



Dynamic Facade

Innovation in Motion

CITADEL INNOVATION DYNAMIC FACADE

At Citadel Building System, we are pioneers in engineering materials that elevate architectural design. Our commitment is to developing innovative facade and roofing solutions that enhance the aesthetics and functionality of any space. By blending modern technology with creative design, we push the boundaries of what's possible in architecture.

Each of our specialized teams draws on shared expertise and values to deliver precise, thoughtful, and visually striking results. Explore our offerings or get in touch with us today to see how our solutions can bring your vision to life.





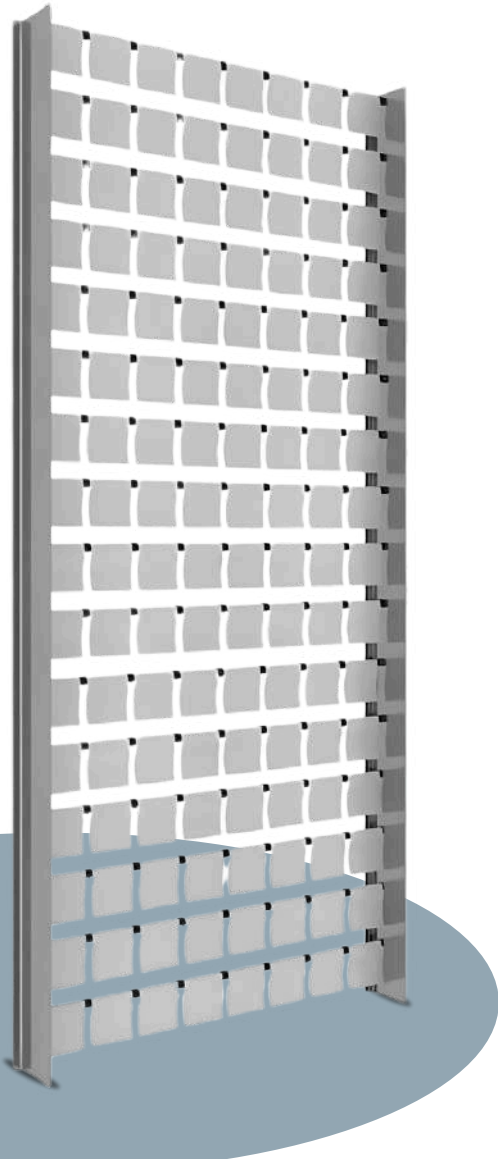
INNOVATIVE DESIGN, RESPONSIVE MOTION

WIND DRIVEN FLAP SYSTEM

The Wind Driven Flap System is a cutting-edge facade solution that animates building exteriors through the power of wind. Featuring multiple flaps that respond to air currents, this system creates a dynamic wave-like effect, turning structures into visual spectacles. Ideal for urban environments, it not only captivates with movement but also introduces subtle ambient sounds during windy conditions.

Discover how the Wind Driven Flap System can elevate your building's design by contacting us today.

ARCHITECTURE WITH TECHNOLOGICAL INNOVATION



MATERIALS USED WIND DRIVEN FLAP SYSTEM

The Wind Driven Flap System is a versatile facade solution, with **aluminum and stainless steel** as the preferred material for its flappers. The construction materials, suspension system, and flap geometry are all customizable to achieve the desired visual and acoustic effects, ensuring the sound produced is both subtle and pleasing.

This innovative system allows you to tailor both the aesthetic and auditory experience of your building, making it a perfect fit for projects that demand a blend of technology and creativity.

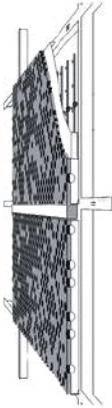
ARCHITECTURE WITH TECHNOLOGICAL INNOVATION



FEATURES

INTERACTIVE

Dynamic facades bring buildings to life with wind-driven motion, adding a layer of dynamism and interactivity to their exteriors. This kinetic movement not only elevates the building's aesthetics but also creates a captivating visual experience that continuously evolves with the wind.



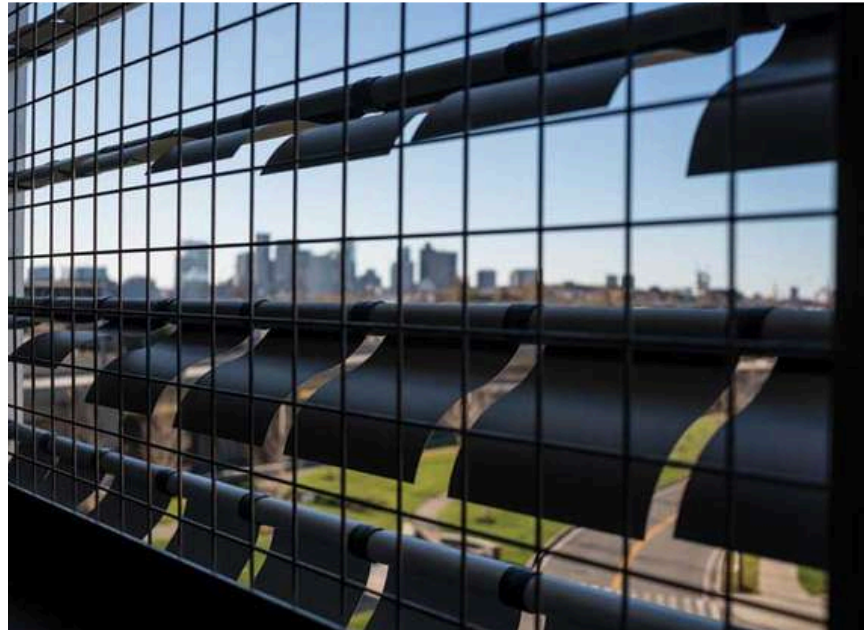
INSULATION

Dynamic Facade enhances energy efficiency with excellent thermal insulation, maintaining comfortable indoor temperatures. Additionally, it provides sound insulation, creating a peaceful and quiet indoor environment.

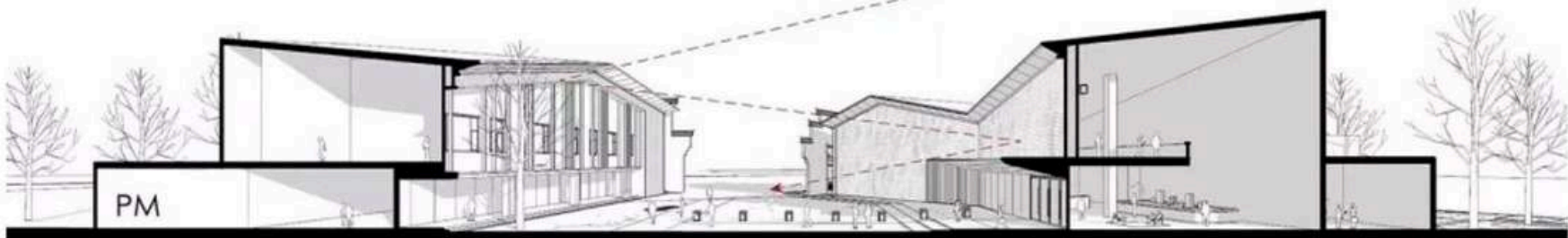
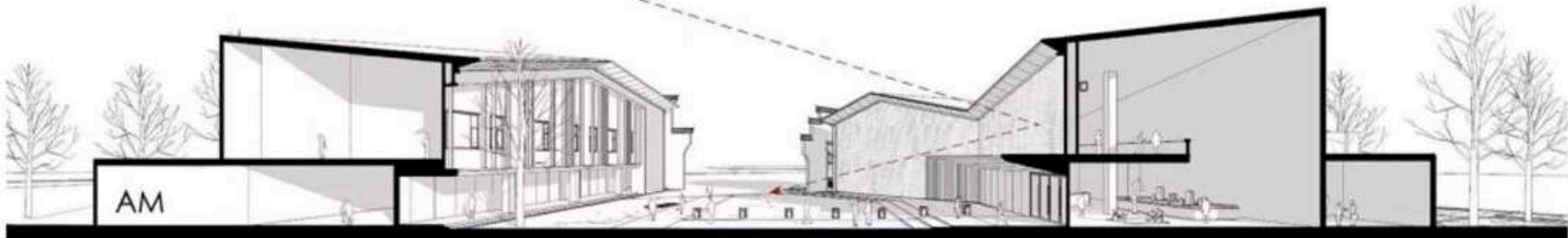
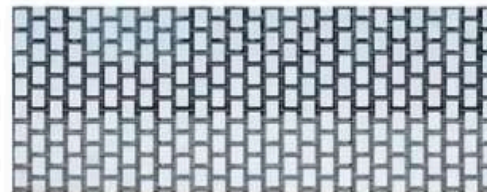


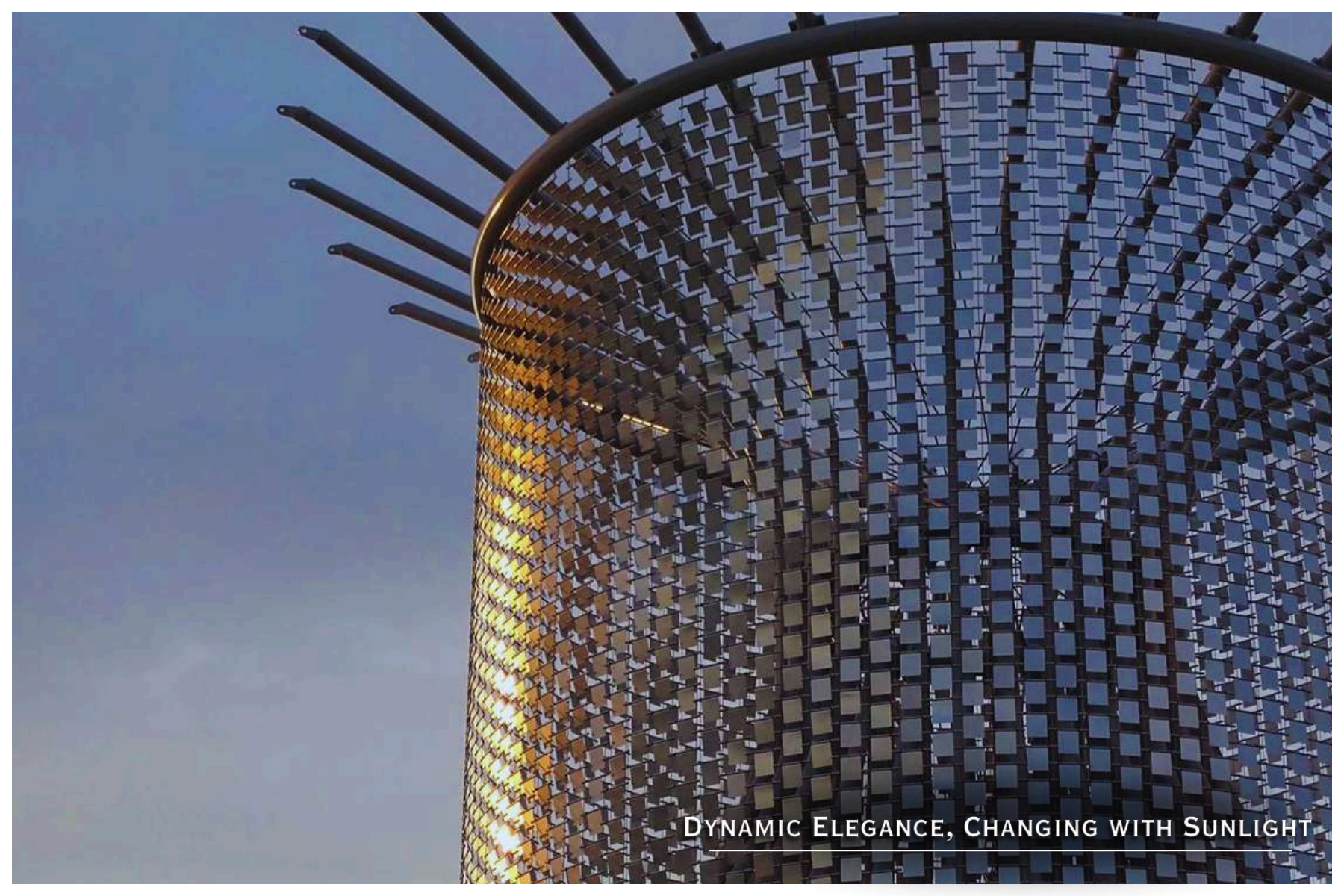
ENERGY EFFICIENT

Dynamic facades enhance energy efficiency by combining thermal insulation, natural ventilation, and daylight optimization. The wind-driven kinetic design further reduces energy consumption and operational costs, making buildings more sustainable.



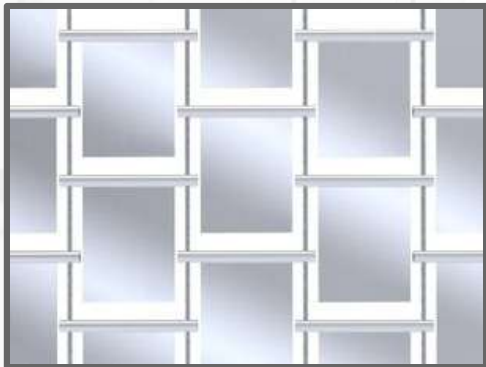
CHANGING LOOK WITH SUN LIGHT



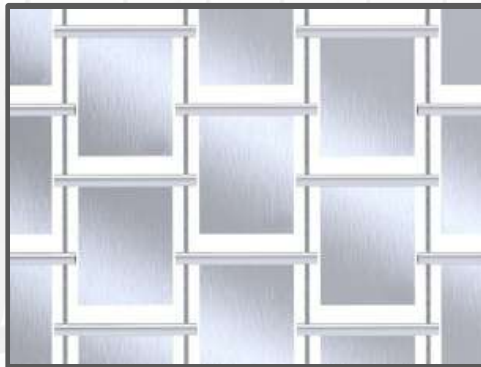


DYNAMIC ELEGANCE, CHANGING WITH SUNLIGHT

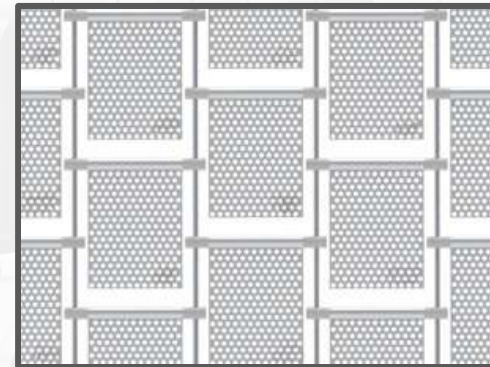
PATTERNS IN WIND DRIVEN FLAP SYSTEM



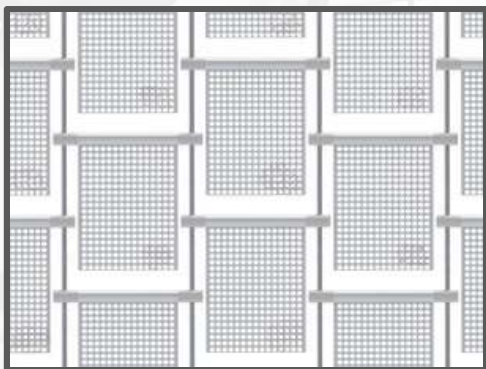
Mirror Surfed



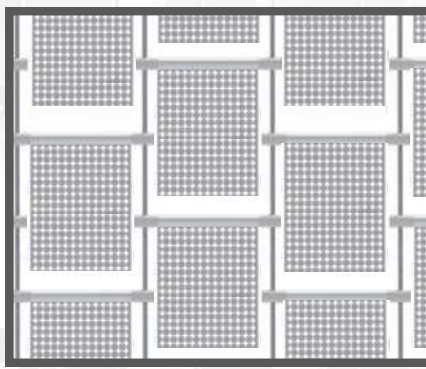
Brushed Surfed



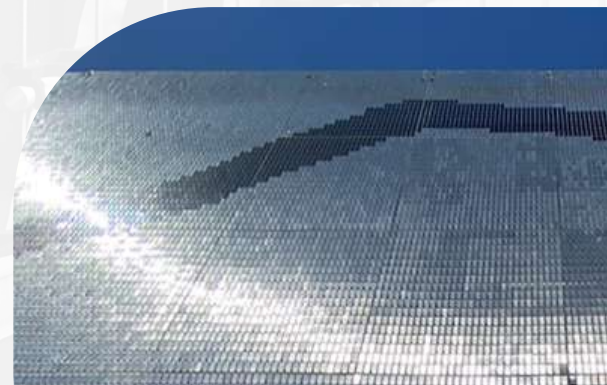
Perforated



Oval Perforated



Cross Holes Perforated

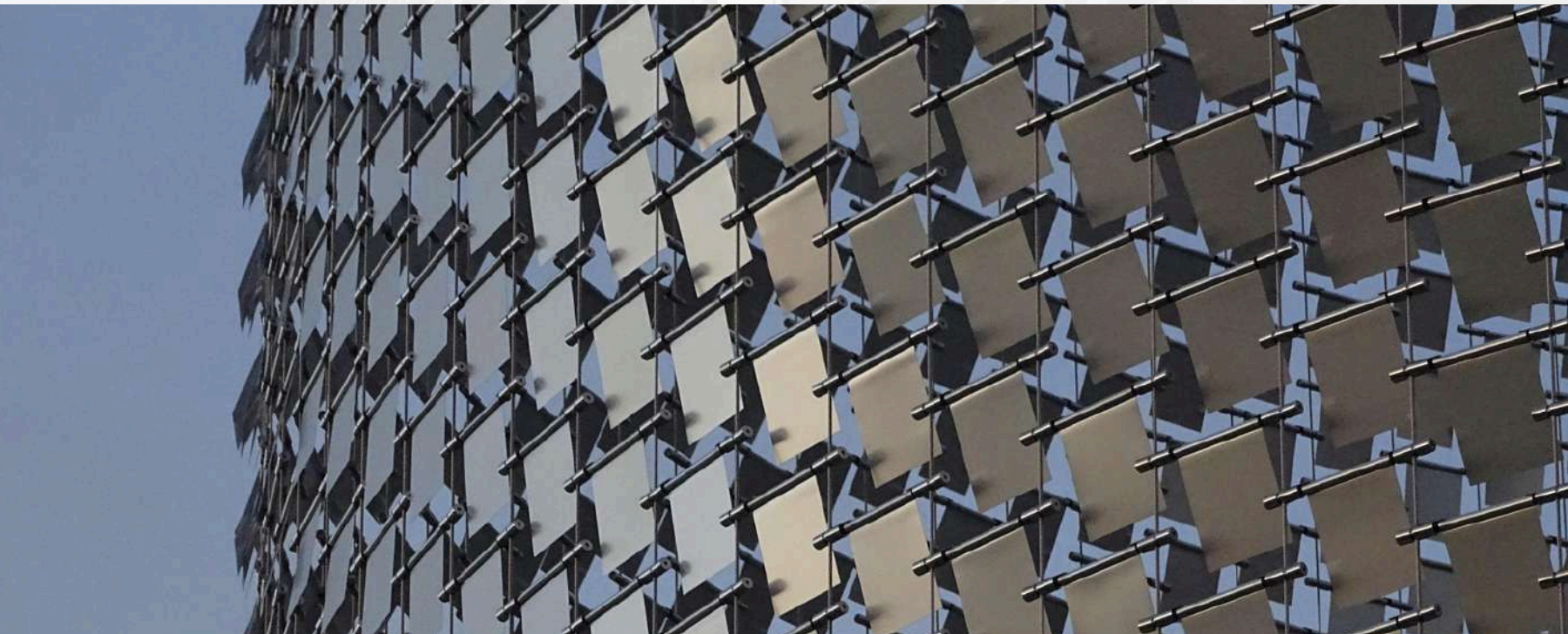


MATERIALS

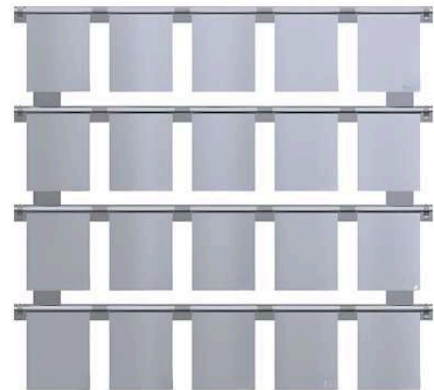
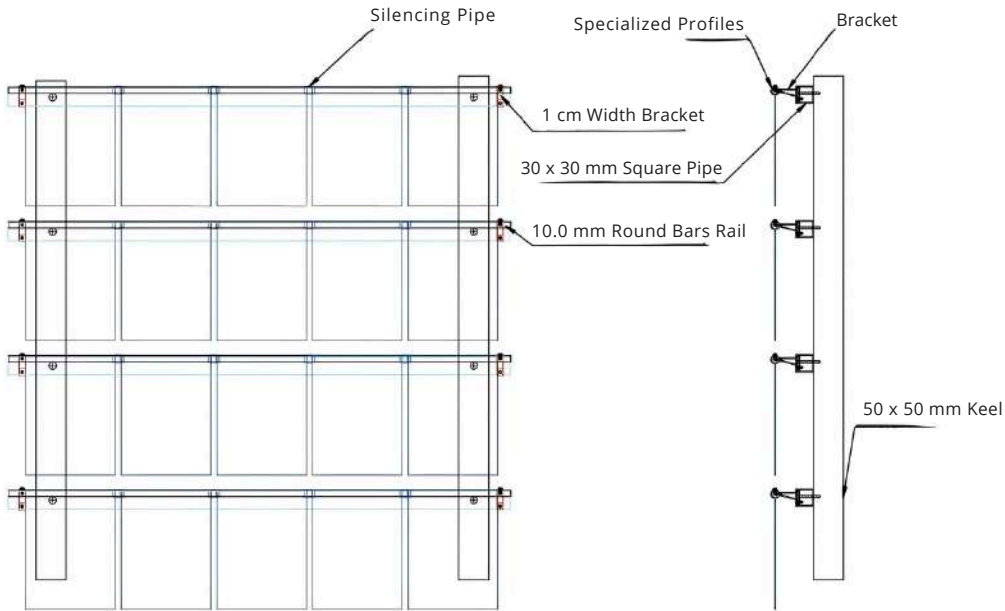
GRADE

AVAILABLE SURFACE TREATMENT

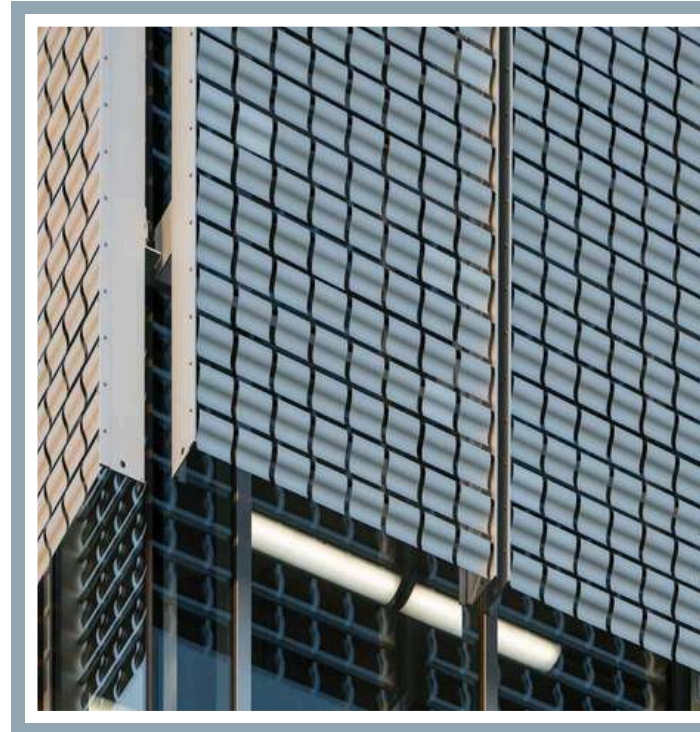
Stainless Steel	: AISI304,316L, 316TI, 310S, 321, etc.	: Burnishing; Powder coating; Color painting, grinding, polishing, etc.
Copper	: 1050, 1060, 3003, 5052, etc.	: Burnishing; Anodizing, fluorocarbon coating, color painting, grinding
Brass	: Copper 99.99% purity	: Burnishing; Oxidation, etc.
Mild steel	: CuZn35	: Burnishing; Oxidation, etc.
Aluminum	: S195, S235, SPCC, DC01, etc.	: Burnishing; Hot dipped galvanizing; Powder coating; Color painting, etc.



VERSATILE INSTALLATIONS: DUAL SYSTEMS

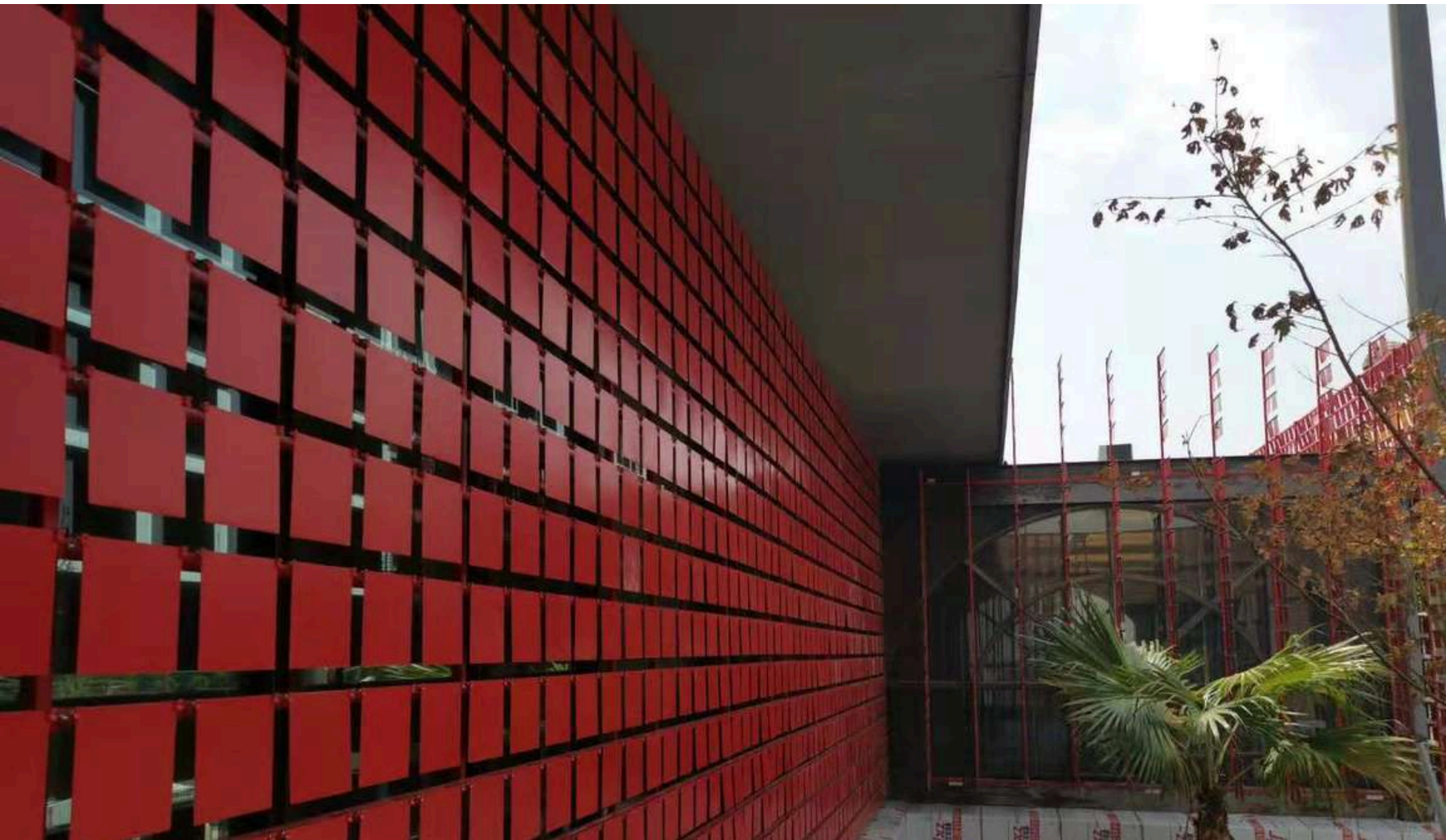


1. Aluminum Framework System

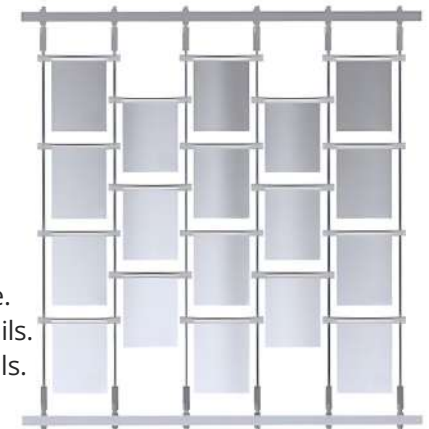
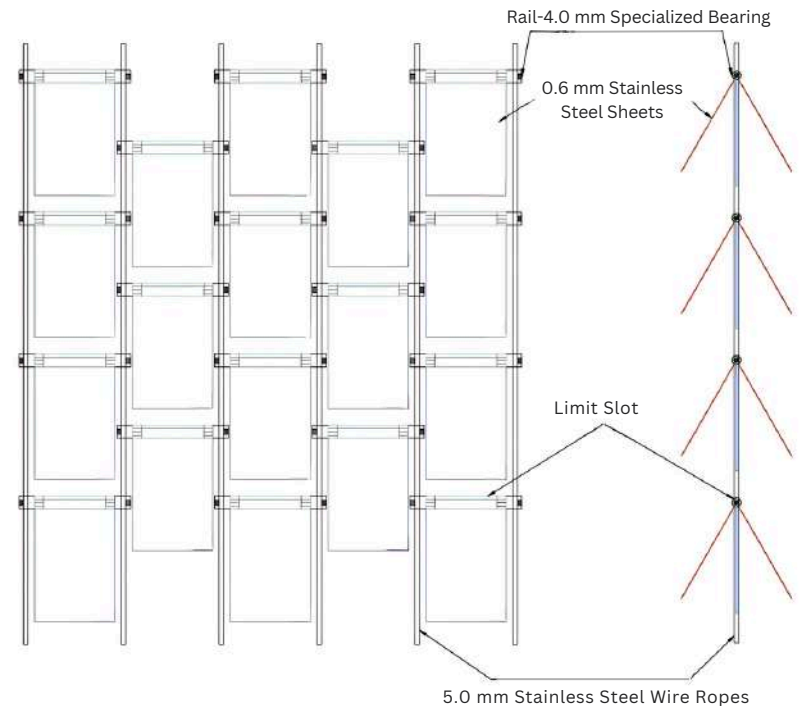
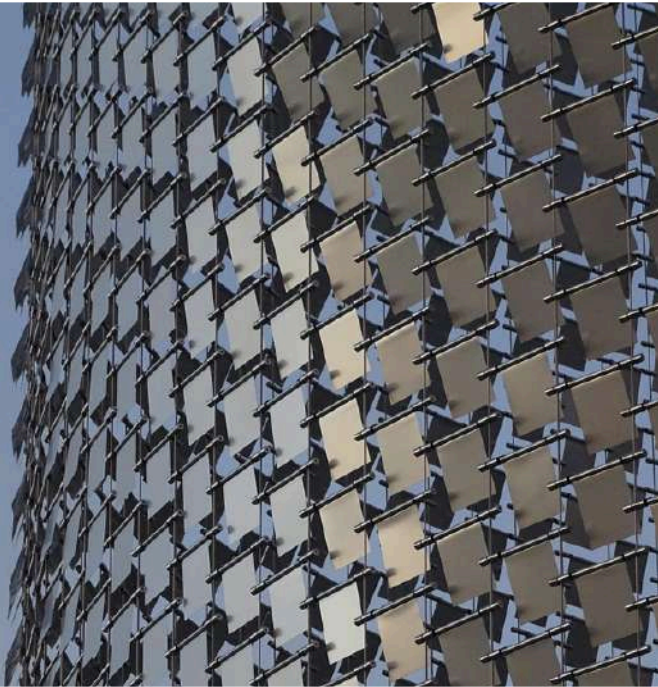


- Install the 50 x 50 mm keel onto the facades.
- Fasten the 30 x 30 mm square pipe onto the keel as designed distance.
- Install the stainless steel sheets, silencing pipe one by one onto the rails.
- Fasten the rails onto the square pipes with bracket.

PROJECT WITH ALUMINUM FRAMEWORK SYSTEM

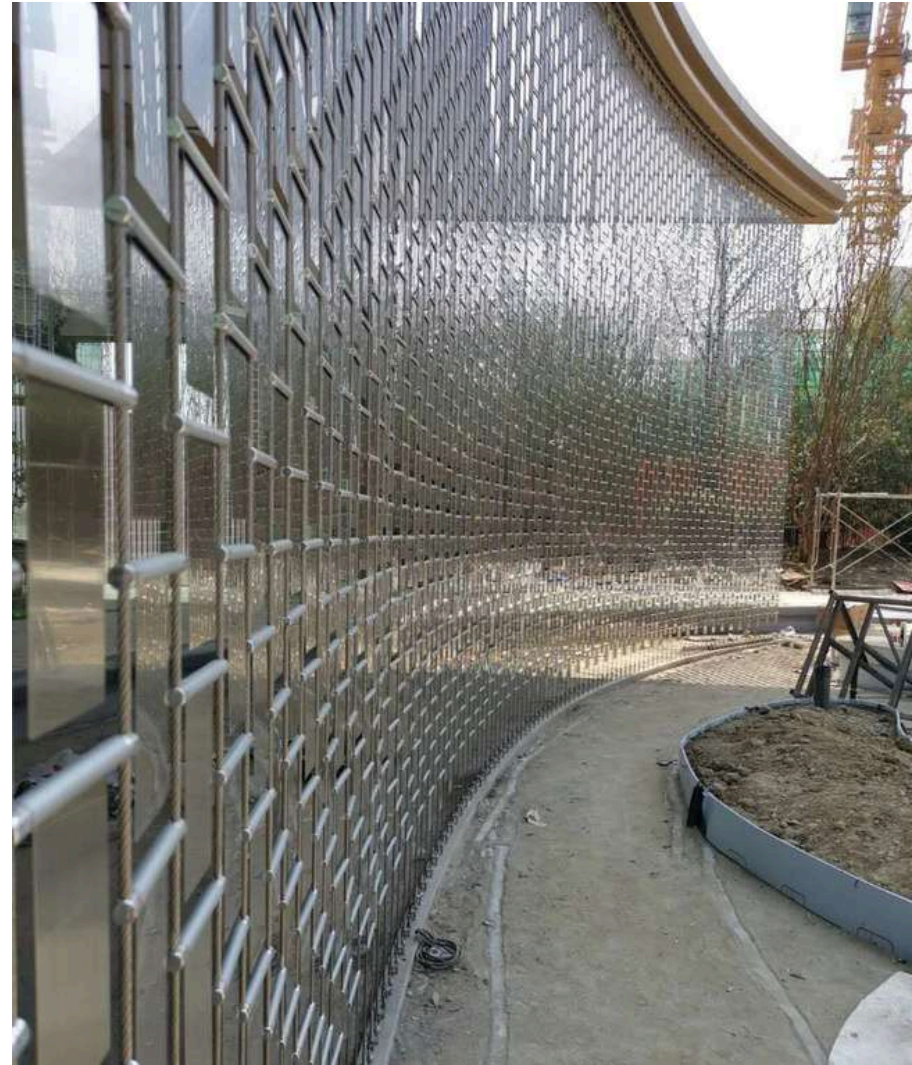


2. Wire Rope System



- Install the 50 x 50 mm keel onto the facades.
- Fasten the 30 x 30 mm square pipe onto the keel as designed distance.
- Install the stainless steel sheets, silencing pipe one by one onto the rails.
- Install the stainless steel sheets, silencing pipe one by one onto the rails.
- Fasten the rails onto the square pipes with bracket.

PROJECT WITH WIRE ROPE SYSTEM



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