

# FIXING TECHNIQUES & WIND LOAD DETAILS FOR ALUMINIUM EXPANDED METAL MESH



## SOME FIXING METHODS

### ATTACHMENTS -

- ▶ GRAPHICAL REPRESENTATION OF FIXING DETAILS

**Office & Works:** 35-36, Industrial Estate, Uppalwadi,  
Kamptee Road, **Nagpur 440026 M.S., India**

Tel.: Works - 0712-2640542

**Cell: +91 98226 95359 / +91 98230 15956**

E-mail: [info@expandedmesh.in](mailto:info@expandedmesh.in) | [sarafsidharth@gmail.com](mailto:sarafsidharth@gmail.com)

<https://www.expandedmesh.in> | <https://www.sarafbros.com>

# ASIAN STRECK METALS

Since 1962



**ASIAN  
STRECK  
METALS**



Quality & Customer Satisfaction

**STRETCHMET**

EXPANDED STRETCH METAL  
SUNSCREEN FACADE & ARCHITECTURAL MESH



SOME FIXING METHODS  
ATTACHMENTS -

- ▶ GRAPHICAL REPRESENTATION OF FIXING DETAILS

---

# ASIAN STRECK METALS

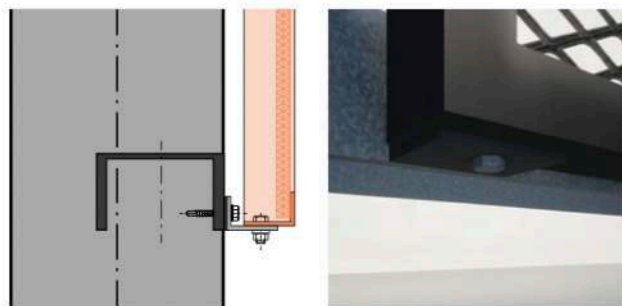
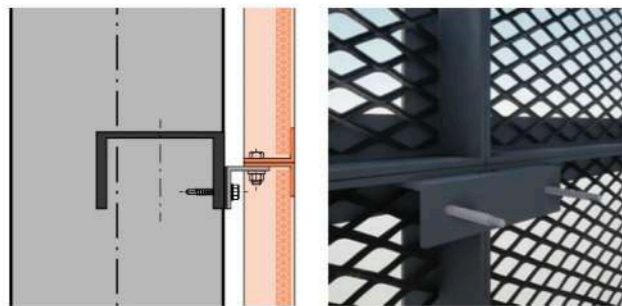
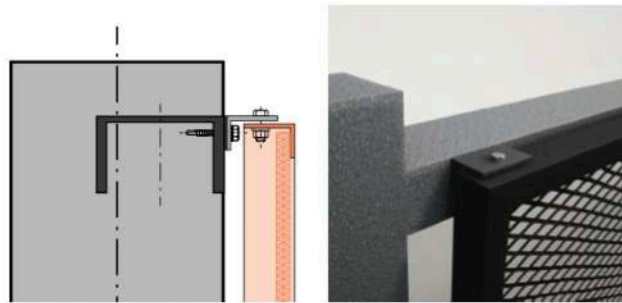
# Wind Load & Mesh Fixing Details



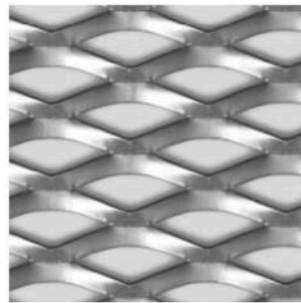
Quality & Customer Satisfaction



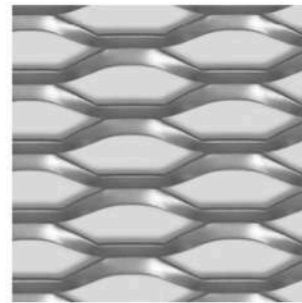
## MOMENTO DETAILS



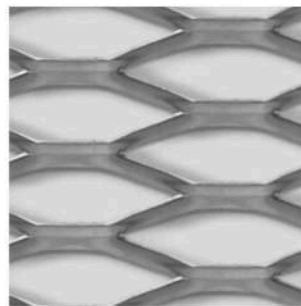
## MESH TYPES



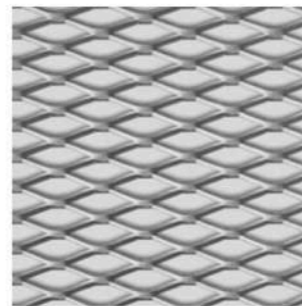
Expanded metal in Aluminium, EN AW-1050A H24  
Mesh: Rhomb 76x35x11 mm DIN 791  
Open area: approx. 37,1 %  
Thickness of material: 3 mm  
Total thickness: approx. 15 mm



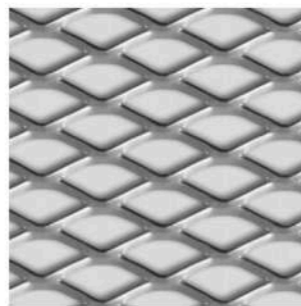
Expanded metal in Aluminium, EN AW-1050A H24  
Mesh: Hexagonal 100x34x10 mm DIN 791  
Open area: approx. 41,2 %  
Thickness of material: 3 mm  
Total thickness: approx. 14 mm



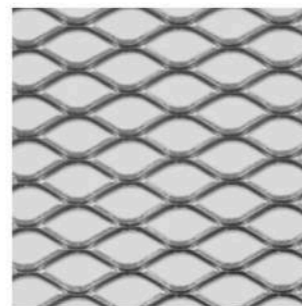
Expanded metal in Aluminium, EN AW-1050A H24  
Mesh: Hexagonal 150x40x10 mm DIN 791  
Open area: approx. 50 %  
Thickness of material: 3 mm  
Total thickness: approx. 17,3 mm



Expanded metal in Aluminium, EN AW-1050A H24  
Mesh: Rhomb 43x15x4 mm DIN 791  
Open area: approx. 47 %  
Thickness of material: 3 mm  
Total thickness: approx. 6,8 mm

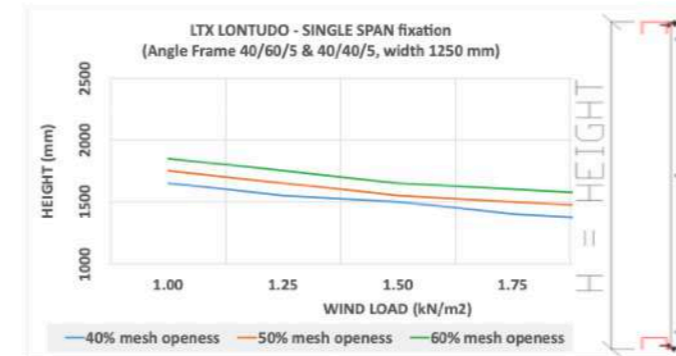
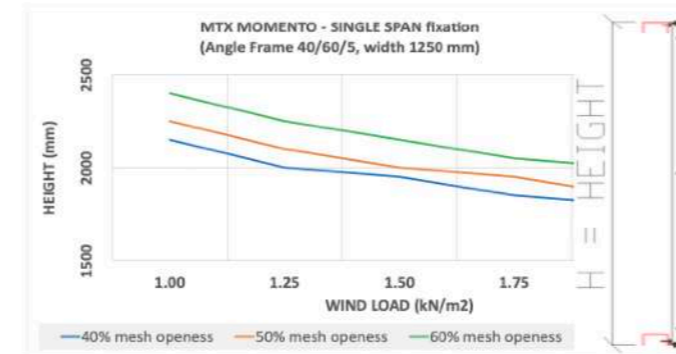


Expanded metal in Aluminium, EN AW-1050A H24  
Mesh: Rhomb 50x25x6 mm DIN 791  
Open area: approx. 52 %  
Thickness of material: 3 mm  
Total thickness: approx. 10,5 mm



Expanded metal in Aluminium, EN AW-1050A H24  
Mesh: Rhomb 50x22x4 mm DIN 791  
Open area: approx. 64 %  
Thickness of material: 3 mm  
Total thickness: approx. 7,5 mm

## STRUCTURAL CHARTS



### NOTES:

With mid span support fixing bracket the overall span of single screen panel can be extended up to 3000 mm.

Indicated spans are for informative guidance purpose only. Each project has to be structurally verified on correct dimensioning of the frames and fixing details.

Screen panels are used to form aesthetic enclosure to various application such as generators and plant equipment, water tanks, bike sheds, fences etc. The application range is almost limitless yet providing the impressive architectural and visual appearance as well as retaining the natural ventilation and air flow.

Typically made of aluminium powder coated frames and expanded mesh infill for ultimate corrosion resistance and lightweight construction. Pre-fabricated and thought through fixation details and interfaces to minimize the labour work on building site thus increasing on the efficiency and speed of construction. Expanded mesh infill and frames are fully welded hence there is no visible fixings or rivets to the front exposed face of the screen panels.

A few basic options and finishes are demonstrated within this brochure whilst many more are available upon the individual project requirements and architectural design brief.

We pride ourselves for an instant and dedicated »one-stop« service and support on detailing and 3D rendering, structural calculations, design, fabrication and supply within the agreed terms.

### SINGLE PANEL SIZES:

**Width:** up to 1500 mm  
**Height:** up to 2500 mm  
**Frame size:** according to structural calculation and mesh openness factor

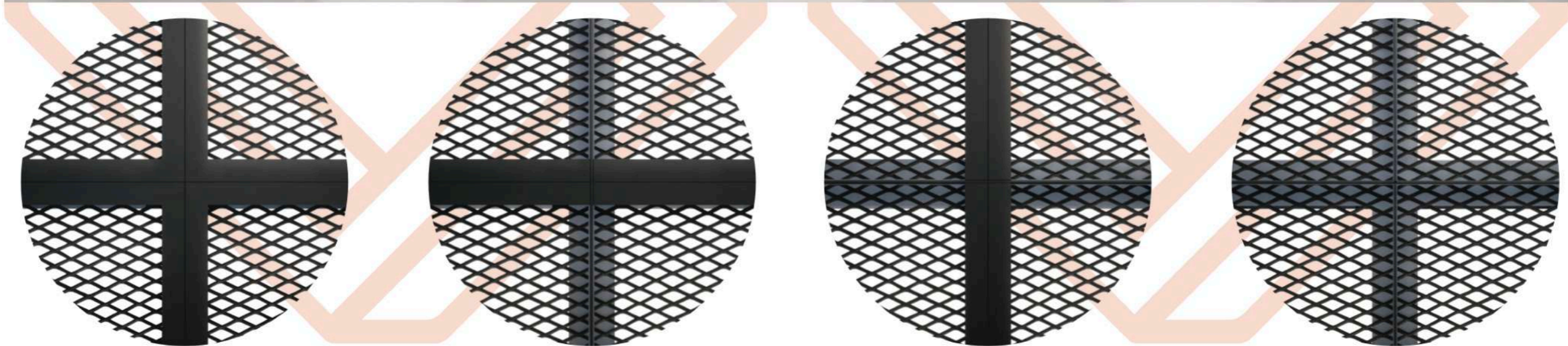
Since 1962



Quality & Customer Satisfaction

**STRETCHMET**

EXPANDED STRETCH METAL  
SUNSCREEN FACADE & ARCHITECTURAL MESH

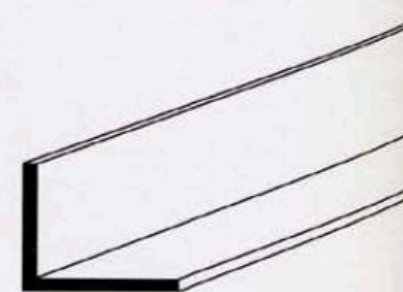


# Panel's assemblage



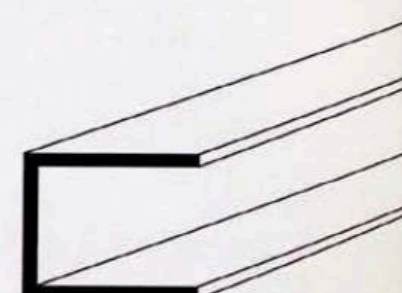
## "L" PROFILE

- Profile Available in aluminium bended or extruded
- Panel's support structure in stretch metal , light and strong
- Large range of colours in anodized or post-painted finish
- The profile can be weld to the stretch metal's front or back
- Panel's hook assembled with various support structure
- Maximum dimension indicative of the finish panels : mm 1500 x mm3000



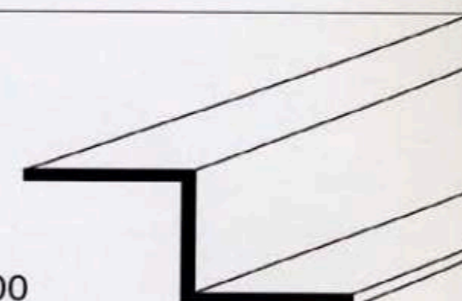
## "C" PROFILE

- Profile Available in aluminium bended or extrude
- Panel's support structure in stretch metal, light and strong
- Large range of colours in anodized or post-painted finish
- The profile can be weld to the stretch metal's front or back
- Panel's hook assembled with various support structure
- Maximum dimension indicative of the finish panels mm 1500 x mm3000



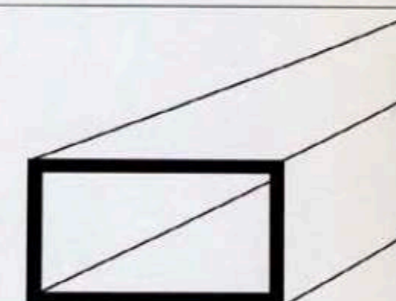
## "Z" PROFILE

- Profile Available in aluminium bended
- Z profile provide to maintain the same reveal from panel to panel
- The profile can be weld to the stretch metal's front or back
- Large range of colours in anodized or post-painted finish
- Panel's hook assembled with see or concealed system
- Maximum dimension indicative of the finish panels : mm 1500 x mm3000



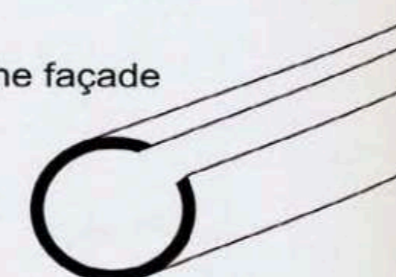
## Tubular profile section "□"

- The tubular profile permits the assembled panel's approach
- The profile can be weld to the stretch metal's back
- Large range of colours in anodized or post-painted finish
- Panel's hook assembled with concealed system
- Maximum dimension indicative of the finish panels : mm 1500 x mm3000



## Tubular profile section "O"

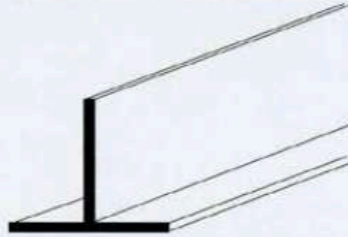
- The extruded tubular profile donate an architectonic and modern vision to the façade
- The stretch metal is weld into the profile
- Large range of colours in anodized or post-painted finish
- Panel's hook assembled with various support structure
- Maximum dimension indicative of the finish panels : mm 1500 x mm3000



# Wall anchorage system

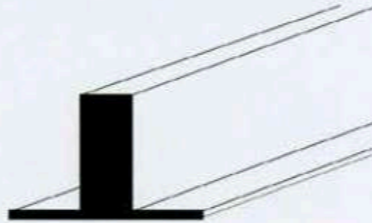
## PROFILES STEEL / ALUMINIUM

### "T1" Profile



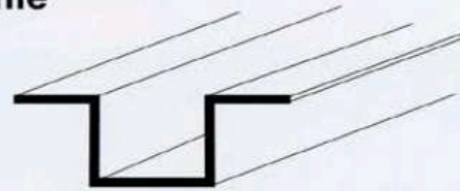
- Profile available in extruded aluminium in various dimension
- The profile can be weld to the stretch metal's interior or exterior
- Large range of colours with finish in anodized or post-painted

### "T2" Profile



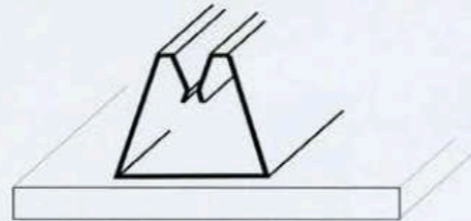
- Profile available in extruded aluminium in various dimension
- The profile can be weld to the stretch metal's interior or exterior

### "Omega" Profile



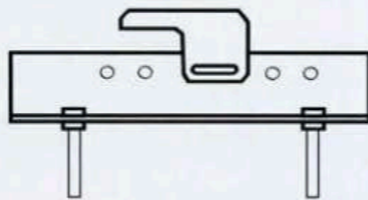
- Profile available in bended steel and aluminium in various dimension
- The profile can be weld to the stretch metal's interior or exterior

### Triangle Profile



- Wall fixing accessory (Clip)
- Galvanized steel finish

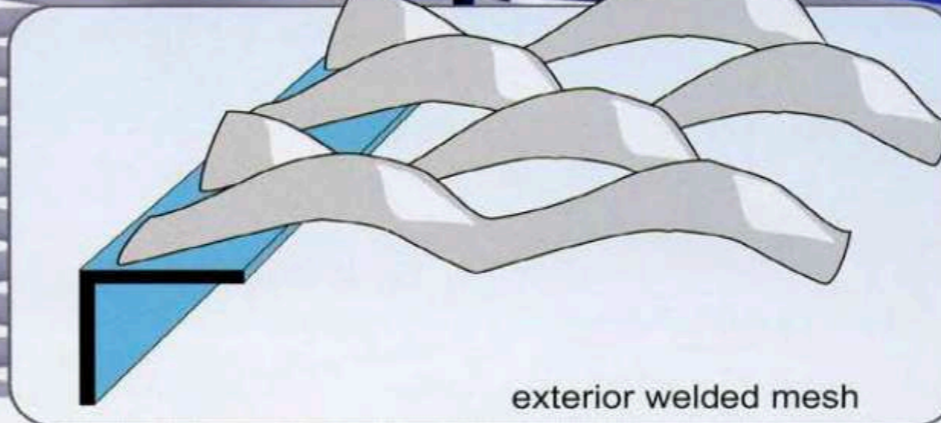
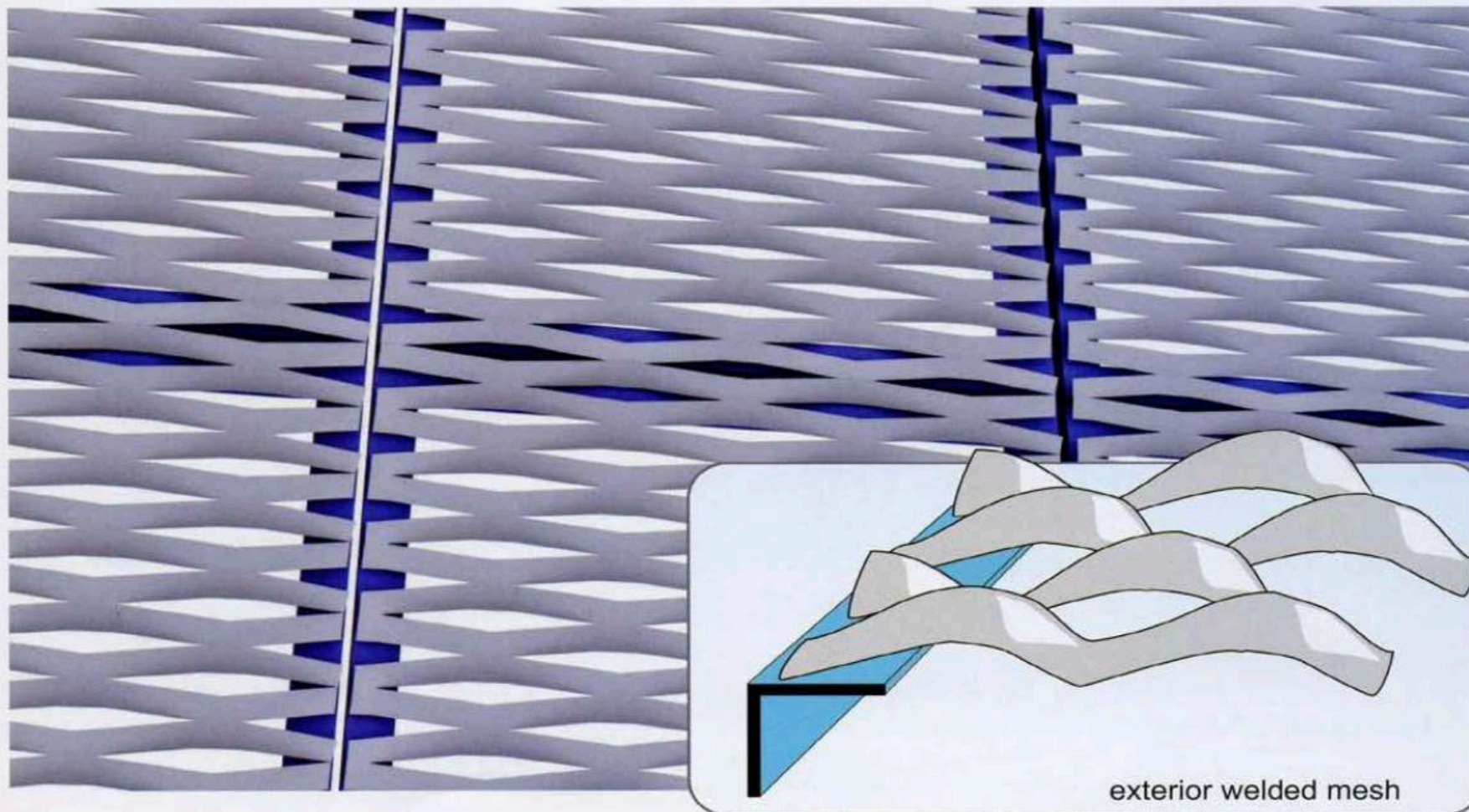
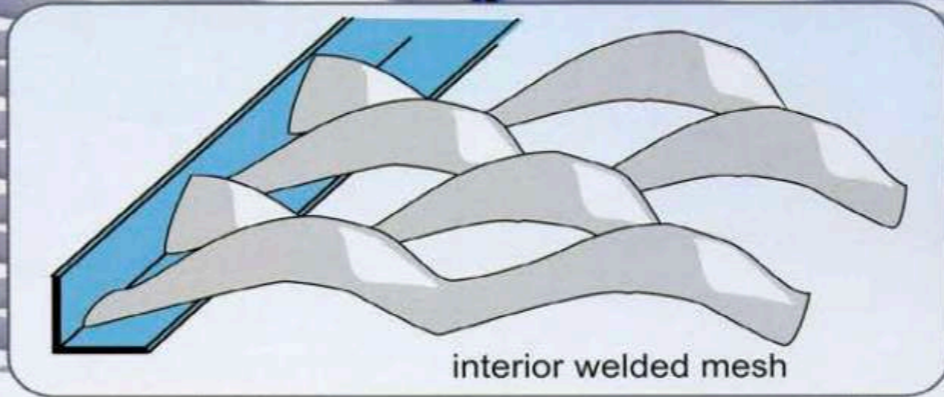
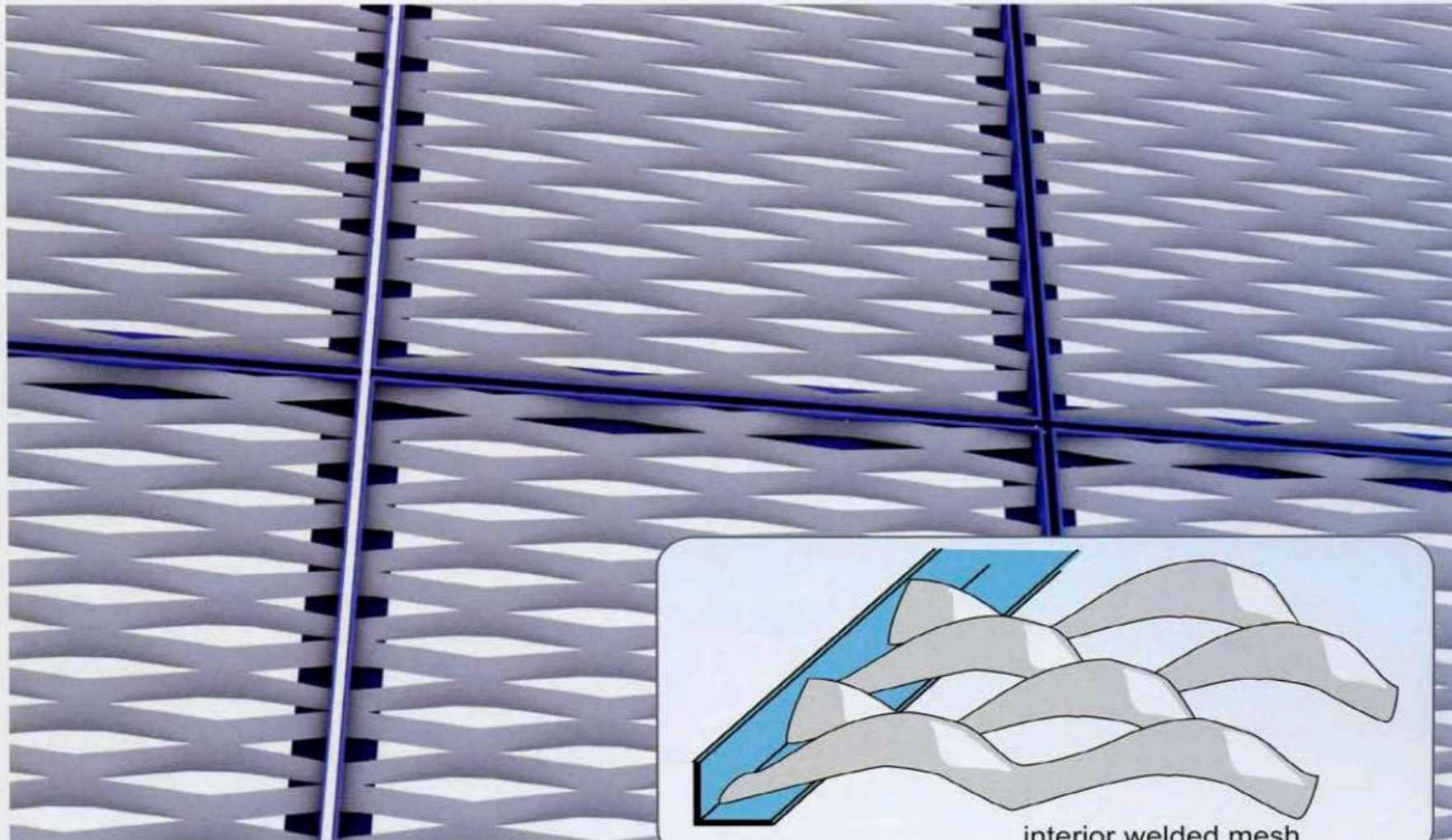
### Wall fixing Set



- Wall Fixing panel's accessory
- Galvanized or post paint steel finish
- Permits various regulation in module and distance from the wall

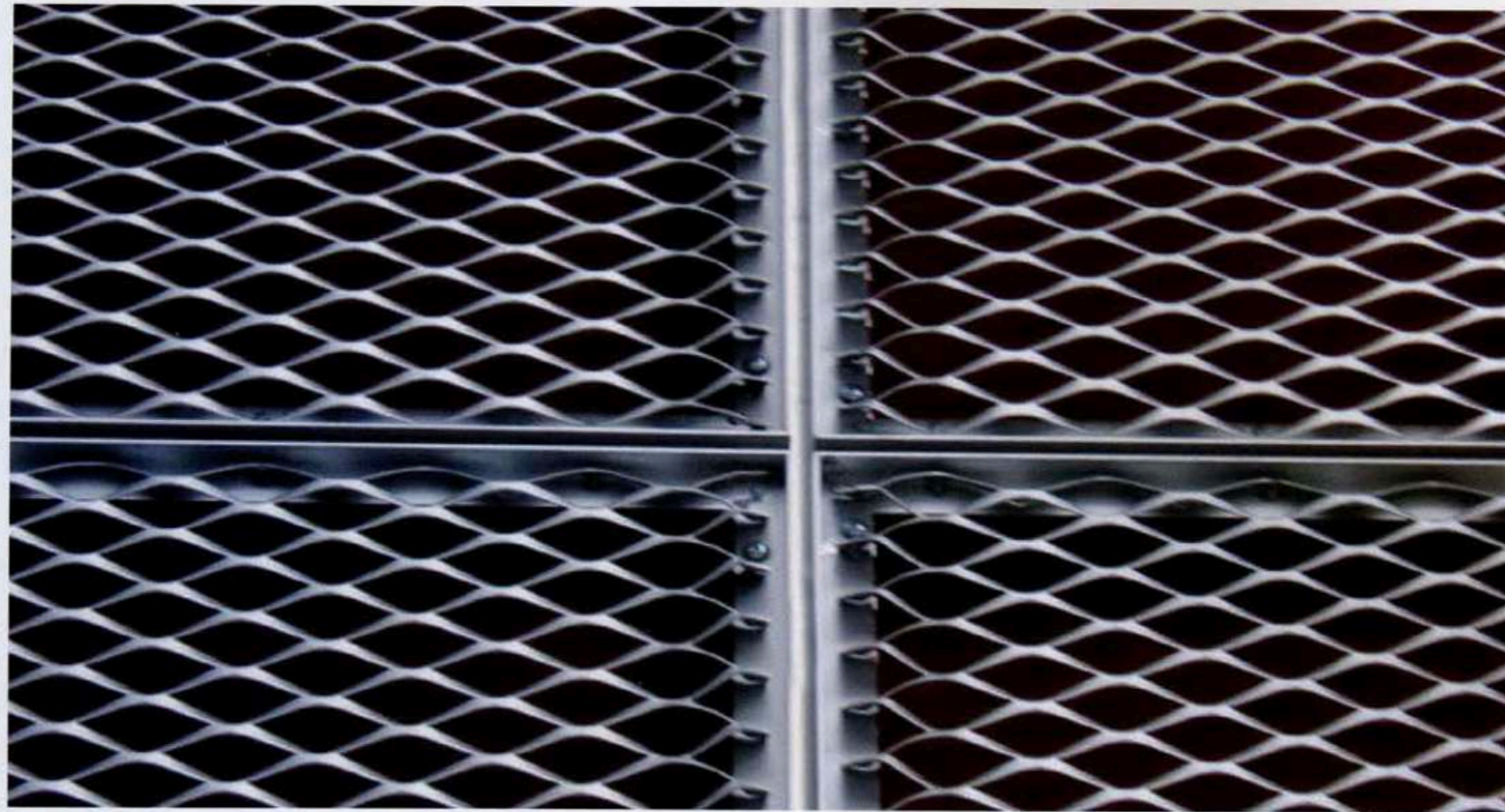
# Panel's assembly

## "L" System Profile

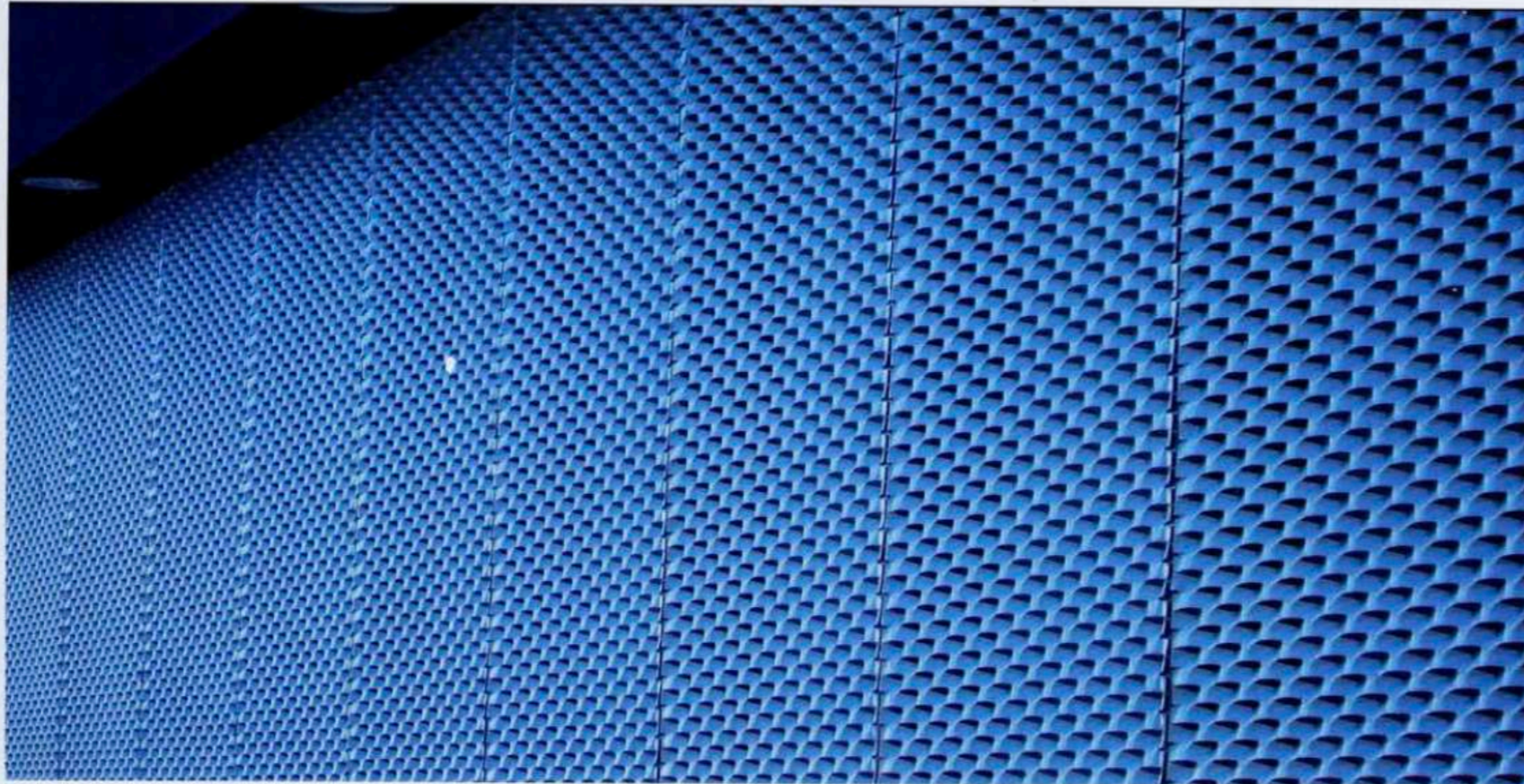


# Panel's assembly

## "L" System Profile



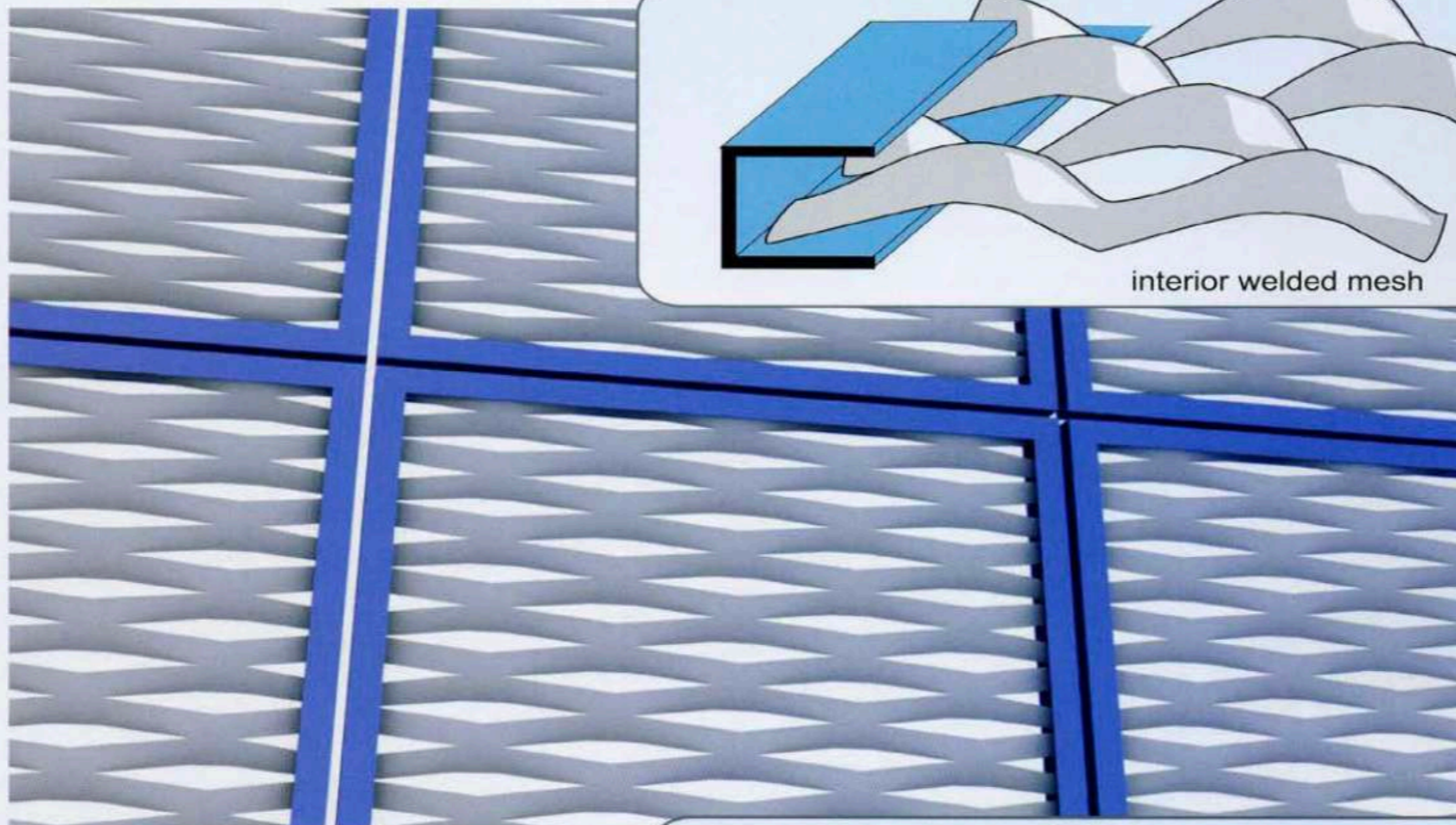
Mesh Rapallo



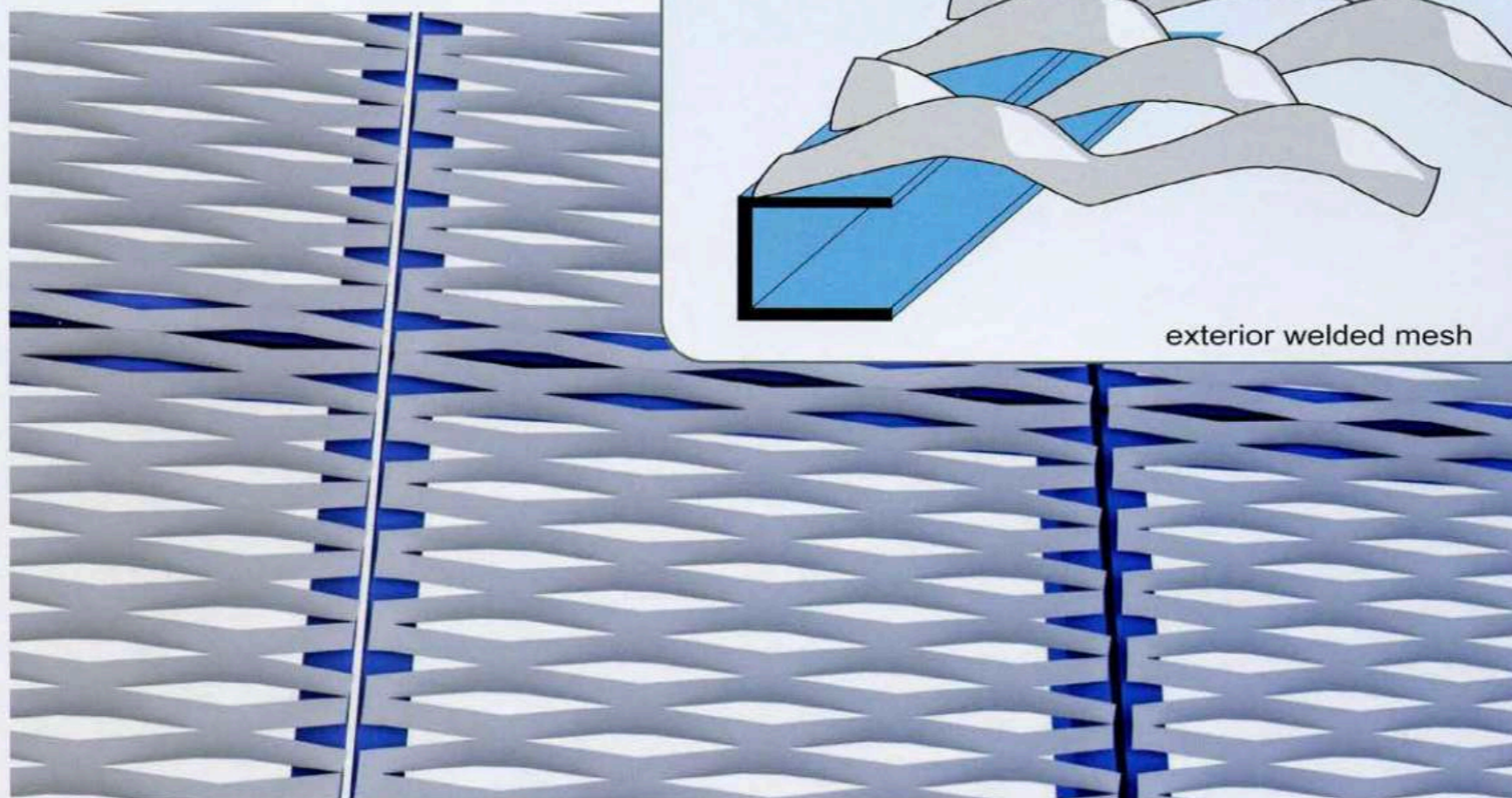
Mesh Roma

# Panel's assembly

## "C" System Profile



interior welded mesh

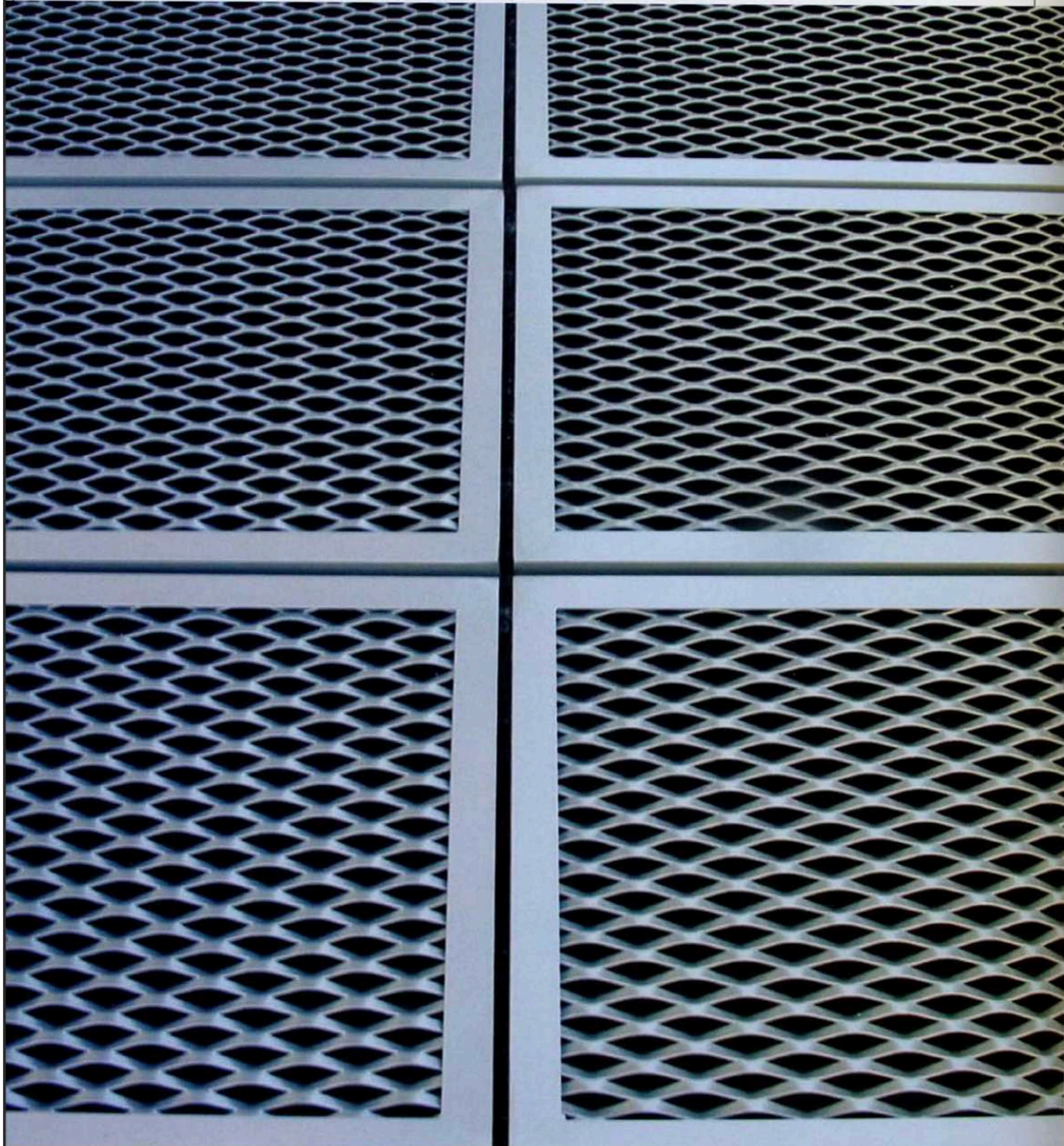


exterior welded mesh

# Panel's assembly



## "C" System Profile



Since 1962



**ASIAN  
STRECK  
METALS**



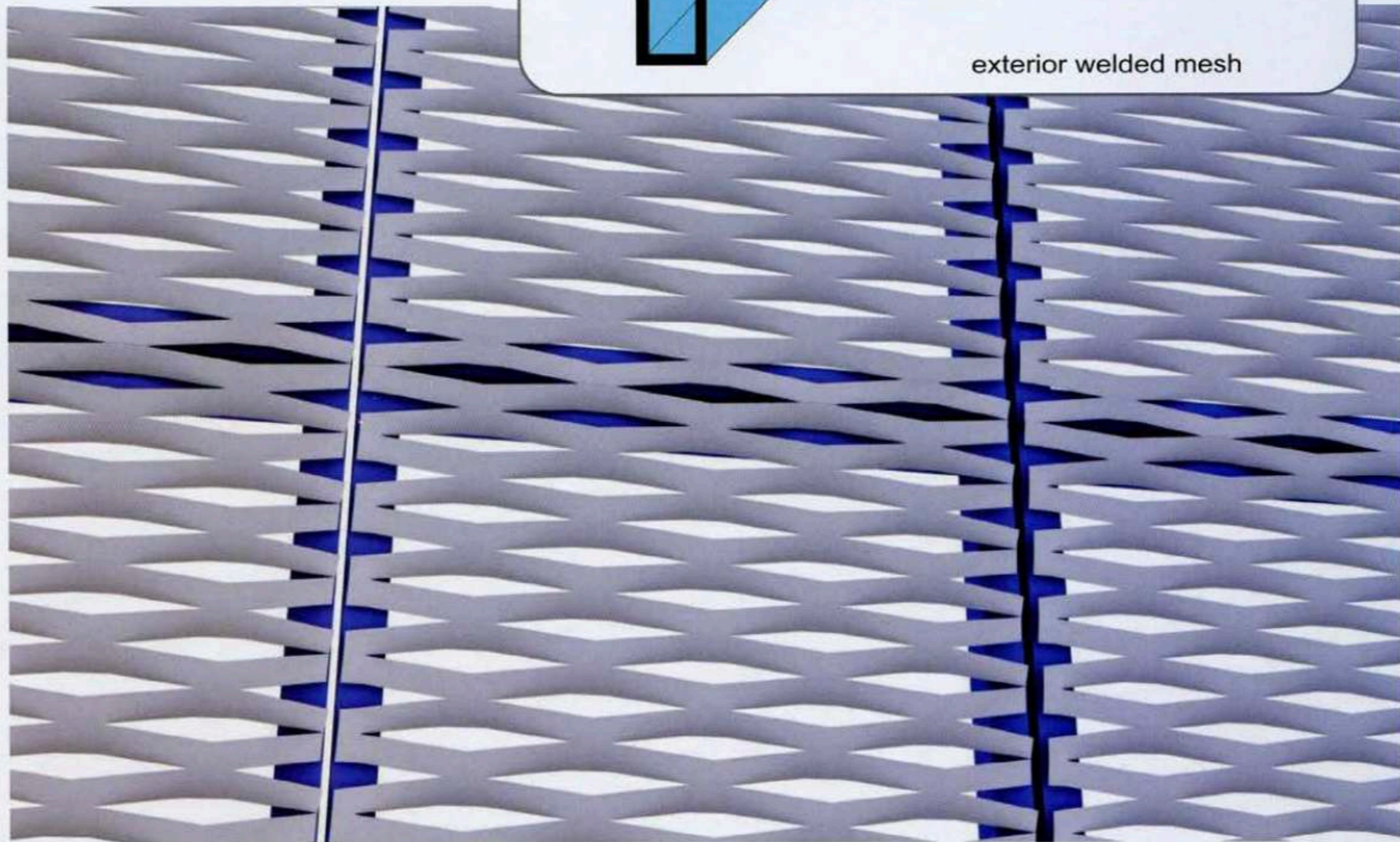
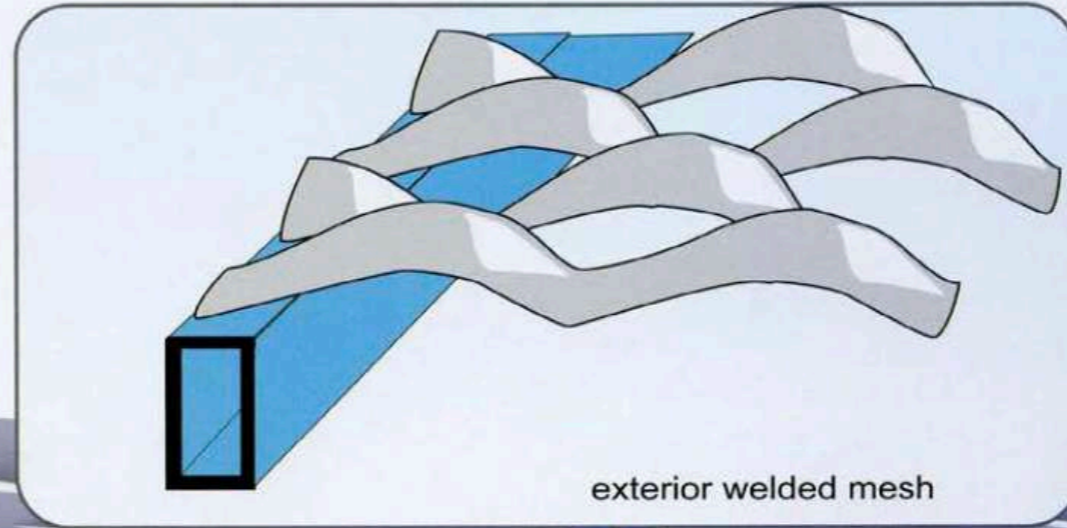
Quality & Customer Satisfaction

**STRETCHMET**

EXPANDED STRETCH METAL  
SUNSCREEN FACADE & ARCHITECTURAL MESH

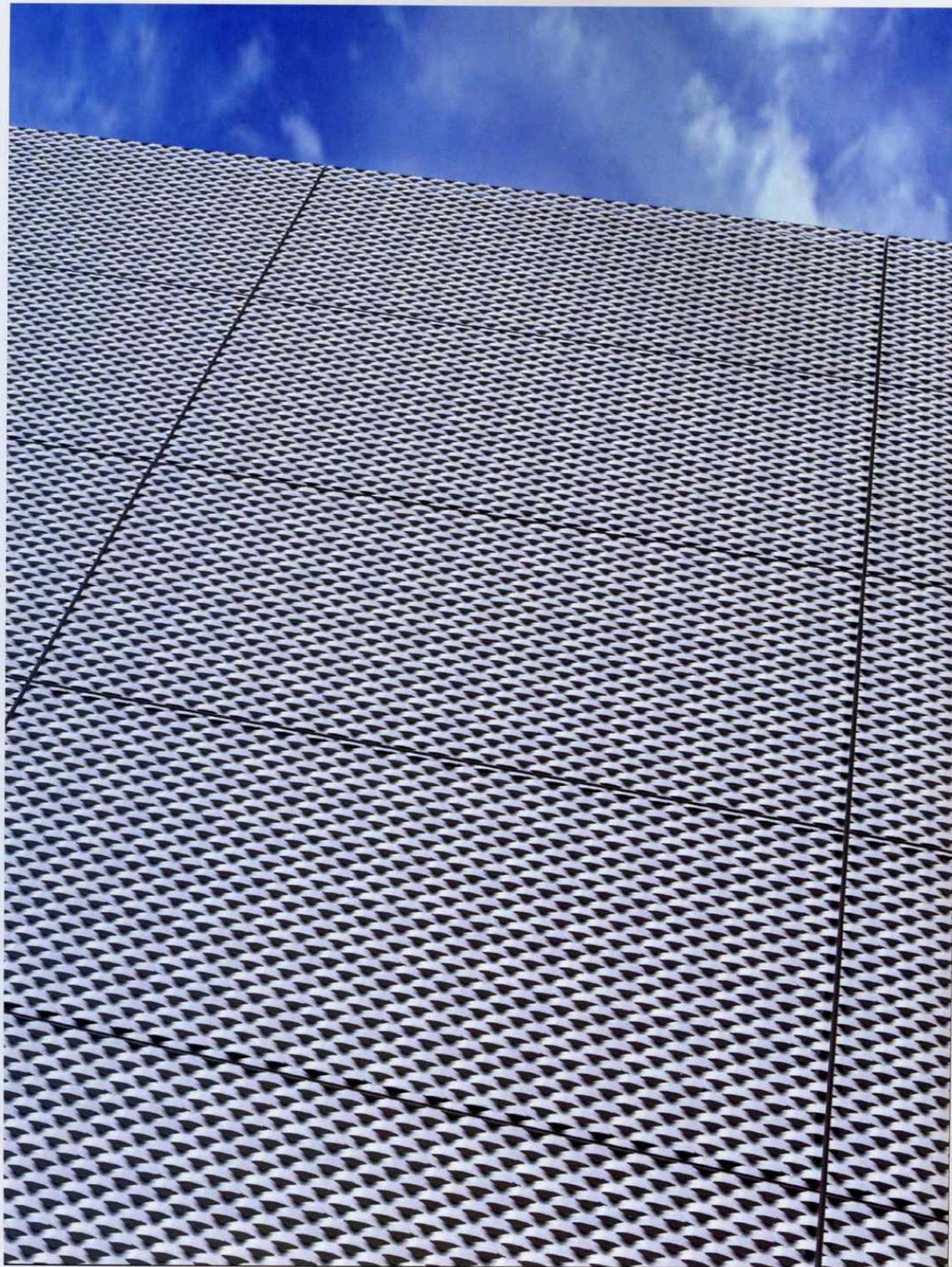
# Panel's assembly

## "TUBOLARE" profile



### Panel's assembly with tubular profile

- Various dimension, finish and thickness
- Available in aluminium
- Aost-paint in RAL colour , anodized finish
- On project façade and interior design realisation



Since 1962



**ASIAN  
STRECK  
METALS**



ISO 9001:2015  
COMPANY

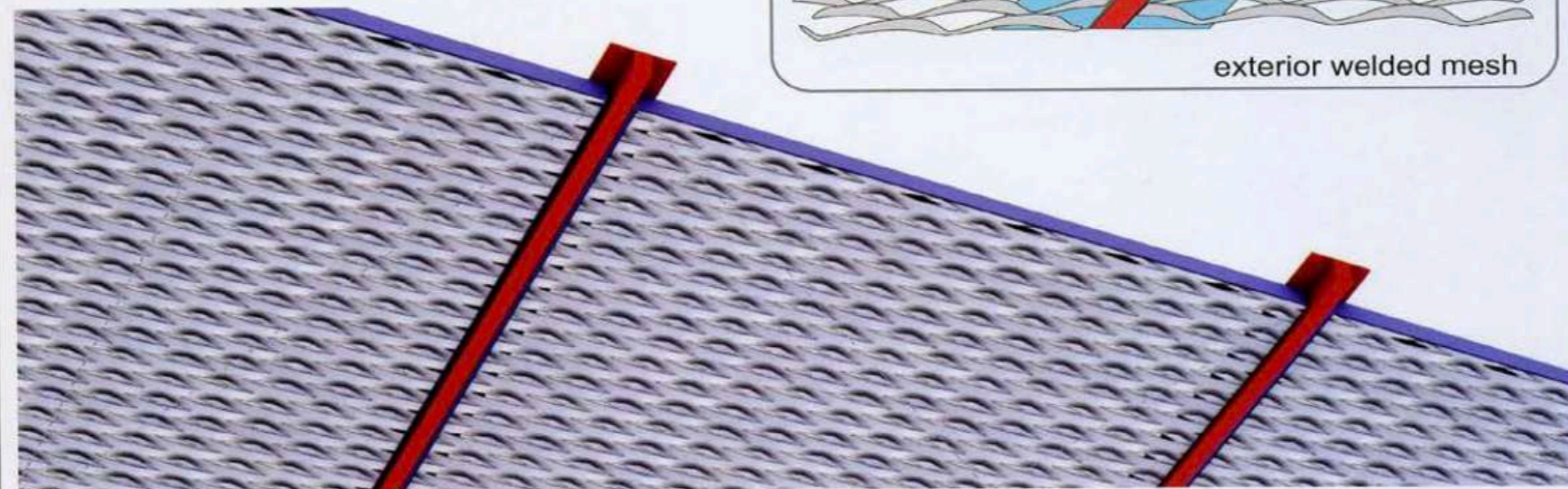
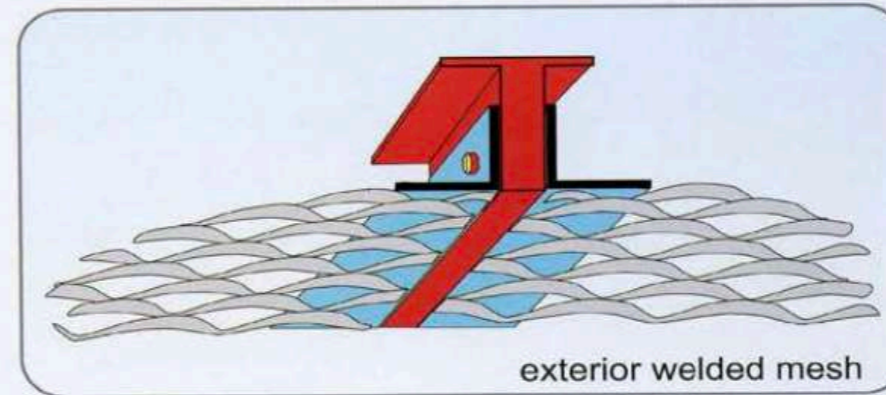
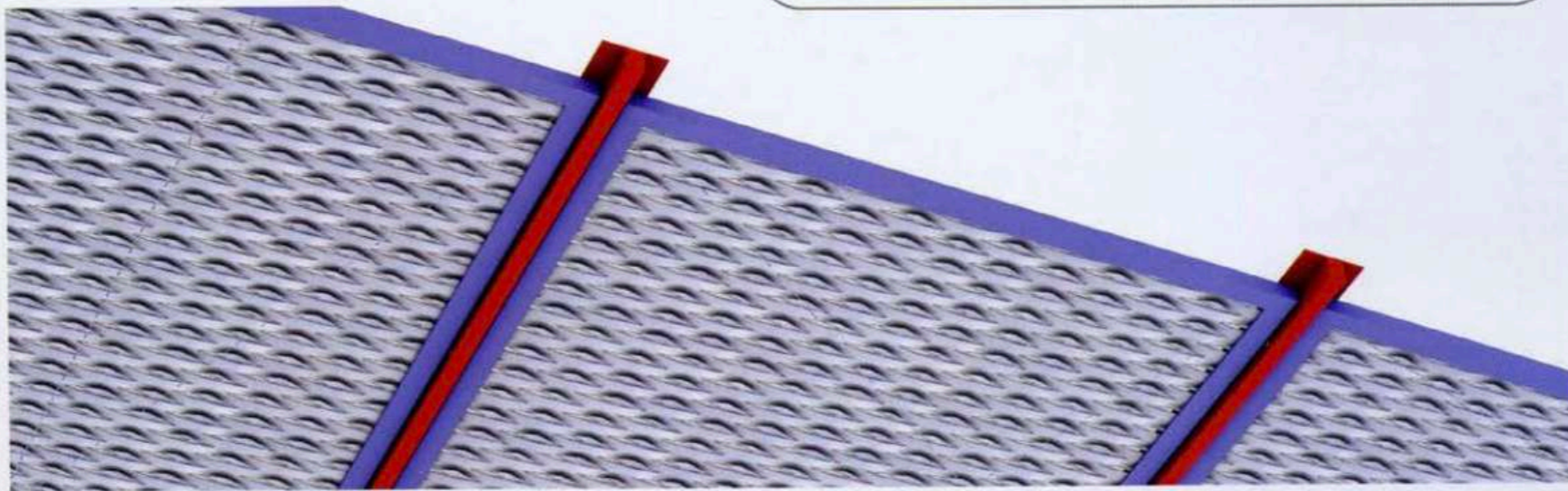
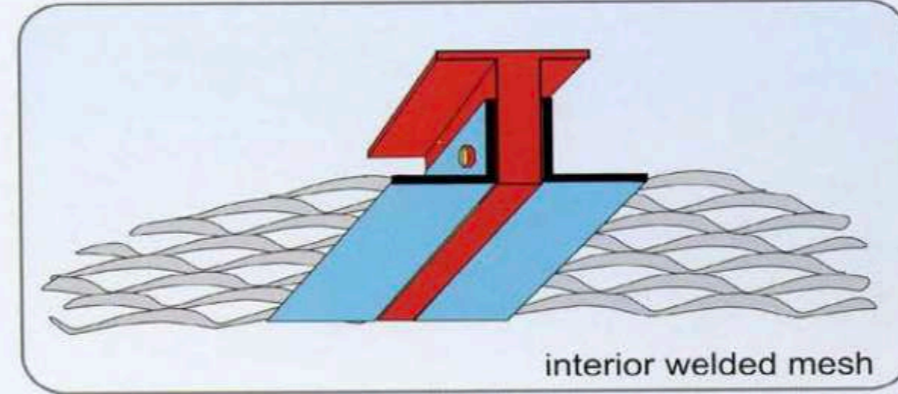
Quality & Customer Satisfaction

**STRETCHMET**

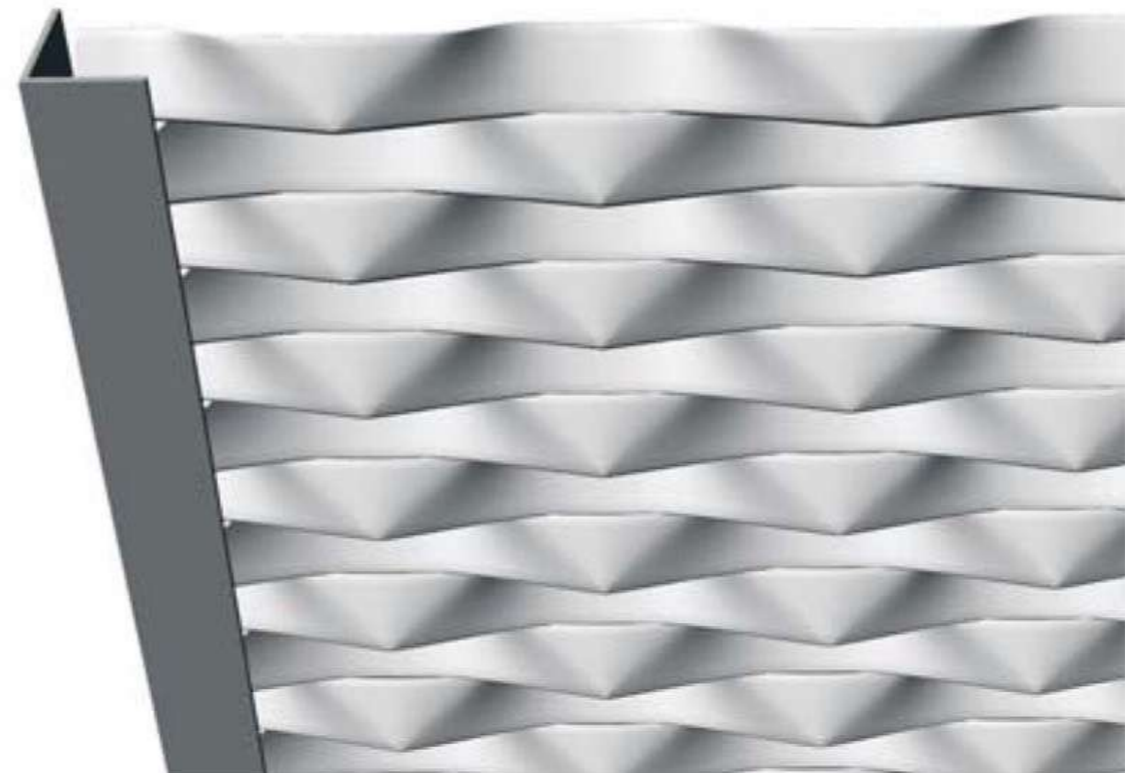
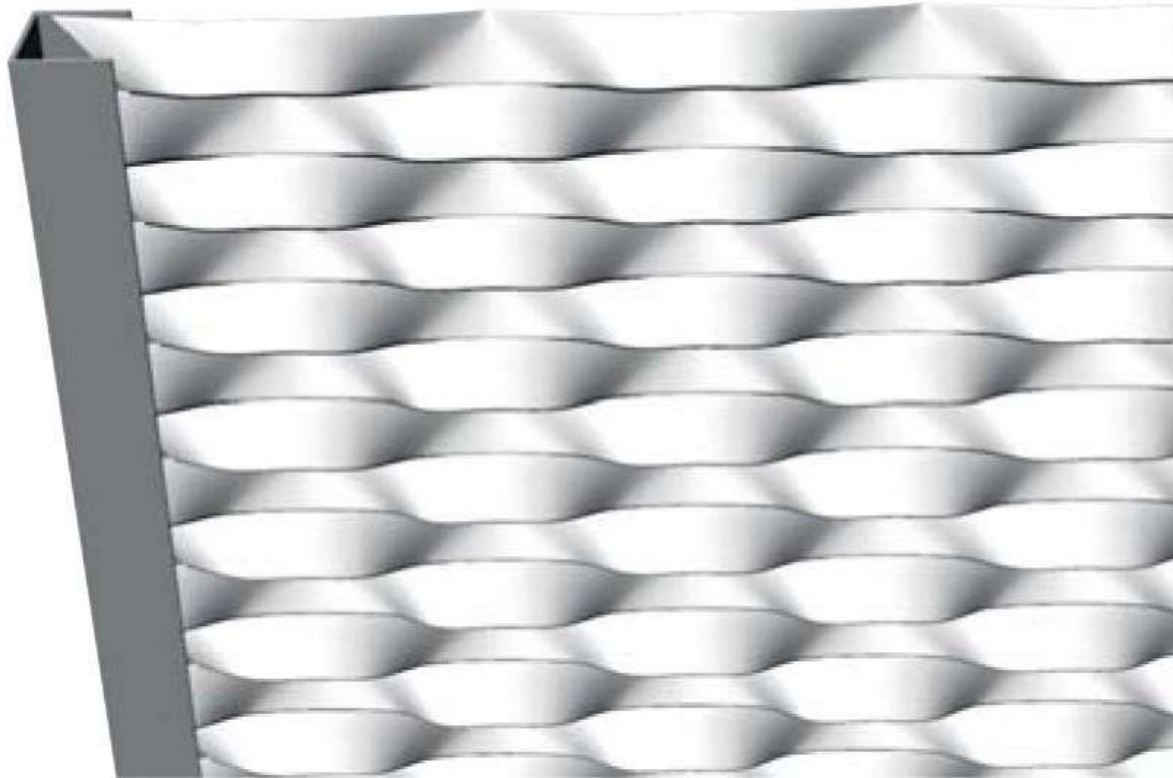
EXPANDED STRETCH METAL  
SUNSCREEN FACADE & ARCHITECTURAL MESH

# Anchorage system

## " T " Profile



# FIXING METHODOLOGY



Since 1962

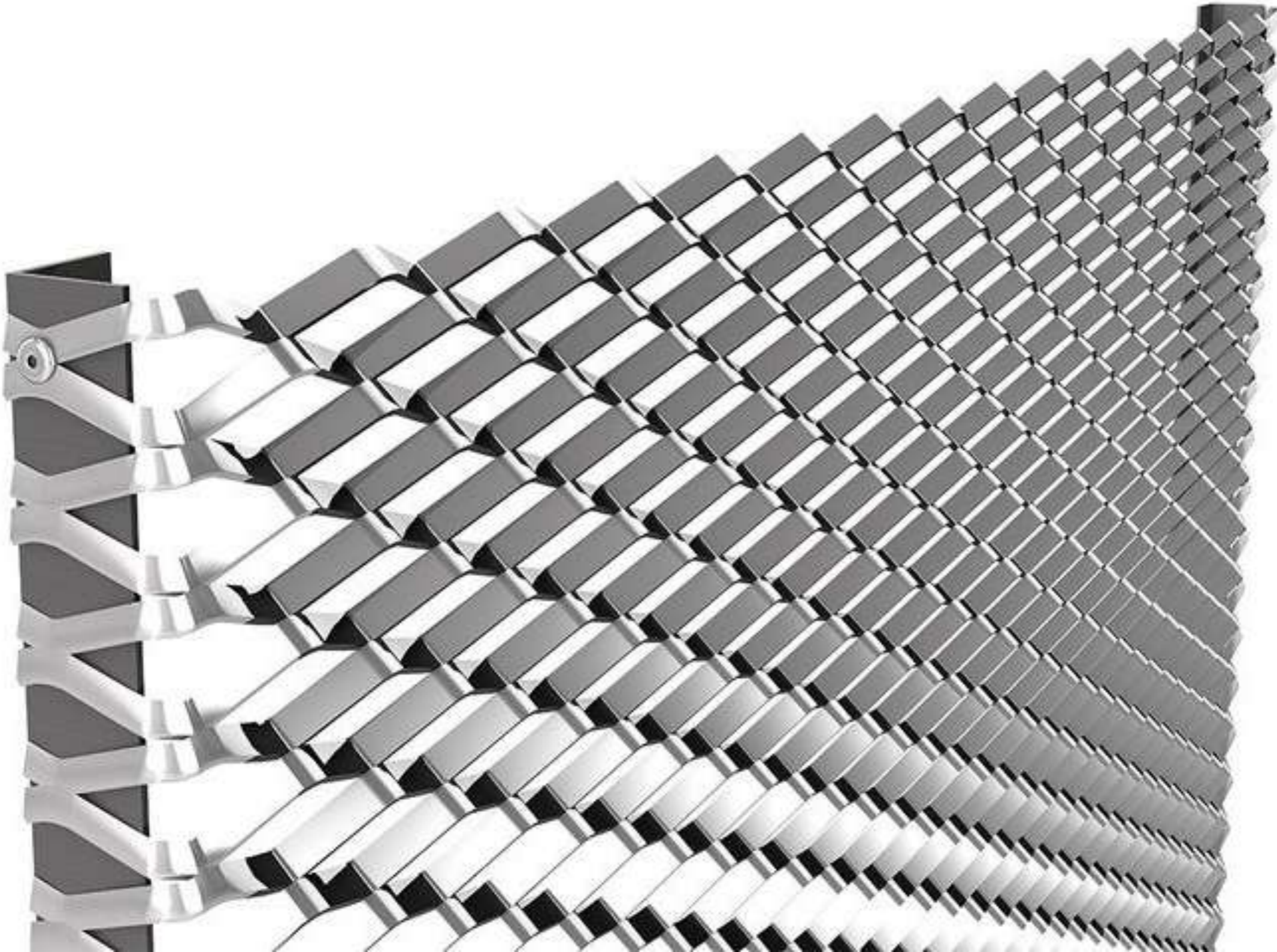
**ASM**  
**ASIAN**  
**STRECK**  
**METALS**

ISO 9001:2015  
COMPANY

Quality & Customer Satisfaction

**STRETCHMET**  
EXPANDED STRETCH METAL  
SUNSCREEN FACADE & ARCHITECTURAL MESH

# FIXING METHODOLOGY



Quality & Customer Satisfaction



# FIXING METHODOLOGY

Since 1962



**ASIAN  
STRECK  
METALS**

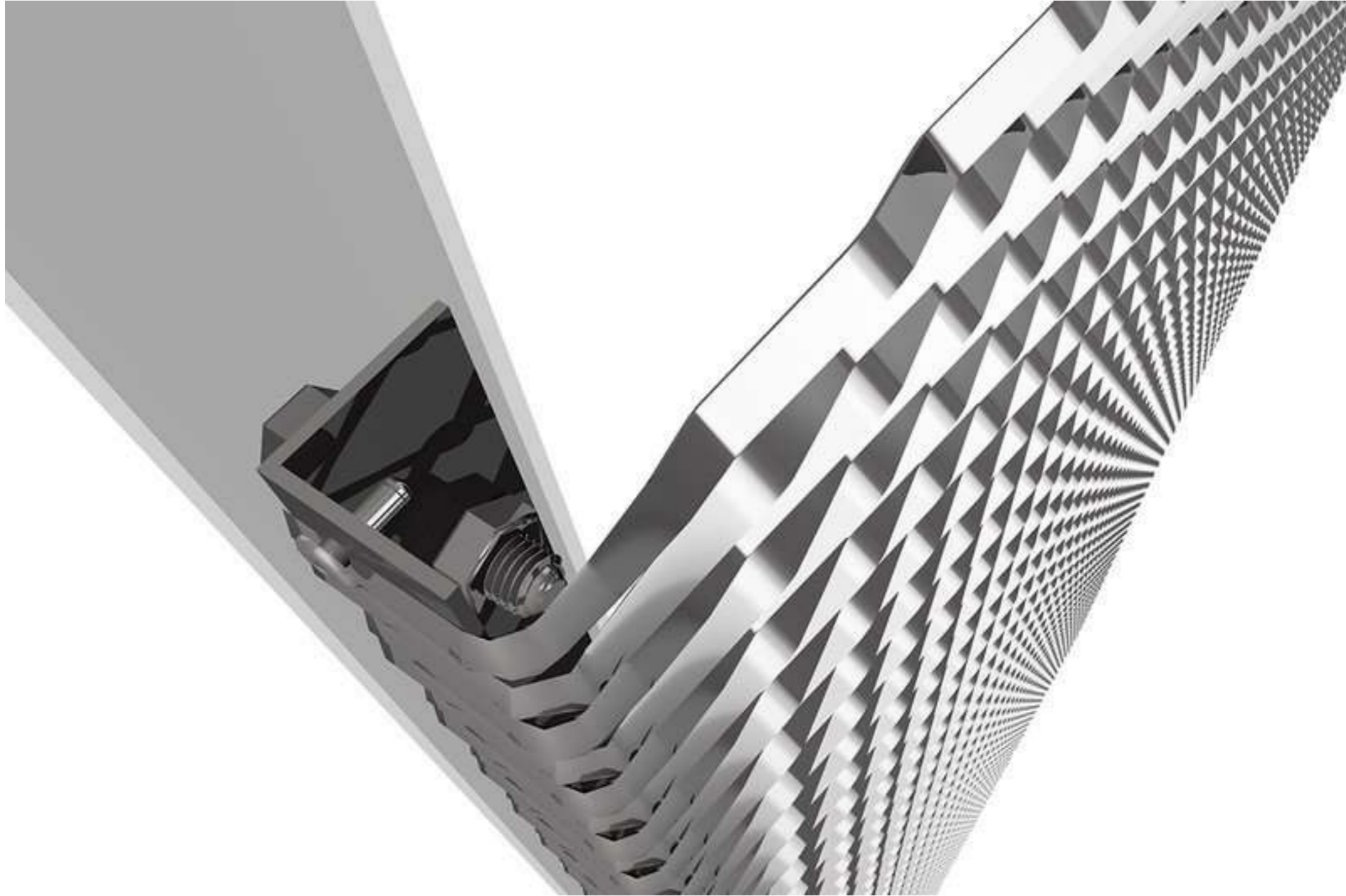


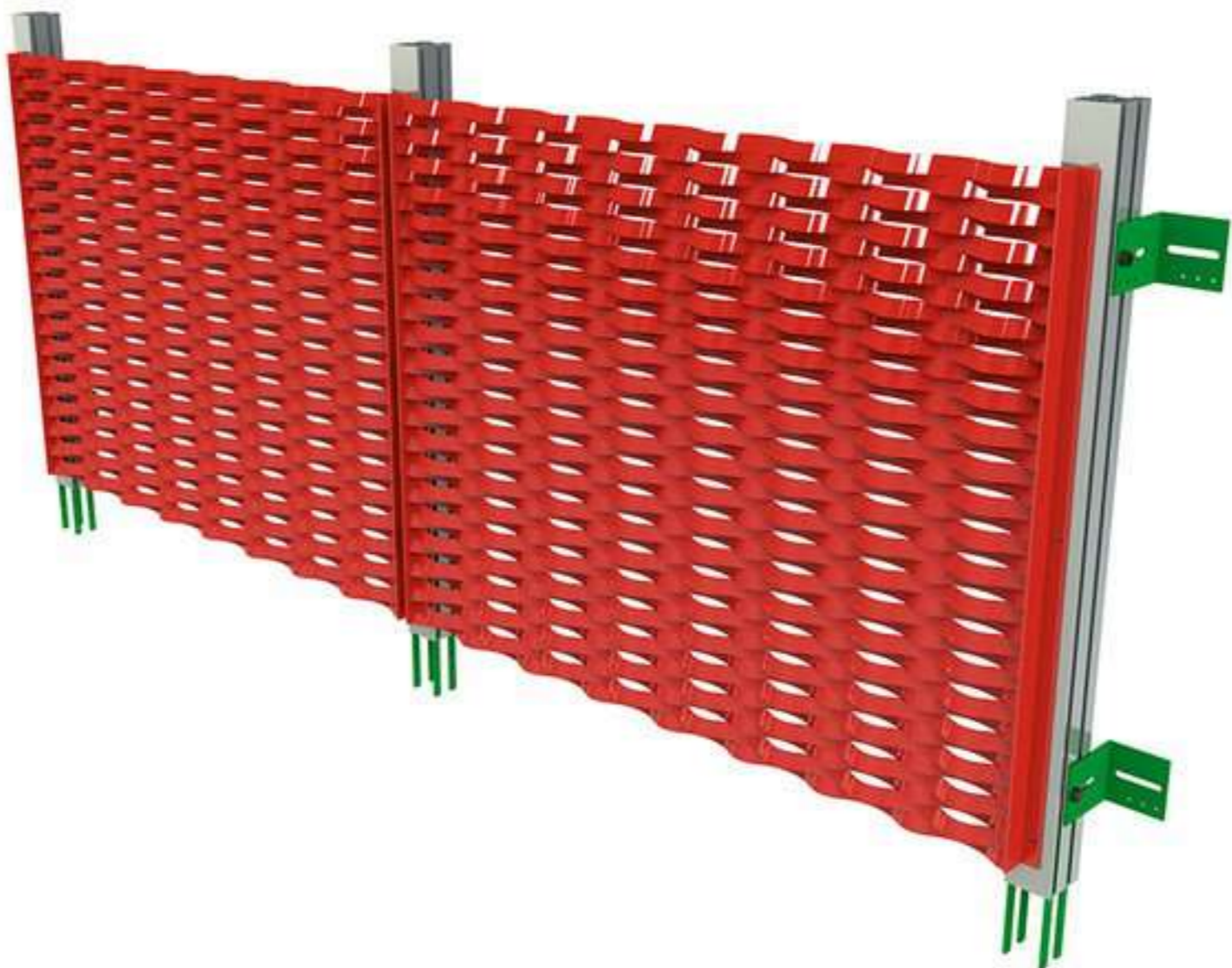
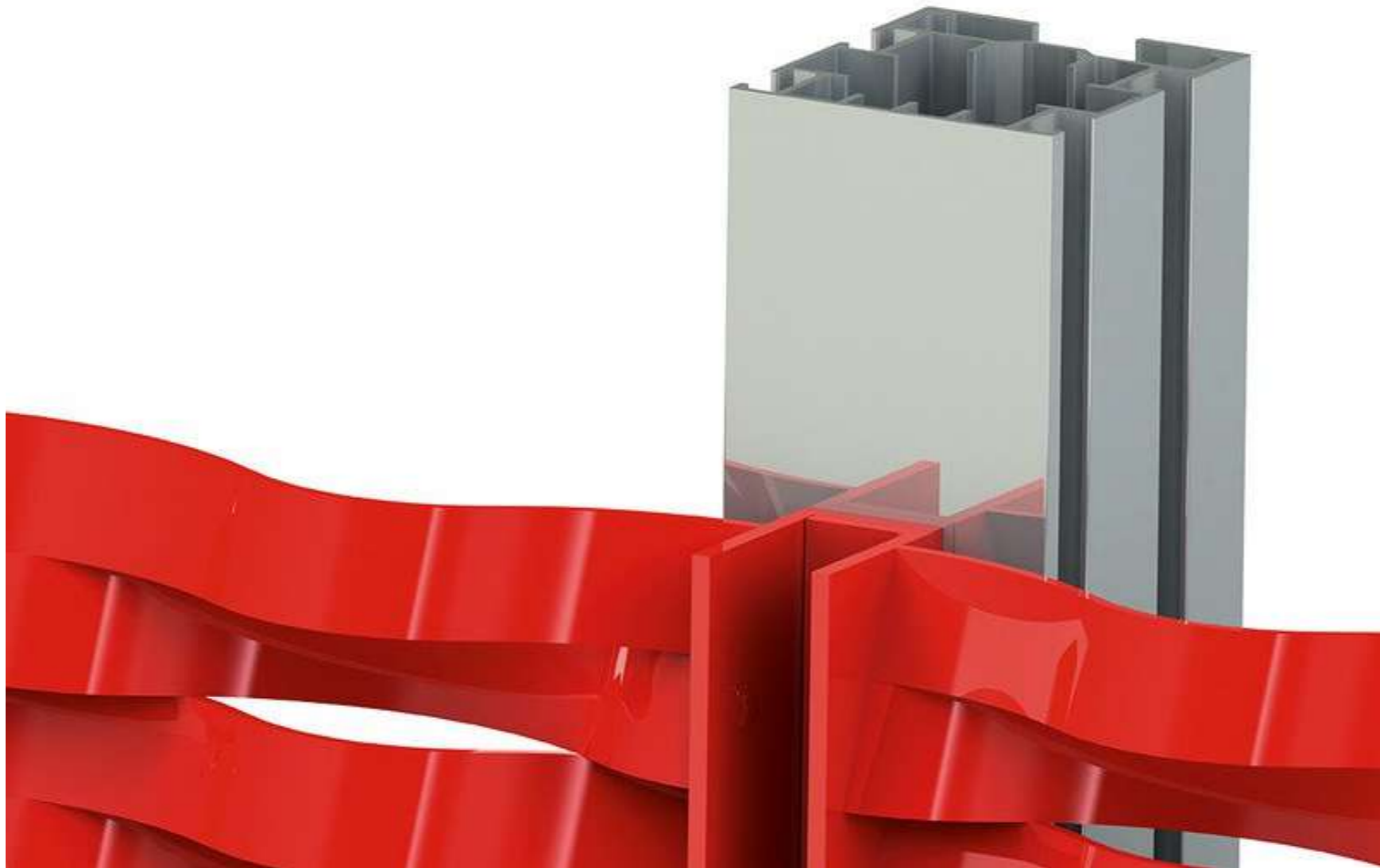
ISO 9001:2015  
COMPANY

Quality & Customer Satisfaction

**STRETCHMET**

EXPANDED STRETCH METAL  
SUNSCREEN FACADE & ARCHITECTURAL MESH





Since 1962



**ASIAN  
STRECK  
METALS**



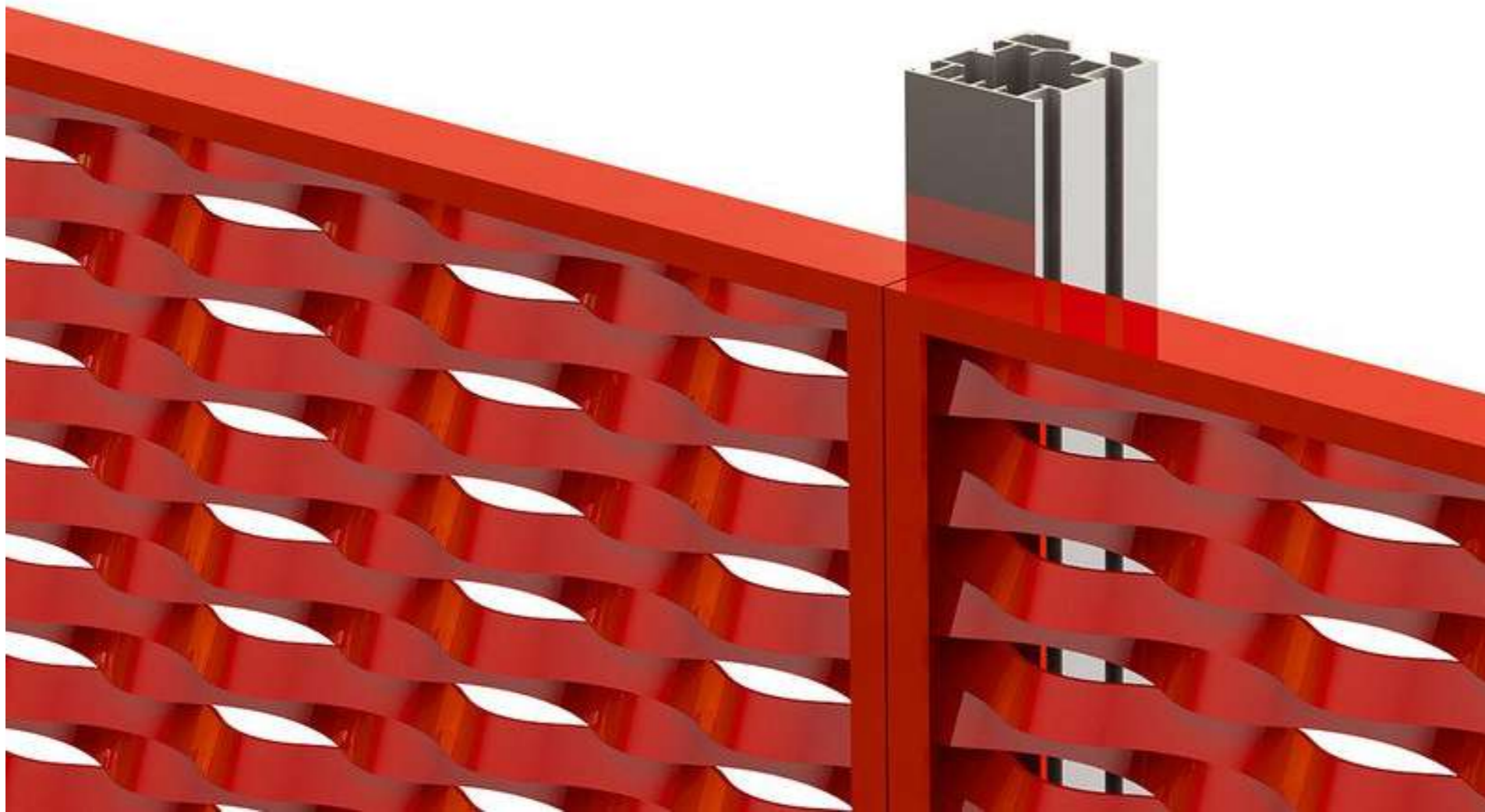
ISO 9001:2015  
COMPANY

Quality & Customer Satisfaction



**STRETCHMET**

EXPANDED STRETCH METAL  
SUNSCREEN FACADE & ARCHITECTURAL MESH



Since 1962



**ASIAN  
STRECK  
METALS**



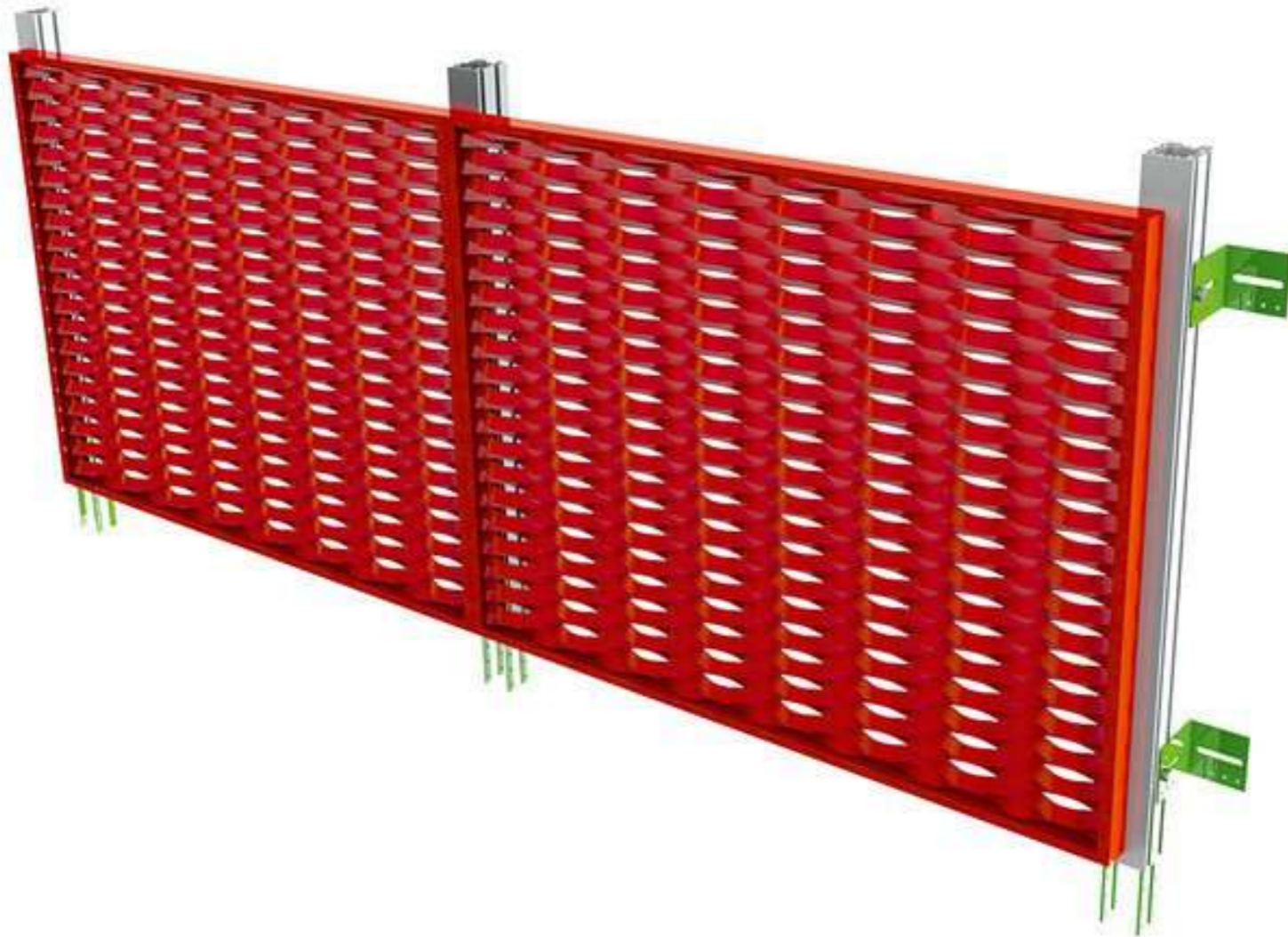
ISO 9001:2015  
COMPANY

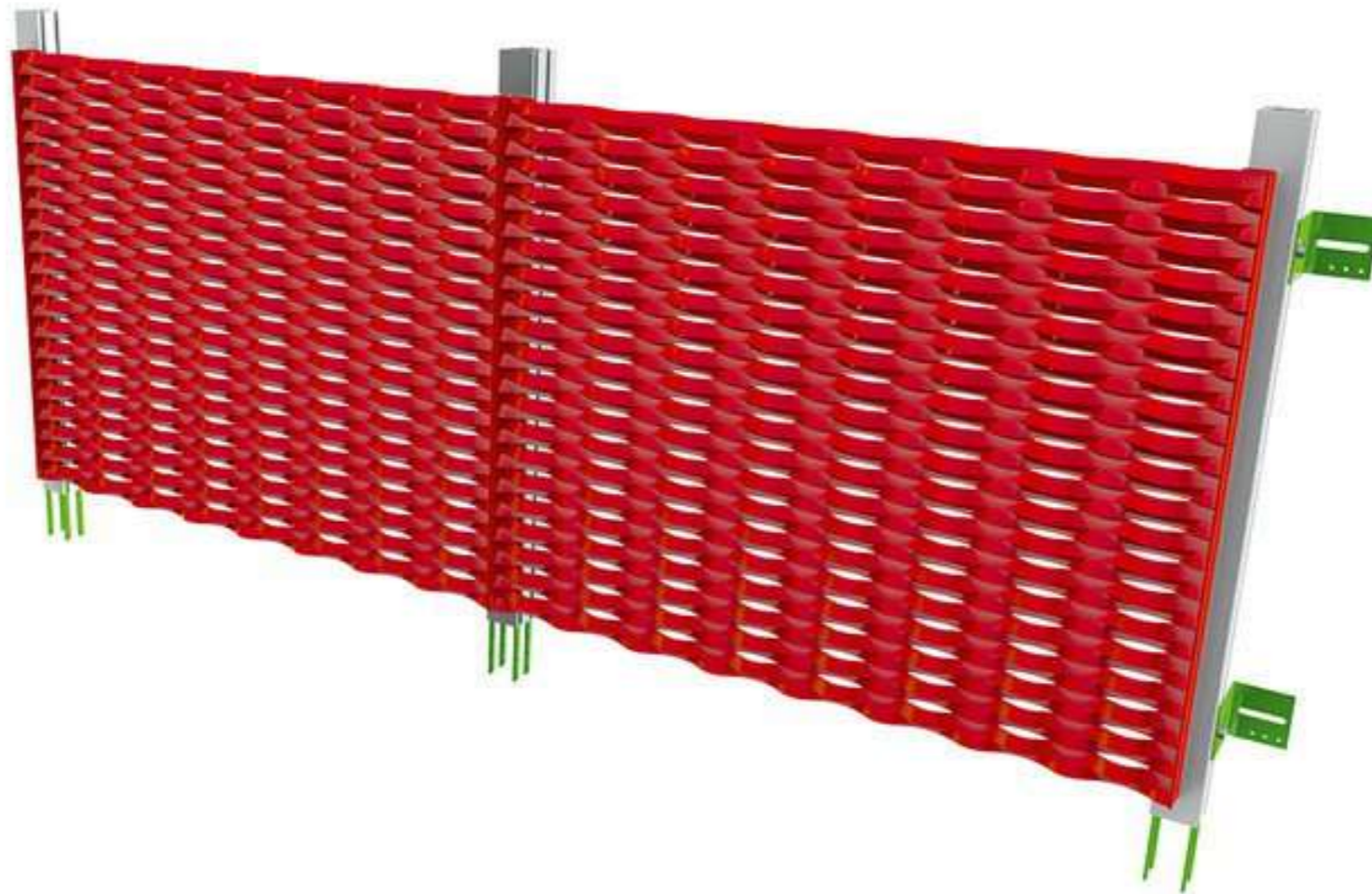
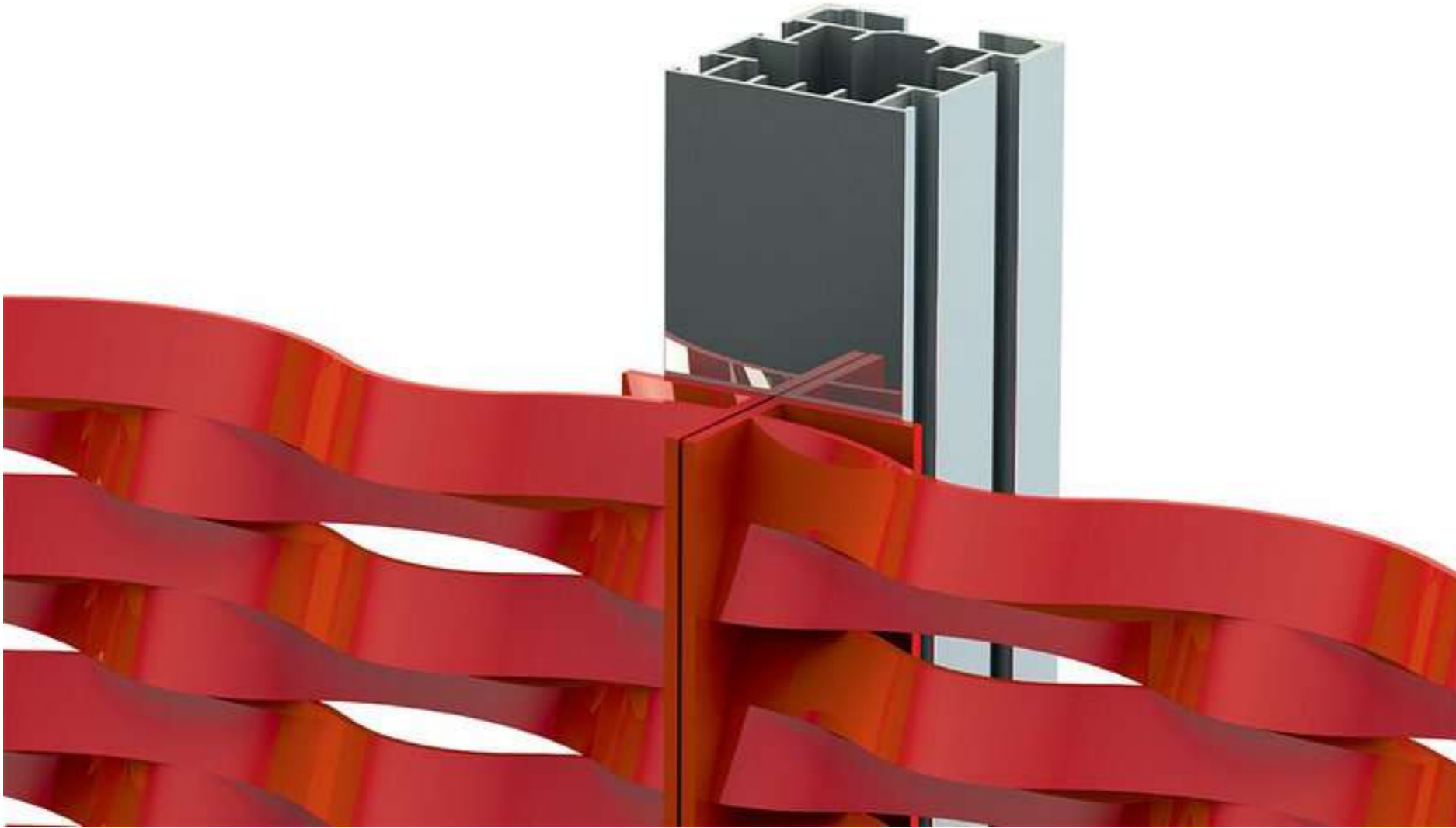
Quality & Customer Satisfaction

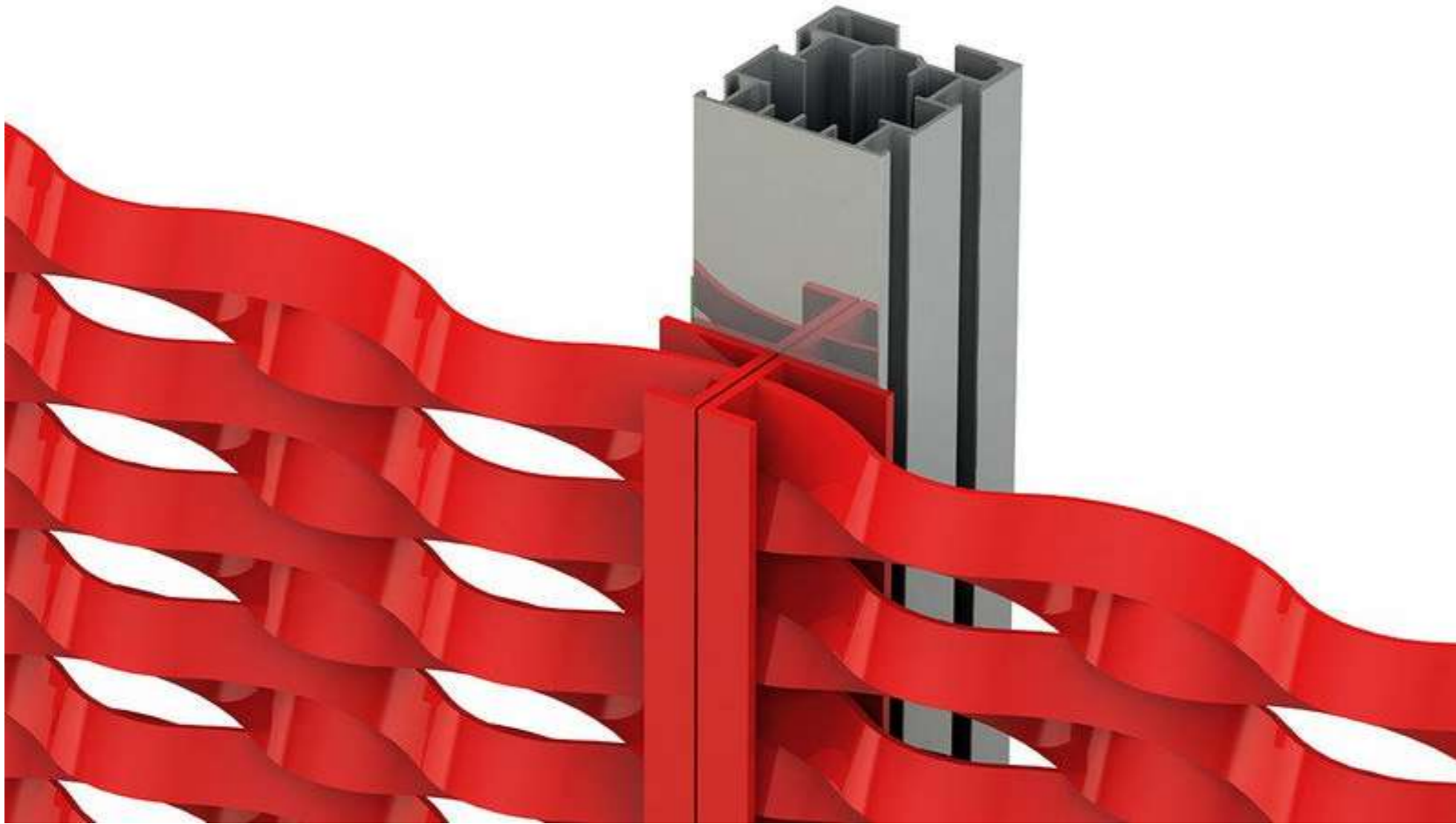


**STRETCHMET**

EXPANDED STRETCH METAL  
SUNSCREEN FACADE & ARCHITECTURAL MESH







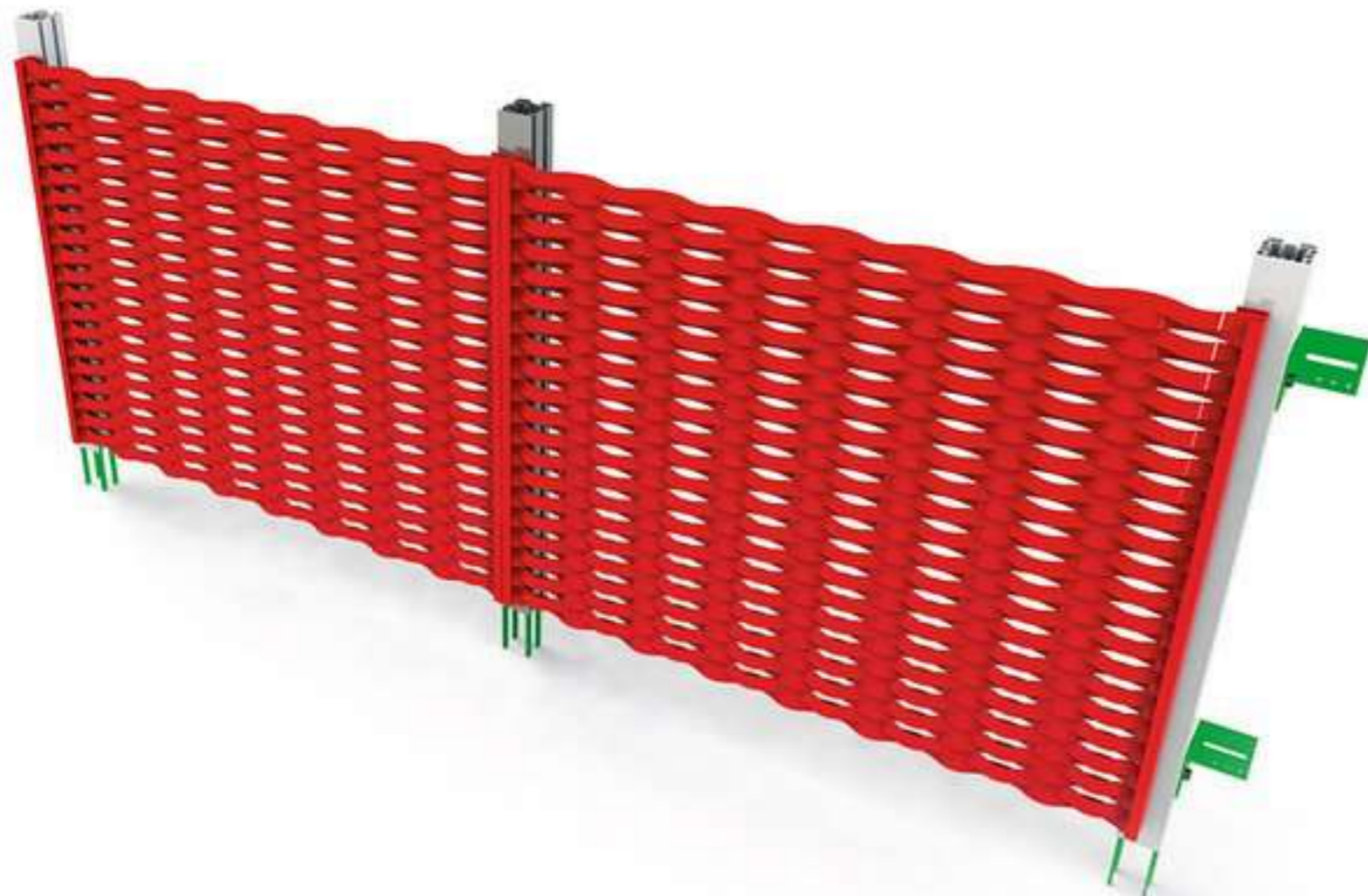
Since 1962

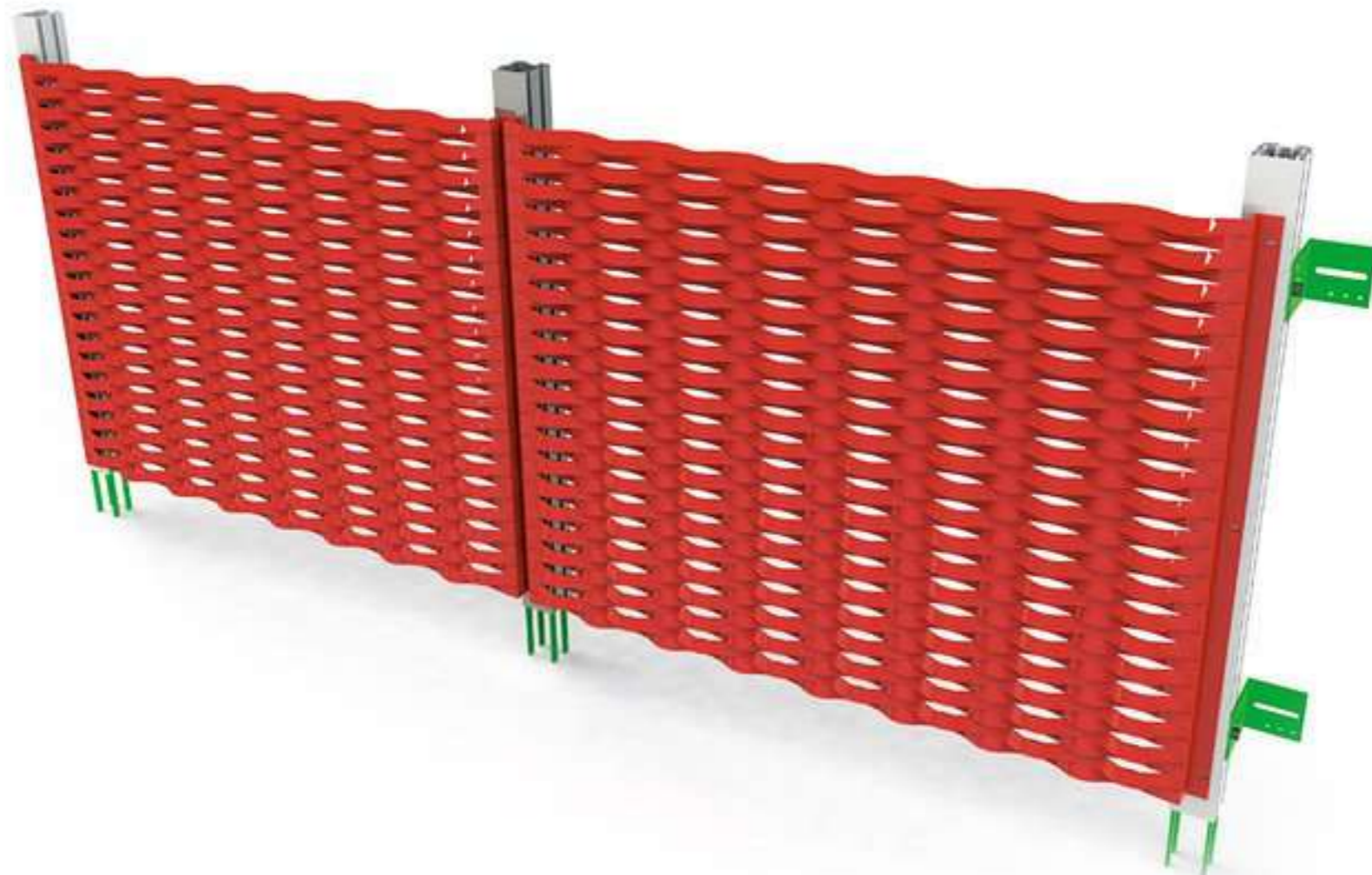
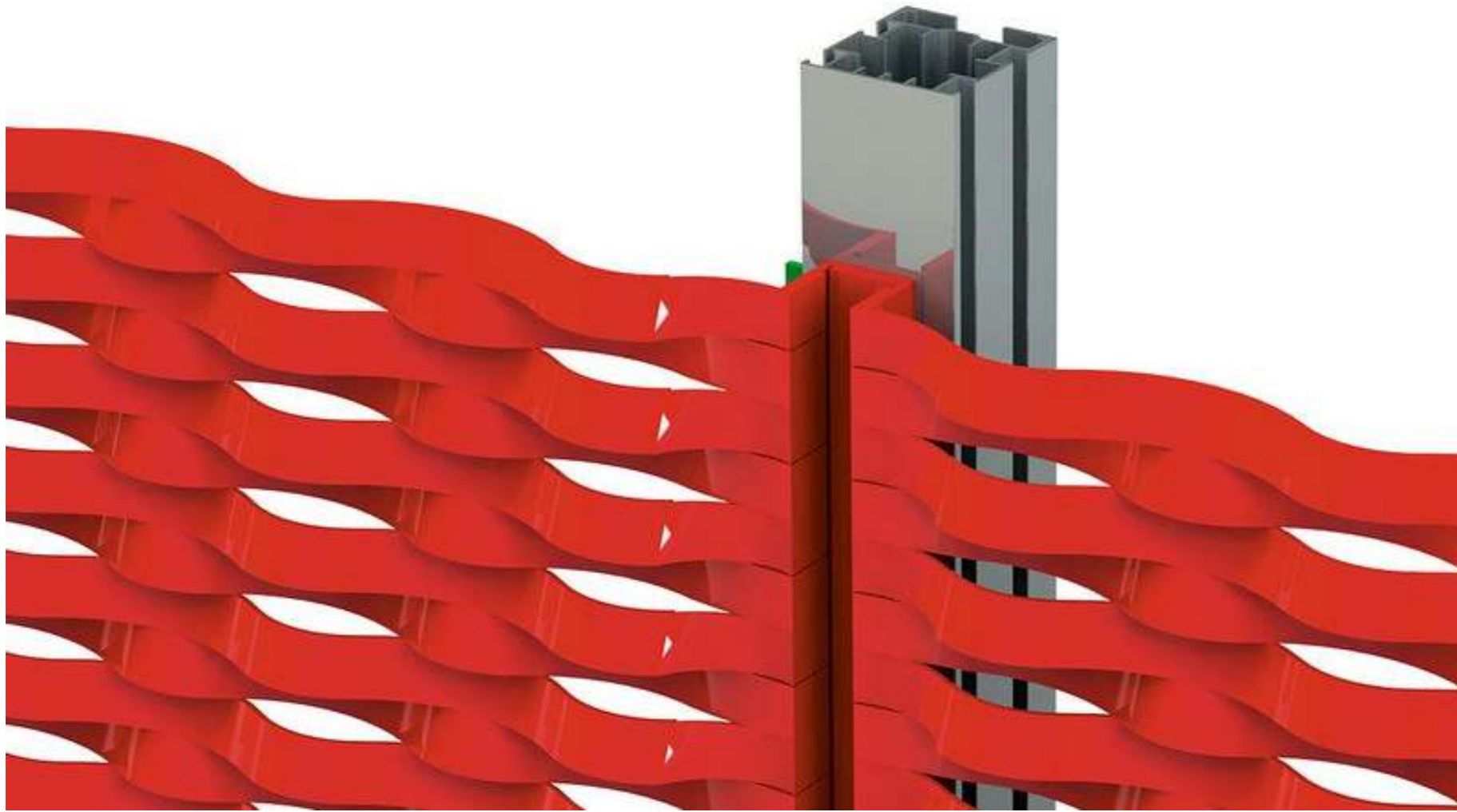
**ASM**  
**ASIAN**  
**STRECK**  
**METALS**

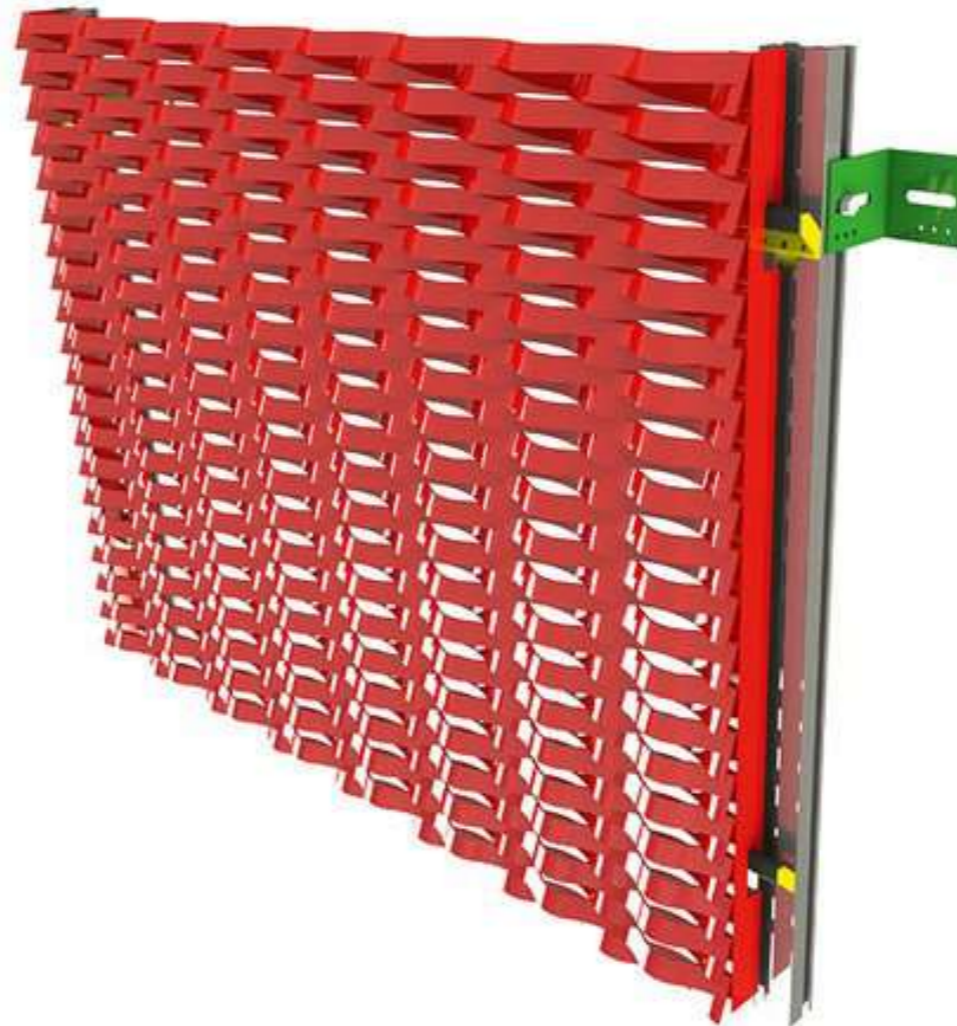
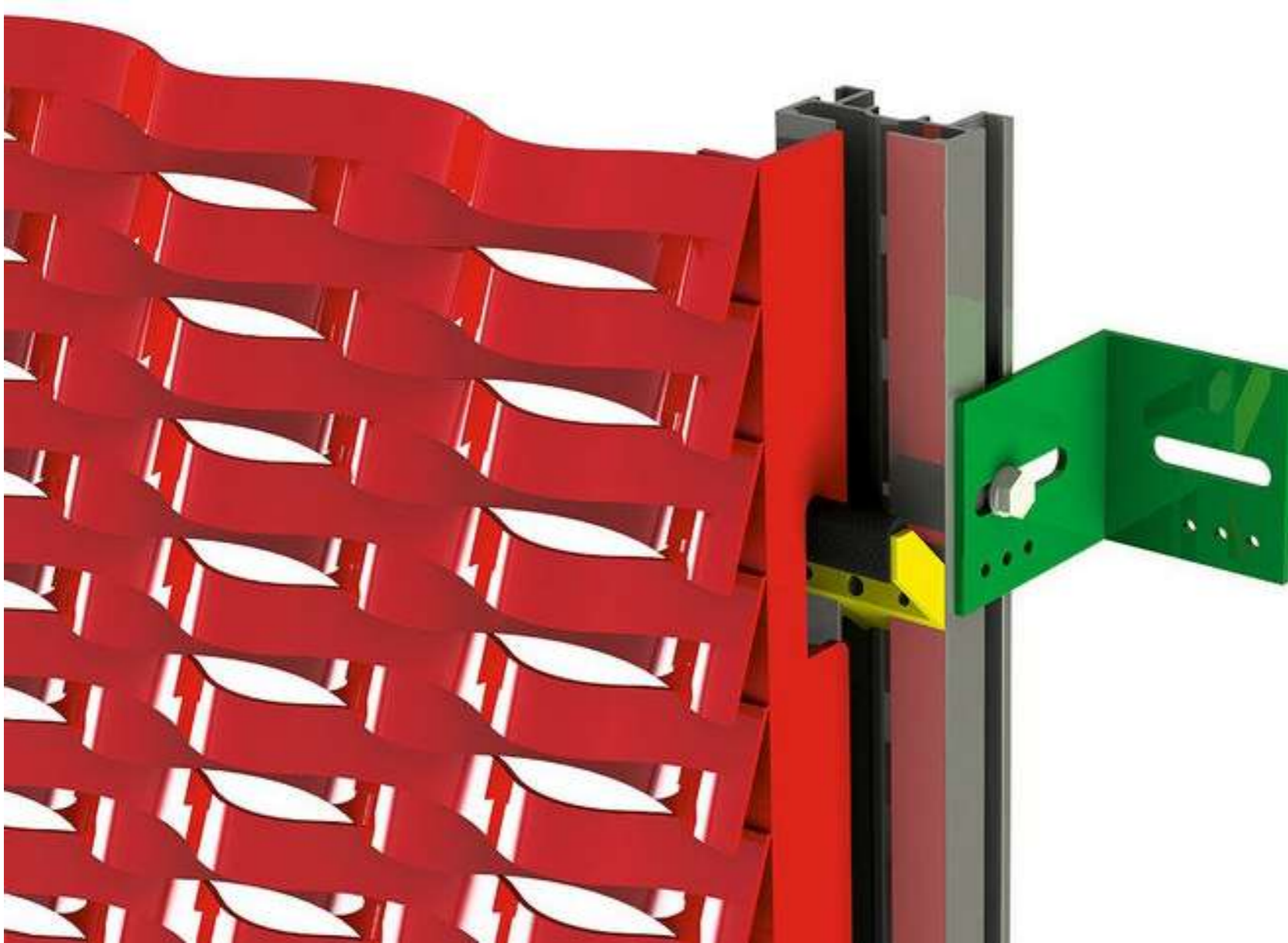
ISO 9001:2015  
COMPANY

Quality & Customer Satisfaction

**STRETCHMET**  
EXPANDED STRETCH METAL  
SUNSCREEN FACADE & ARCHITECTURAL MESH







Since 1962



**ASIAN  
STRECK  
METALS**

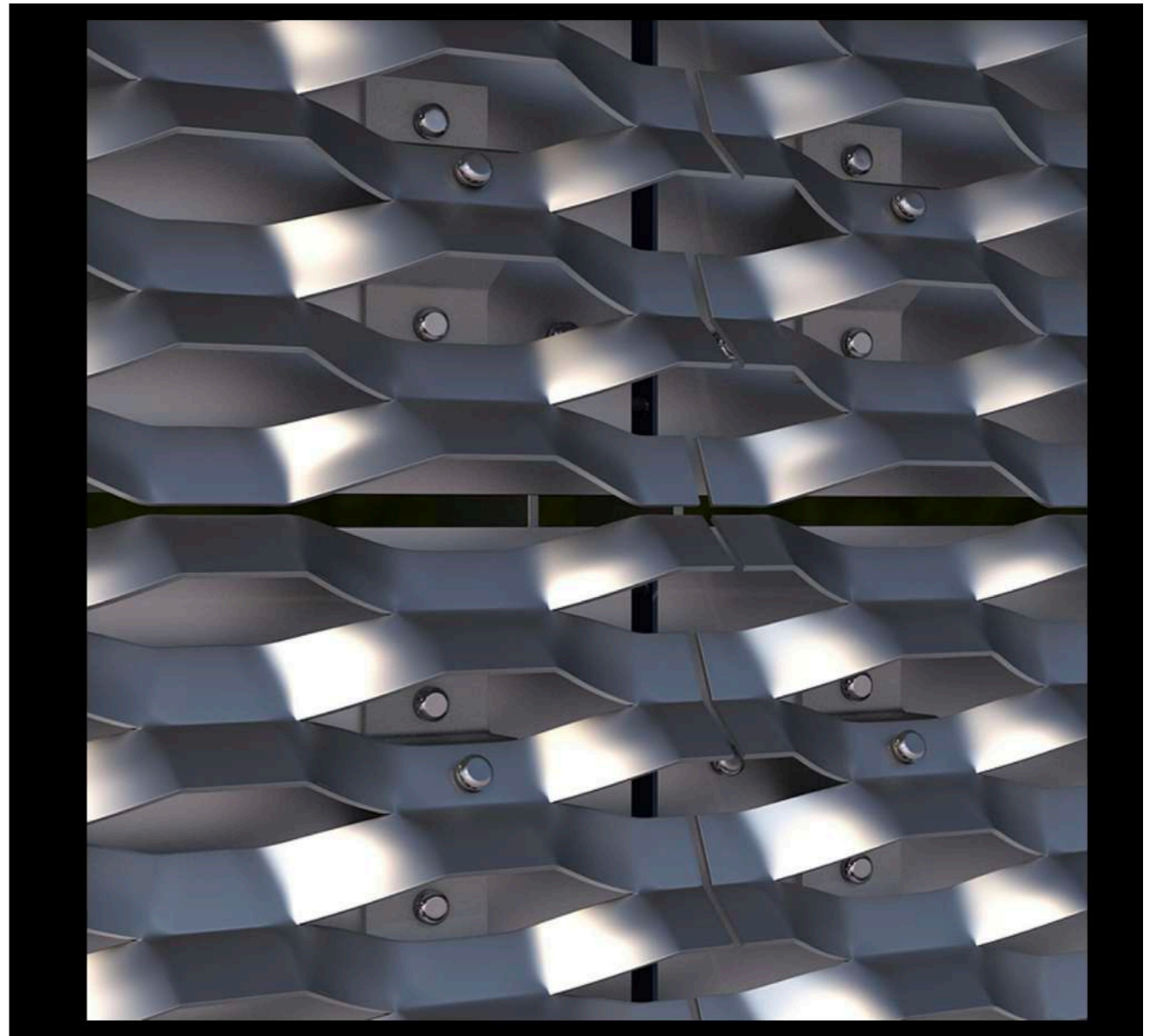
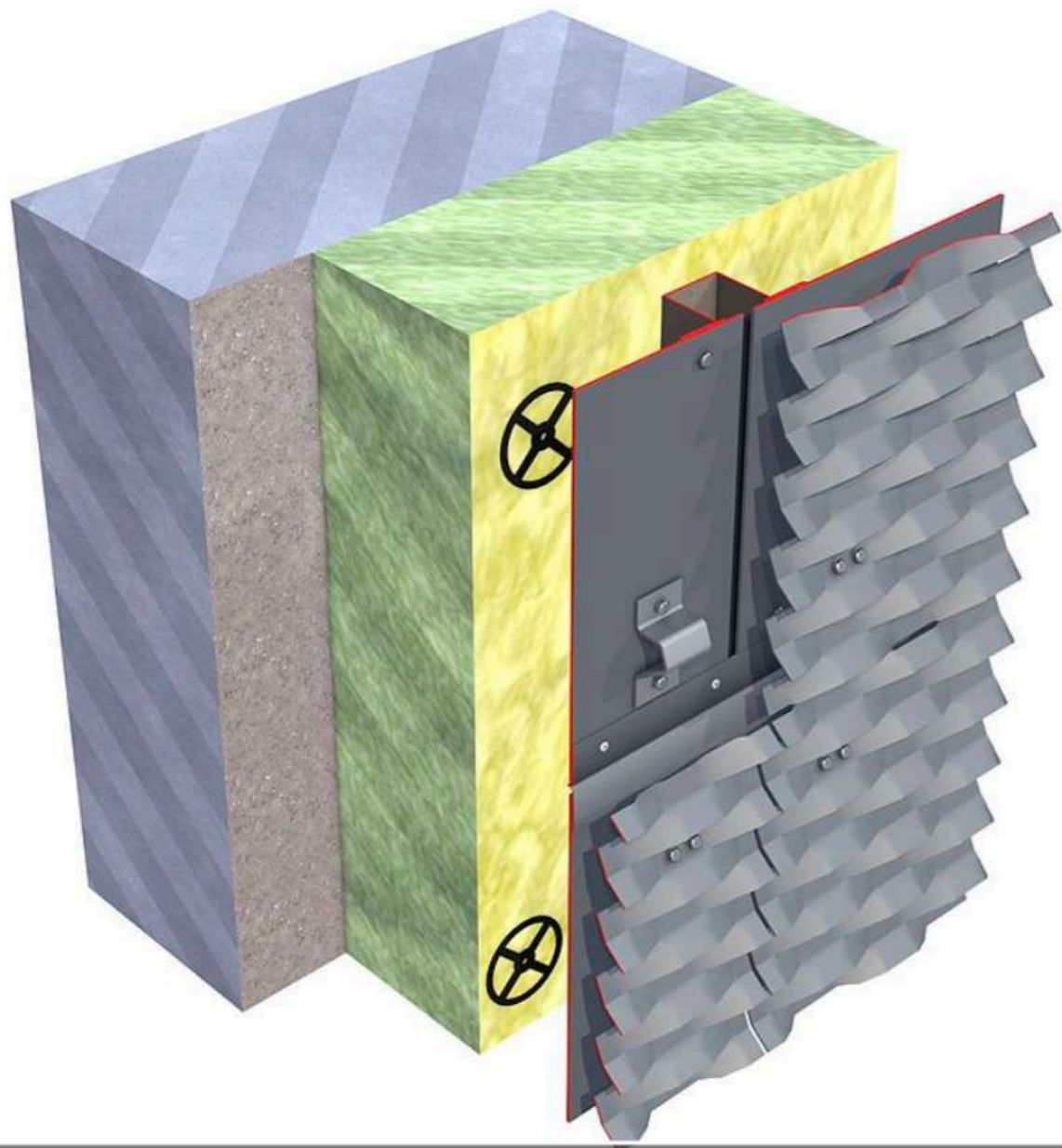


Quality & Customer Satisfaction

**STRETCHMET**

EXPANDED STRETCH METAL  
SUNSCREEN FACADE & ARCHITECTURAL MESH

# FIXING METHODOLOGY



# FIXING METHODOLOGY

Since 1962



**ASIAN  
STRECK  
METALS**

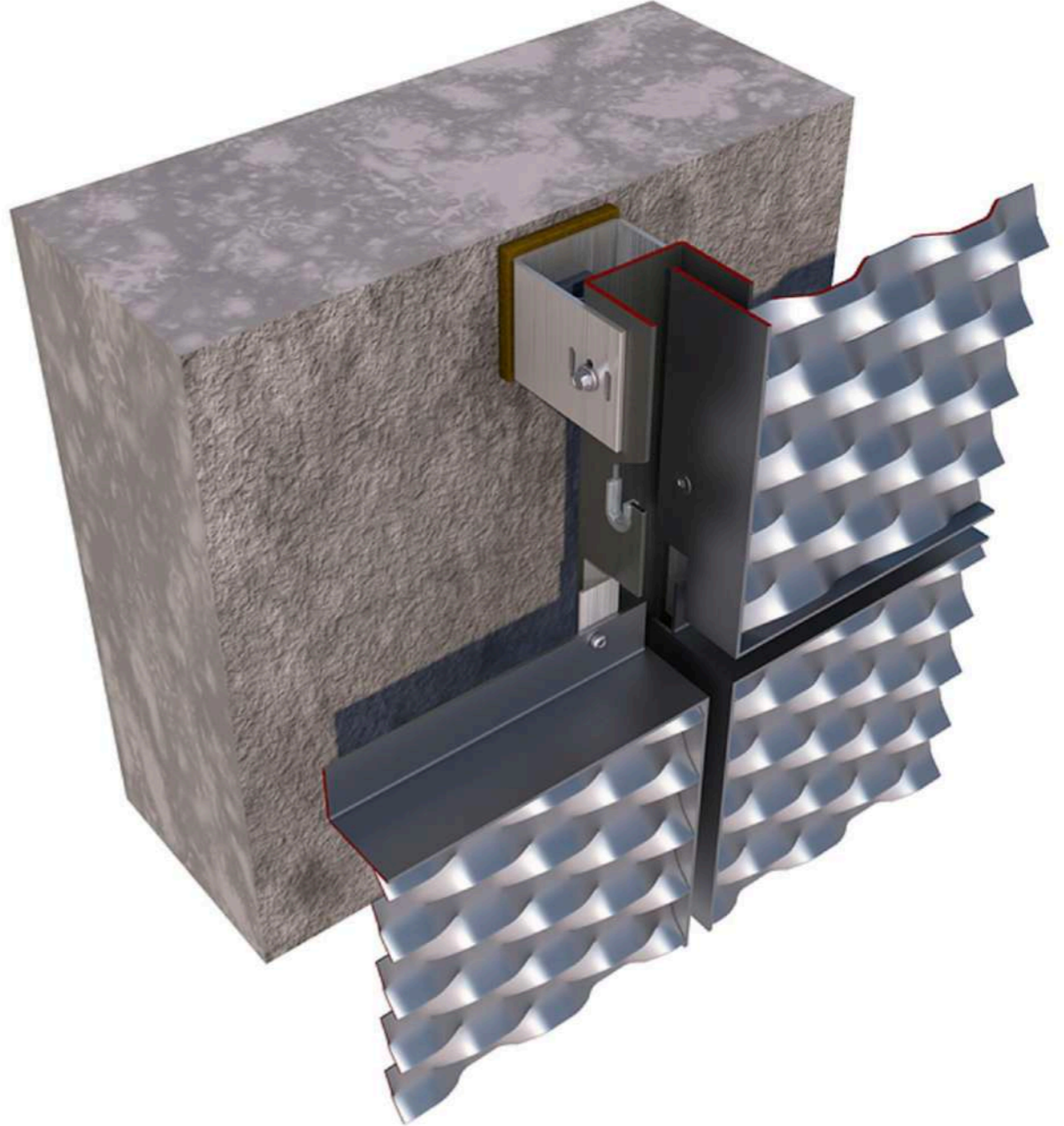
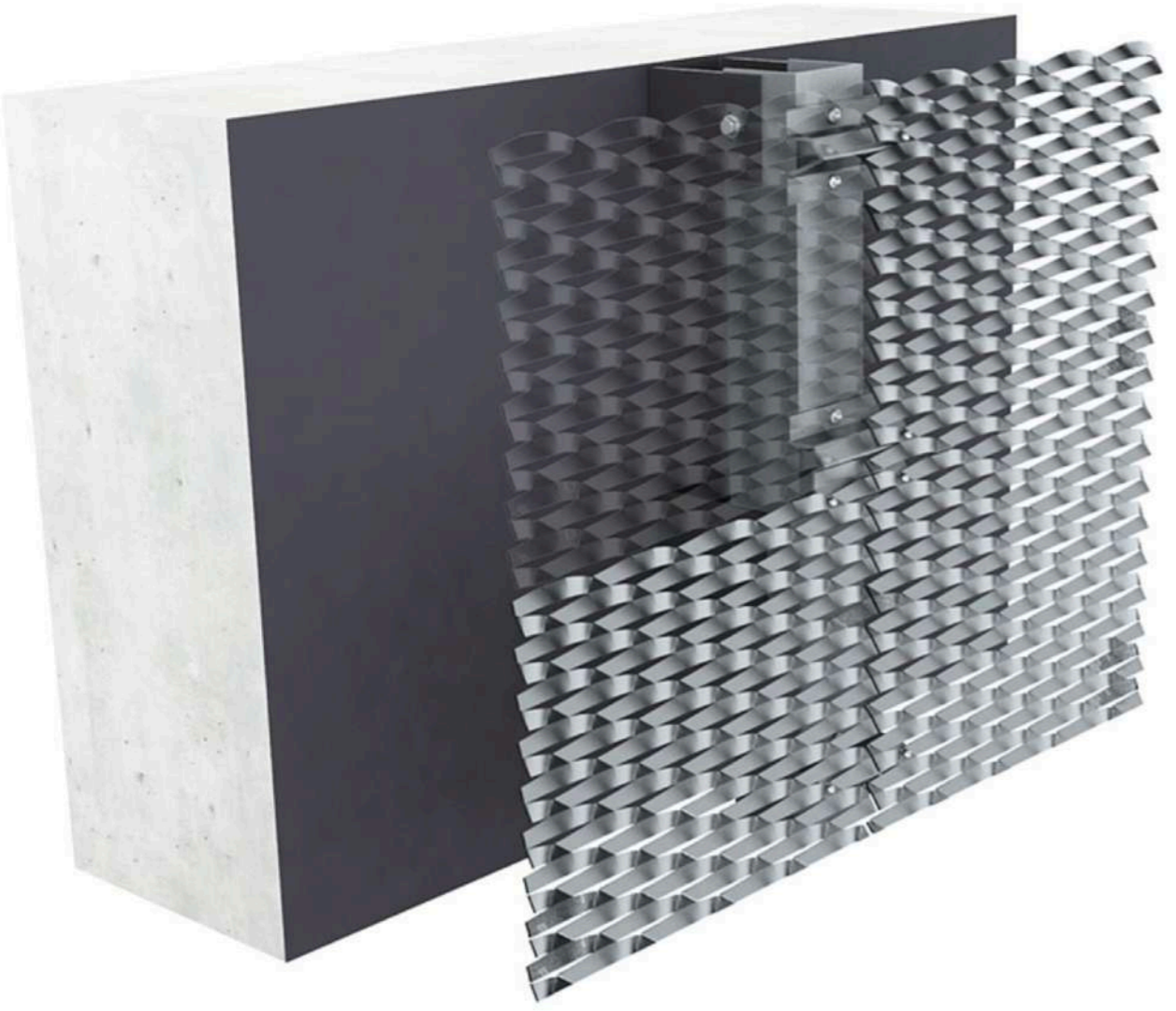


ISO 9001:2015  
COMPANY

Quality & Customer Satisfaction

**STRETCHMET**

EXPANDED STRETCH METAL  
SUNSCREEN FACADE & ARCHITECTURAL MESH



# FIXING METHODOLOGY

Since 1962



**ASIAN  
STRECK  
METALS**



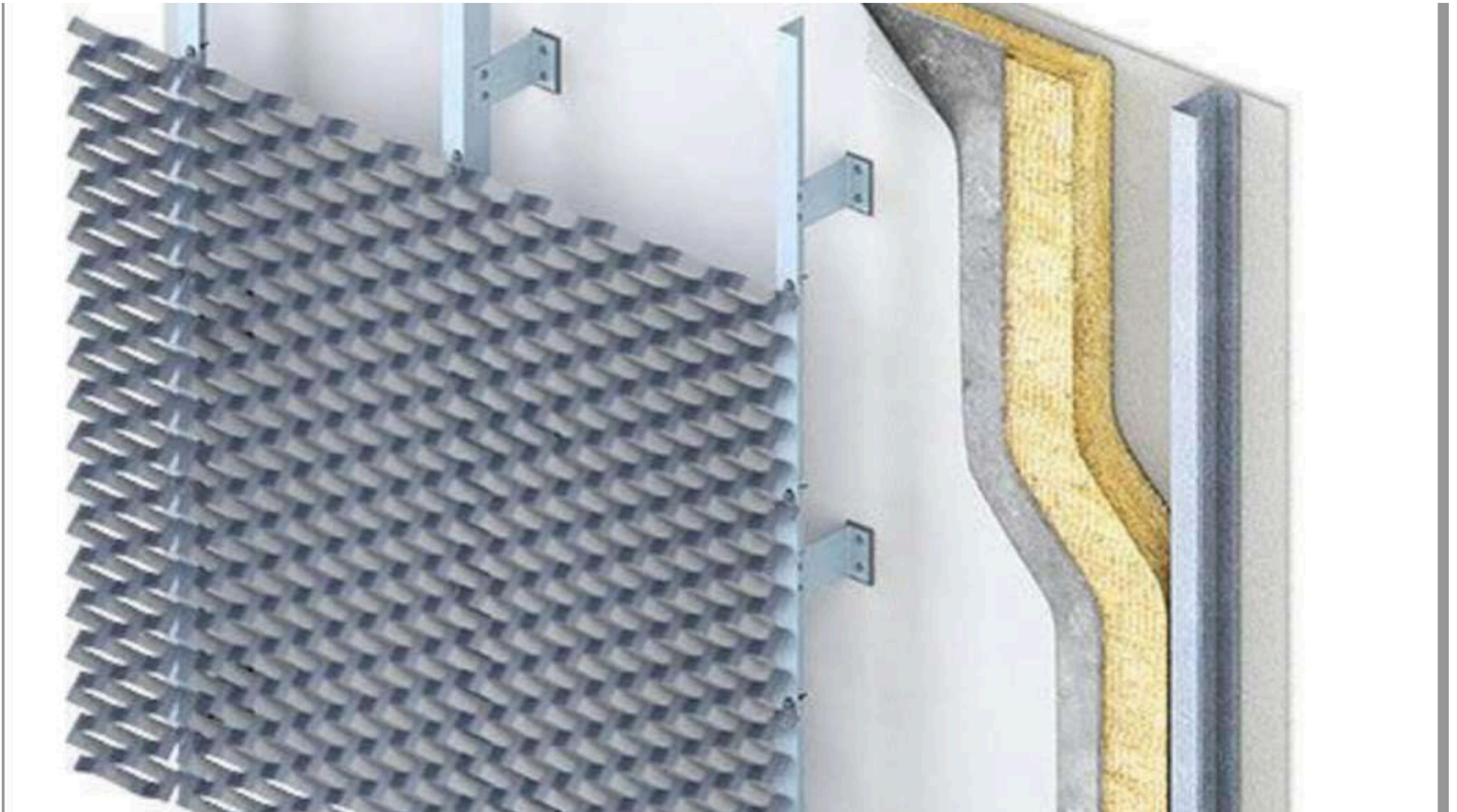
ISO 9001:2015  
COMPANY

Quality & Customer Satisfaction



**STRETCHMET**

EXPANDED STRETCH METAL  
SUNSCREEN FACADE & ARCHITECTURAL MESH



# FIXING METHODOLOGY

Since 1962



**ASIAN  
STRECK  
METALS**



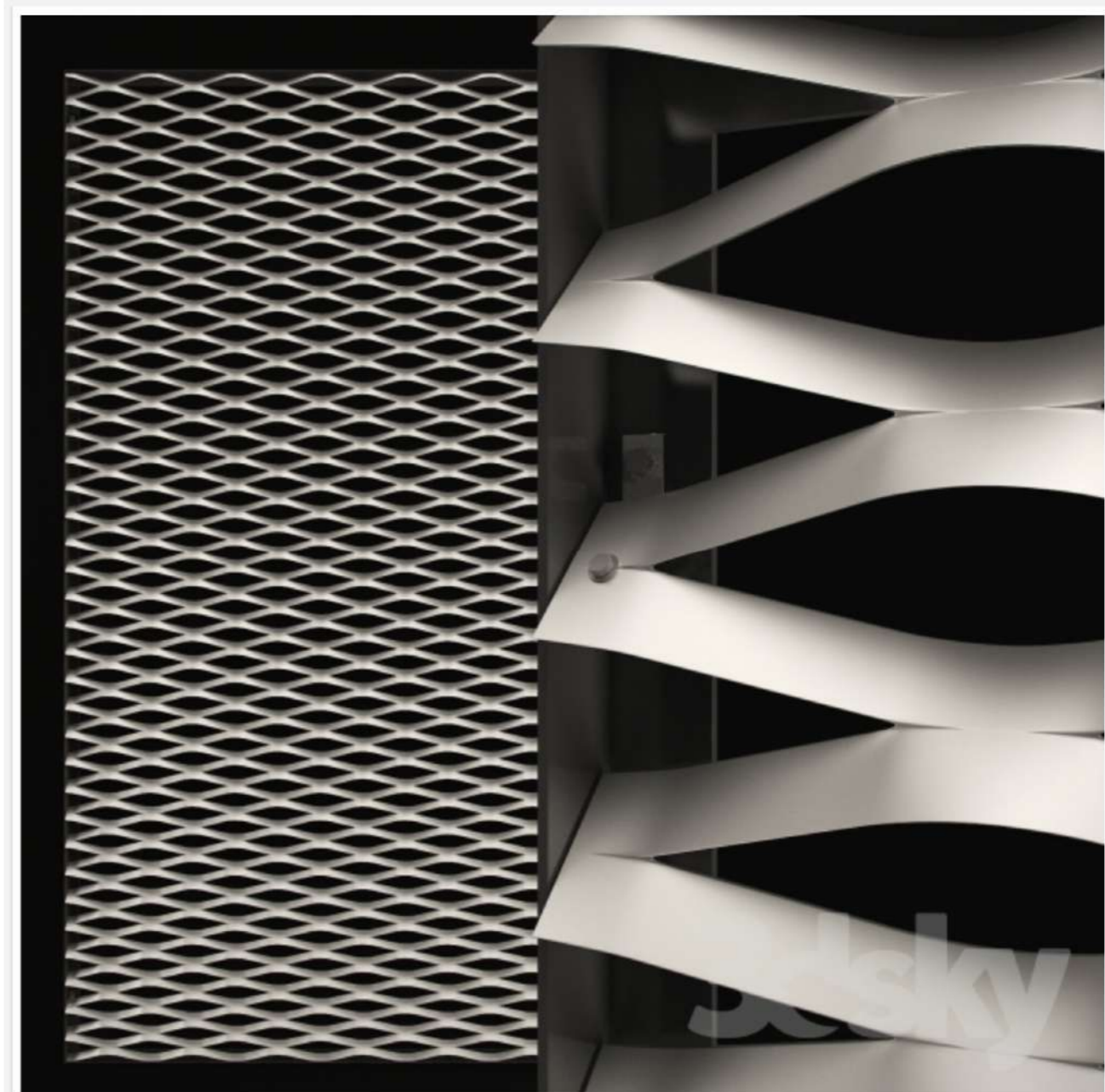
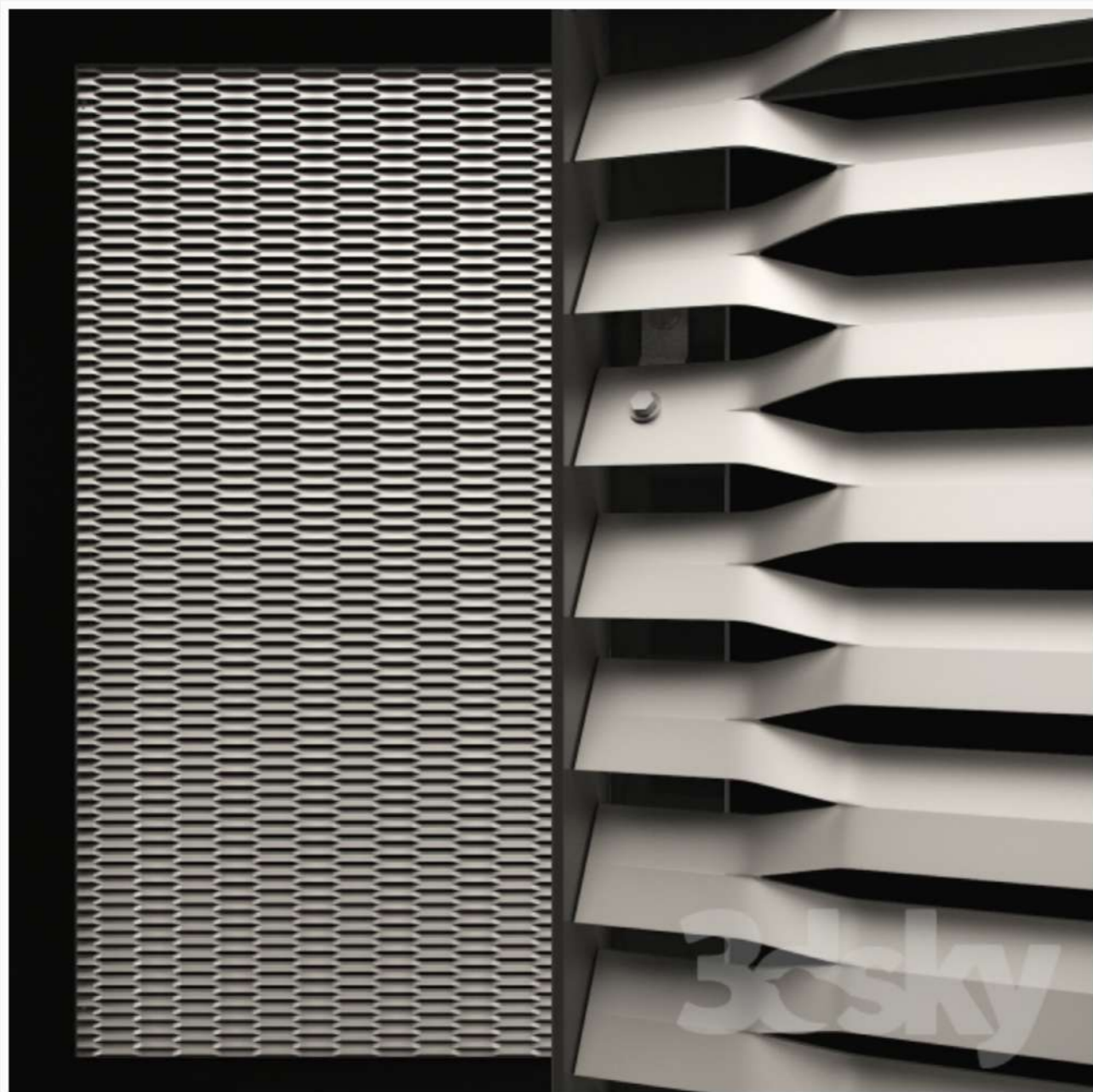
ISO 9001:2015  
COMPANY

Quality & Customer Satisfaction



**STRETCHMET**

EXPANDED STRETCH METAL  
SUNSCREEN FACADE & ARCHITECTURAL MESH



# FIXING METHODOLOGY

Since 1962



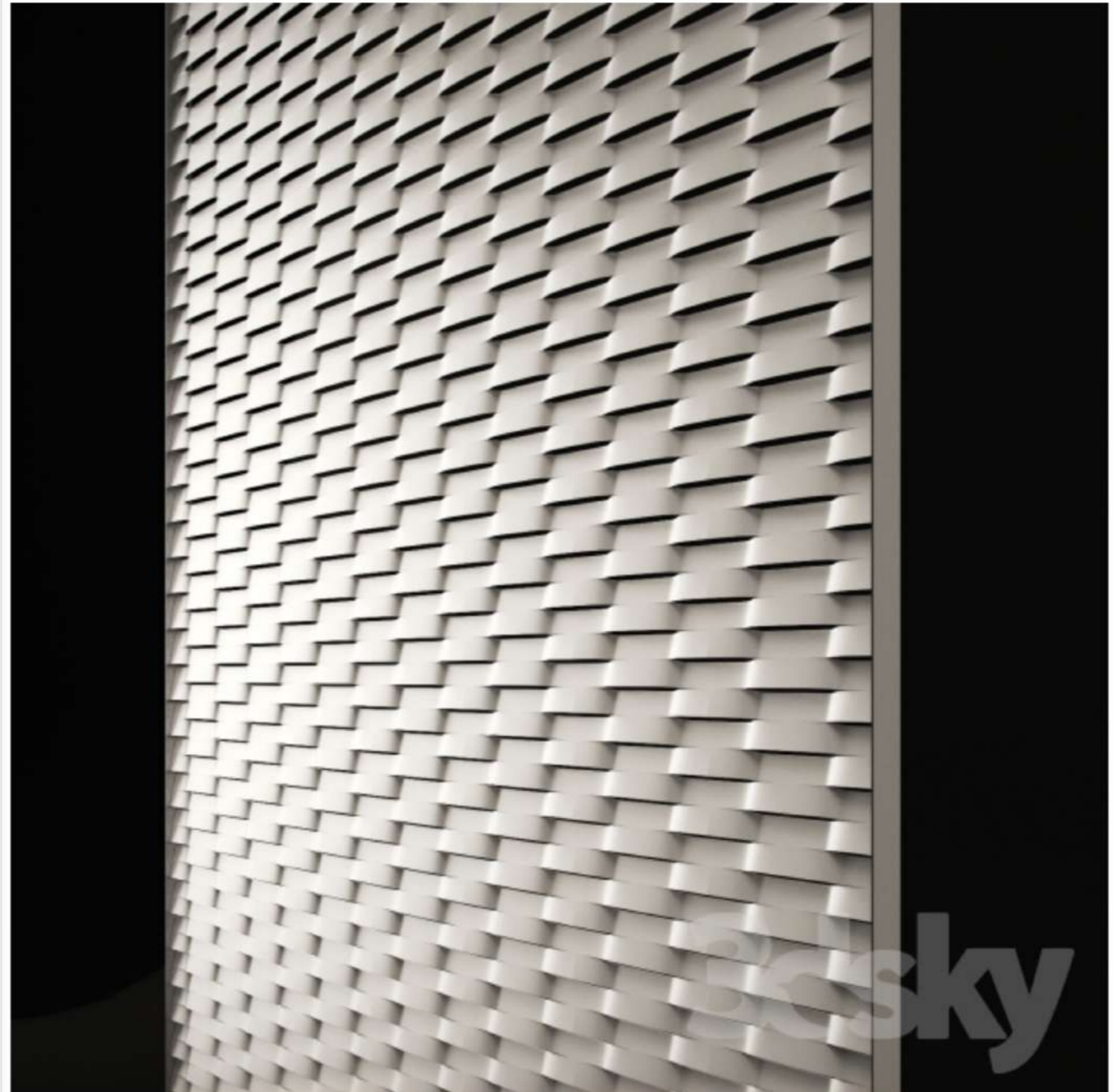
**ASIAN  
STRECK  
METALS**



Quality & Customer Satisfaction

**STRETCHMET**

EXPANDED STRETCH METAL  
SUNSCREEN FACADE & ARCHITECTURAL MESH



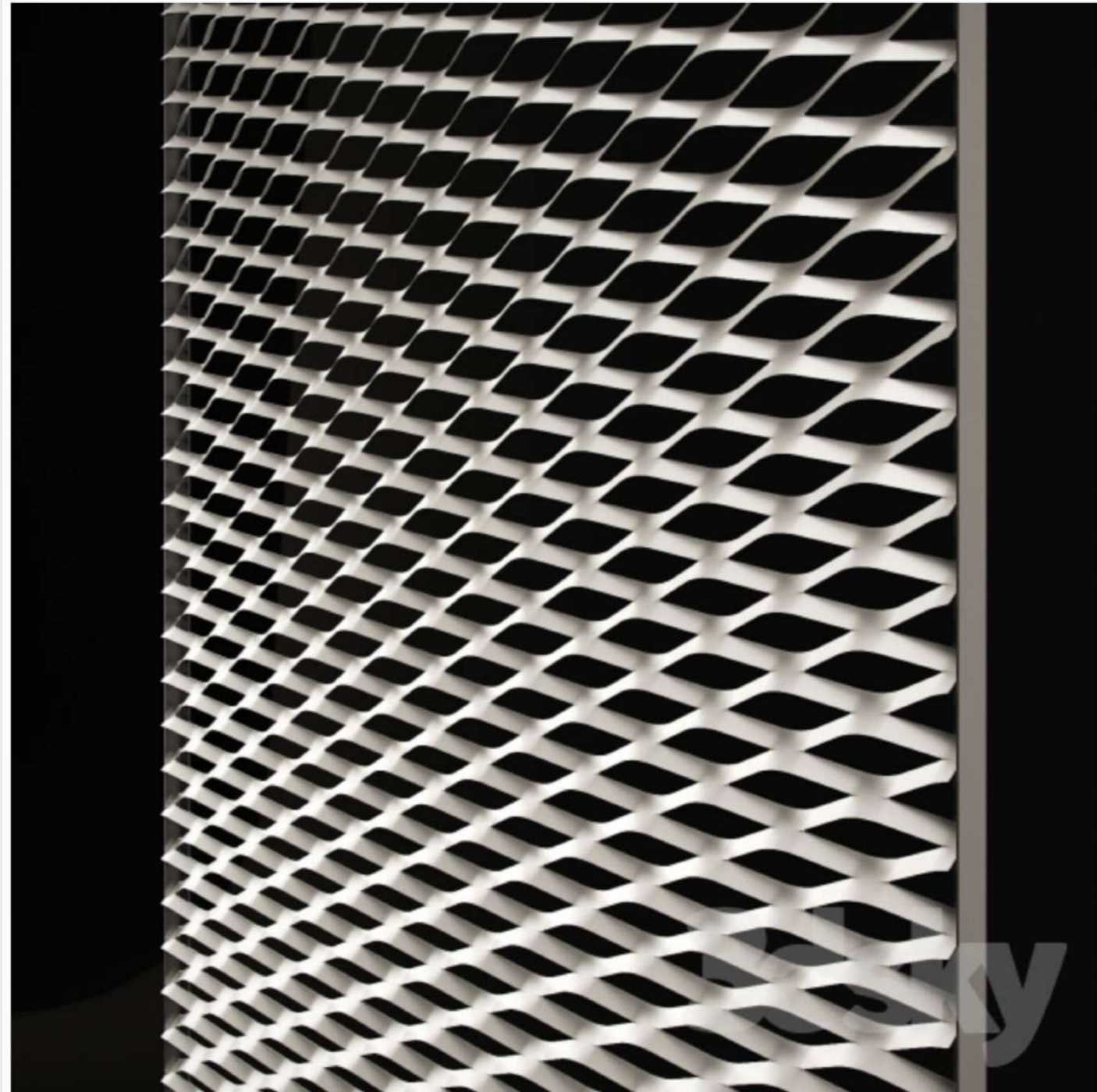
# FIXING METHODOLOGY



Quality & Customer Satisfaction



EXPANDED STRETCH METAL  
SUNSCREEN FACADE & ARCHITECTURAL MESH



# FIXING METHODOLOGY



Since 1962



**ASIAN  
STRECK  
METALS**



ISO 9001:2015  
COMPANY

Quality & Customer Satisfaction

**STRETCHMET**

EXPANDED STRETCH METAL  
SUNSCREEN FACADE & ARCHITECTURAL MESH

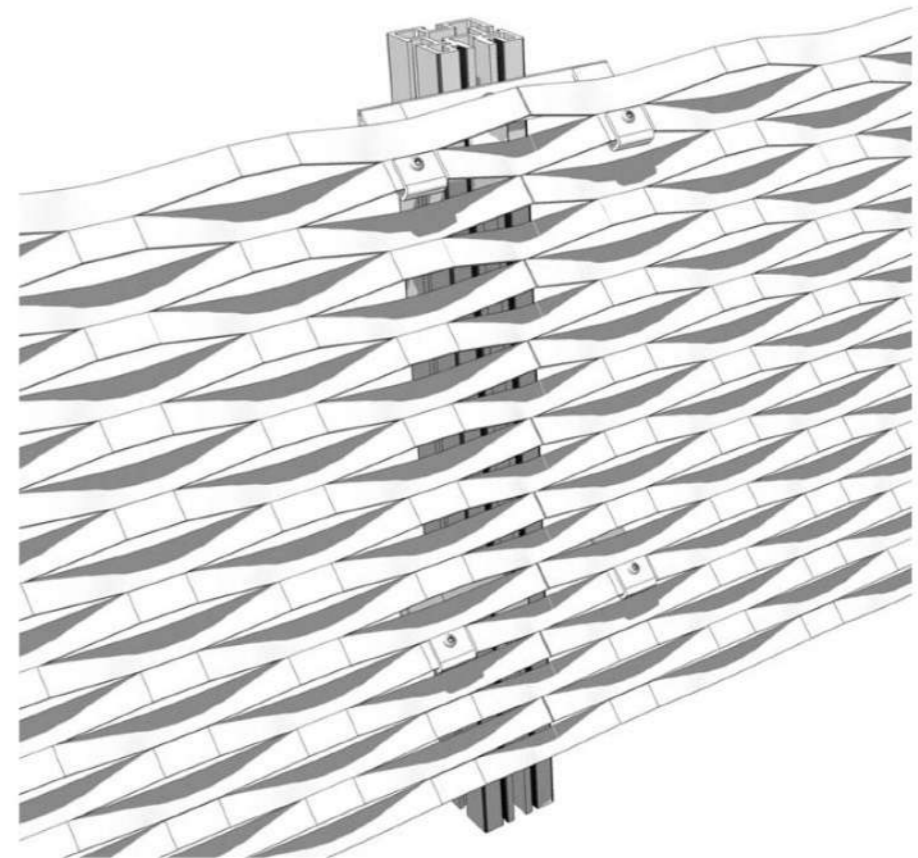
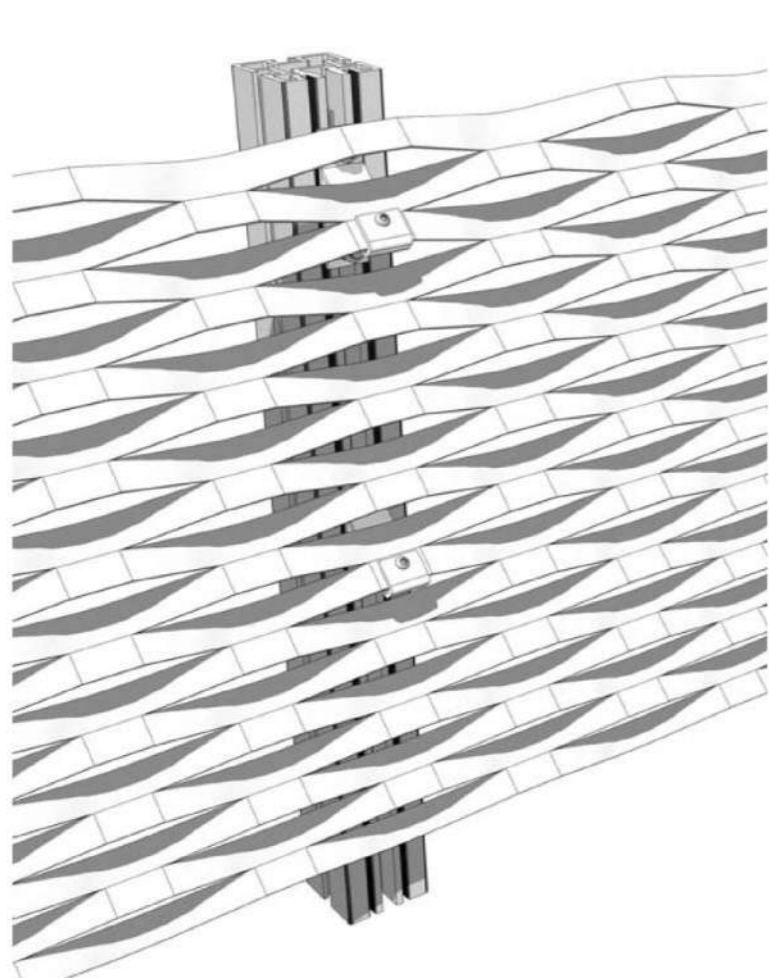
# FIXING METHODOLOGY



Quality & Customer Satisfaction



EXPANDED STRETCH METAL  
SUNSCREEN FACADE & ARCHITECTURAL MESH



# MOUNTING SYSTEM DIRECT

Since 1962



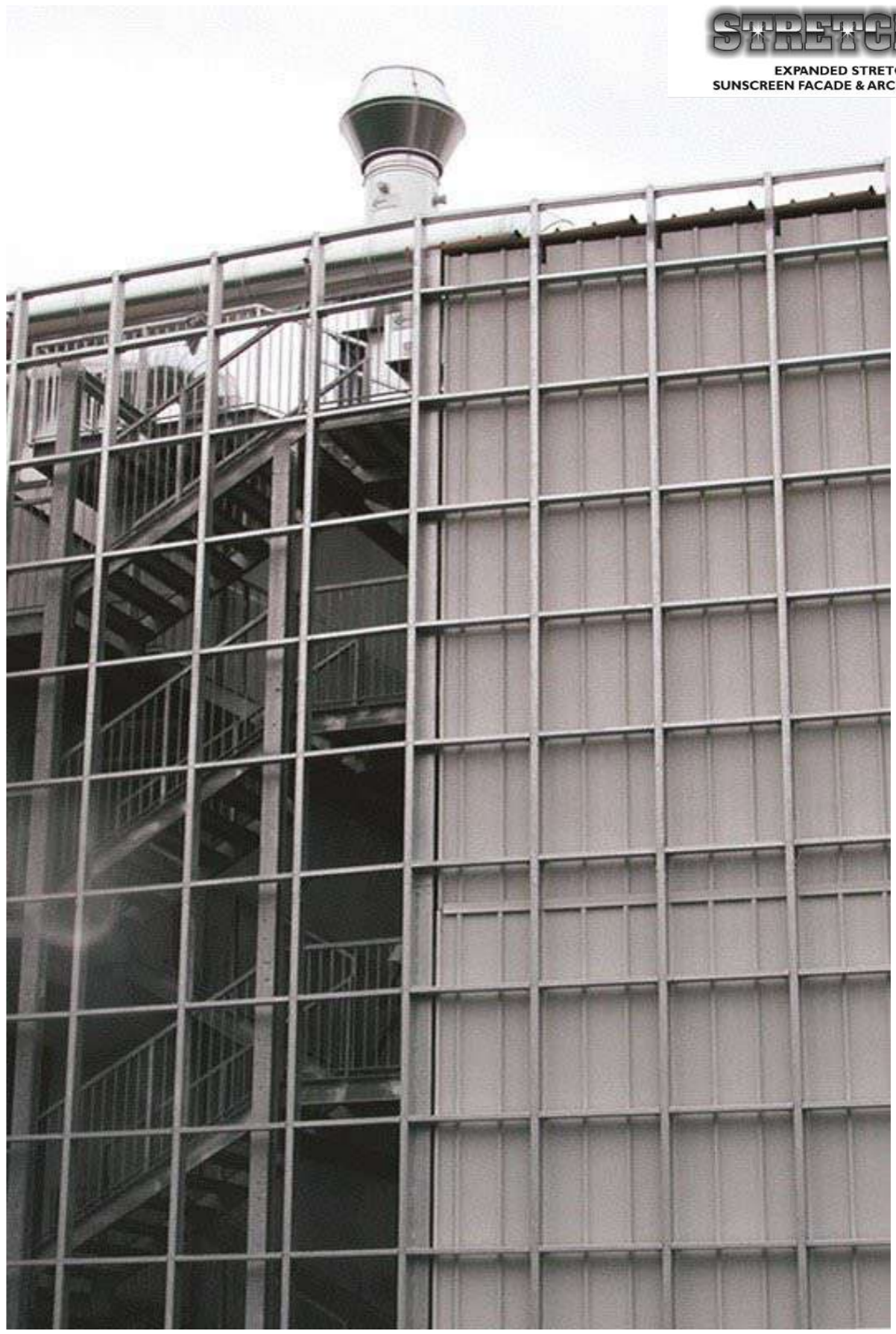
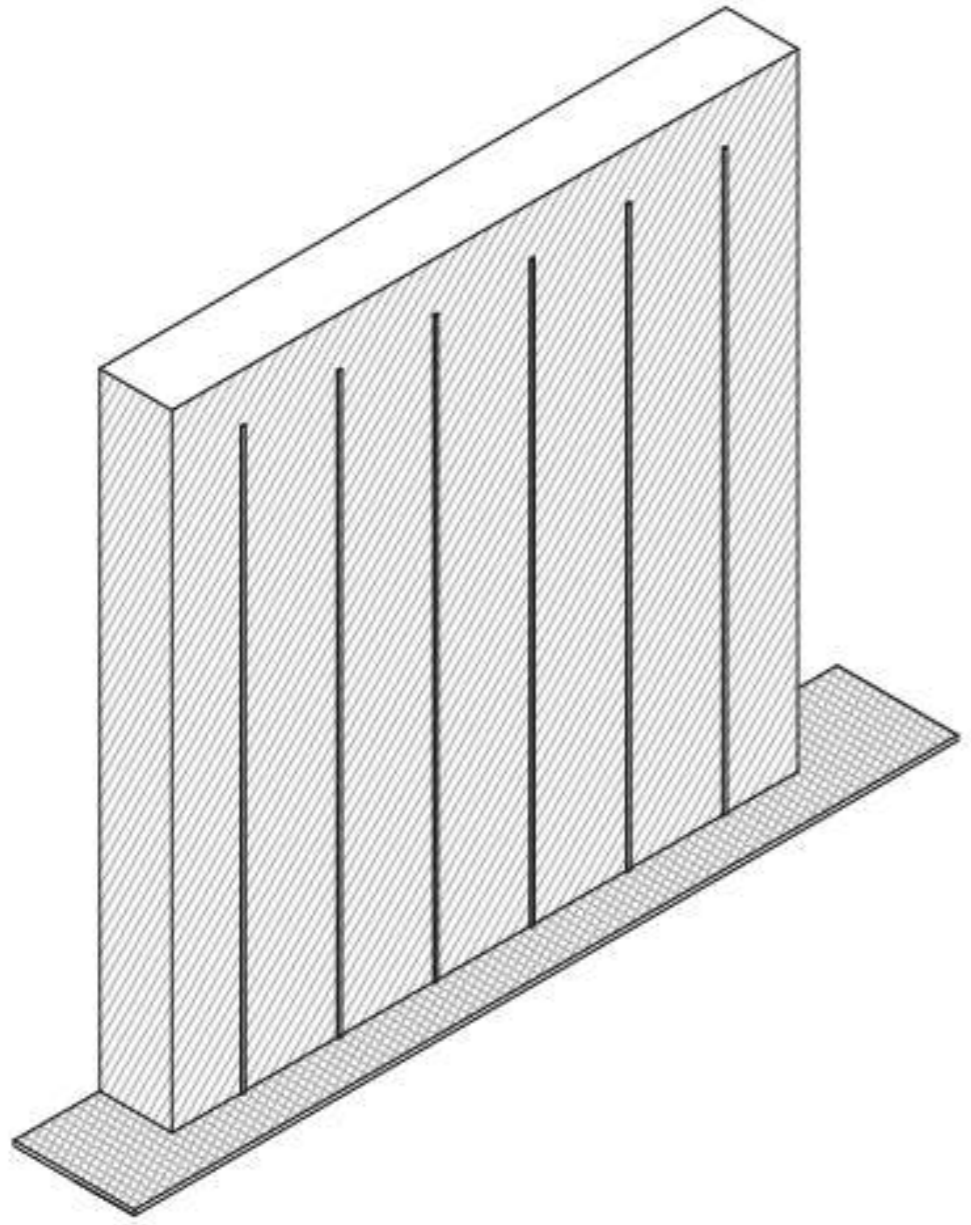
**ASIAN  
STRECK  
METALS**



ISO 9001:2015  
COMPANY

Quality & Customer Satisfaction

**STRETCHMET**  
EXPANDED STRETCH METAL  
SUNSCREEN FACADE & ARCHITECTURAL MESH

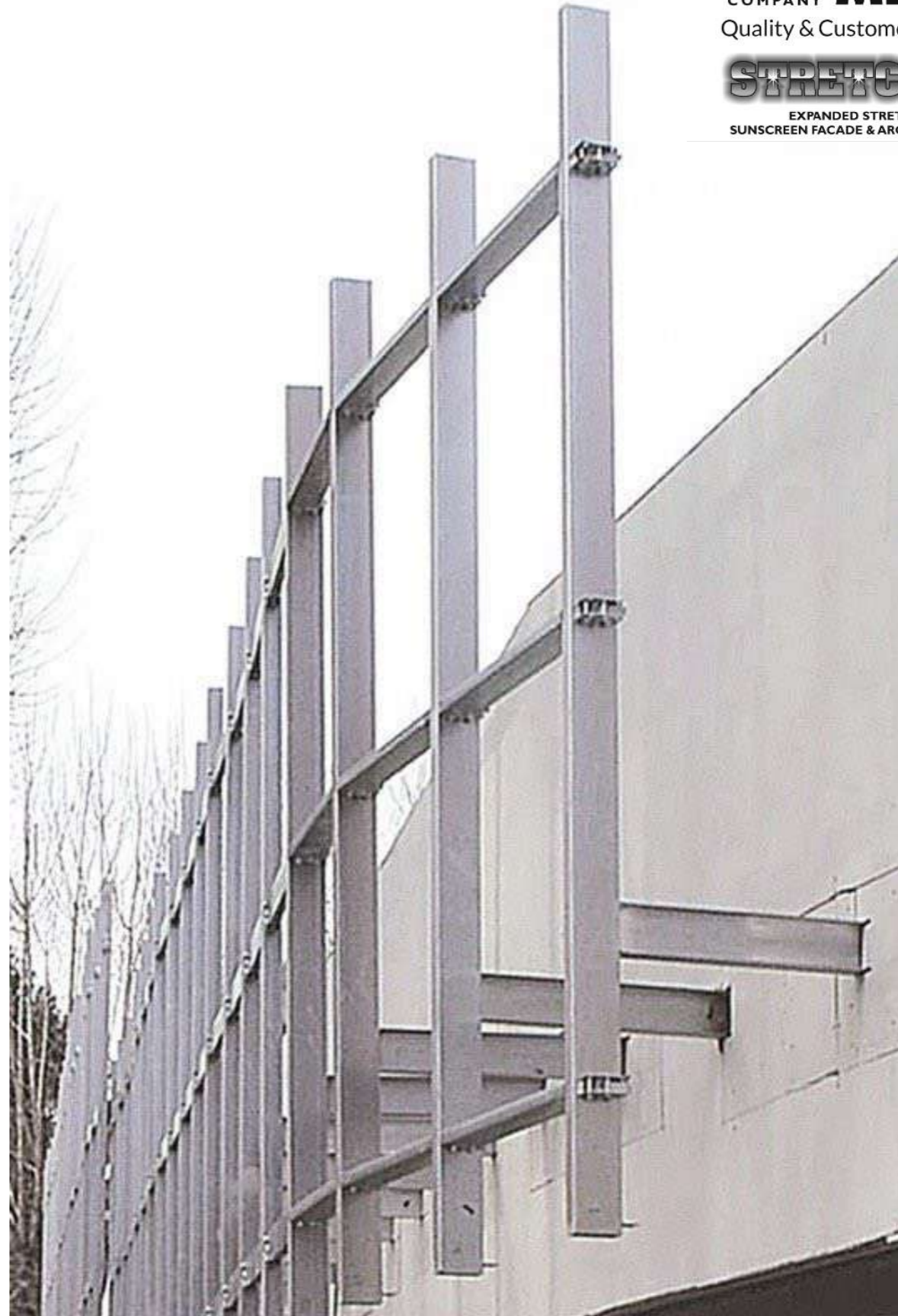
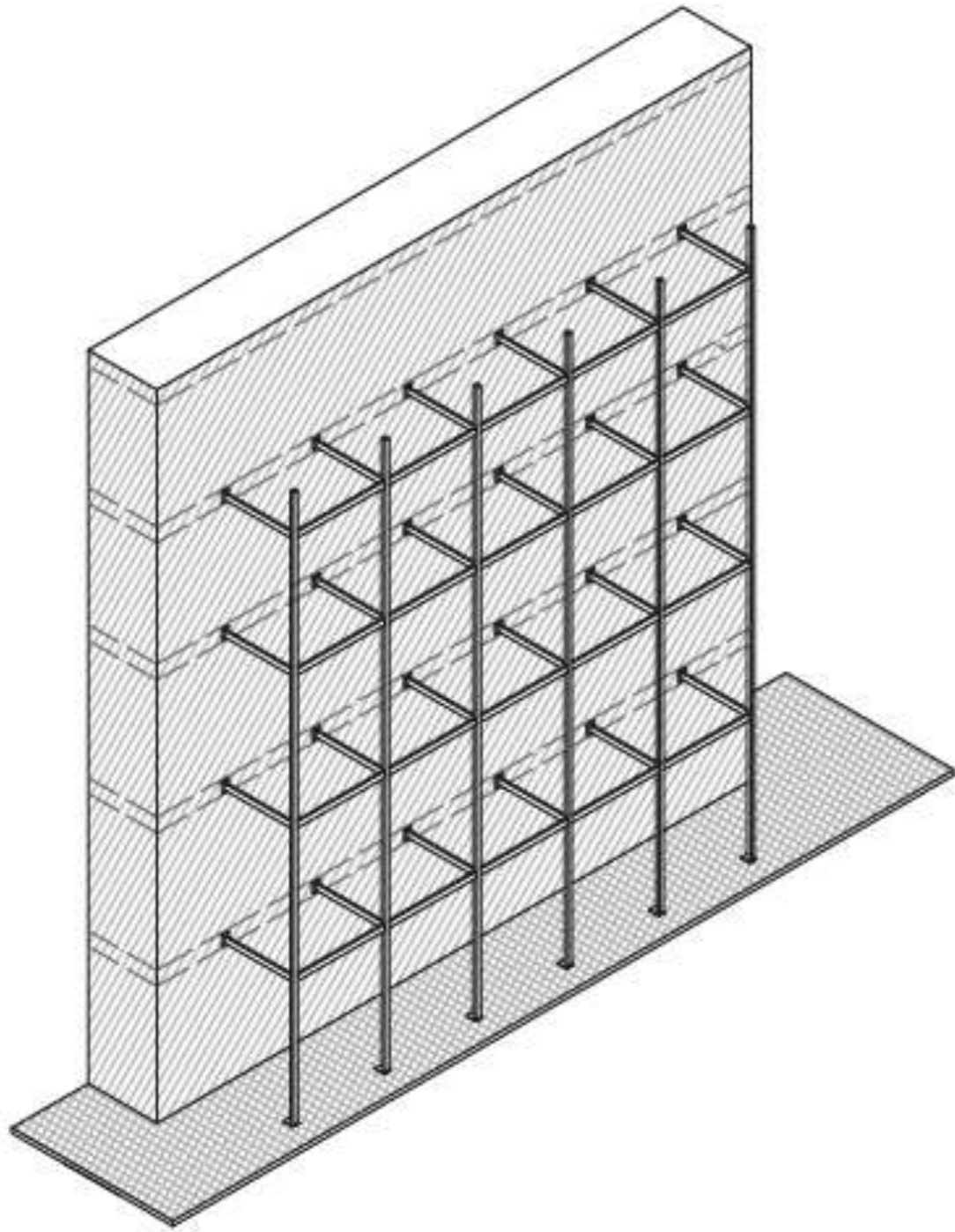


# MOUNTING SYSTEM SPACED

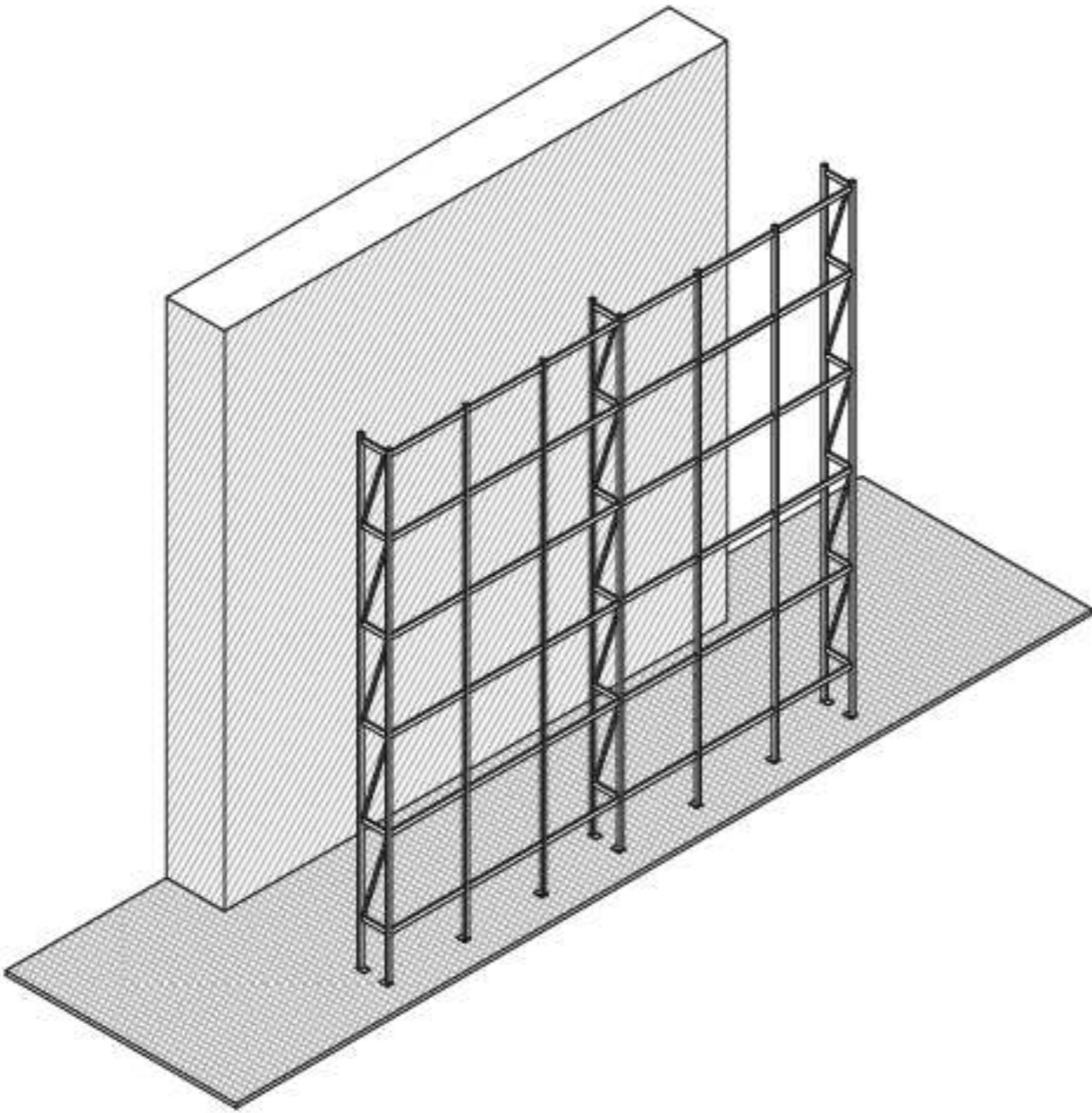


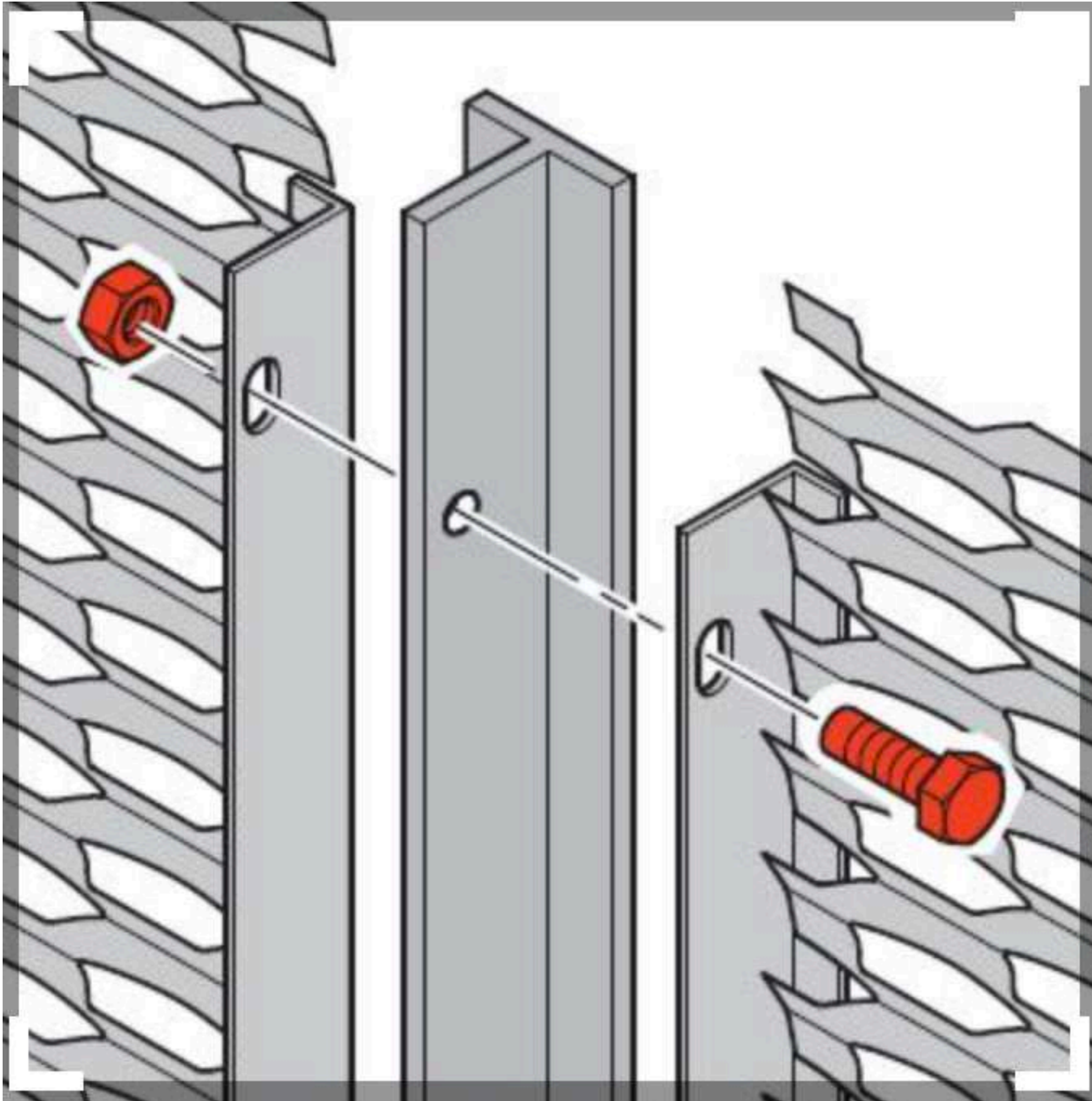
Quality & Customer Satisfaction

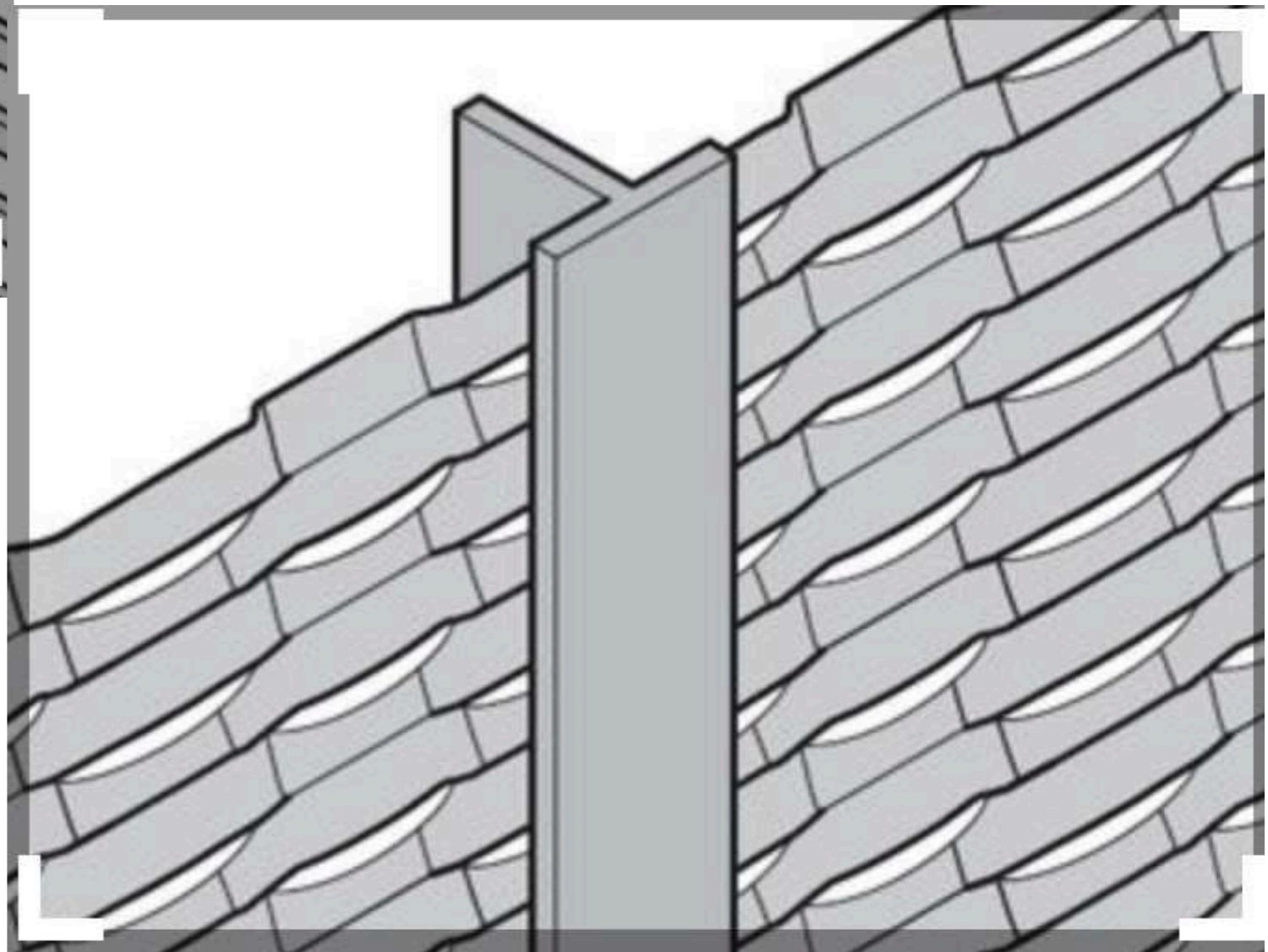
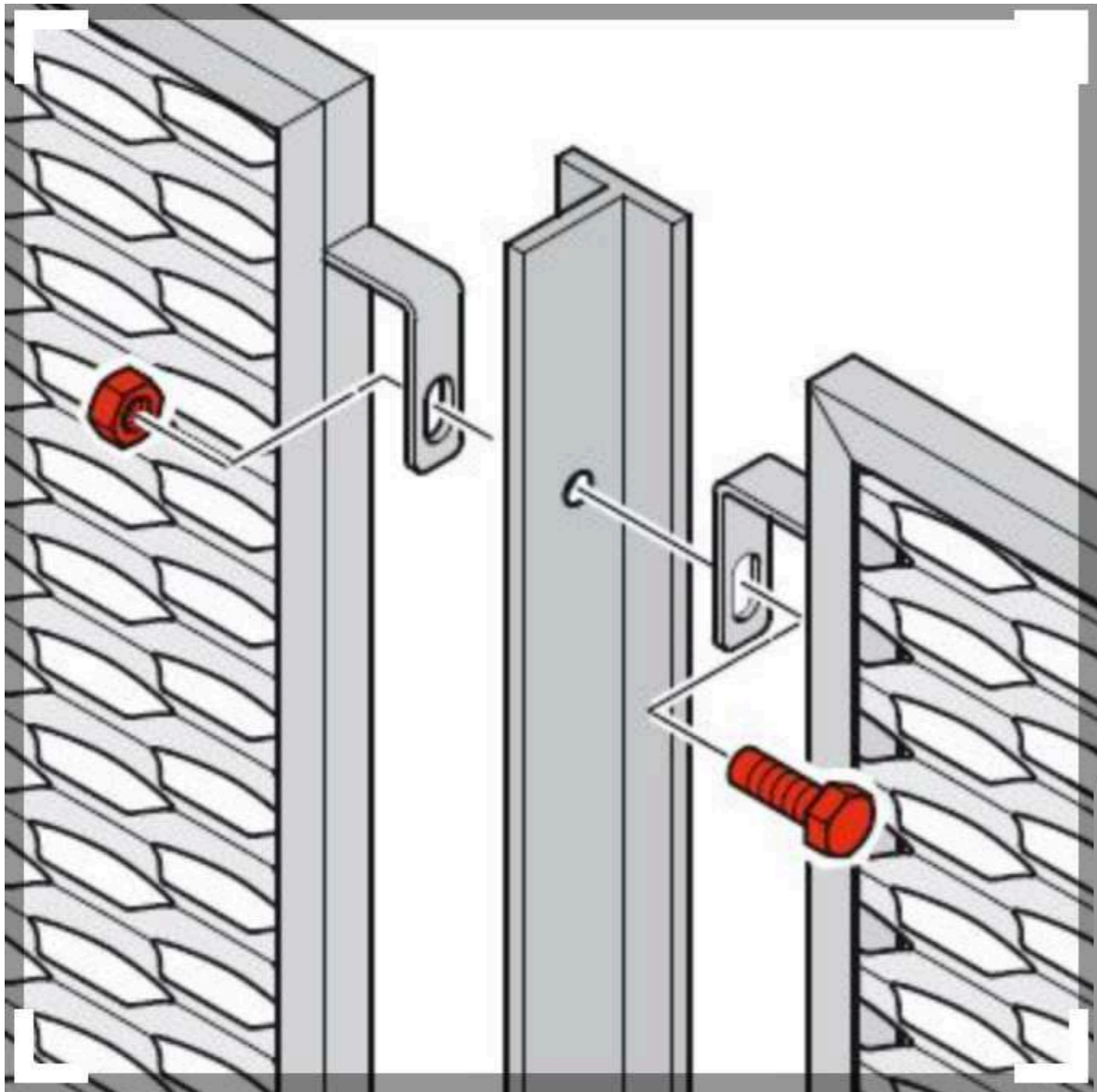
**STRETCHMET**  
EXPANDED STRETCH METAL  
SUNSCREEN FACADE & ARCHITECTURAL MESH

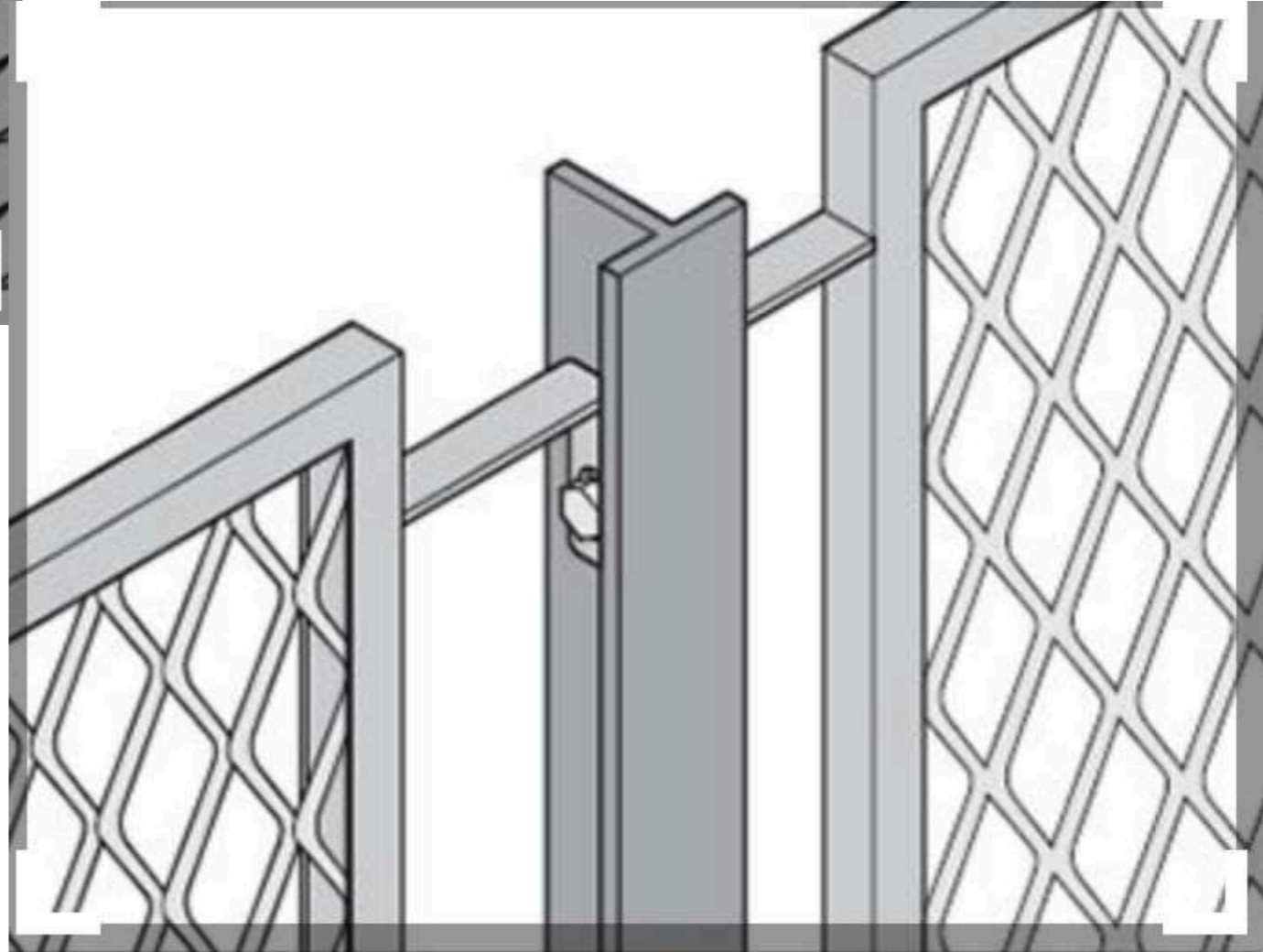
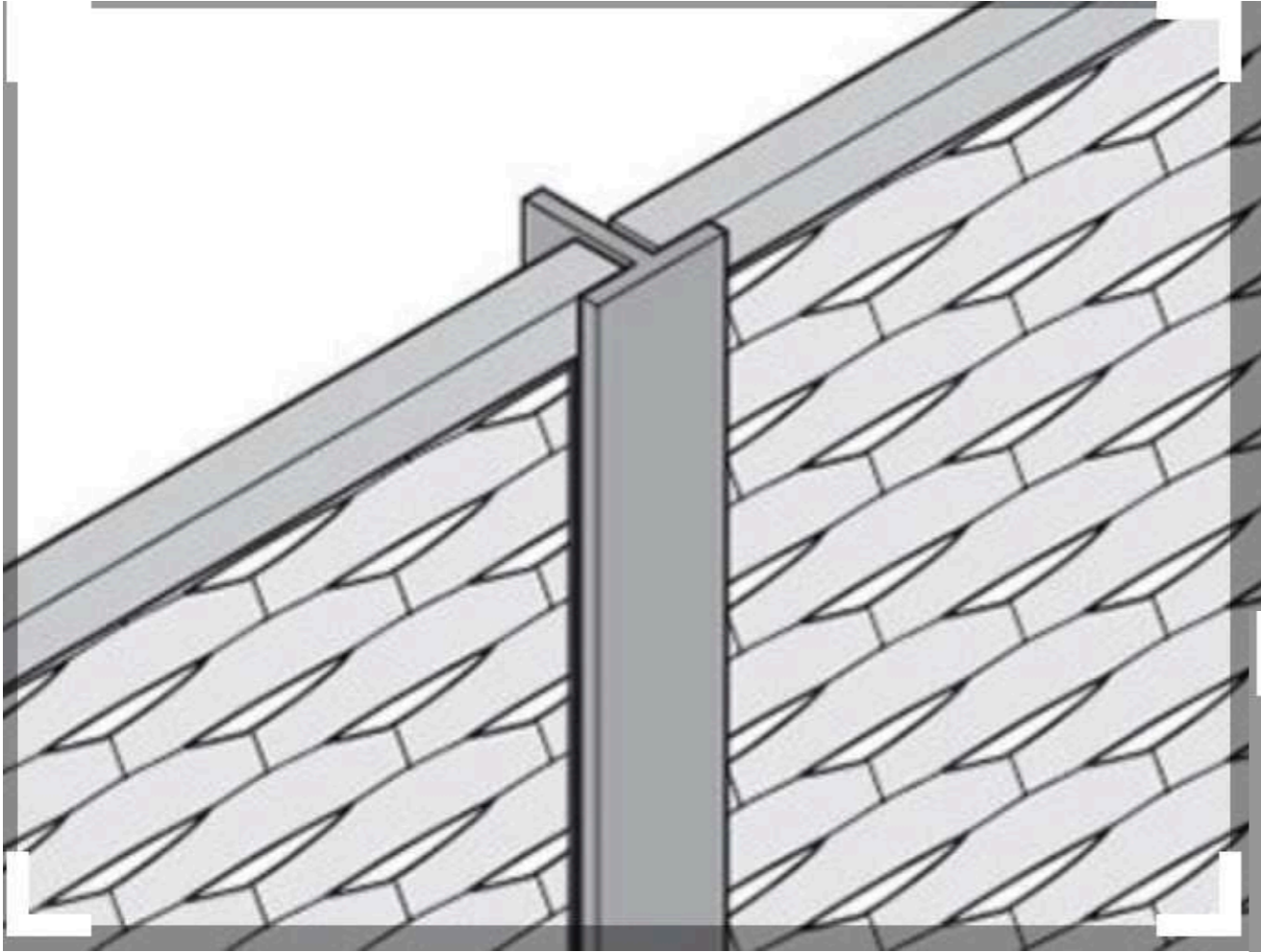


# MOUNTING SYSTEM WINGED





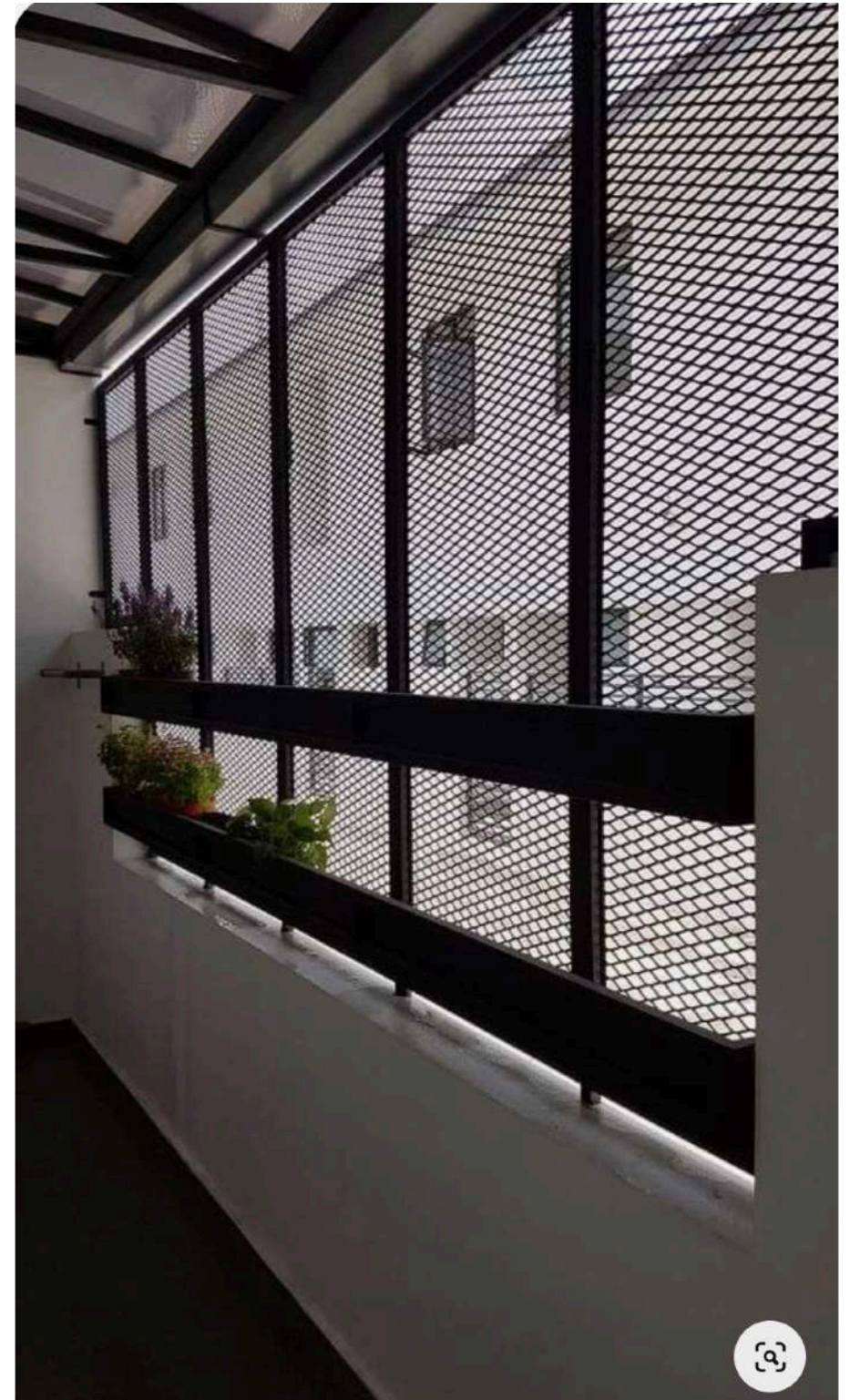




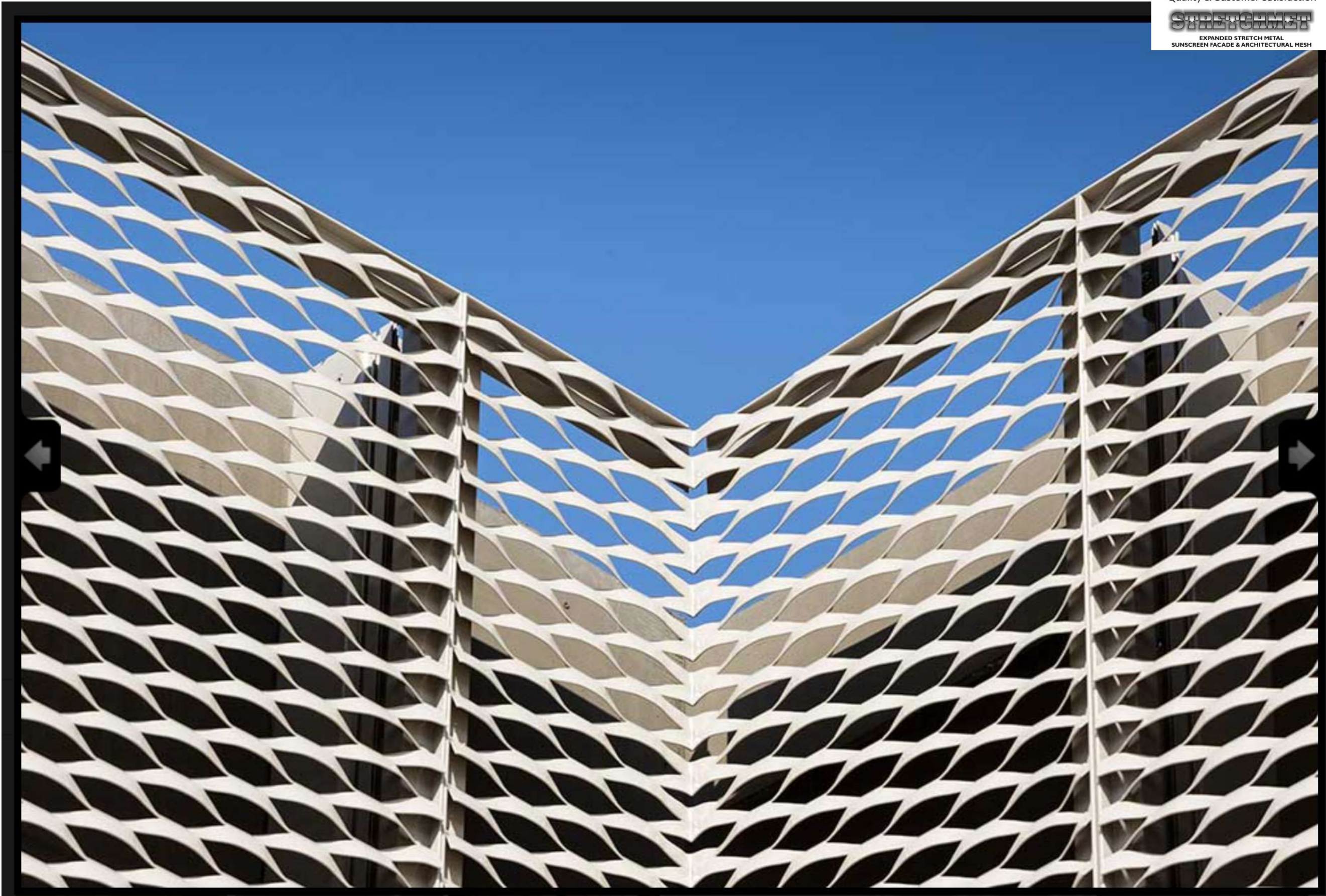
# FIXING METHODOLOGY



# FIXING METHODOLOGY



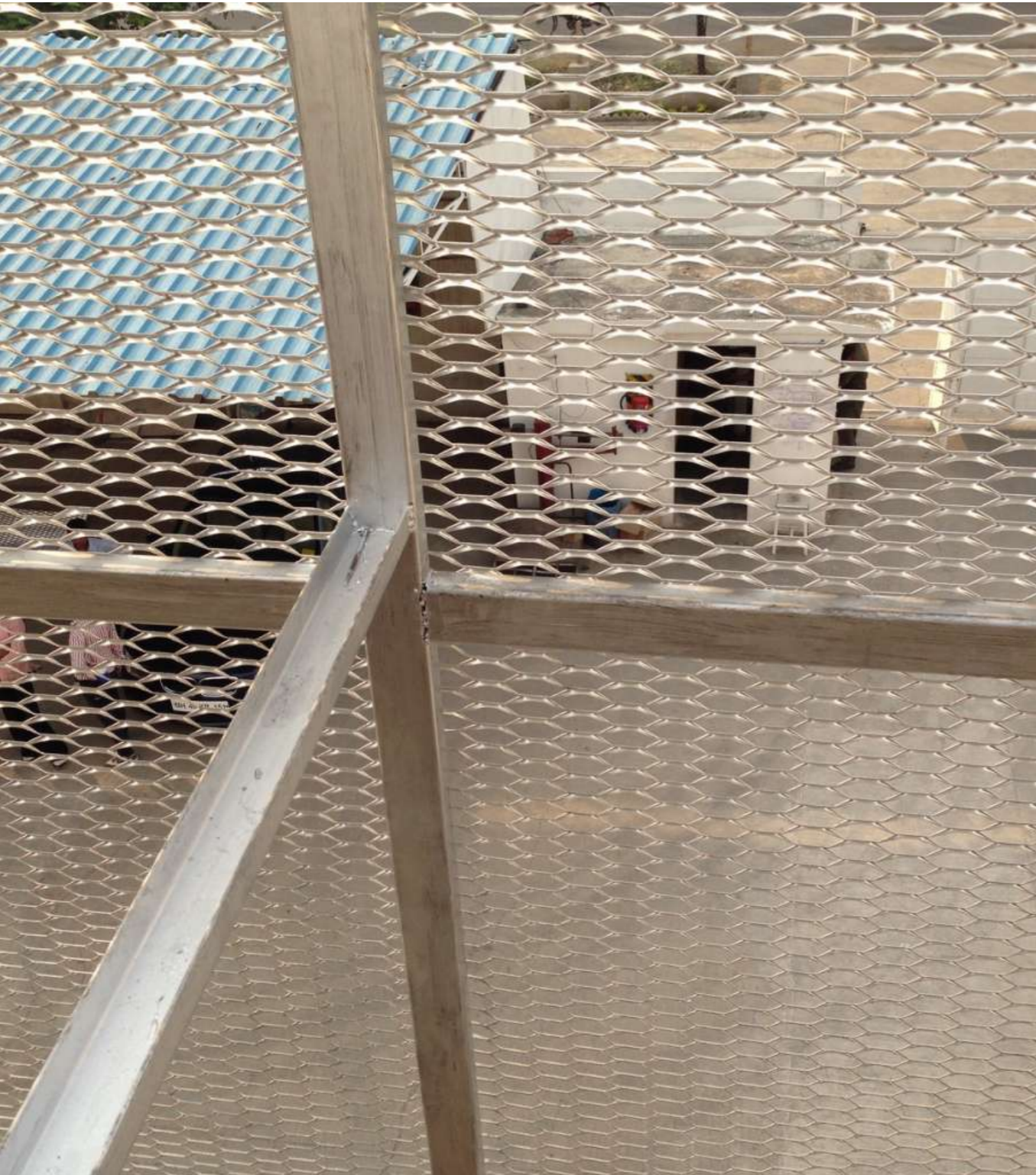
# FIXING METHODOLOGY



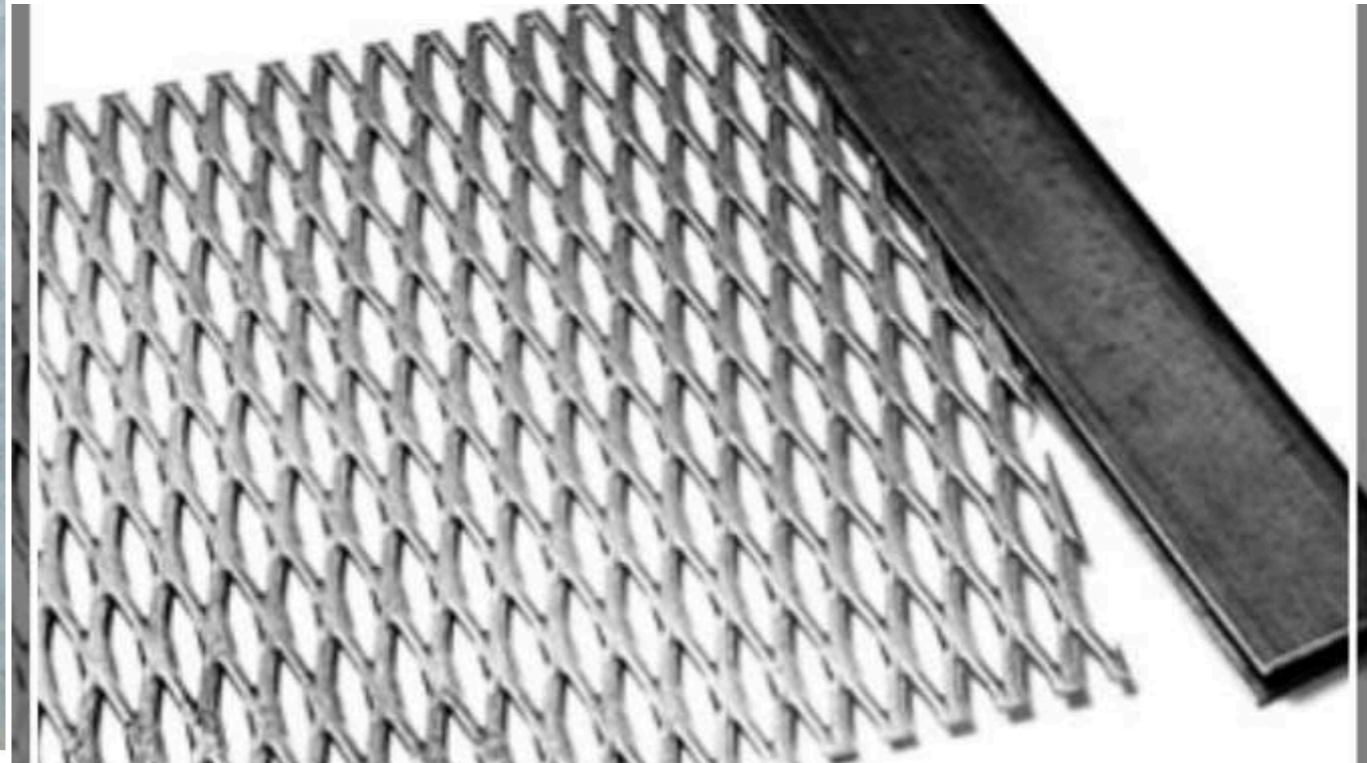
# FIXING METHODOLOGY



# FIXING METHODOLOGY



# FIXING METHODOLOGY



# FIXING METHODOLOGY

Since 1962



**ASIAN  
STRECK  
METALS**

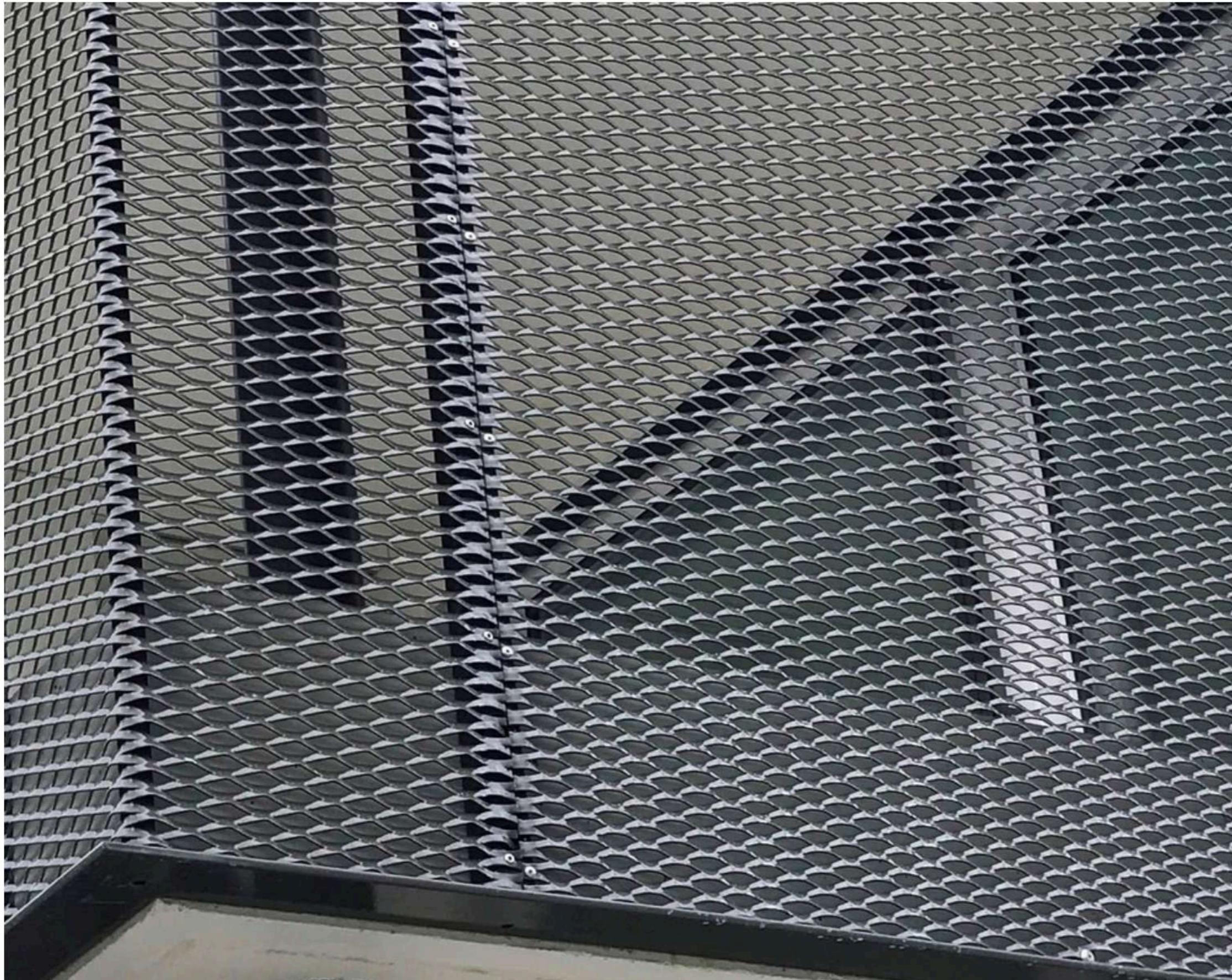


ISO 9001:2015  
COMPANY

Quality & Customer Satisfaction

**STRETCHMET**

EXPANDED STRETCH METAL  
SUNSCREEN FACADE & ARCHITECTURAL MESH



# FIXING METHODOLOGY



# Sample Drawing

Since 1962



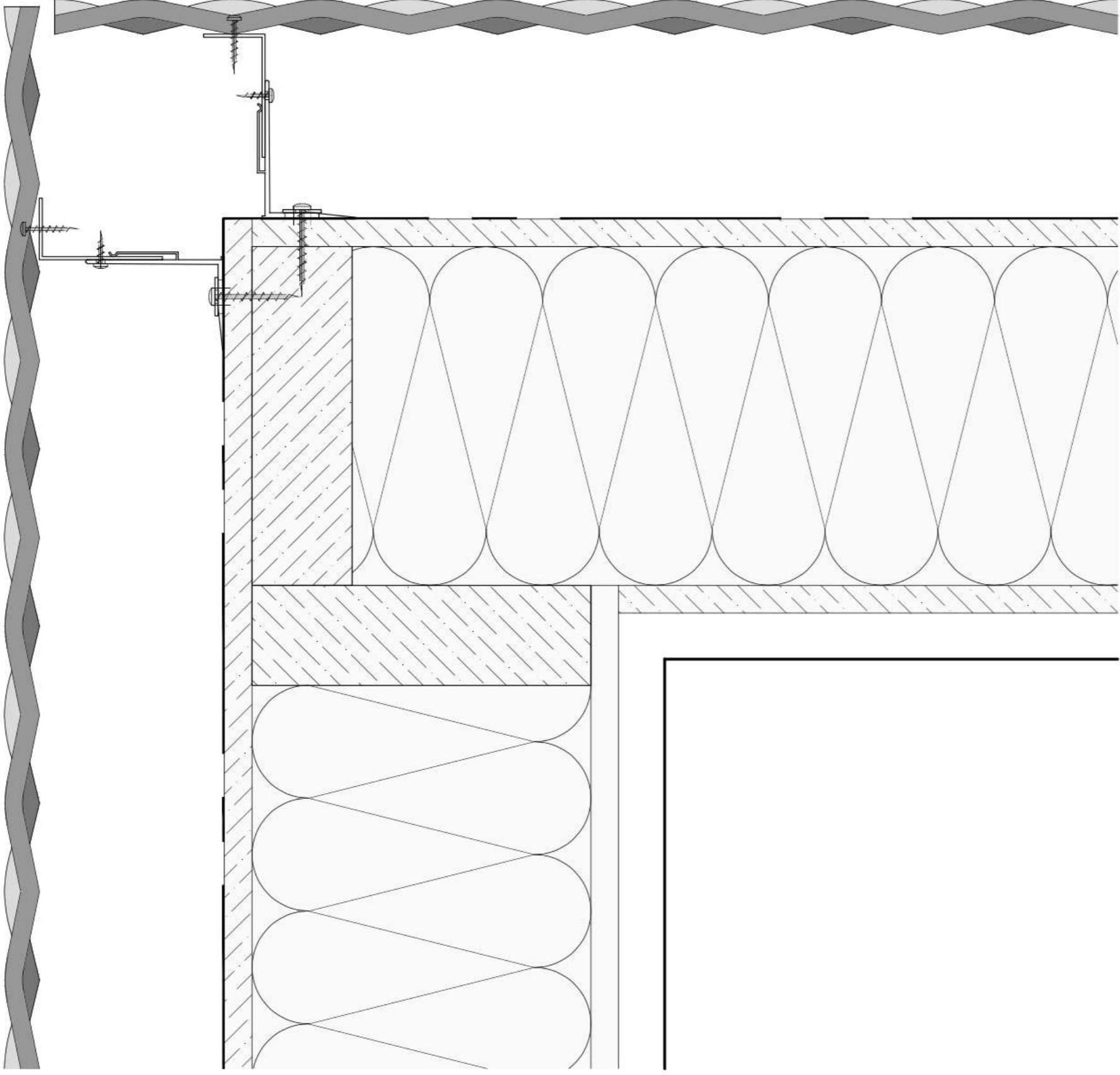
**ASIAN  
STRECK  
METALS**



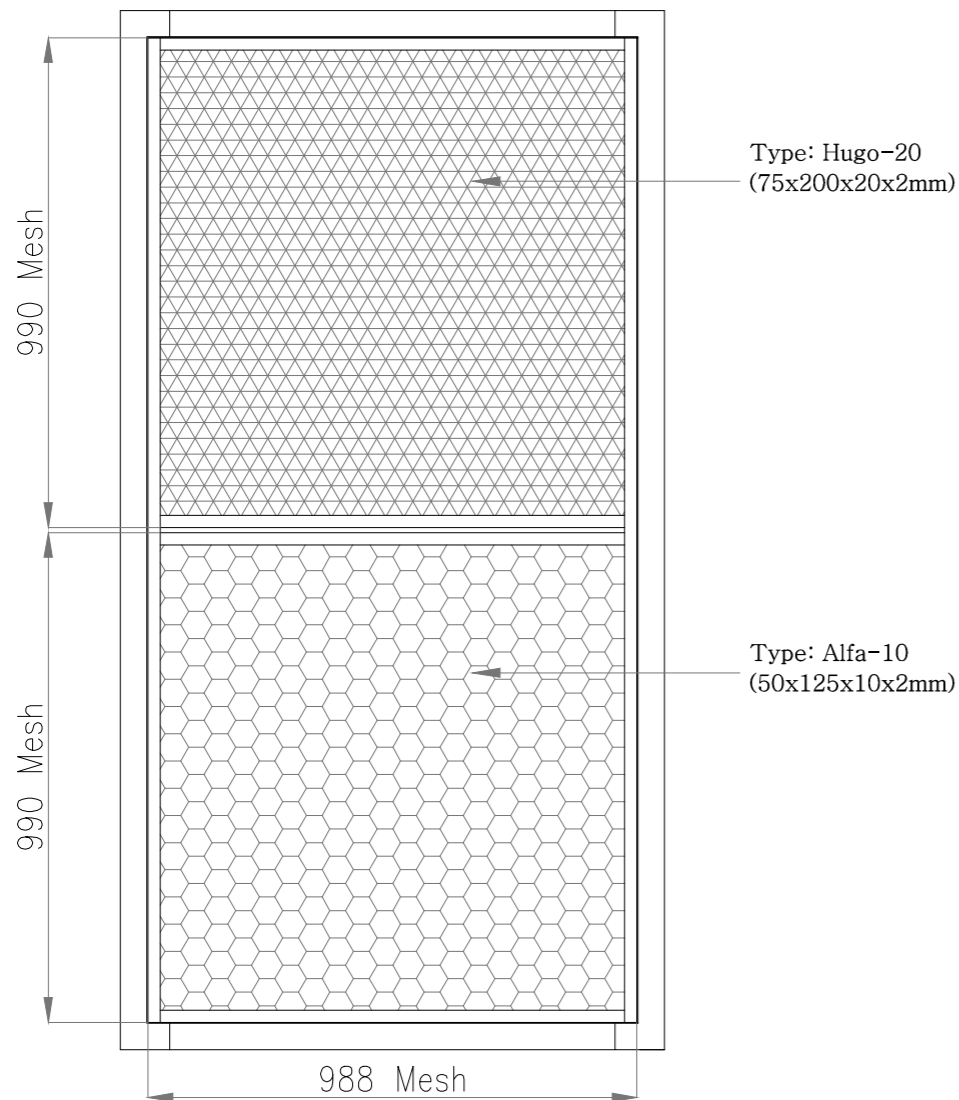
Quality & Customer Satisfaction



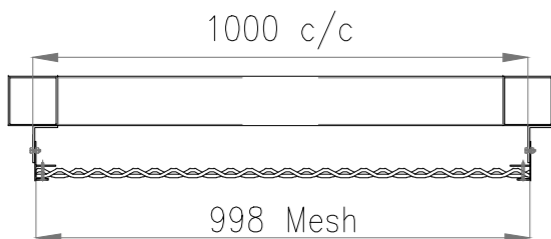
EXPANDED STRETCH METAL  
SUNSCREEN FACADE & ARCHITECTURAL MESH



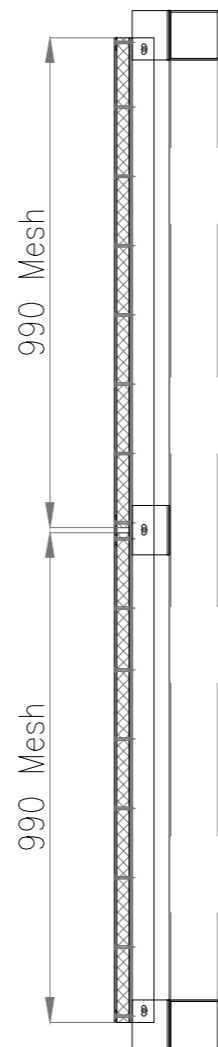
# Sample Drawing



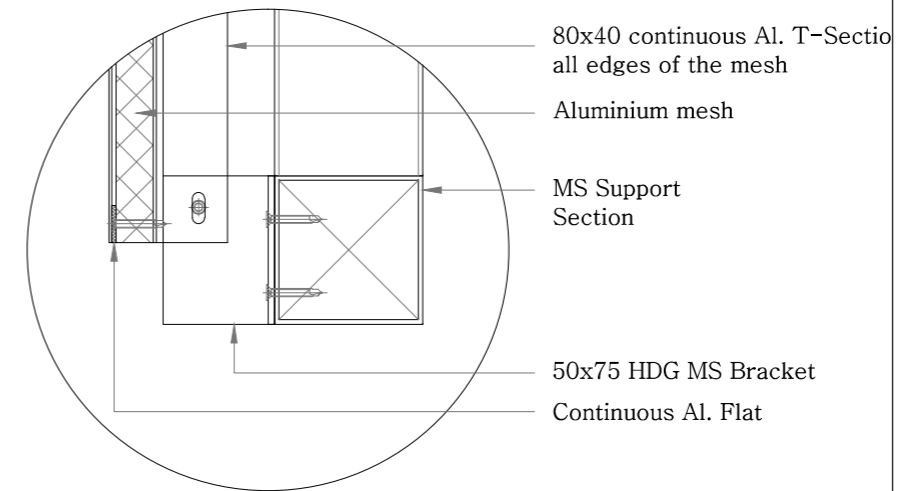
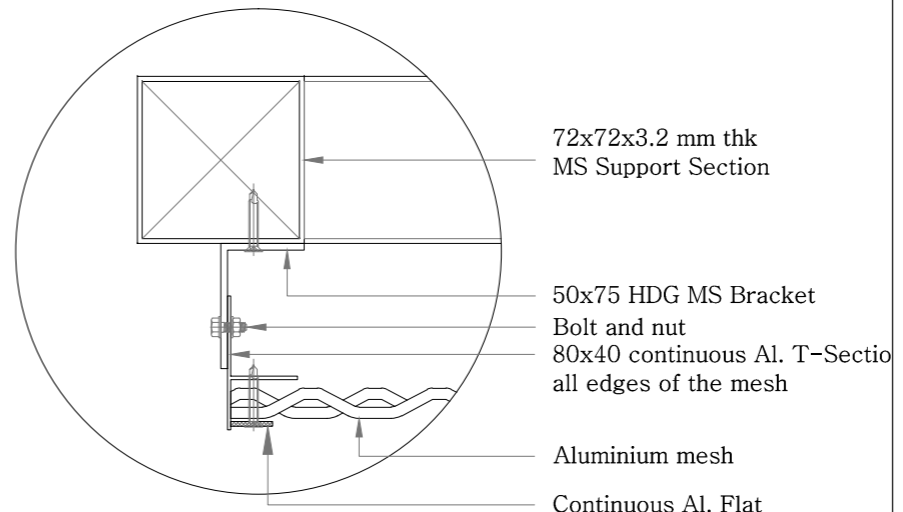
ELEVATION



PLAN



SECTION



KEYPLAN

GENERAL NOTES :  
1) ALL DIMENSIONS ARE IN MILLIMETERS


REV. NO.	DESCRIPTION	DATE	BY

PURPOSE OF ISSUE:  
TENDER PROPOSAL DRAWING

CLIENT:  
SALARPURIA SATTVA GROUP  
4TH FLOOR, SALARPURIA WINDSOR  
# 3, ULSOOR ROAD, BANGALORE - 560 042  
TEL: + 91 80 4269 9000 WEB: WWW.SATTVAGROUP.IN

FACADE DESIGN & FABRICATION :  
MILESTONE ALUMINIUM CO. PTE. LTD.  
Office :-No.B171/202 4th Main 2nd Stage  
Peenya Industrial Estate, Bangalore-560 056.  
Tel:- 080-41160959,  
email:info@milestonealuminium.com

ARCHITECTS :  
JYOTHI RATH + A.  
ARCHITECTURE + DESIGN  
#154 FIRST MAIN, AGS COLONY,  
ANANDNAGAR,  
BANGALORE 560024.

FACADE CONSULTANTS :  
 **FACADE TECHNIK**  
# 12/7, 2nd Floor,Shamarao Compound,  
Mission Road , Bangalore -560027  
Ph: +91 80 2213 2467 FAX: +91 80 22132468

PROJECT :  
PROPOSED DATA CENTRE

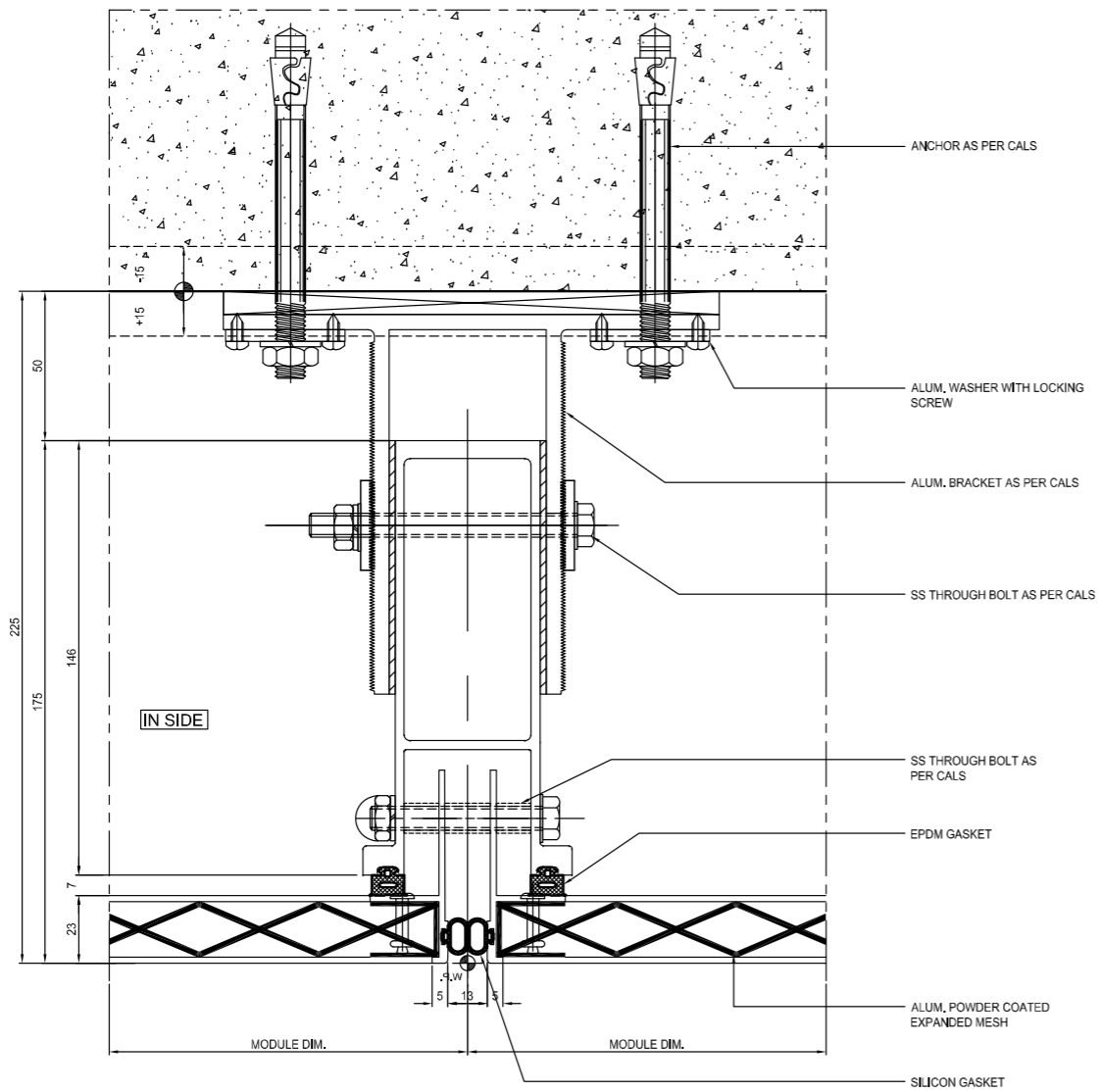
DRAWING TITLE :  
MOCK-UP OF  
EXPANDED GRILL

DESIGNED By :	DRAWN :	SCALE :
	HARISH	1:1

CHECKED By :	DATE :	SIZE :
	25.01.19	A3

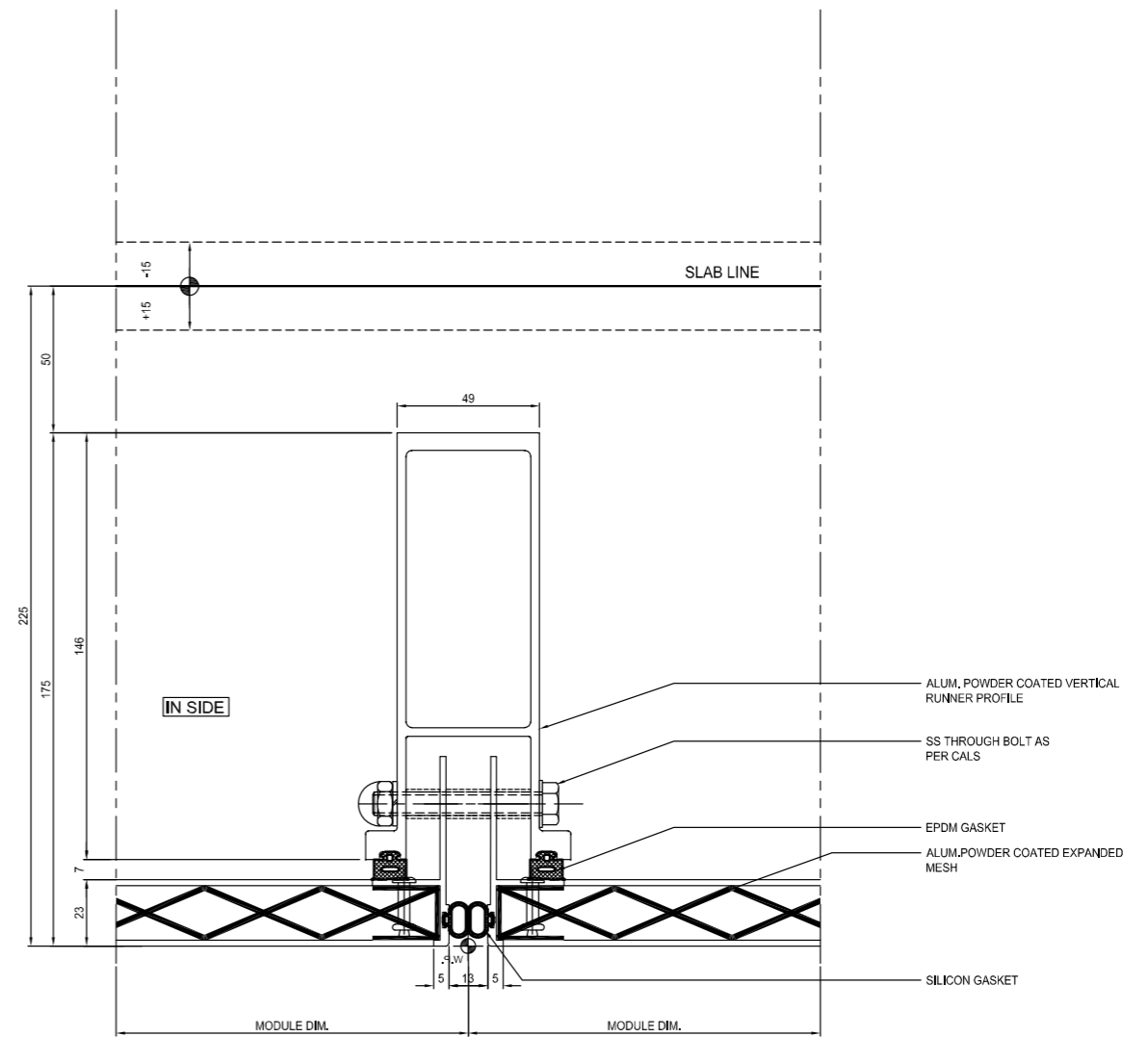
PROJECT/JOB No. :	DWG. No. :	REV. No. :
	ML_DC_MESH_301	R1

# Sample Drawing



OUT SIDE

01 TYPICAL ALUM. EXPANDED MESH BRACKET PLAN DETAIL  
DT-5010 SCALE 1:2



OUT SIDE

01 TYPICAL ALUM. EXPANDED MESH PLAN DETAIL  
DT-5010 SCALE 1:2

