor.

TYPE

Spine · mono-stringer

FLIGHT

Straight, winder start

BALUSTRADE

Frameless glass, standoff-fixed

TREADS

Solid smoked oak

CENTRAL SPINE STAIRCASES

PROJECT 02 · CENTRAL SPINE

Private Residence

White on white — lacquered oak treads on a white-clad spine — so the flight reads as light before it reads as structure. A continuous LED line runs beneath every tread and spills onto the stone floor. Frameless glass climbs both sides to the rooflight, and the period cornice is left untouched.

TYPE

Spine · mono-stringer

FLIGHT

Straight, single flight

BALUSTRADE

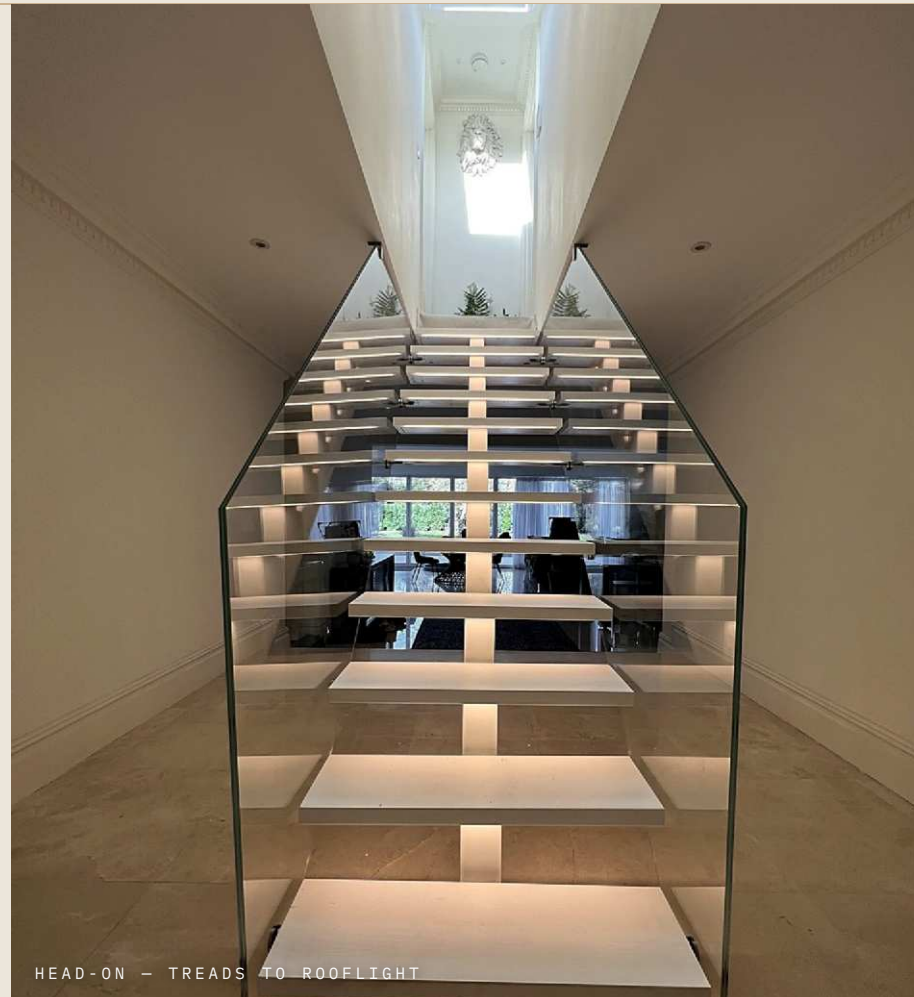
Frameless glass, standoff-fixed

LIGHTING

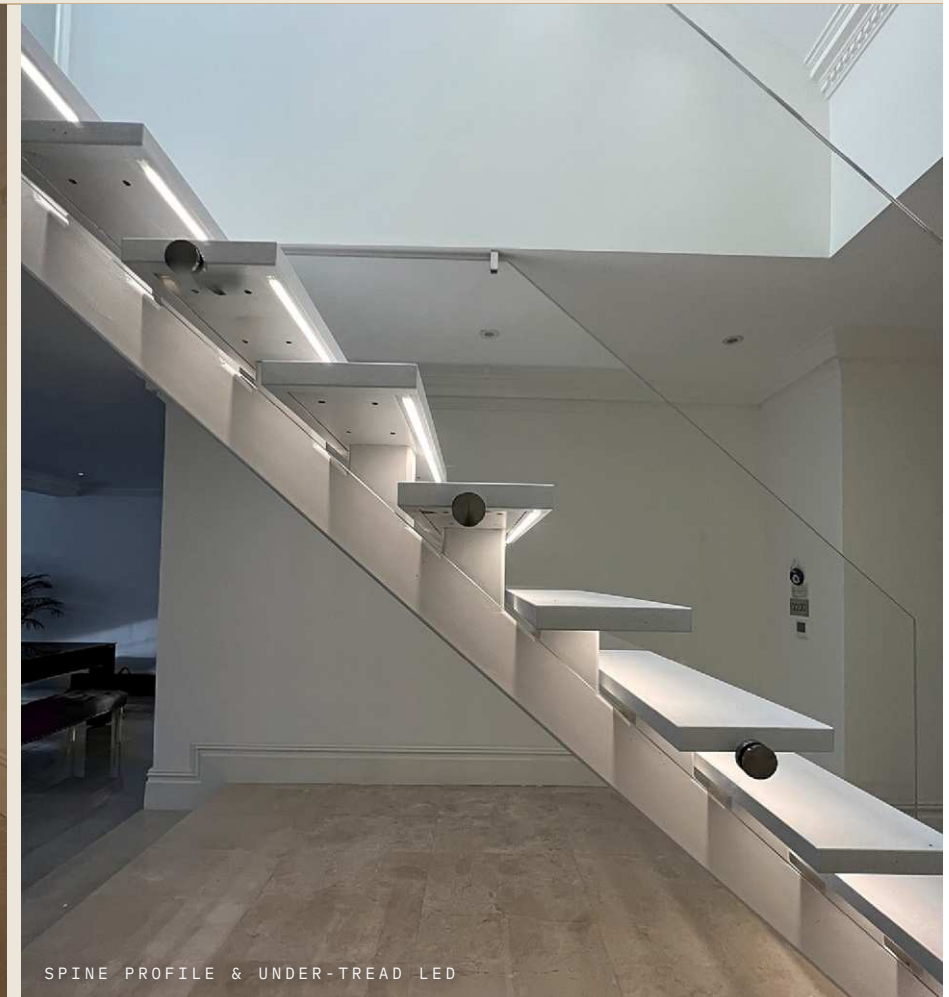
Continuous LED under-tread



THE FLIGHT FROM THE HALL



HEAD-ON — TREADS TO ROOFLIGHT



SPINE PROFILE & UNDER-TREAD LED

PROJECT 03 · CENTRAL SPINE

Private Residence

The spine is left in plain sight — a single blackened steel beam running the full rise, cut to carry each tread and nothing more. Thick sections of solid oak sit on top, and frameless glass fixes straight through the tread ends on matte-black standoffs, capped by an oak handrail that carries on into the landing.

TYPE

Spine · mono-stringer

FLIGHT

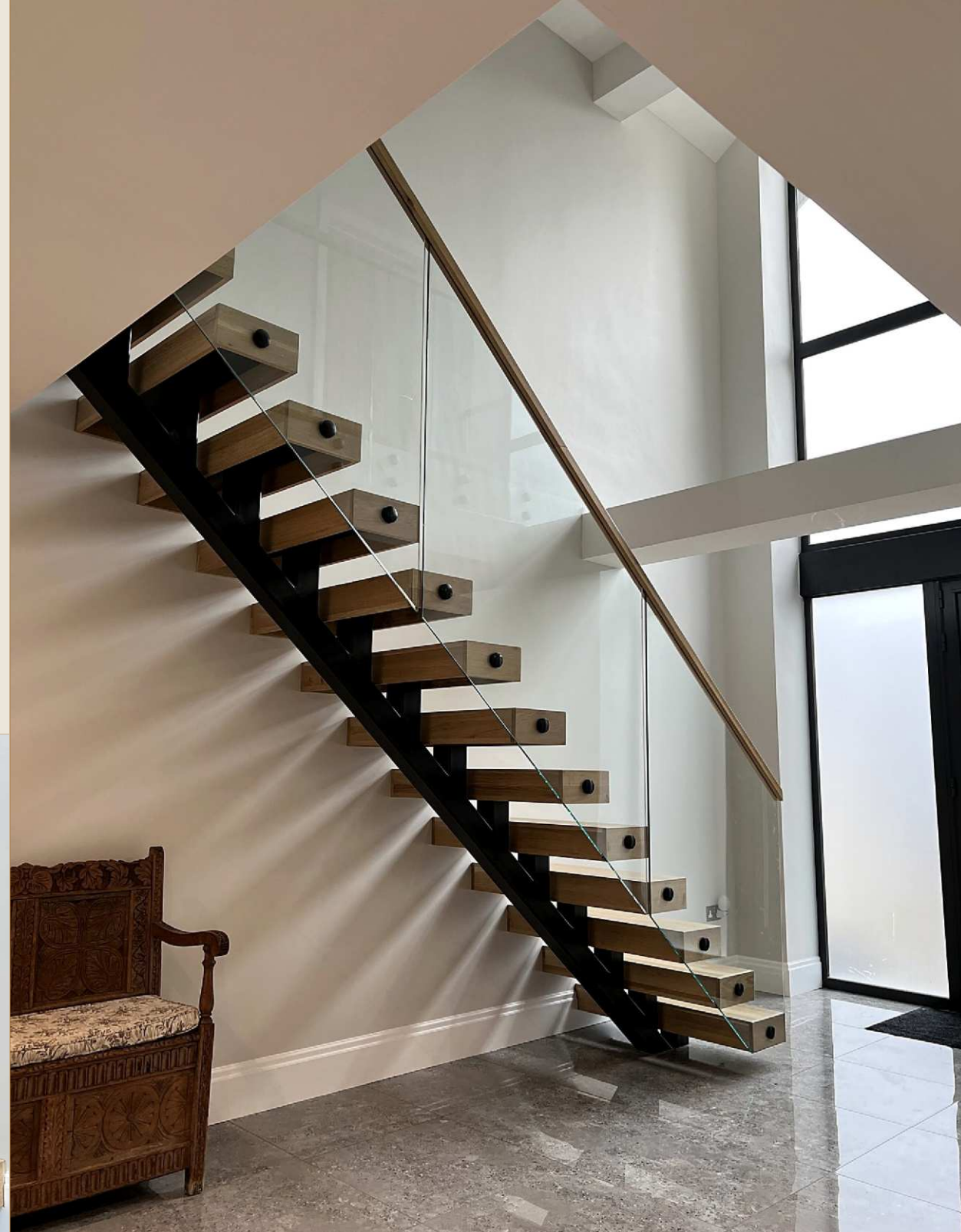
Straight, single flight

BALUSTRADE

Frameless glass, oak handrail

TREADS

Solid natural oak



THE FLIGHT IN ELEVATION

TREAD ENDS & STANDOFF FIXINGS



THE PLANTED BASE BENEATH THE FLIGHT

OAK TREADS OVER PEBBLE AND LIGHT

SWITCHBACK — TREADS OFF THE SPINE

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PROJECT 04 · CENTRAL SPINE

Private Residence

Near-black stained oak in thick sections, stepping out from a blackened steel spine. The ground beneath is given over to a garden — white pebble, planting and a line of warm uplight that throws leaf shadows across the wall. Frameless glass carries the flight on through a switchback to the floors above.

CENTRAL SPINE STAIRCASES

TYPE

Spine · mono-stringer

BALUSTRADE

Frameless glass

FLIGHT

Multi-flight, switchback

BASE

Planted, LED-uplit



UNDER-TREAD LED & STANDOFF FIXINGS



THE FLIGHT, HEAD-ON

PROJECT 05 · CENTRAL SPINE

Private Residence

Grey-washed oak on a blackened spine, every tread carrying a recessed LED that throws light down onto the one below. Frameless glass fixes through the tread ends on polished standoffs, and the whole flight lifts clear of the marble on a single line of steel.

TYPE

Spine · mono-stringer

FLIGHT

Multi-flight

BALUSTRADE

Frameless glass, standoff-fixed

TREADS

Grey-washed oak, LED-lit



A LINE OF LIGHT UNDER EVERY TREAD

PROJECT 06 · CENTRAL SPINE

Private Residence

A spine in patinated steel, branching at every riser to carry a solid oak tread clear on both sides. In place of glass, a screen of slender bronzed rods runs the full rise beneath an oak handrail — the same rods turning the landing balustrade to an apex above the hall.

TYPE

Spine · mono-stringer

FLIGHT

Multi-flight, landing

BALUSTRADE

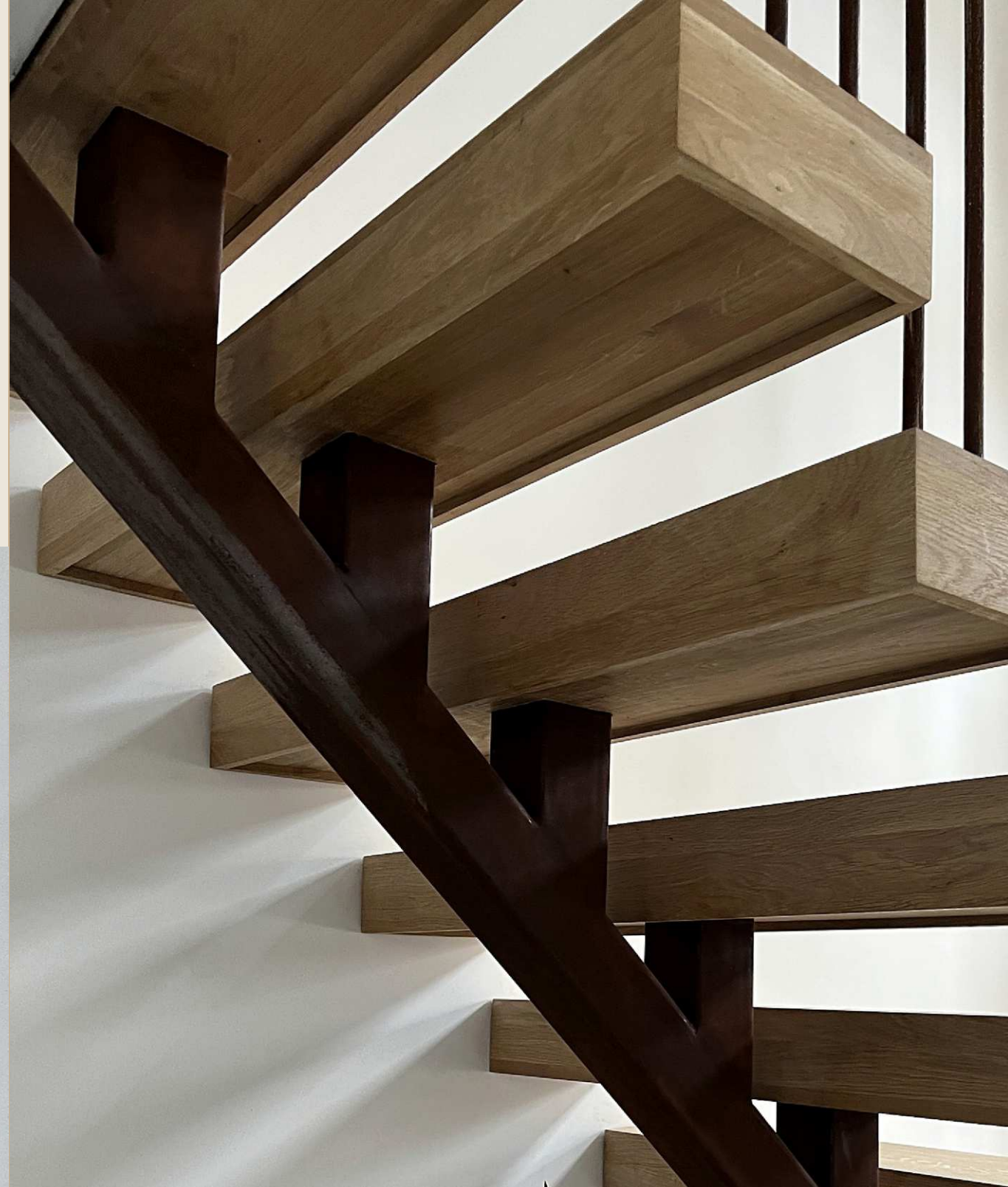
Bronzed steel rod, oak handrail

TREADS

Solid natural oak



OAK TREADS OFF THE SPINE, ROD SCREEN BEYOND





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PROJECT 07 · CENTRAL SPINE

Private Residence

Blackened steel throughout — a tapered spine with a bracket at every riser, and solid oak laid on top like a plank on a beam. The balustrade is drawn from the same steel: square bar, closely spaced, turning with the flight and winding the last treads into the hall.

CENTRAL SPINE STAIRCASES

TYPE

Spine · mono-stringer

BALUSTRADE

Blackened steel bar

FLIGHT

Multi-flight, winders

TREADS

Solid natural oak

PROJECT 08 · CENTRAL SPINE

Private Residence

An exterior flight — stone-finish treads cantilevered from a single blackened steel spine, climbing a garden wall planted floor to head height. Frameless glass on polished standoffs carries a slim handrail the length of the rise, and every component is specified for the weather it stands in.

TYPE

Spine · mono-stringer

FLIGHT

Straight, external

BALUSTRADE

Frameless glass + handrail

TREADS

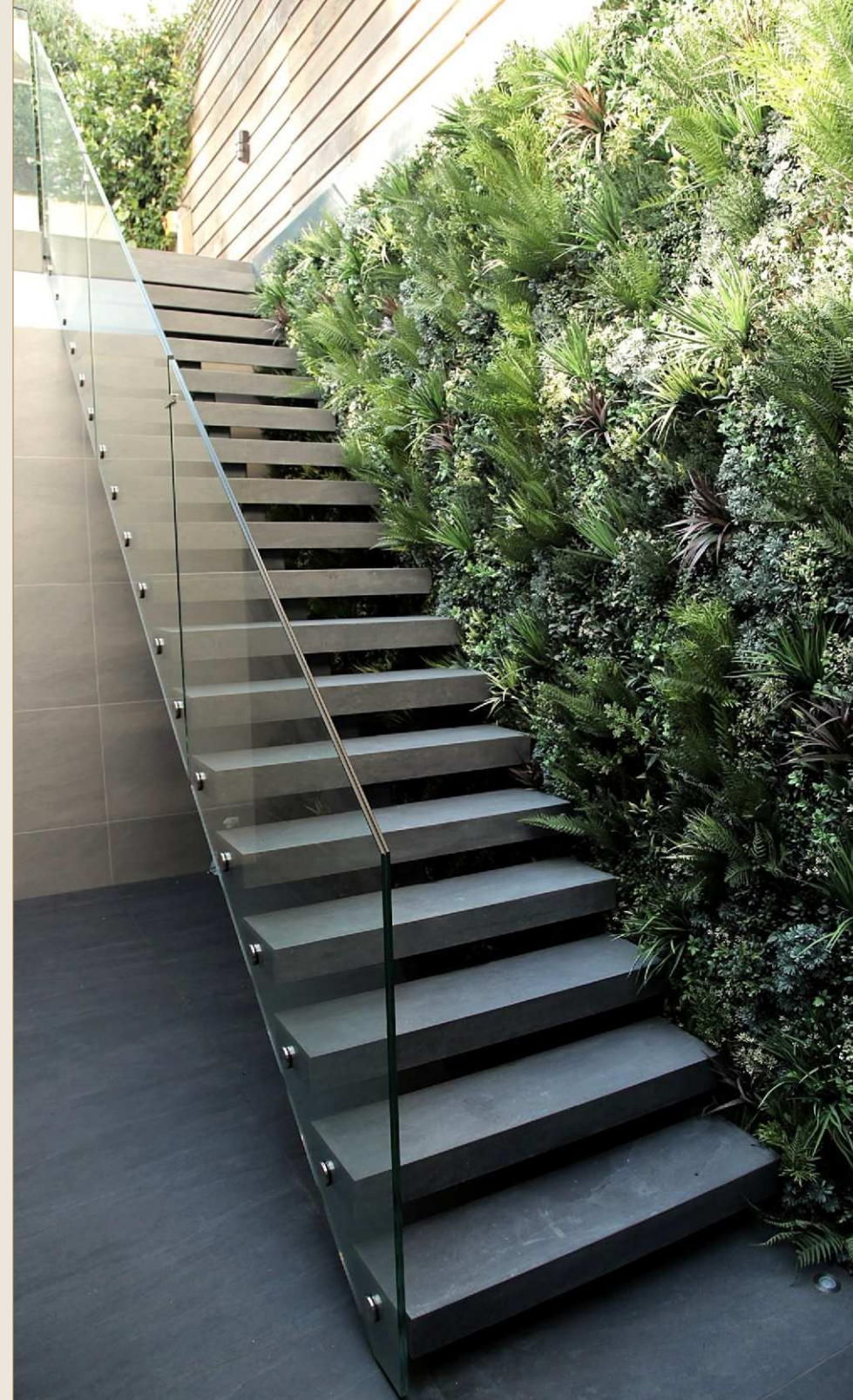
Stone-finish porcelain



SPINE & TREAD CARRIERS



UP THE FLIGHT



PROJECT 09 · CENTRAL SPINE

Private Residence

Pale limed oak in deep sections, every tread carried on a blackened steel spine and washed from beneath by a recessed downlight. Frameless glass fixes through the tread ends on polished standoffs and carries a slim oak handrail; at the foot, the last treads widen and step out into the hall.

TYPE

Spine · mono-stringer

FLIGHT

Straight, splayed foot

BALUSTRADE

Frameless glass + oak handrail

TREADS

Pale limed oak



SPINE AND FLIGHT FROM ABOVE



SPLOYED TREADS AT THE FOOT



PROJECT 10 · CENTRAL SPINE

Private Residence

Warm oak in heavy sections, each tread bolted through a single blackened steel spine and lit from a fitting recessed into its end. Glass is carried on polished stainless posts beneath a round stainless handrail, and the run turns at the landing to climb again above the hall.

TYPE

Spine · mono-stringer

BALUSTRADE

Glass on stainless posts

FLIGHT

Multi-flight, over landing

TREADS

Oak, end-lit



THE FLIGHT FROM BENEATH

PROJECT 11 · CENTRAL SPINE

Private Residence

Dark-stained oak on a blackened spine, the flight rising between two runs of frameless glass. Each tread is fixed through to the spine and pinned to the glass on polished standoffs, with a round stainless handrail carried off the wall, and the run turns at the half-landing to climb again.

TYPE

Spine · mono-stringer

BALUSTRADE

Frameless glass, stainless handrail

FLIGHT

Multi-flight, half-landing

TREADS

Dark-stained oak



HEAD-ON — THE SPINE BETWEEN THE TREADS



TREADS & STANDOFF FIXINGS



THE LOWER FLIGHT AND TURN



PROJECT 12 · CENTRAL SPINE

Private Residence

A blackened steel spine cut back between the treads, so the structure reads as a run of triangles rather than a solid beam. Pale oak sits on top; the balustrade is the same black steel, glazed, under a pale oak handrail.

TYPE

Spine · mono-stringer

FLIGHT

Multi-flight, landing

BALUSTRADE

Glass, black posts

TREADS

Pale oak

CENTRAL SPINE STAIRCASES



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BESPOKE STAIRCASES & GLASSWORKS

GET IN TOUCH

Dubai's central spine stair experts

The specialists behind hundreds of spine and cantilever staircases across Dubai & the GCC — every flight surveyed, engineered and installed in-house. Contact us today.

INSTAGRAM

[instagram.com/caworks.co](https://www.instagram.com/caworks.co)

WEBSITE

caworks.co

EMAIL

team@caworks.co

WHATSAPP

[+971 50 636 9524](https://www.whatsapp.com/channel/00253333333333333333)

ILJA

[+971 58 586 4814](https://www.whatsapp.com/channel/00253333333333333333)

EVGENY

[+971 54 575 9695](https://www.whatsapp.com/channel/00253333333333333333)

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