

2026 FASTENING SYSTEM GUIDE

Fastening System Guide

A guide to fastening methods, edge details, frames and installation coordination for metal mesh systems.

INSTALLATION ROUTE

Make the mesh buildable before production.

This guide connects mesh selection with panel size, edge detail, frames, tracks, tension direction and drawing preparation.

INSTALLATION PRINCIPLE

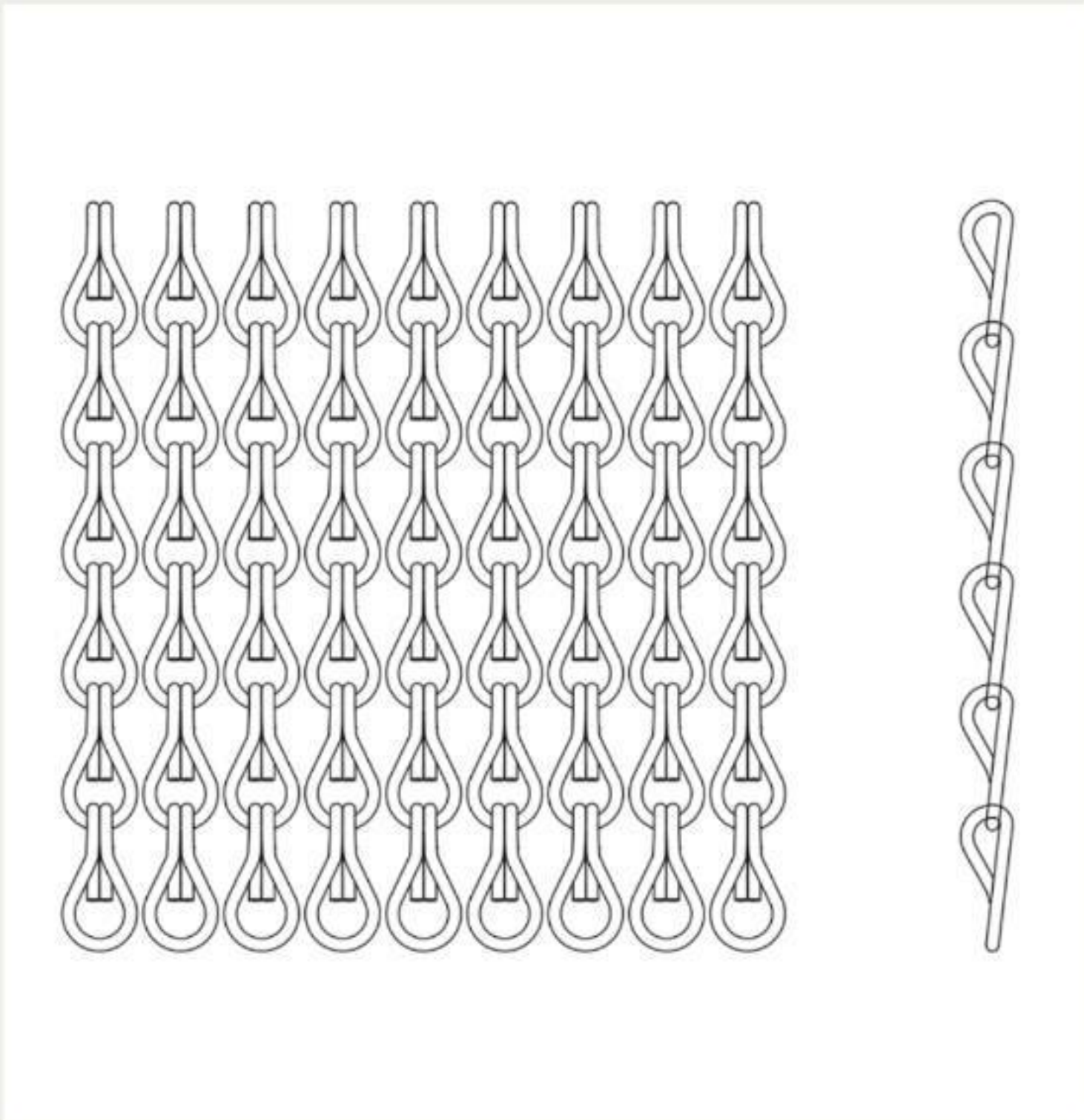
Discuss fixing early. The same mesh can require different edges, modules and support logic depending on application and site condition.

WHY FIXING COMES EARLY	01
APPLICATION INSTALLATION MATRIX	02
CORE FASTENING ROUTES	03
CEILING, FACADE AND PARKING	04
INTERIOR, CURTAIN AND CUSTOM	05
DRAWING REVIEW CHECKLIST	06

FIXING FIRST

A clear fixing route makes mesh buildable.

Installation planning affects sample approval, quotation notes, panel module and final surface quality.



DRAWING REVIEW

Use drawings, site photos and dimensions to align product family, panel module, edge logic and installation notes.



BUILDABLE DETAILS

Frames, edge bars, clamps, tracks and backing conditions should be clarified before production drawings are locked.

DISCUSS EARLY

- Panel module and visible joint rhythm
- Edge treatment and frame direction
- Track, tension or hidden support
- Site tolerance and access route

MODULE

Panel size, repeat rhythm and joint location shape the final surface.

EDGE

Edge treatment controls safety, stiffness, appearance and handling.

SUPPORT

Frame, track, clamp, tension or backing must match site condition.

ACCESS

Installation and maintenance access should be reviewed before approval.

APPLICATION MATRIX

Start from where the mesh will be installed.

Each application changes the first technical question: load, access, edge safety, movement, ventilation or close-range finish.



01 / OVERHEAD
CEILING

Weight, access, lighting and service coordination come first.



02 / EXTERIOR
FACADE

Exposure, module, substructure and joint rhythm shape the route.



03 / SCREEN
PARKING

Ventilation, visibility and repeat rhythm come first.



04 / INTERIOR
ELEVATOR CAB

Backing, protected edges and close-range finish are critical.



05 / DIVIDER
PARTITION

Transparency, edge safety and floor or ceiling connection matter.



06 / SAFETY
SECURITY

Opening size, visibility, strength and tolerance need review.



07 / SURFACE
WALL COVERING

Backing, edge detail and adjacent materials set the detail.



08 / FLEXIBLE
METAL CURTAIN

Track, fullness, drop height and movement define installation.



09 / CUSTOM
CUSTOM METHOD

Use when standard fixing cannot match the project condition.

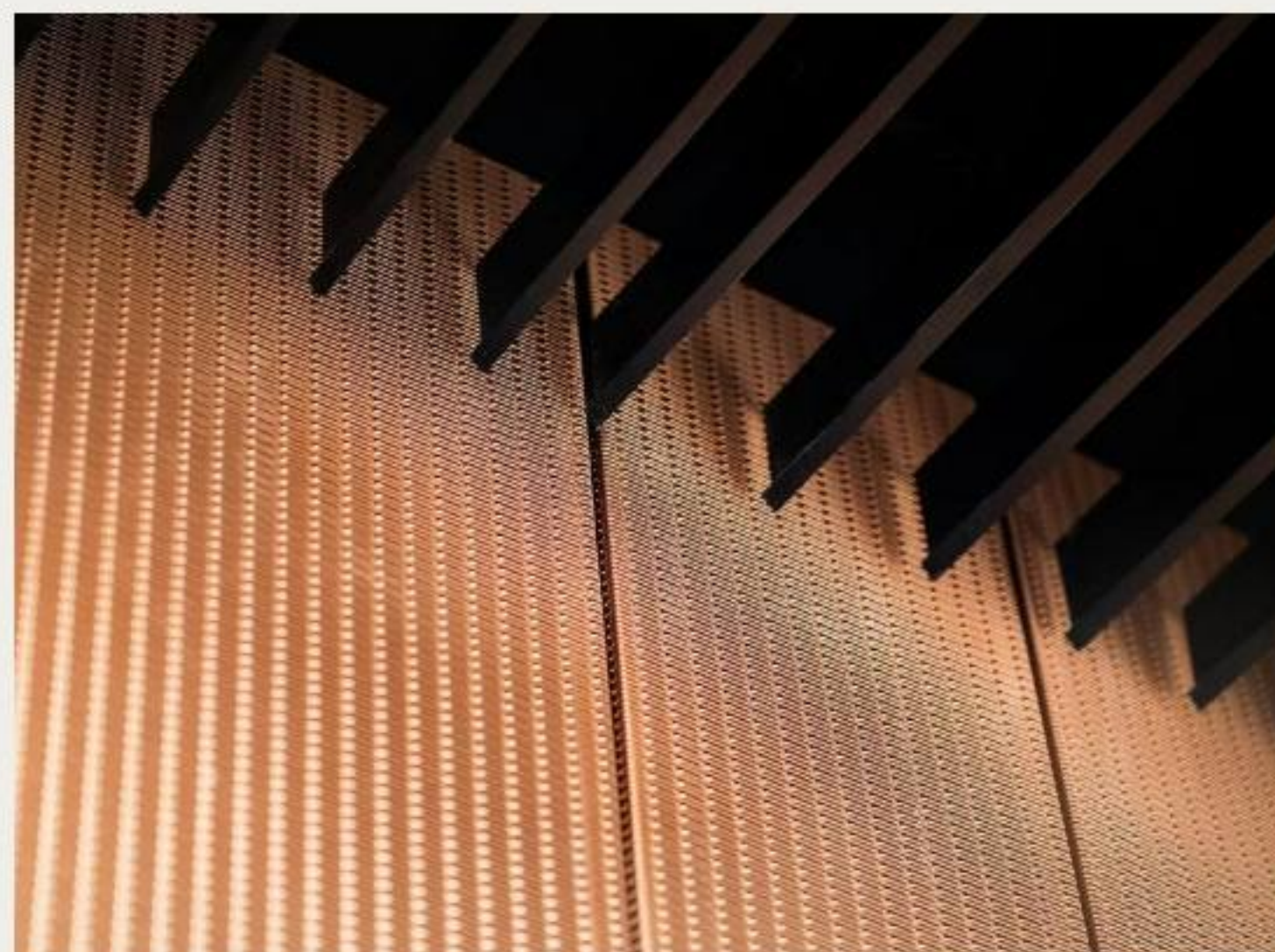
CHOOSE THE ROUTE

- ☐ Rigid panel or flexible hanging
- ☐ Exterior exposure or interior touch
- ☐ Open screen or protected surface
- ☐ Standard route or custom detail

FASTENING ROUTES

Match support logic to the mesh system.

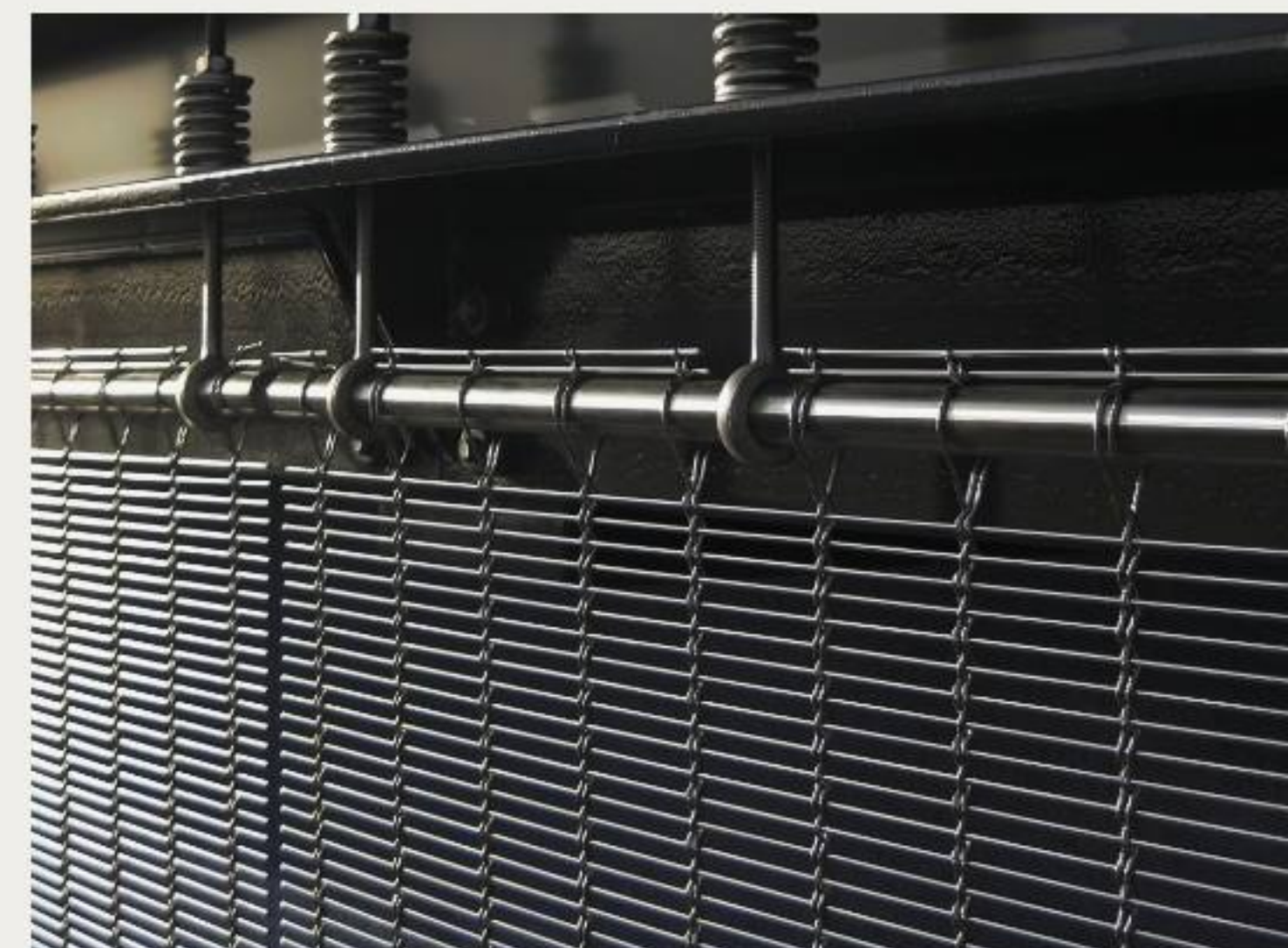
Before choosing a final detail, identify whether the surface behaves as a fixed panel, tensioned screen, hanging curtain or built-in layer.



01 / PANEL

FIXED MESH PANELS

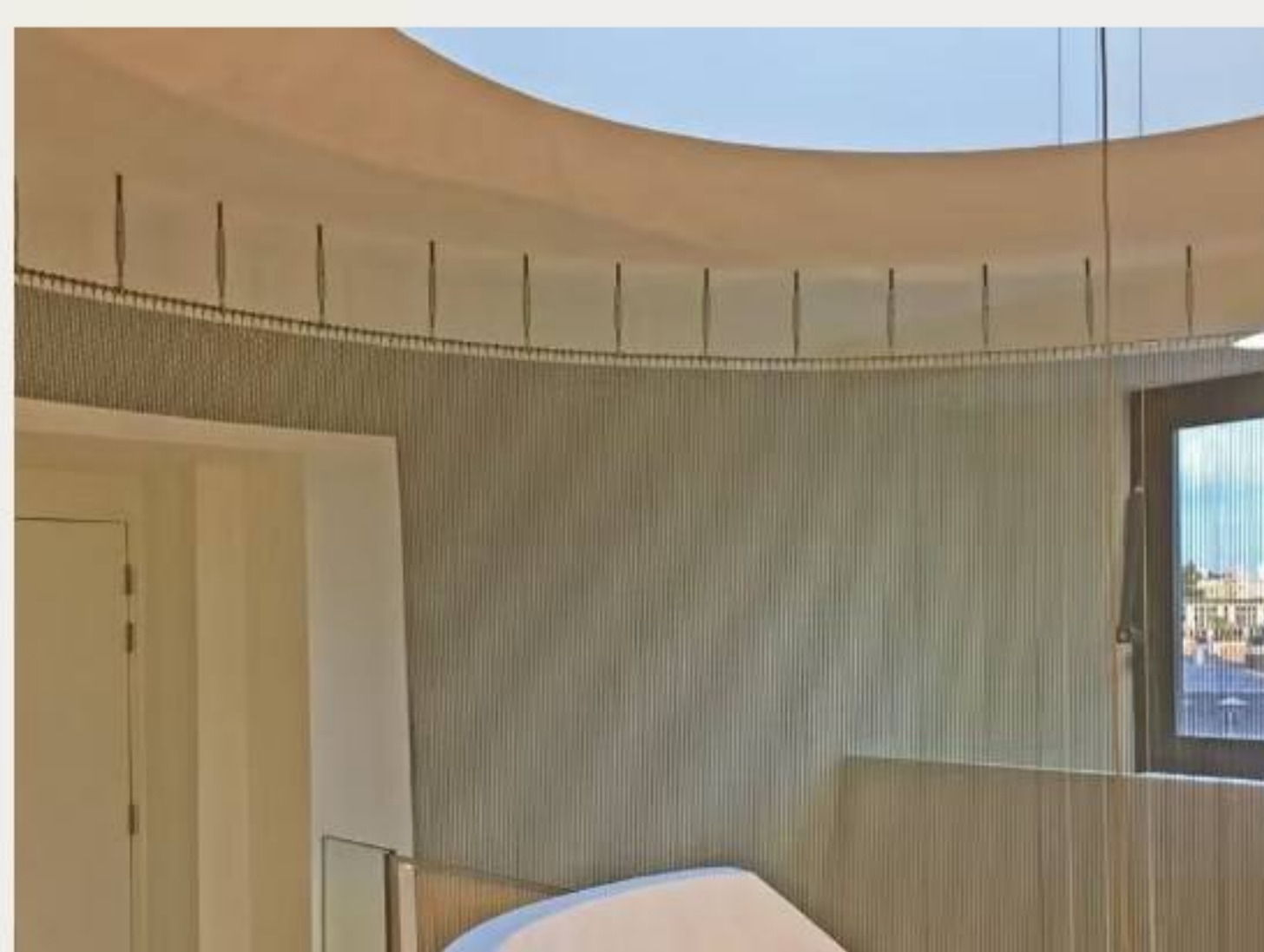
For panel-based mesh where module, edge and frame details need control.



02 / TENSION

TENSIONED MESH

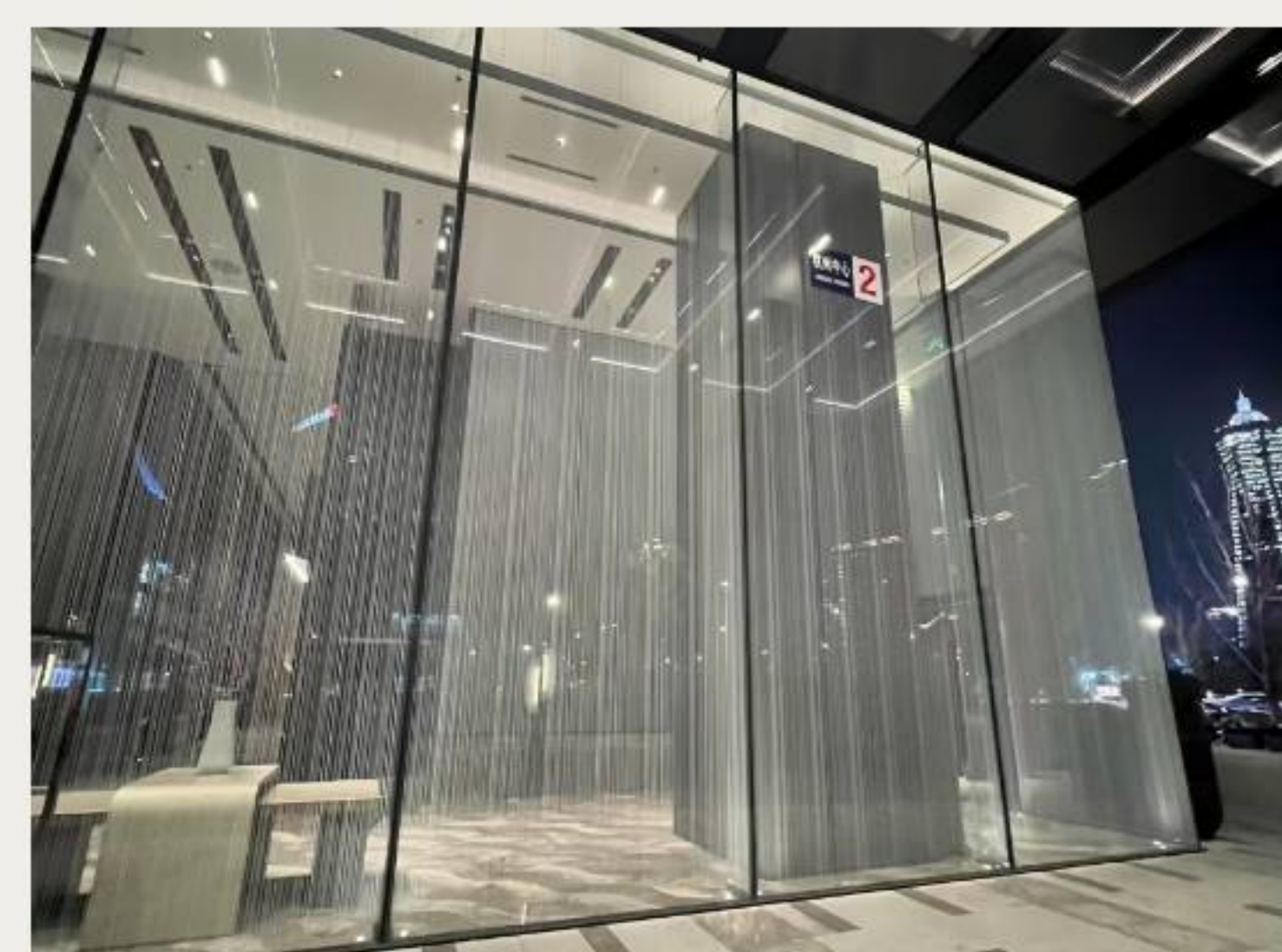
For cable rod mesh and facades where support points and tension matter.



03 / TRACK

HANGING CURTAIN

For curtains where track, fullness, height and movement shape the result.



04 / LAYER

BUILT-IN DETAIL

For glass, backing panels or millwork where layers need clean edges.

ROUTE SIGNALS

- Rigid panels need module control.
- Tensioned mesh needs support points.
- Curtains need track and movement.
- Built-in layers need protected edges.

EXTERIOR + OVERHEAD

Review scale, load and access before detail design.

Ceiling, facade and parking systems often fail visually when module, structure or access is left too late.



CEILING
PANELIZED CEILING

Plan module, access and overhead fixing with services and lighting.



CEILING
LIGHTING COORDINATION

Coordinate mesh direction with linear light, sprinkler and access zones.



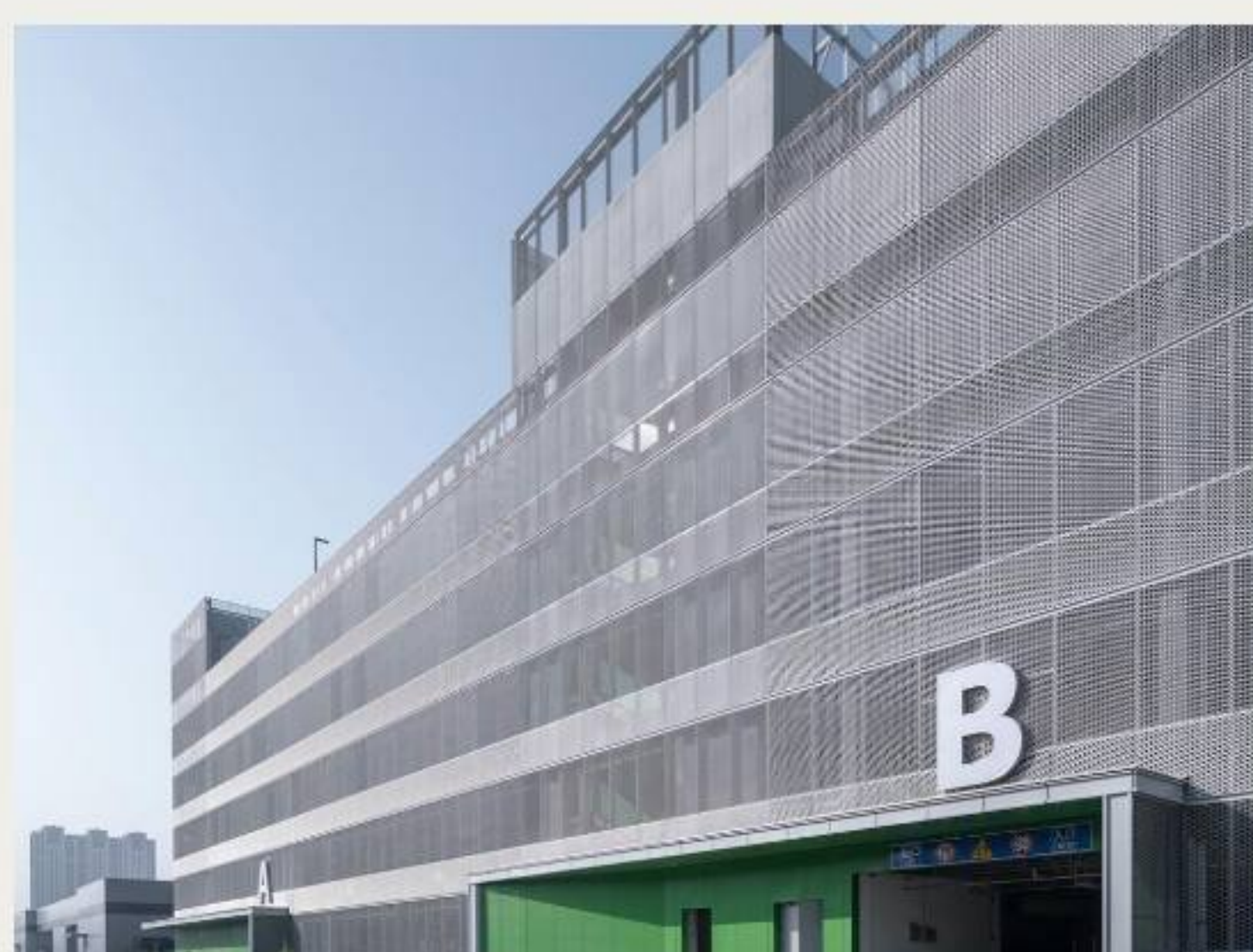
FACADE
FRAMED FACADE PANELS

Confirm substructure, edge frame, panel repeat and tolerance.



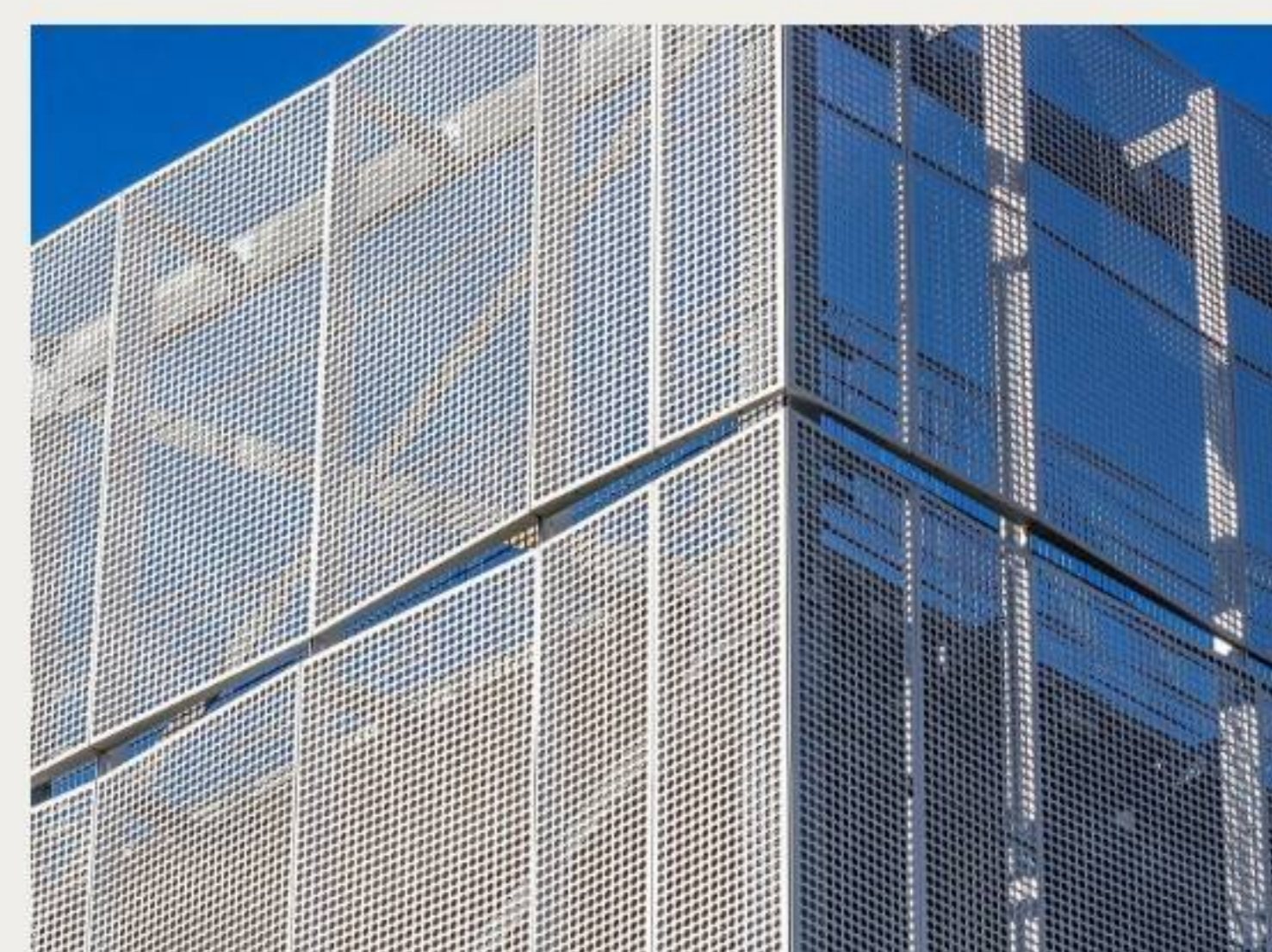
FACADE
TENSIONED FACADE

Check support position, tension direction and maintenance access.



PARKING
VENTILATED SCREEN

Balance airflow, screening, economy and panel rhythm for large areas.



PARKING
PERFORATED PANELS

Align sheet thickness, opening pattern, fixing holes and module joints.

TECHNICAL FOCUS

- Panel size and structure
- Wind, weight and service access
- Visible joint rhythm
- Repeatability across large areas

INTERIOR + FLEXIBLE

Close-range surfaces need cleaner edge decisions.

Interior and flexible systems are touched and viewed closely. Edge, backing, track and movement become part of the visual quality.



ELEVATOR
BACKED PANELS

Use backing and protected edges for high-touch elevator interiors.



ELEVATOR
GLASS BUILD-UP

Protect decorative mesh when cleaning and impact are important.



WALL
FRAMED WALL PANELS

Control backing, edge frame and adjacent material transitions.



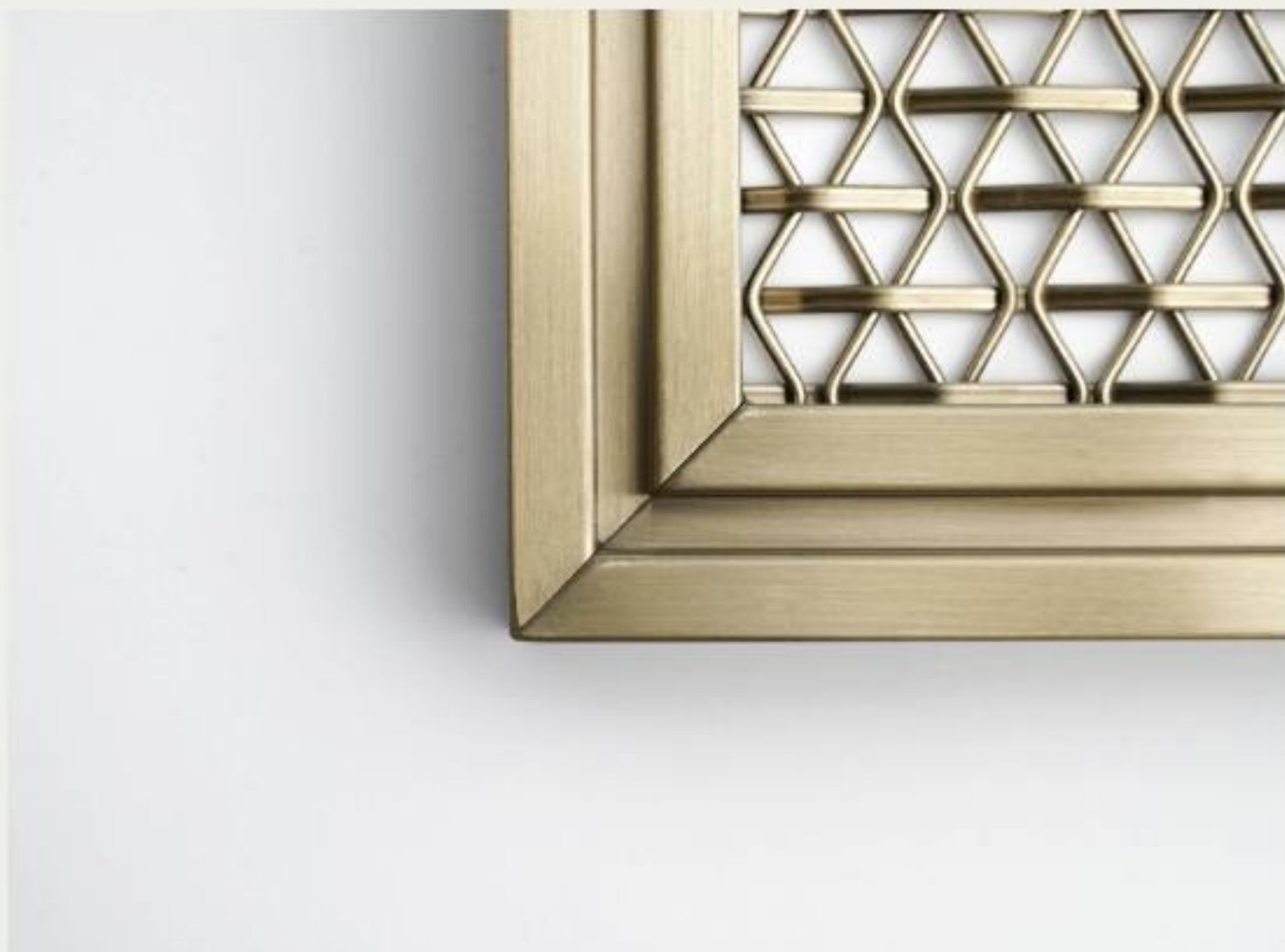
CURTAIN
STRAIGHT TRACK

Confirm track length, drop height, fullness and end returns.



CURTAIN
CURVED TRACK

Use radius, ceiling condition and movement clearance to define the route.



CUSTOM
CUSTOM EDGE

Review product family, edge logic and site condition before production.

INTERIOR FOCUS

- Protected edges and backing
- Track route and hanging height
- Cleaning and high-touch zones
- Custom detail feasibility

DRAWING REVIEW

Send clearer information for a clearer route.

A good installation discussion starts with drawings or site context. The goal is not to guess the final detail, but to narrow the technical route.



BEFORE SAMPLE OR QUOTE

- Application and product family
- Opening size or panel module
- Fixing surface and edge condition
- Reference image or site photo

01

SHARE CONTEXT

Application, product family, site photos and drawing dimensions.

02

REVIEW DETAIL ROUTE

Panel module, edge, frame, track, tension or backing condition.

03

LOCK NOTES

Confirm sample direction, production notes, packing and site coordination.

TECHNICAL BRIEF

Better drawings. Better installation route.

Send the application, product family, approximate size, fixing surface, reference image and any available drawing. SGORIA can then suggest the right discussion route for frame, edge, tension, track, backing or custom installation details.

This guide is for early technical coordination. Final installation should follow approved shop drawings, project engineering requirements and site conditions.



SCAN FOR MORE

Visit SGORIA online for fastening support, installation pages and project resources.

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