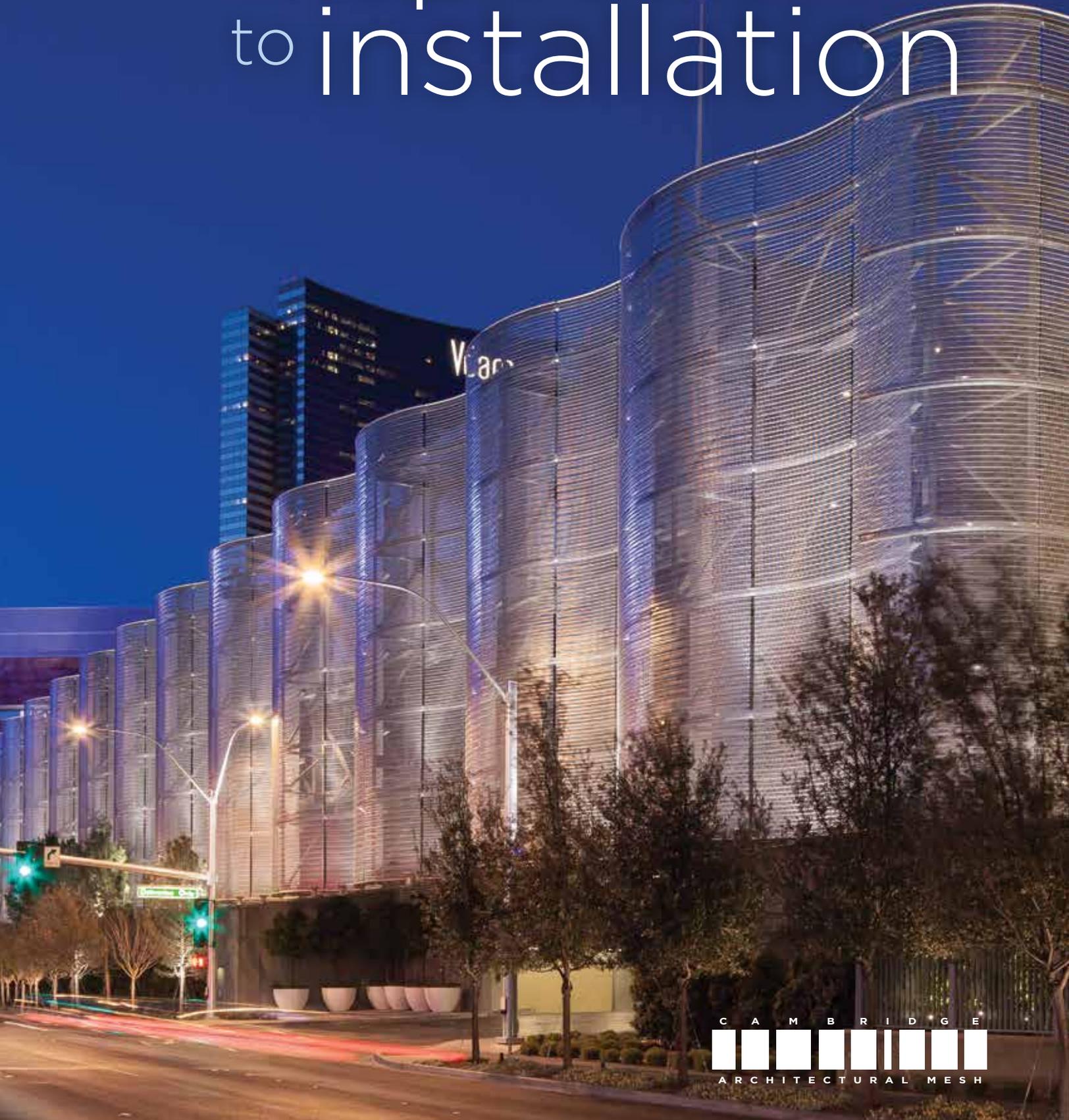


Cambridge Architectural Mesh

---

from inspiration  
to installation



C A M B R I D G E  
ARCHITECTURAL MESH

We chose Cambridge mesh because of the unique shape it could produce, and because the material's scrim-like properties created a beautiful and elegant shimmer.

Peter Follett, Pelli Clarke Pelli Architects

# inspirational

On the cover and at left:  
ARIA Resort and Casino  
Las Vegas, Nevada  
Architect: Pelli Clarke Pelli Architects  
New Haven, Connecticut

Perhaps it's an ability to be open, yet closed, at once. To reflect light directly and indirectly, brilliantly and diffusely, together. To be rigid or flexible. Or, to be geometrically simplistic at a distance, yet vexingly complex up close. Perhaps, it's all of these unique characteristics at work.

Whatever the reason, what's undeniable is woven metal fabric's uncanny knack for inspiring creative minds. Which is precisely where Cambridge Architectural comes in: to ensure that architects and designers have the knowledge, products, systems, and support to transform visionary designs of today into lasting architectural realities of tomorrow.

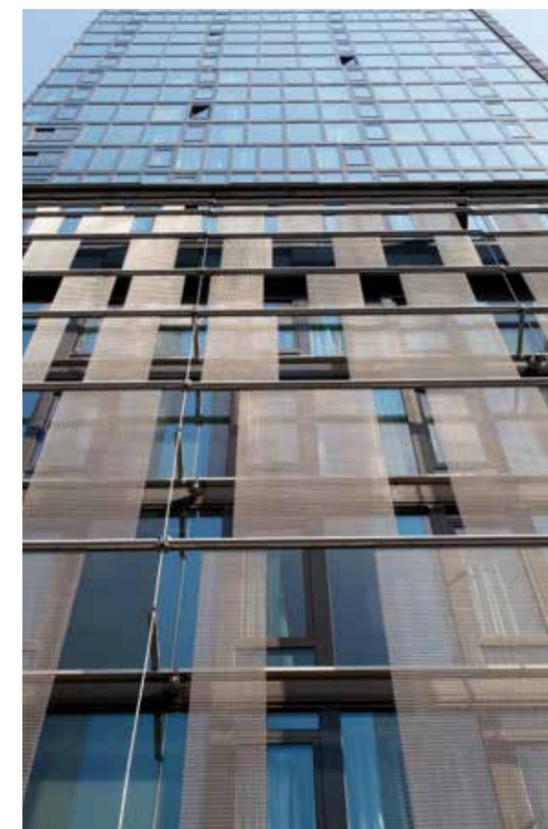
Welcome to Cambridge Architectural.

*"The mesh allowed us to do the seemingly impossible: create a single element that could function as both a solid wall and open window."*

Danny Forster, principal of  
Danny Forster Design Studios

Courtyard by Marriott,  
New York City, New York >

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# enduring

< Beautiful woven mesh, installed in 1958, still clads elevator interiors at the iconic Seagram Building in New York City.

## WOVEN METAL FABRIC

Each distinct pattern of Cambridge woven metal fabric is itself a work of art, designed with a specific geometry, open area, dimension, and flexibility. Woven by skilled artisans from a multitude of combinations of highly durable, yet readily recyclable metals, including stainless, bronze, aluminum, and brass, metal fabric is an intrinsically sustainable building material.

## ARCHITECTURAL FUNCTIONS

The visual beauty of woven metal usually upstages the material's critical functional offerings. These include: solar shading, acoustic transparency, ventilation, security and safety, space sculpting, and masking.

## ANY BUILDING TYPE

From parking garages and pedestrian bridges, to performing arts venues and major sports complexes, Cambridge metal fabrics are gracing structures across the country and around the world. Woven through interiors and exteriors of museums, libraries, hospitals, research centers, universities, casinos, stadiums, hotels, retail establishments, government facilities, and religious facilities, Cambridge mesh is transforming the ordinary into the extraordinary.



^ National World War II Museum, New Orleans, Louisiana. Architect: Voorsanger Mathes, LLC

## ENGINEERED ATTACHMENT SYSTEMS

Cambridge offers a large variety of flexible and rigid mesh patterns as well as the best-engineered attachment systems in the industry. Cambridge continually develops new mesh patterns, finishes, attachment systems, and innovative ways to use mesh material to achieve certain architectural looks or functionalities. A complete product catalog is located on page 24.

## POPULAR APPLICATIONS:

- Canopies
- Ceilings
- Curtains
- Elevators
- Facades
- Handrail Infills
- Parking Facilities
- Solar Shading
- Security Screens
- Signage
- Stair Towers
- Wall Cladding



< Translational Research Institute, Orlando, Florida. Architect: Flad Architects



original



*While Cambridge today is a recognized global leader, our roots were planted 100 years ago in the small town we still call home. Our manufacturing experience and passion for excellence is evident in the hands and on the faces of every craftsman who weaves our metal fabrics.*

**AN AMERICAN ORIGINAL**

Cambridge Architectural collaborates closely with architects, designers, and contractors to specify, customize, and install woven metal into the built environment in ways that are both aesthetic and functional.

**HERITAGE**

Cambridge Architectural evolved from a world-renowned American industrial wire belt manufacturer with a century of successful engineered solutions. The company's first architectural application was installed in 1957 at the Seagram Building in New York City (cladding for the building's elevator cabs that remain in place today). After four decades of market experience, the Cambridge Architectural division was officially established in 2002.



**EXPERTISE**

Having established a leading position in the marketplace, Cambridge's expertise extends far beyond materials manufacturing. Our 400+ employees call on collective and progressive experience with every facet of design, engineering, fabrication and installation at each stage of every project. Cambridge provides full-scale project management and engineering services with



*Near the shores of Maryland's Chesapeake Bay, historic Cambridge is home to third-generation artisans and professionals dedicated to making woven metal mesh the hallmark of beautiful, durable and sustainable environments.*

access to hundreds of skilled craftsmen, creative minds, and market experts to execute the architect's or designer's vision.

**GLOBAL**

Today, Cambridge clients benefit from the company's global manufacturing operations in combination with its North American headquarters, offering full-service consultation services, research and development, engineering, prototyping, and more. Our expanding international portfolio in Europe, the Middle East and Latin America has introduced Cambridge's ingenuity and know-how to these expanding markets.

**EDUCATION**

As trailblazers, Cambridge Architectural places high value on continuing education and offers AIA-certified CEU courses that allow architects to receive LU/SD/HSW credits.

We also offer a Cambridge CPD seminar for British architects through RIBA under the Designing and Building It curriculum.



# visionary

## INNOVATION

Continuously striving to innovate new systems and designs, Cambridge's track record for unique product development is evident in the almost two dozen U.S. and European patents including a special Miami-Dade-certified (high wind) attachment system capable of withstanding hurricane force winds. Another eight patents are currently granted provisionally or pending.



## COLLABORATION

Cambridge provides complete systems customized to the application. Cambridge collaborates with architects and designers to develop mesh solutions that most fully realize the conceptual intent. Cambridge consultants also present possibilities that may not have even been considered and offer valuable expertise on how to properly specify architectural mesh for each project.

*The contemporary, shimmering, diaphanous look locked us in on this product.*

Raffi Tomassian  
DNK Architects, Inc.

Cincinnati Children's Hospital  
Parking Facility  
Cincinnati, Ohio  
Architect: DNK Architects, Inc.  
Cincinnati, Ohio



< Loewe Retail Store,  
Valencia, Spain.  
Architect: Peter  
Marino Architect

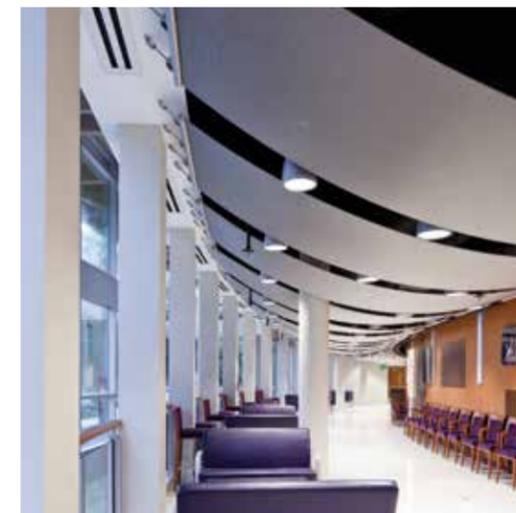
## EXECUTION

Cambridge Architectural's talented engineering team assists with any special design requirements and provides all required drawings, documentation and code approvals. Cambridge's expansive project portfolio is testament to the company's ability to execute the most technically challenging projects.

Once specified, Cambridge project managers go to work, professionally interfacing with the contractors to schedule a seamless, on-time installation. Cambridge's U.S.-based manufacturing provides a significant delivery lead-time advantage.

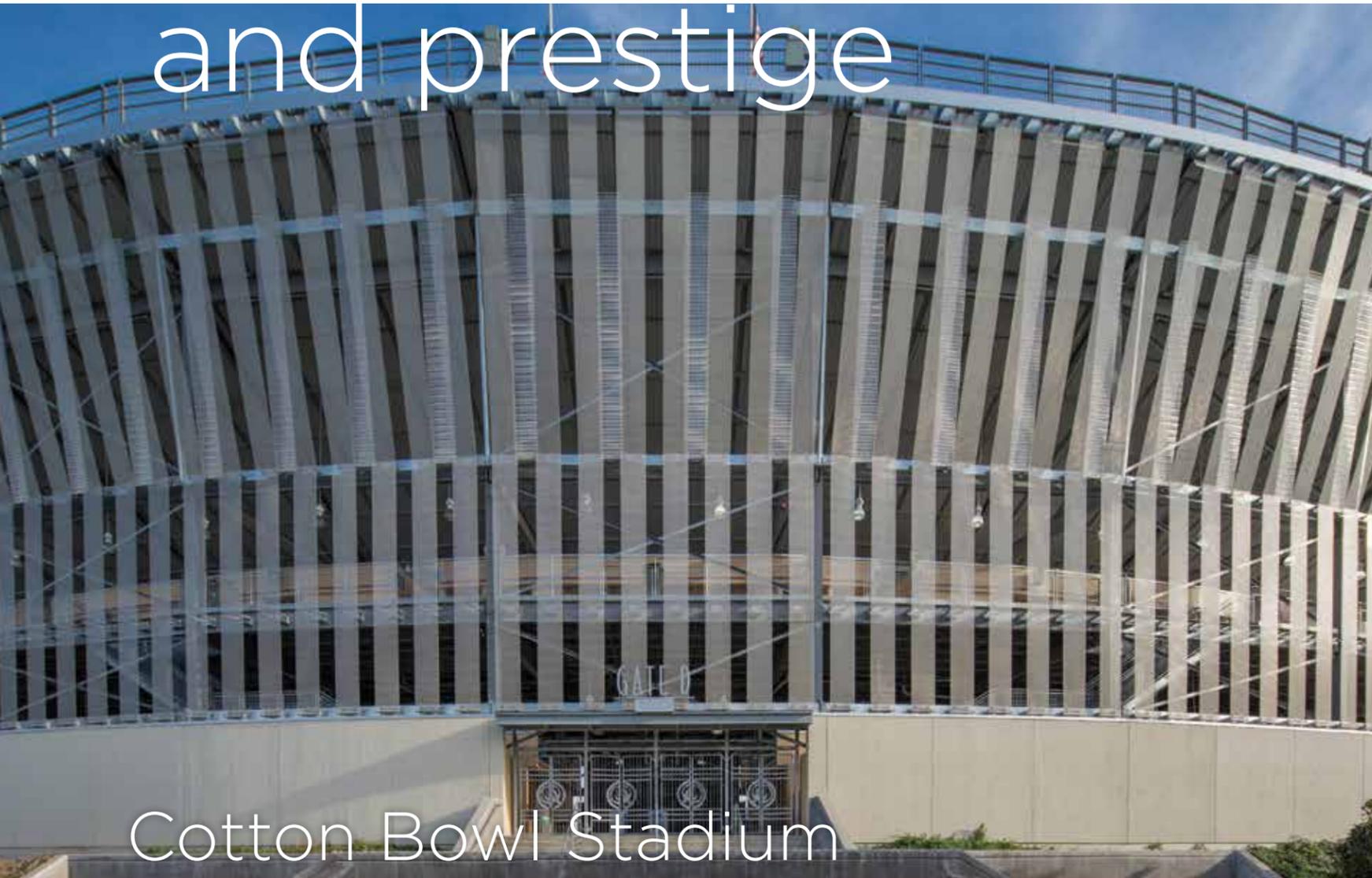
## SUSTAINABILITY

As a member of the United States Green Building Council, Cambridge is committed to promoting methods, technology and products resulting in environmentally responsible and healthy buildings. Select Cambridge staff members receive ongoing education and training on pertinent issues. This team, in turn, develops systems that meet or exceed LEED requirements and provides consultation and direction on a project-by-project basis.



< LSU Student Union  
Theater, Baton Rouge,  
Louisiana. Architect:  
Grace & Hebert  
Architects, Baton Rouge,  
& HMS Architects,  
New Orleans

# restoring pageantry and prestige



## Cotton Bowl Stadium

Dallas, Texas

- Architect:** James Carpenter Design Associates, Inc., New York, New York  
**Design/Build Firm:** Heery International, Atlanta, Georgia  
**General Contractor:** Balfour Beatty Construction, Dallas, Texas  
**Installer:** NOW Specialties, Inc., Houston, Texas  
**Owner:** City of Dallas / Office of Cultural Affairs Public Art Program and Dallas Park and Recreation Department  
**Cambridge System:** Mid-Balance Mesh  
Pellican Mesh  
Eclipse Attachment

### PROJECT

The City of Dallas' Parks and Recreation Department, Landmark Commission, and Office of Cultural Affairs launched a public art competition to redesign the end zone facades and draw attention to the historic complex. James Carpenter Design Associates was awarded the commission with a design entitled "Light Veil."

### APPLICATION & BENEFITS

Ribbons of metal mesh in two patterns cascade from the top of the Cotton Bowl, cinch in the middle, and continue to flow downward sculpting an elegant curtain. Incorporating 50,000 sq. ft. of Mid-Balance and Pellican panels mounted in-tension, the mesh creates a diaphanous veil around the 91,200-seat stadium, yet allows views into and out of the facility.

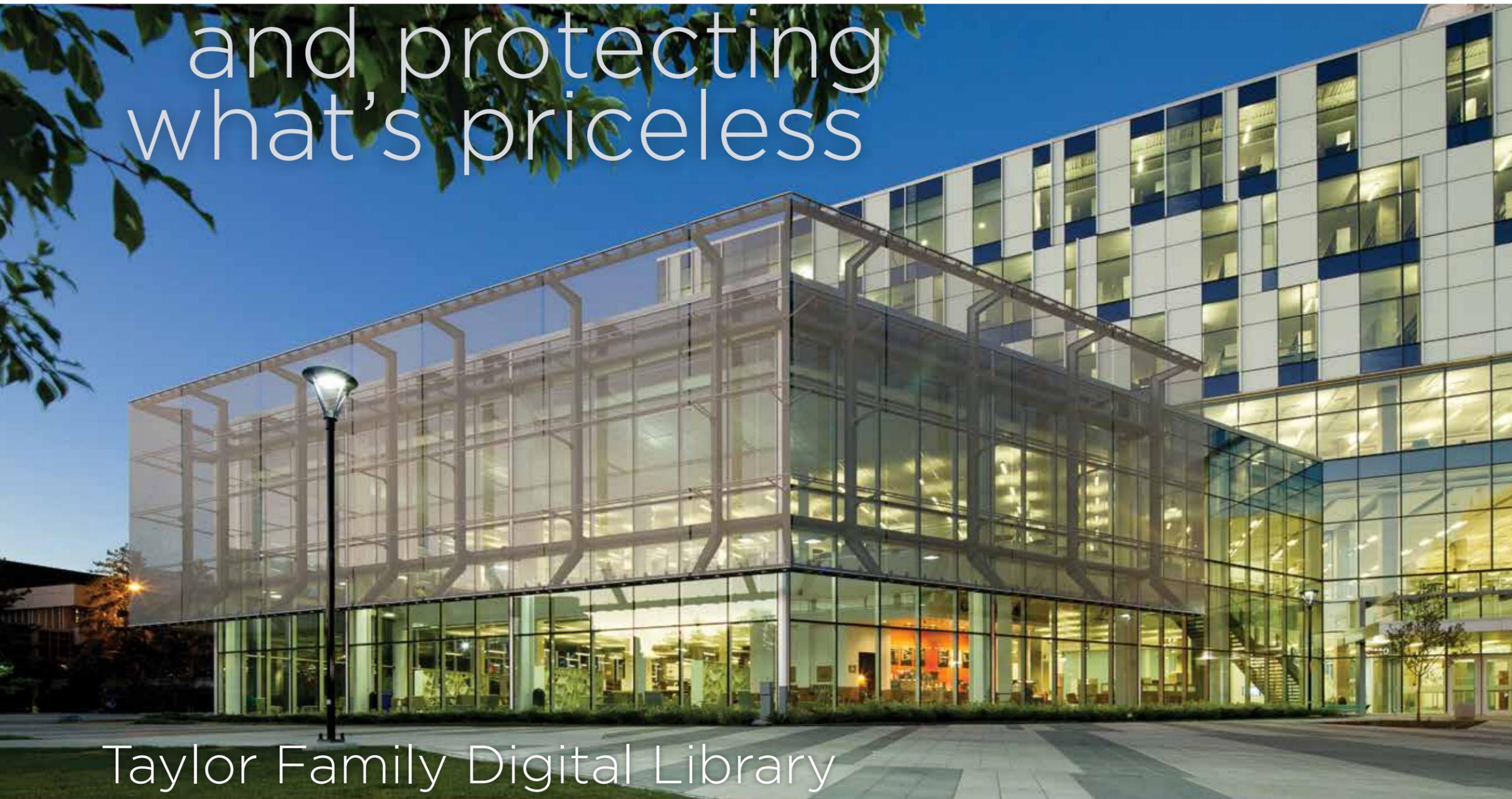
Cambridge engineers worked closely with Heery International to provide working drawings for the installation and recommend structural attachments. The Cotton Bowl's stunning and imaginative new facade, befittingly reflects the pageantry and prestige of the games held at the historically significant sports facility.



*We used two different scales of mesh, which became a design tool. We placed long ribbons of smaller scale stainless mesh from the top of the structure all the way down to the bottom. Then, on the upper portion of the structure, we used the larger scale stainless mesh that reflects much more sunlight. When we overlap the two, you sense the depth between both patterns as it transforms the surface into a diaphanous veil.*

Katharine McClellan, Senior Designer at James Carpenter

# preserving and protecting what's priceless



## Taylor Family Digital Library

Calgary, Alberta

- Architect:** Kasian Architecture Interior Design and Planning, Vancouver, Canada  
**Contractor:** CANA Construction, Calgary, Canada  
**Installer:** Flynn Canada Ltd., Rockyview, Canada  
**Owner:** University of Calgary  
**Cambridge System:** Mid-Balance Mesh  
Eclipse Attachment



*The mesh reduced the amount of solar heat gain, diminished glare, and lent an interesting and beautiful dimension to the building.*

Bill Chomik  
Principal Design Architect,  
Kasian Architecture Interior



### PROJECT

The University of Calgary's Taylor Family Digital Library is a state-of-the-art facility housing one million maps and aerial photographs, 850,000 architectural drawings, and 32,000 print monographs. Cambridge Architectural's 5,630-square-foot Mid-Balance mesh façade shades and protects these rare documents, and the library's occupants, while giving the innovative research and learning center a 21st Century modern aesthetic.

### APPLICATION & BENEFITS

The large Mid-Balance stainless steel façade shades and reduces glare, protecting the nine million library assets while reducing solar heat gain and optimizing energy performance in regularly occupied areas of the building. Anchored with the Eclipse attachment system, the large mesh panels filter intense sun, while still allowing sufficient ambient daylight and unobstructed views to the campus quad outside of the Information Commons - a glassed-in area meant for students to learn and relax in while using the facility. The result is a comfortable and beautiful open space ideal for academic endeavors and collaboration. The stainless steel mesh and attachment materials are also 100% recyclable and require nearly zero maintenance.



# driving sustainable design on campus



## Lane Avenue Parking Garage

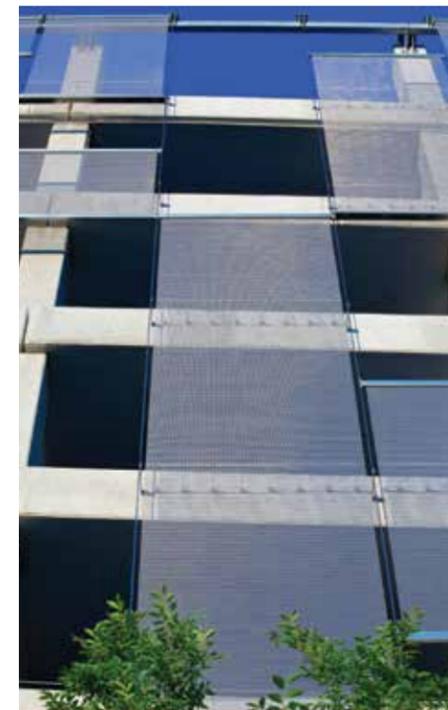
Columbus, Ohio

**Architect:** Acock Associates Architects, Columbus, Ohio  
Desman Associates, Cleveland, Ohio

**Contractor:** cHc Fabricators - Columbus, Ohio

**Owner:** The Ohio State University

**Cambridge System:** Mid-Balance Mesh  
Eclipse Attachment



### PROJECT

The Ohio State University's multi-level 1,400-space parking facility serves the central campus of this enormous university. Built for sustainability, the structure incentivizes eco-friendly drivers by providing low emission, fuel-efficient vehicle parking spaces on two levels.

### APPLICATION & BENEFITS

A complex pattern of metal mesh panels was incorporated into the façade design for both function—solar shading, fall protection and ventilation—and aesthetic. Suspended by cables, Cambridge's Mid-Balance mesh appears to float weightlessly on the exterior. At night, linear LED lights radiate an elegant glow.

The dynamic exterior cladding maximizes views and functions as a protective barrier while inviting expansive views and maximizing airflow.

*The architectural mesh's transparency created a visually lightweight and dramatic textural surface on the building during the day, and at night, the fabric was dense enough to reflect warm hued LED lighting integrated into the panel design.*

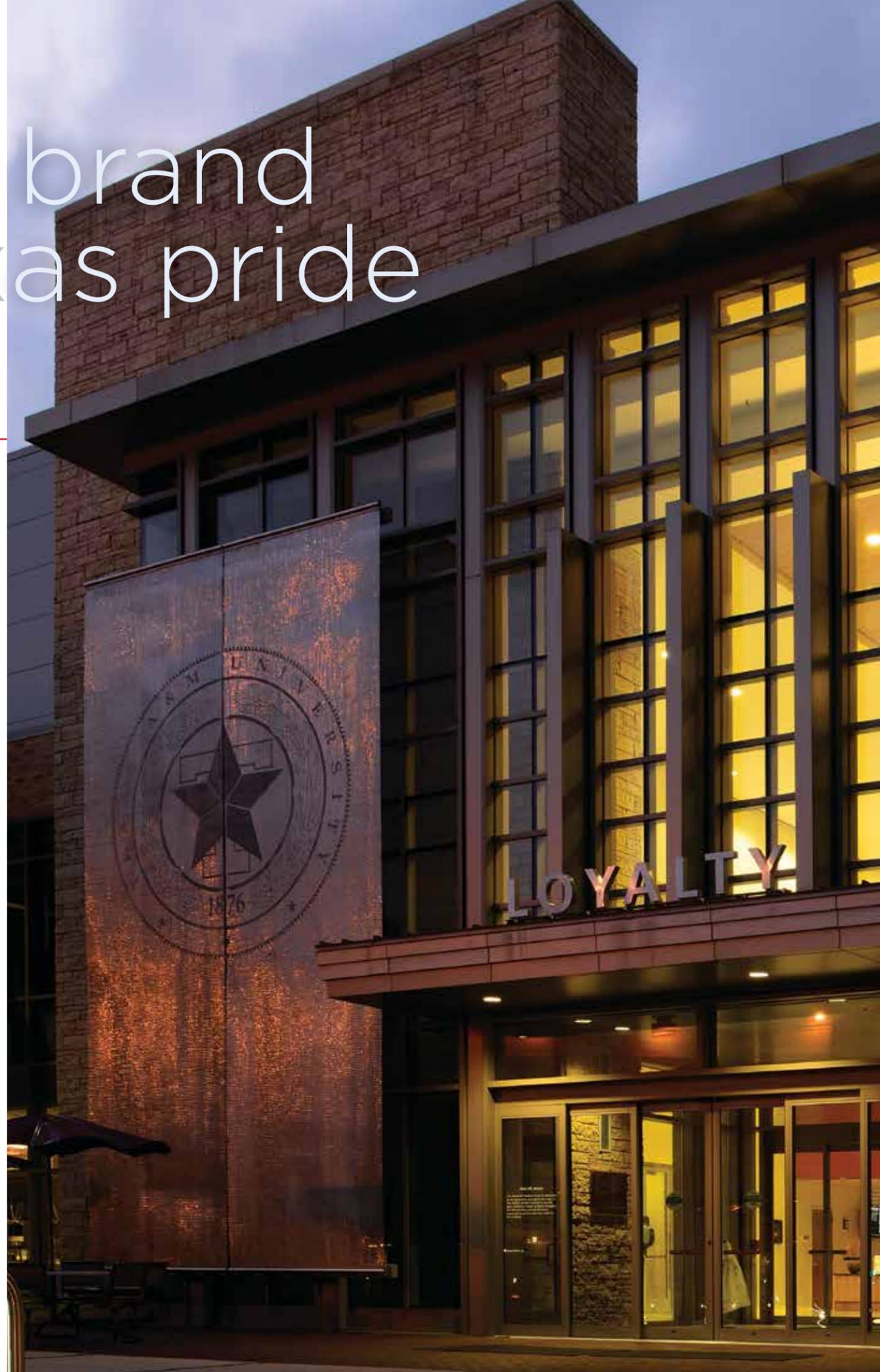
Pete Confar, Principal,  
Acock Associates  
Architects

# a new brand of Texas pride

## Texas A&M

University  
Memorial Student  
Center

**Architect:** Perkins+Will  
**Contractor:** Vaughn Construction,  
Houston, Texas  
**Installer:** Orozco Construction,  
Houston, Texas  
**Owner:** Texas A&M University  
**Cambridge System:** Graph Mesh  
Eclipse Attachment  
U Binding Railing Infill



*The function was key, but the aesthetic of the mesh was what drew us to Cambridge. The refinement the system brings to the student center is exactly what we hoped to achieve.*

Vance Cheatham  
Design Principal  
Perkins+Will Architects



### PROJECT

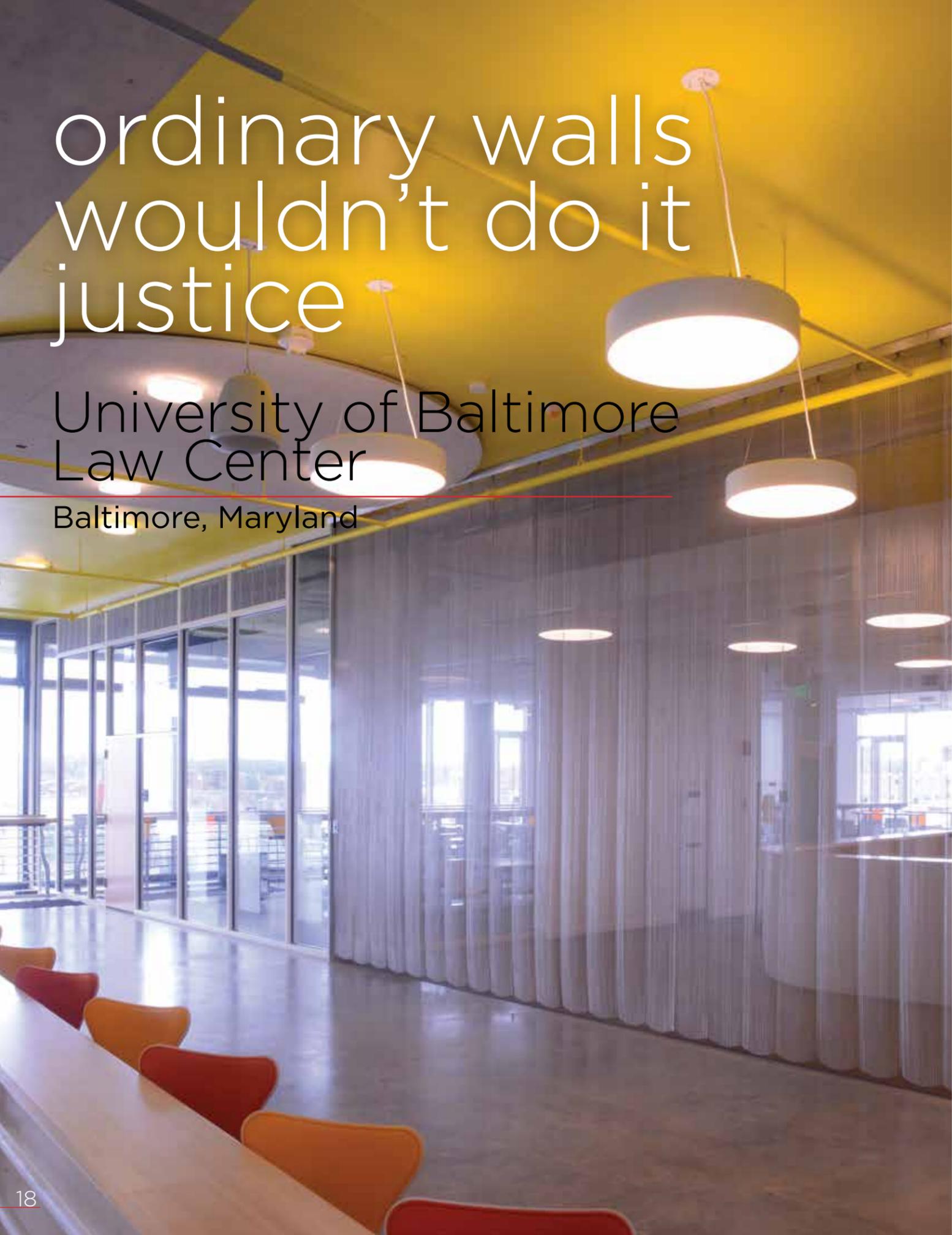
Living up to the reputation in Texas that bigger is better was no problem for Cambridge Architectural. To accomplish Perkins+Will's vision for a dramatic metal mesh entry into the magnificent Texas A&M University Memorial Student Center, Cambridge forged a revolutionary attachment system to execute the large-scale installation.

### APPLICATION & BENEFITS

Perkins+Will utilized Graph mesh throughout the project. For the building façade, Cambridge Architectural's Eclipse tension system secured the mesh to the structure in two enormous side-by-side panels, each over 27 feet in height. Cambridge also blast-etched the University's logo in the panels. The architect maintained continuity of design by incorporating the Graph mesh into the adjacent stairwell and balcony railing infill panels. The overall result is a beautiful yet functional use of metal mesh in U binding railing infills as an advanced building material element.

Perkins+Will designed the Texas A&M Memorial Student Center to be fully compliant with the Americans with Disabilities Act and to achieve LEED Silver standards.

Cambridge mesh was chosen for its high-quality appearance, sustainable features and fall-protection.



ordinary walls  
wouldn't do it  
justice

University of Baltimore  
Law Center  
Baltimore, Maryland

#### PROJECT

A striking 33' Shade mesh curtain designed and fabricated by Cambridge Architectural is a stunning centerpiece of the majestic John and Frances Angelos Law Center at the University of Baltimore. Commissioned by principal architect Behnisch Architekten to anchor the 7<sup>th</sup> floor lobby in the almost 200,000-square-foot landmark building. The stainless steel metal space divider is one of the two applications produced by Cambridge at the \$107 million Law Center.

#### APPLICATION & BENEFITS

Fabricated of Shade metal mesh and installed using Cambridge's pioneering curtain attachment system, the 771 sq. ft. curtain conveys an ethereal aesthetic while providing strength. The flexible, open pattern optimizes light and ventilation.

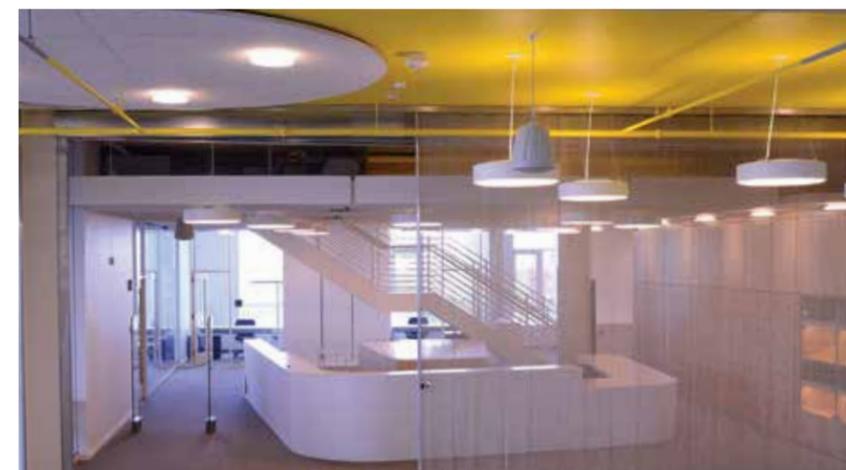
Designed also for ease of use, the mesh curtain moves smoothly and seamlessly along a concealed, ceiling mounted track. Cambridge developed a customized anchor system to secure the draped mesh to the rollers.

- Architect:** Behnisch Architekten, Boston, Massachusetts
- Contractor:** Whiting Turner, Baltimore
- Installer:** Commercial Interiors, Baltimore
- Owner:** University of Baltimore
- Cambridge System:** Shade Mesh Curtain Attachment



*We wanted a sustainable solution in a durable curtain application. Cambridge's stainless steel mesh satisfied these needs while exuding the elegant nature of a fabric curtain.*

Stefan Behnisch  
Partner,  
Behnisch Architekten



remaining

at the top  
of their game

## Topgolf

Multiple Locations

### PROJECT

Topgolf is the ultimate golf entertainment complex and the new Houston location (pictured here) is the company's largest and most impressive, with 102 driving range hitting bays on three levels and a sprawling layout of bars, eateries and meeting rooms covering 65,000 square feet. At night, the front of the facility is awash with color, highlighted with the bright blue Topgolf logo, making for a most inviting entrance.

### APPLICATION & BENEFITS

Panels of Cambridge Scale flexible mesh accent the building's exterior and are mounted to the structure using our Eclipse attachment system. The mesh and attachment material is made of stainless steel, making it ideal for outdoor use and the textured surface of the mesh itself reflects brilliantly the multi-color LED lighting beamed up against it.

**Architect:** Aria Group Architects,  
Oak Park, Illinois

**Contractor:** ARCO/Murray

**Installer:** Cambridge  
Architectural Mesh

**Owner:** Topgolf International

**Cambridge System:** Scale Mesh  
Eyebolt Attachment



*Cambridge was willing to help us create the exact design we wanted. The mesh serves a dual function, at night it creates the backdrop for a sophisticated light show, and during the day it protects an interior decorative stair from full sun exposure.*

Nicole Poole  
LEED AP, Project Designer,  
Aria Group Architects, Inc.



# wrapping science in steel



## Georgia BioScience Training Center

Social Circle, Georgia

<b>Architect:</b>	Cooper Carry, Atlanta
<b>Contractor:</b>	Whiting Turner, Atlanta
<b>Installer:</b>	Cambridge Architectural Mesh
<b>Owner:</b>	Georgia Quick Start, a division of Technical College System of Georgia
<b>Cambridge System:</b>	Lanier Mesh Matte Mesh Rigid-mesh-in-tension Eye-bolt Attachment

### PROJECT

The Georgia BioScience Training Center is a dynamic mixture of research facility, business incubator and workforce development. The Center's distinctive, high-tech design is a powerful recruitment tool for the state's growing bio-manufacturing industry.



### APPLICATION & BENEFITS

Clad with 149 custom-woven steel panels, Cambridge's architectural mesh creates a striking, futuristic façade. The metal mesh exterior envelope also shades interior lobbies, classrooms and laboratories from the Georgia sun.

Combining superior aesthetics with valuable energy savings, the Center also features Matte mesh curtains surrounding an open-air courtyard and conference room. At night, LED lights illuminate the mesh of the landmark building.

*We infused stainless steel into the exterior design to capture the performance benefits of shading while expressing the client's brand of a decidedly hi-tech facility. The mesh facets and plane changes provide a dynamic, crystalline aesthetic with ever changing shadows and reflections that suggest a sense of movement.*

Nathan Williamson, Cooper Carry

# Cambridge Systems

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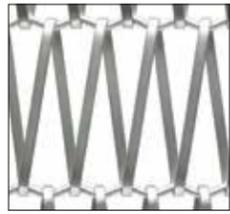
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Attachments	Page 49
Materials & Finishes	Page 54



Mesh	T304 (SS)	T316 (SS)	Alum	Brass	Bronze	Copper
Balance	●	●				
Bead	●	●		●	●	●
Braid	●	●				
Brick	●	●	●			
Channel	●	●		●	●	●
Chaos	●	●	●	●	●	●
Circuit	●	●		●	●	●
Cubist	●	●				
Diamond	●	●		●	●	●
Graph	●	●	●	●	●	●
Hashtag	●	●	●	●	●	●
Hudson	●	●				
Huron	●	●	●	●	●	●
Infinity	●	●		●	●	●
Kensico	●	●	●	●	●	●
Lanier	●	●	●	●	●	●
Matte	●	●				
Mid-Balance	●	●	●	●	●	●
Mid-Shade	●	●	●	●	●	●
Pellican	●	●				
Plait	●	●	●	●	●	●
Plank	●	●	●	●	●	●
Plaza	●	●		●	●	●
Range	●	●	●	●	●	●
Ridge	●	●	●	●	●	●
Ritz	●	●	●	●		
Sawgrass	●	●	●	●	●	●
Scale	●	●	●	●	●	●
Shade	●	●	●	●	●	●
Slink	●	●		●		
Stipple	●	●		●	●	●
Strand	●	●				
Stripe	●	●	●	●	●	●
Tailor	●	●		●		
Tartan	●	●	●	●	●	●
Thatch	●	●	●	●	●	●
Tidal	●	●		●	●	●
Tile	●	●	●	●	●	●
Timber	●	●	●	●	●	●
Tweed	●	●	●	●		
Villa	●	●	●	●	●	●

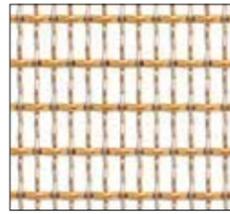
- Stock samples are available in stainless steel. Other options subject to availability.
- Custom material options available upon request.

BALANCE



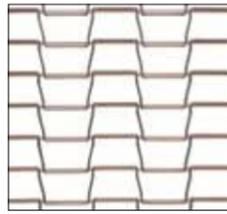
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BEAD



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BISCAYNE



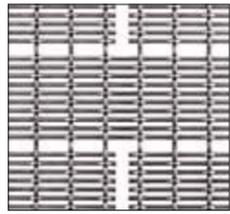
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BRAID



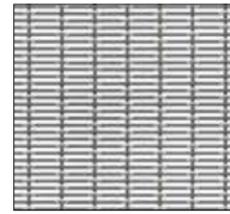
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BRICK



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RIDGE



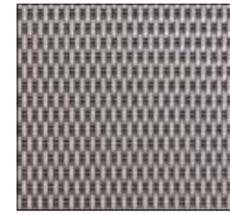
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RITZ



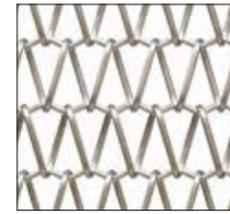
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SAWGRASS



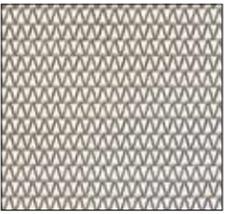
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SCALE



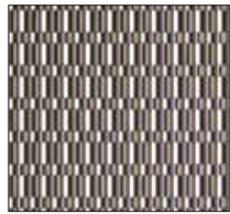
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SHADE



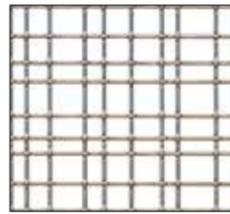
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CHANNEL



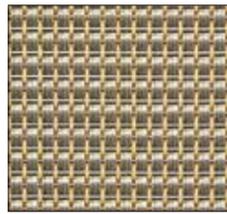
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CHAOS



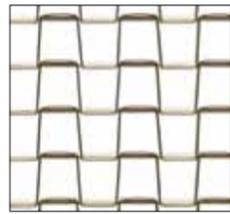
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CIRCUIT



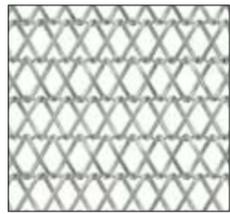
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CUBIST



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DIAMOND



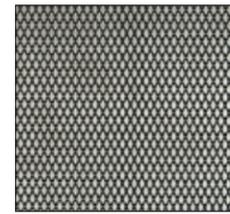
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SLINK



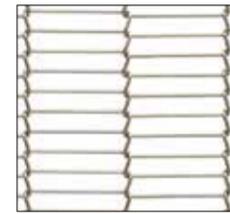
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STIPPLE



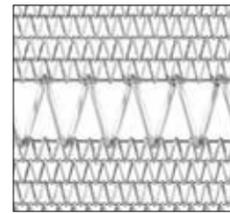
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STRAND



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STRIPE



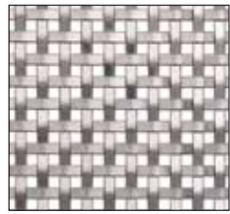
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TAILOR



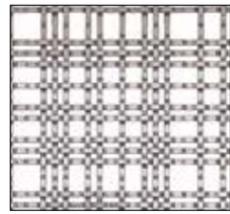
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GRAPH



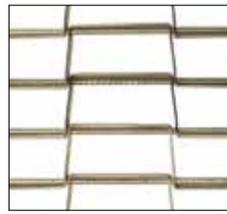
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HASHTAG



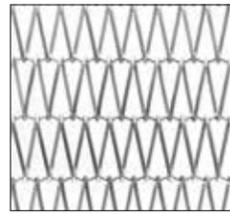
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HUDSON



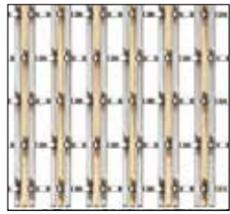
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HURON



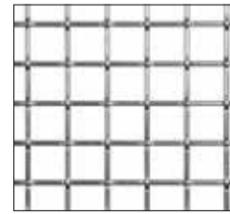
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INFINITY



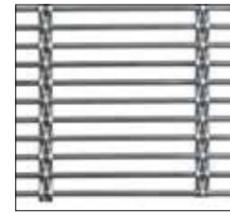
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TARTAN



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THATCH



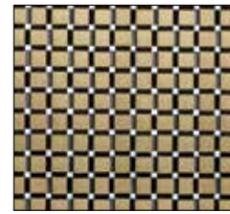
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TIDAL



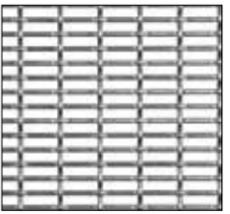
PAGE 45

TILE



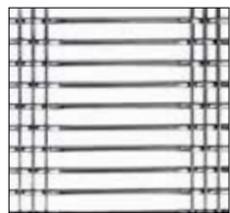
PAGE 46

TIMBER



PAGE 36

KENSICO



PAGE 34

LANIER



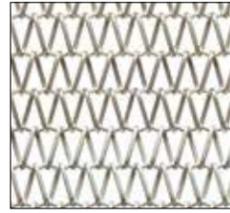
PAGE 35

MATTE



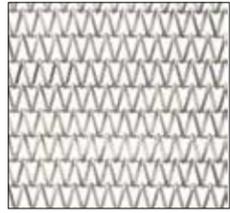
PAGE 35

MID-BALANCE



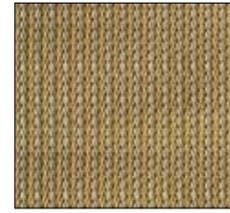
PAGE 31

MID-SHADE



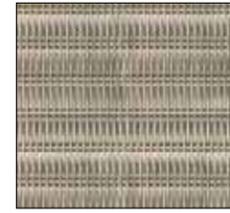
PAGE 30

TWEED



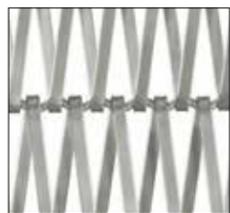
PAGE 43

VILLA



PAGE 48

PELLICAN



PAGE 28

PLAIT



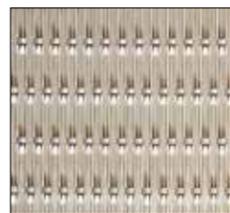
PAGE 38

PLANK



PAGE 36

PLAZA



PAGE 48

RANGE



PAGE 37

## Build-A-Pattern

*New service allows architects to create custom designs*

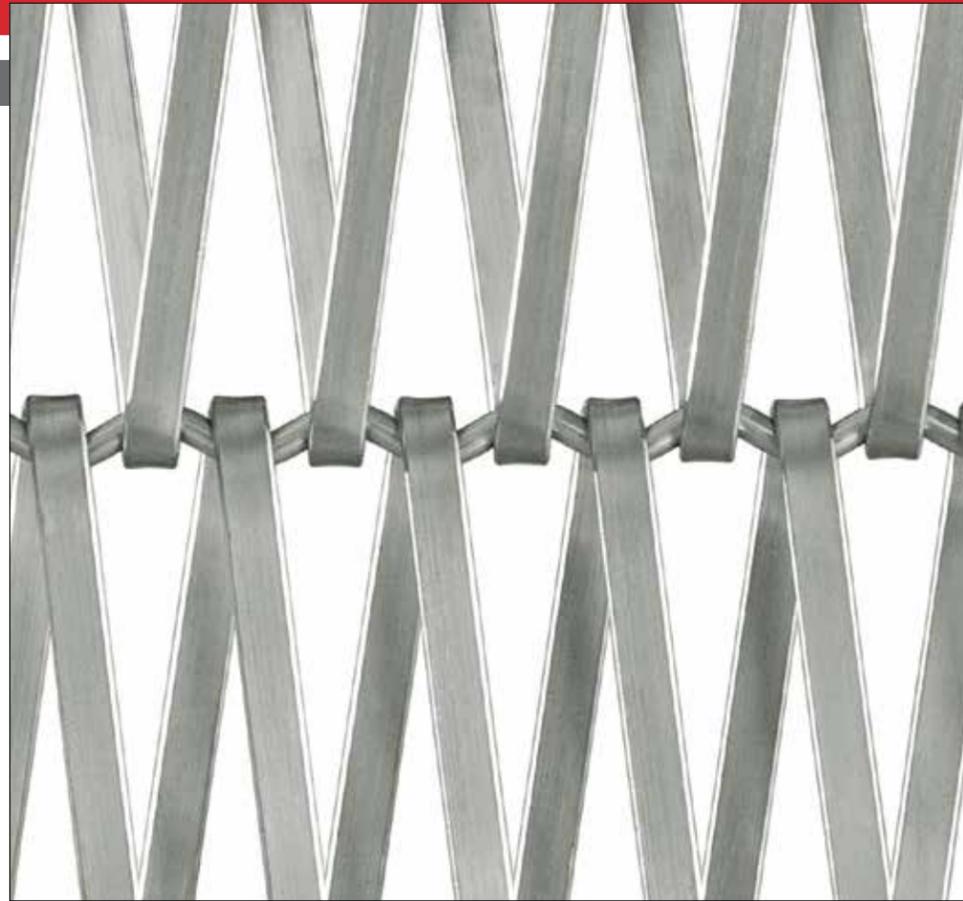
Developed in conjunction with architects looking to produce varying aesthetic and shade characteristics, Cambridge introduced Build-A-Pattern to allow designers the ability to configure customized patterns by weaving multiple woven wire mesh products. Integrating standard Cambridge patterns — for example those having tighter weaves with those featuring more open area — have created dramatic visual results on projects as varied as a pedestrian bridge at the Dallas Area Rapid Transit, Market Center Station, the facade of the West Career & Technical Academy in Las Vegas and The Universities at Shady Grove in Rockville, Maryland.

*What would you like to build?*

PELLICAN

FLEXIBLE MESH

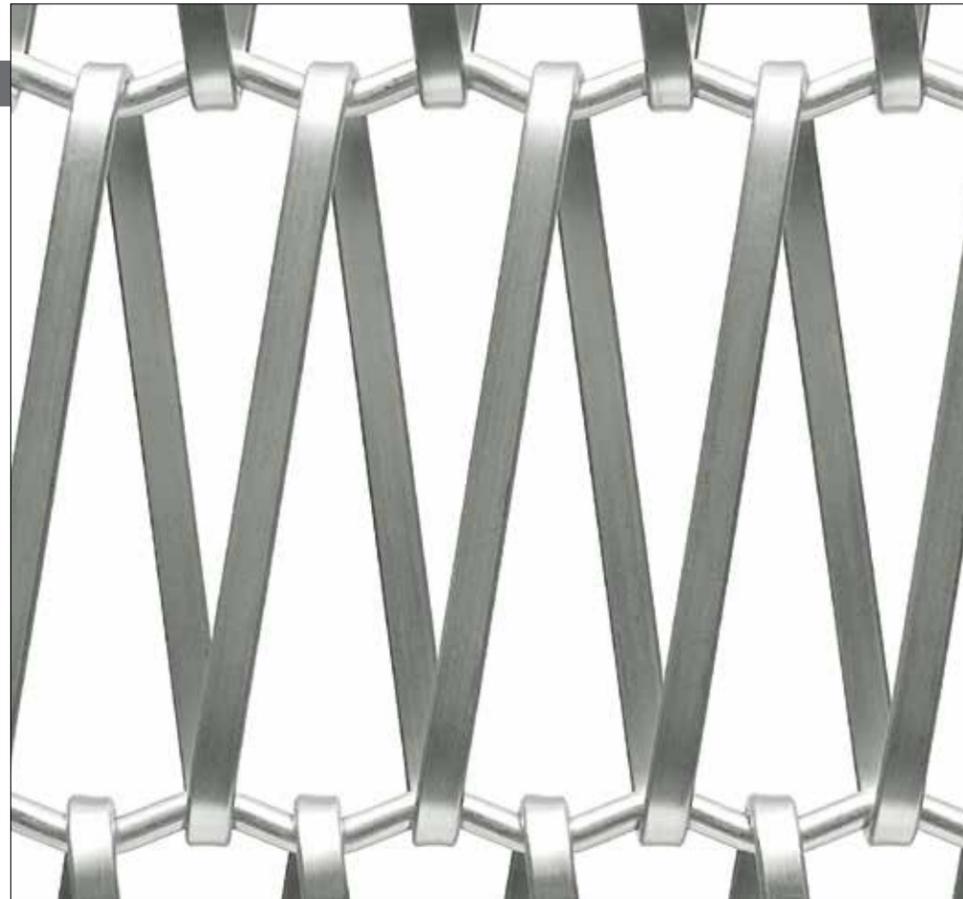
Open Area	29%	
Weight in SS	2.50 lbs/SF	12.21 kg/m2
Thickness	0.940 inches	23.9 mm
Max Width	240 inches	6.10 meters
Max Length	100 feet	30.48 meters
Width Tolerance	+/- 0.5 inches	+/- 13 mm
Length Tolerance	+/- 3 inches	+/- 76 mm



BALANCE

FLEXIBLE MESH

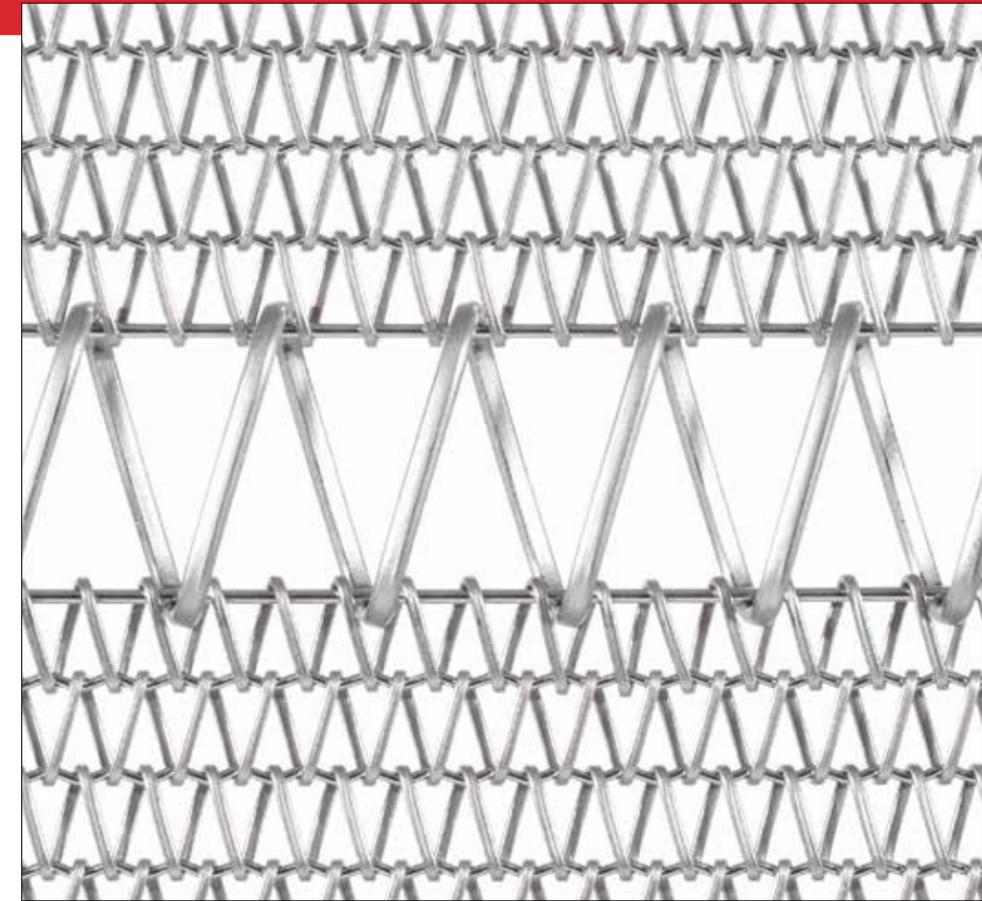
Open Area	52%	
Weight in SS	2.01 lbs/SF	9.81 kg/m2
Thickness	0.875 inches	22.2 mm
Max Width	240 inches	6.10 meters
Max Length	100 feet	30.48 meters
Width Tolerance	+/- 0.75 inches	+/- 19 mm
Length Tolerance	+/- 3 inches	+/- 76 mm



STRIPE®

FLEXIBLE MESH

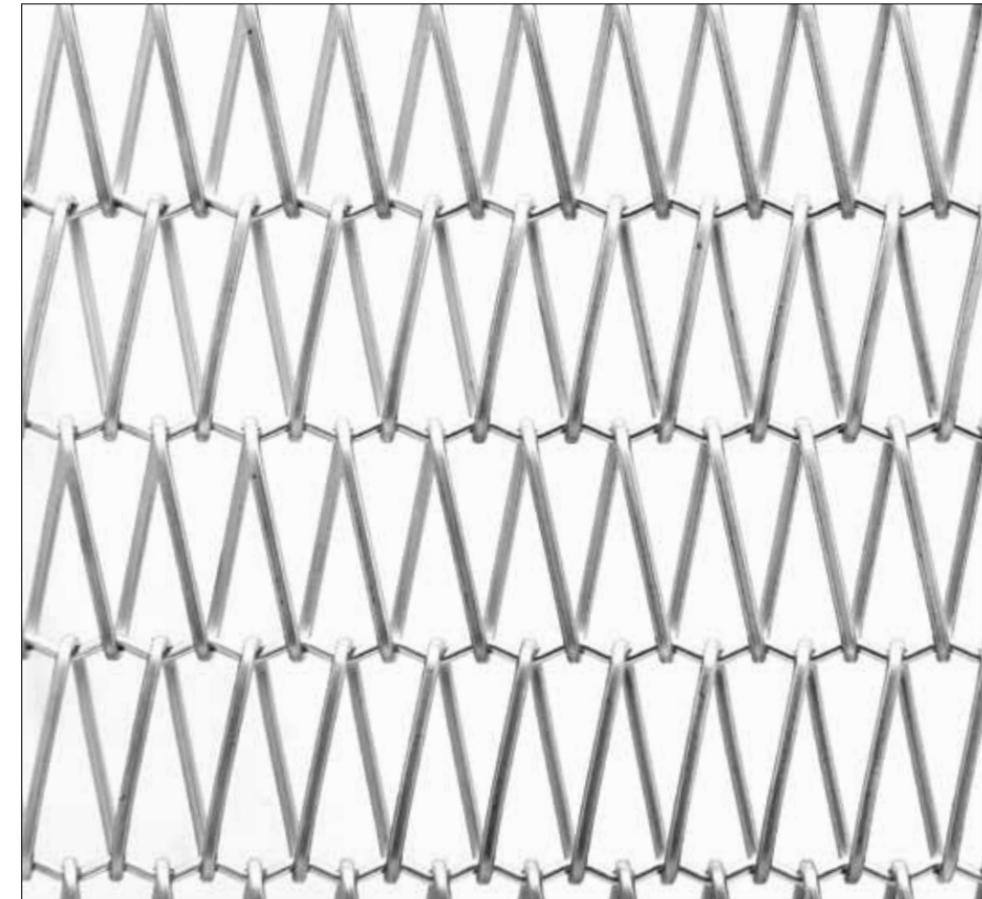
Open Area	46%	
Weight in SS	1.52 lbs/SF	7.43 kg/m2
Thickness	0.800 inches	20.3 mm
Max Width	240 inches	6.10 meters
Max Length	100 feet	30.48 meters
Width Tolerance	+/- 0.5 inches	+/- 13 mm
Length Tolerance	+/- 1 inch	+/- 25 mm



HURON

FLEXIBLE MESH

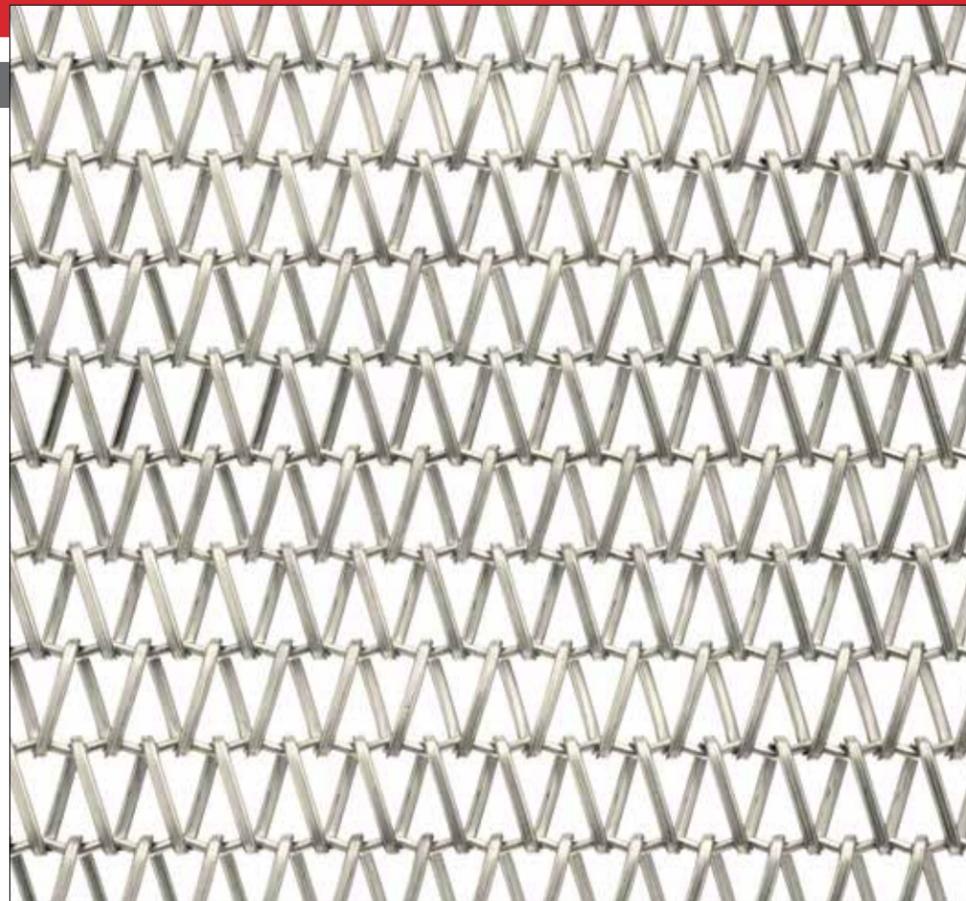
Open Area	55%	
Weight in SS	1.31 lbs/SF	6.40 kg/m2
Thickness	0.350 inches	8.89 mm
Max Width	240 inches	6.10 meters
Max Length	100 feet	30.48 meters
Width Tolerance	+/- 0.5 inches	+/- 13 mm
Length Tolerance	+/- 1 inch	+/- 25 mm



MID-SHADE

FLEXIBLE MESH

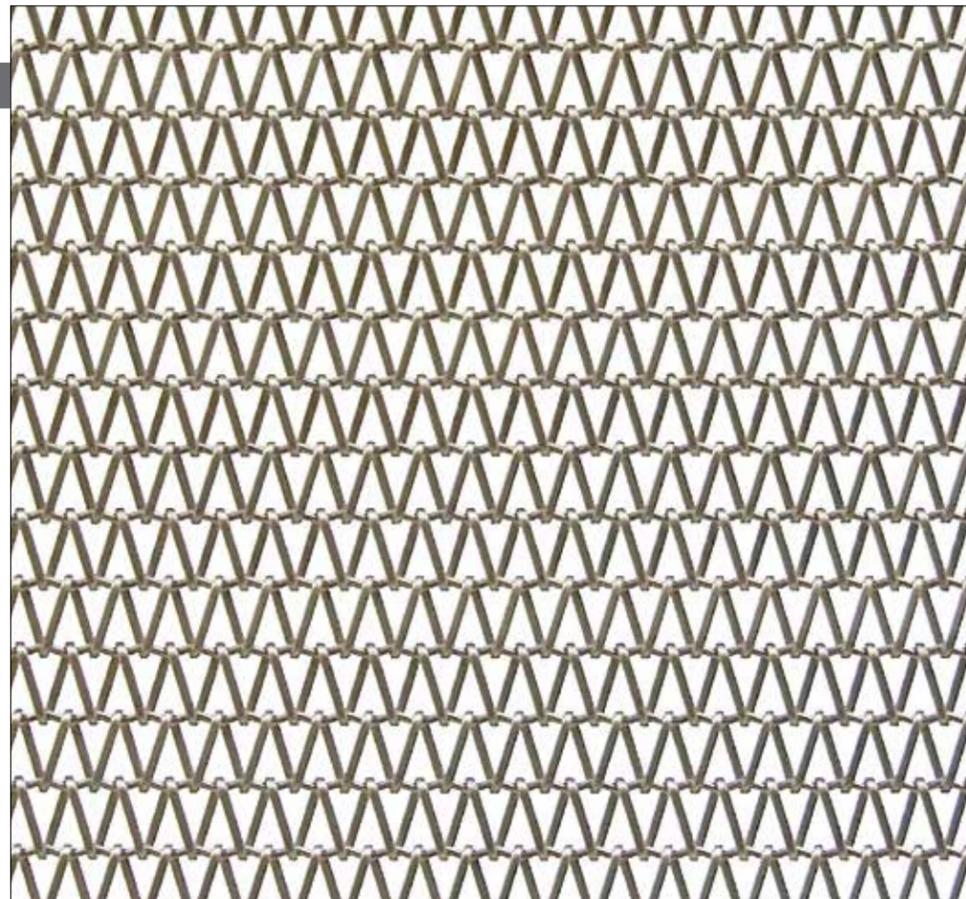
Open Area	42%	
Weight in SS	1.40 lbs/SF	6.84 kg/m2
Thickness	0.252 inches	6.4 mm
Max Width	240 inches	6.10 meters
Max Length	100 feet	30.48 meters
Width Tolerance	+/- 0.5 inches	+/- 13 mm
Length Tolerance	+/- 1 inch	+/- 25 mm



SHADE

FLEXIBLE MESH

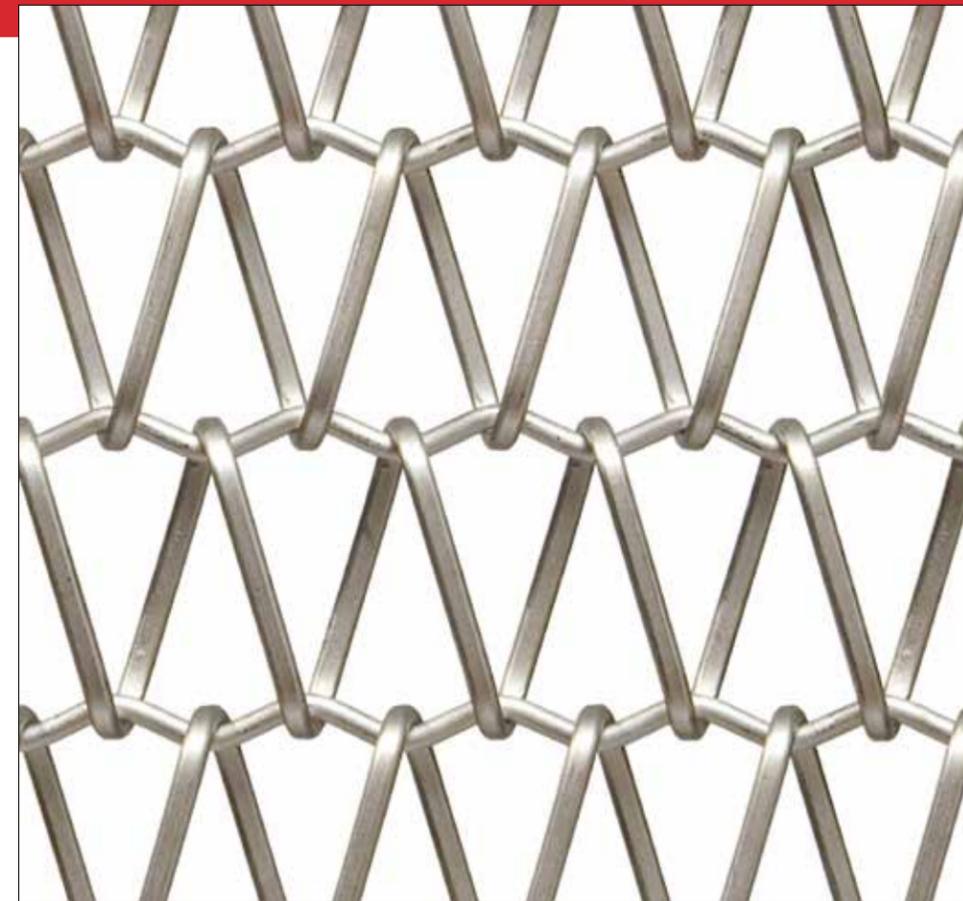
Open Area	41%	
Weight in SS	0.94 lbs/SF	4.59 kg/m2
Thickness	0.168 inches	4.3 mm
Max Width	180 inches	4.57 meters
Max Length	100 feet	30.48 meters
Width Tolerance	+/- 0.375 inches	+/- 10 mm
Length Tolerance	+/- 0.375 inches	+/- 10 mm



SCALE

FLEXIBLE MESH

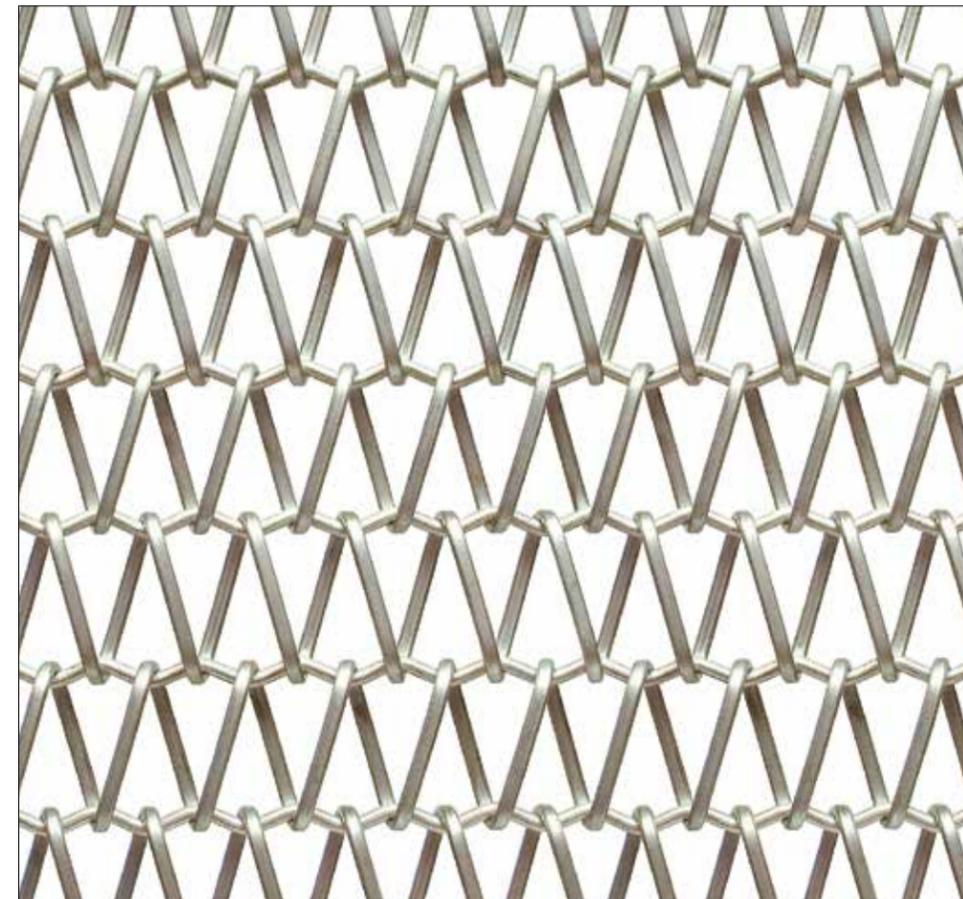
Open Area	59%	
Weight in SS	1.94 lbs/SF	9.47 kg/m2
Thickness	0.800 inches	20.3 mm
Max Width	240 inches	6.10 meters
Max Length	100 feet	30.48 meters
Width Tolerance	+/- 0.5 inches	+/- 13 mm
Length Tolerance	+/- 1 inch	+/- 25 mm



MID-BALANCE

FLEXIBLE MESH

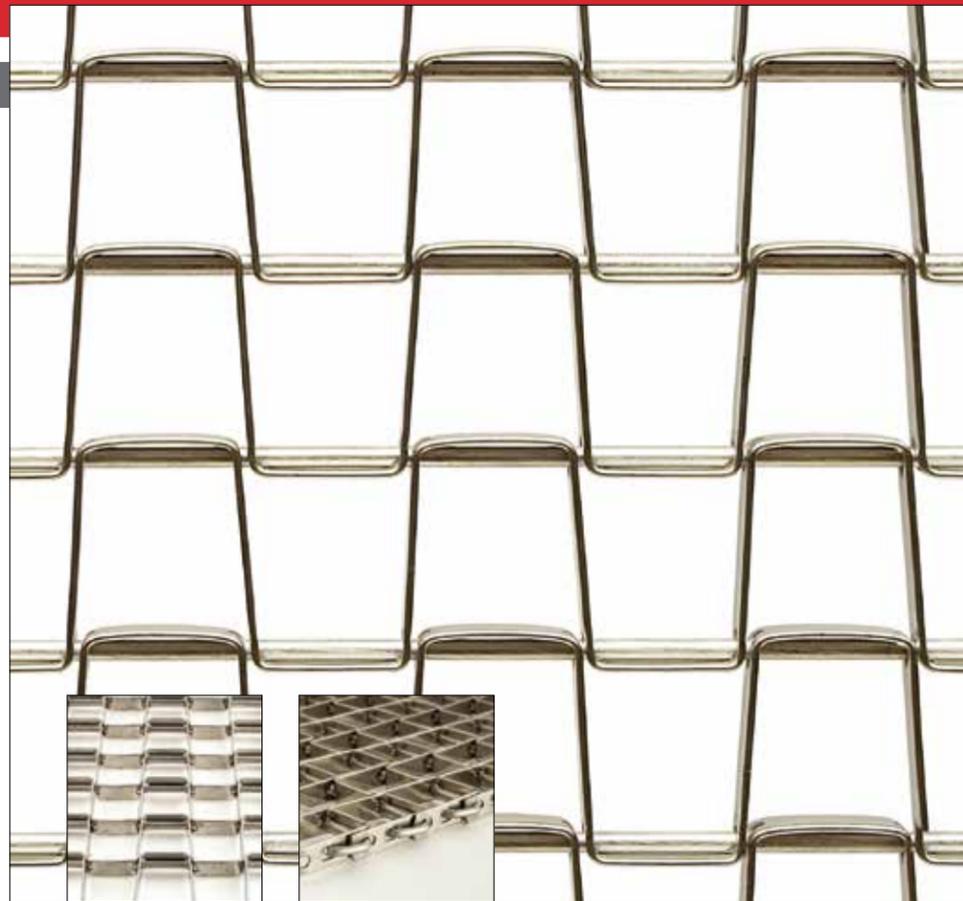
Open Area	50%	
Weight in SS	1.57 lbs/SF	7.67 kg/m2
Thickness	0.304 inches	7.7 mm
Max Width	240 inches	6.10 meters
Max Length	100 feet	30.48 meters
Width Tolerance	+/- 0.5 inches	+/- 13 mm
Length Tolerance	+/- 1 inch	+/- 25 mm



CUBIST

FLEXIBLE MESH

Open Area	80%	
Weight in SS	1.81 lbs/SF	8.84 kg/m2
Thickness	0.375 inches	9.5 mm
Max Width	240 inches	6.10 meters
Max Length	100 feet	30.48 meters
Width Tolerance	+/- 1 inch	+/- 25 mm
Length Tolerance	+/- 1 inch	+/- 25 mm



3-D VIEW

3-D VIEW

HUDSON

FLEXIBLE MESH

Open Area	82%	
Weight in SS	1.46 lbs/SF	7.13 kg/m2
Thickness	0.375 inches	9.5 mm
Max Width	120 inches	3.05 meters
Max Length	100 feet	30.48 meters
Width Tolerance	+/- 2 inches	+/- 51 mm
Length Tolerance	+/- 1 inch	+/- 25 mm



BISCAYNE

FLEXIBLE MESH

Open Area	78%	
Weight in SS	0.80 lbs/SF	3.91 kg/m2
Thickness	0.162 inches	4.11 mm
Max Width	120 inches	3.05 meters
Max Length	100 feet	30.48 meters
Width Tolerance	+/- 0.75 inches	+/- 19 mm
Length Tolerance	+/- 0.5 inches	+/- 13 mm



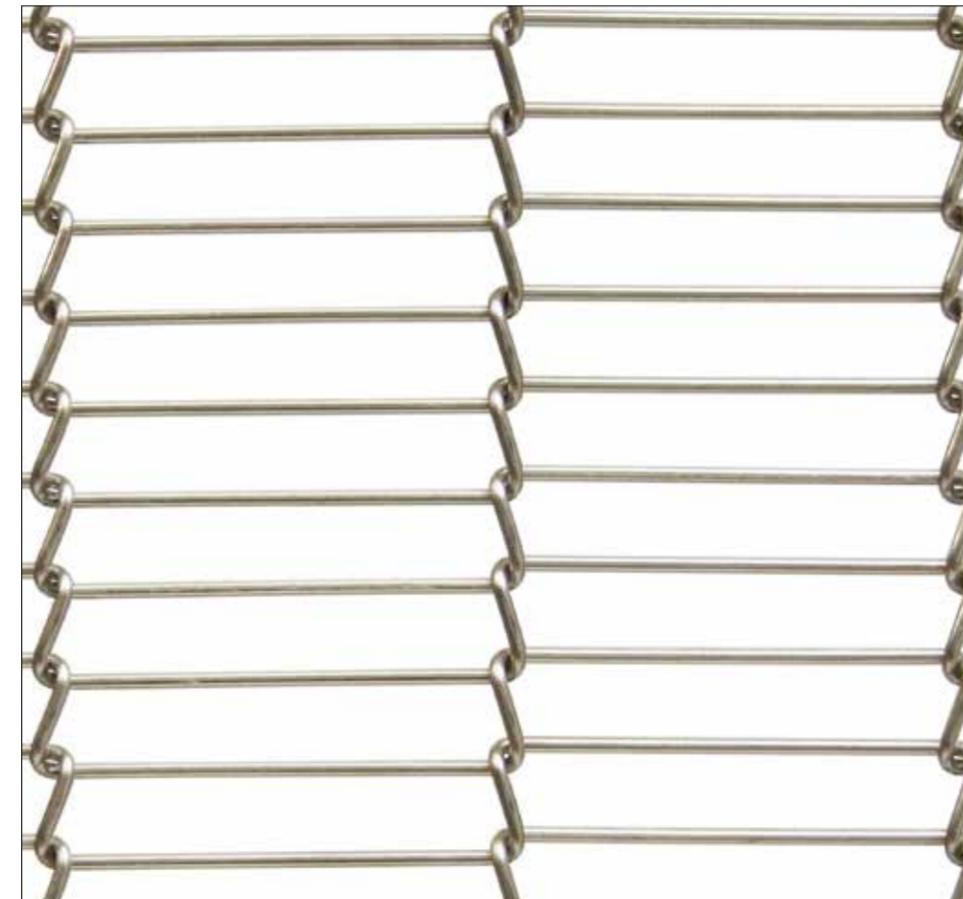
3-D VIEW

3-D VIEW

STRAND

FLEXIBLE MESH

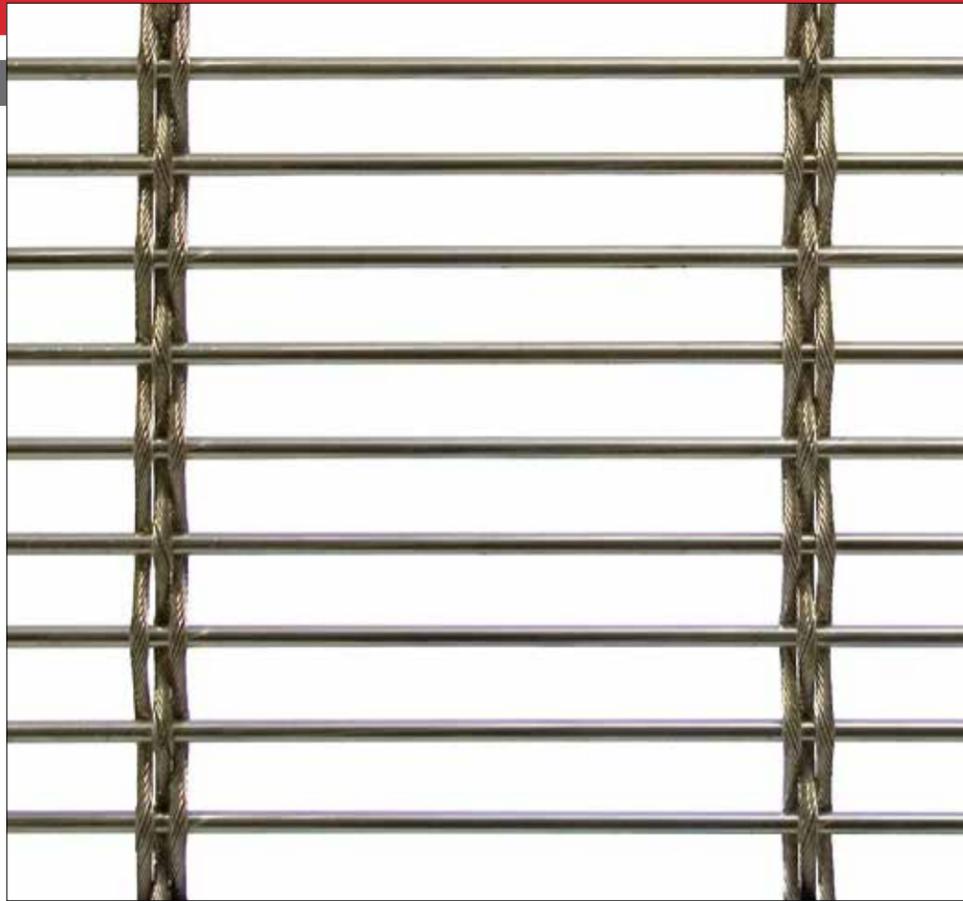
Open Area	76%	
Weight in SS	0.75 lbs/SF	3.66 kg/m2
Thickness	.240 inches	6.1 mm
Max Width	144 inches	3.66 meters
Max Length	100 feet	30.48 meters
Width Tolerance	+/- 0.5 inches	+/- 13 mm
Length Tolerance	+/- 1 inch	+/- 25 mm



BRAID

FLEXIBLE MESH

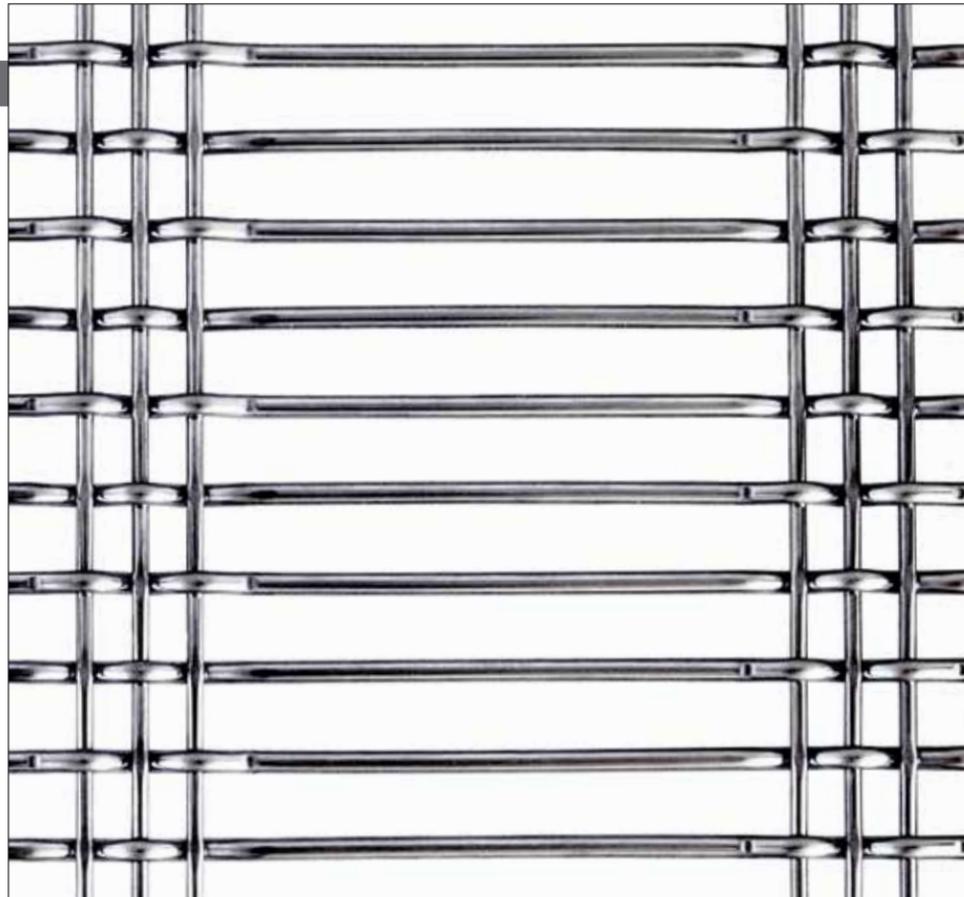
Open Area	65%	
Weight in SS	1.80 lbs/SF	8.79 kg/m2
Thickness	0.375 inches	9.5 mm
Max Width	240 inches	6.10 meters
Max Length	100 feet	30.48 meters
Width Tolerance	+/- 0.5 inches	+/- 13 mm
Length Tolerance	+/- 1 inch	+/- 25 mm



KENSICO

RIGID MESH

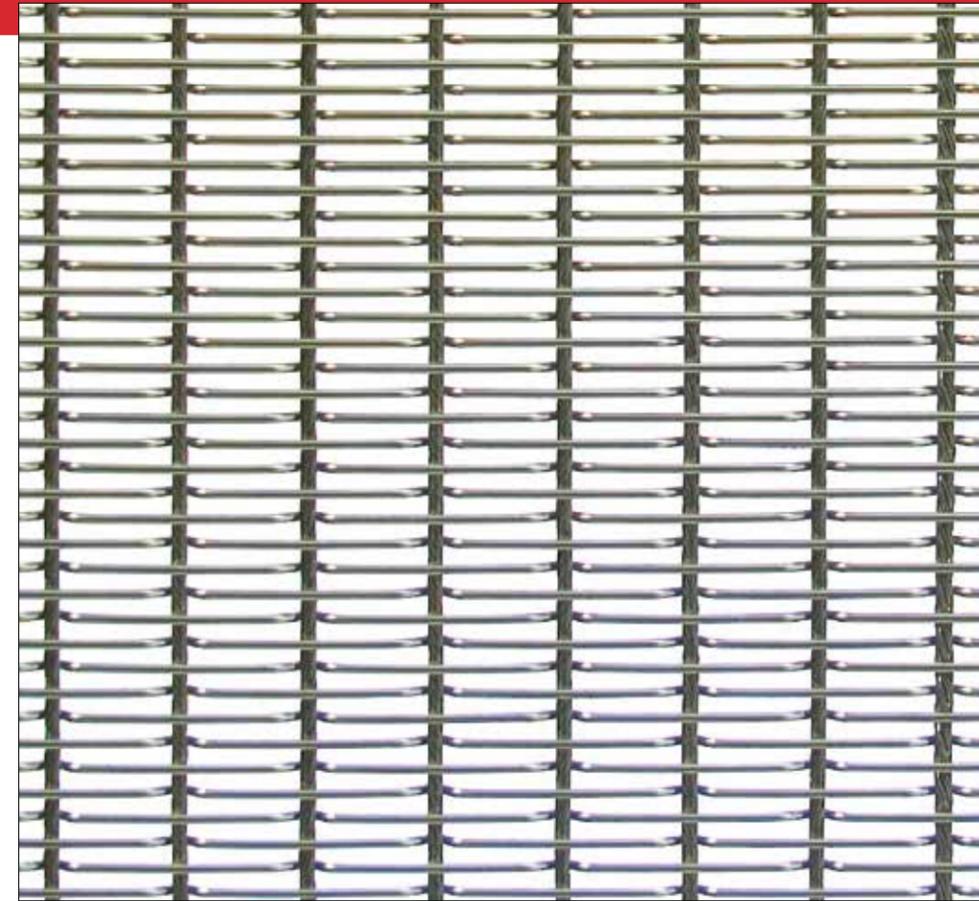
Open Area	66%	
Weight in SS	1.32 lbs/SF	6.44 kg/m2
Thickness	0.332 inches	8.4 mm
Max Width	116 inches	2.94 meters
Max Length	50 feet	15.24 meters
Width Tolerance	+/- 0.25 inches	+/- 6 mm
Length Tolerance	+/- 0.5 inches	+/- 13 mm



MATTE

FLEXIBLE MESH

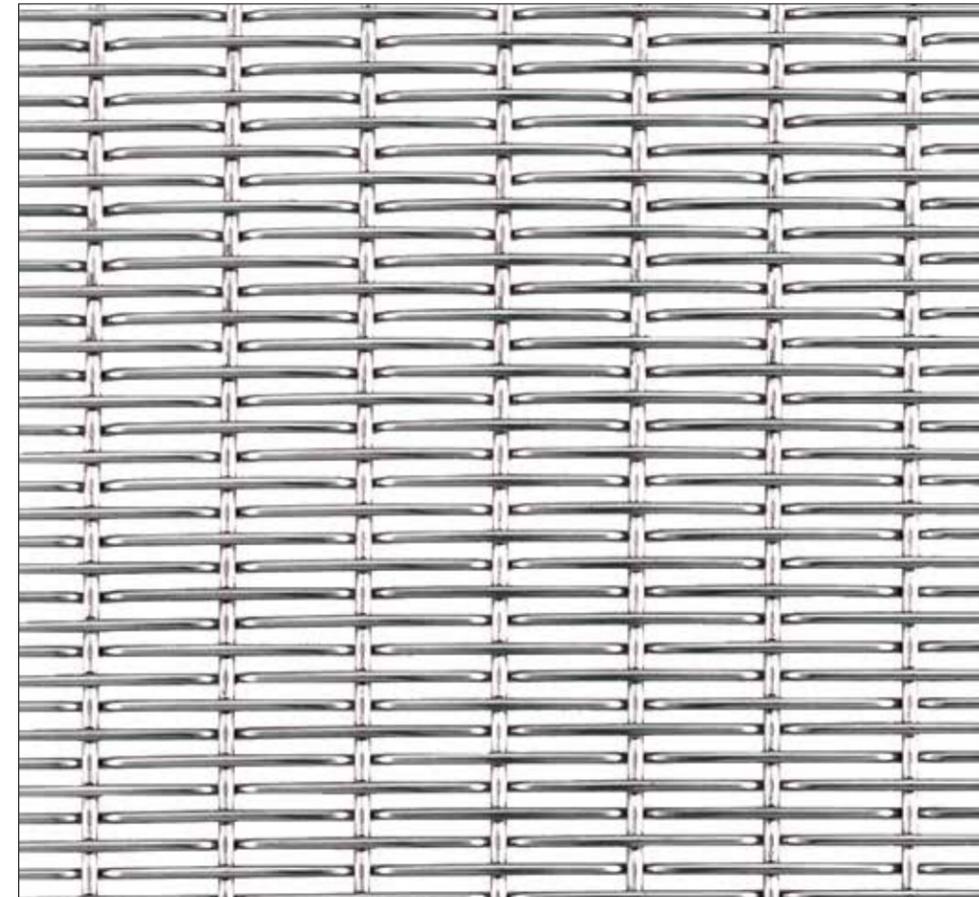
Open Area	50%	
Weight in SS	1.06 lbs/SF	5.18 kg/m2
Thickness	0.177 inches	4.5 mm
Max Width	216 inches	5.49 meters
Max Length	100 feet	30.48 meters
Width Tolerance	+/- 0.25 inches	+/- 6 mm
Length Tolerance	+/- 0.5 inches	+/- 13 mm



LANIER

RIGID MESH

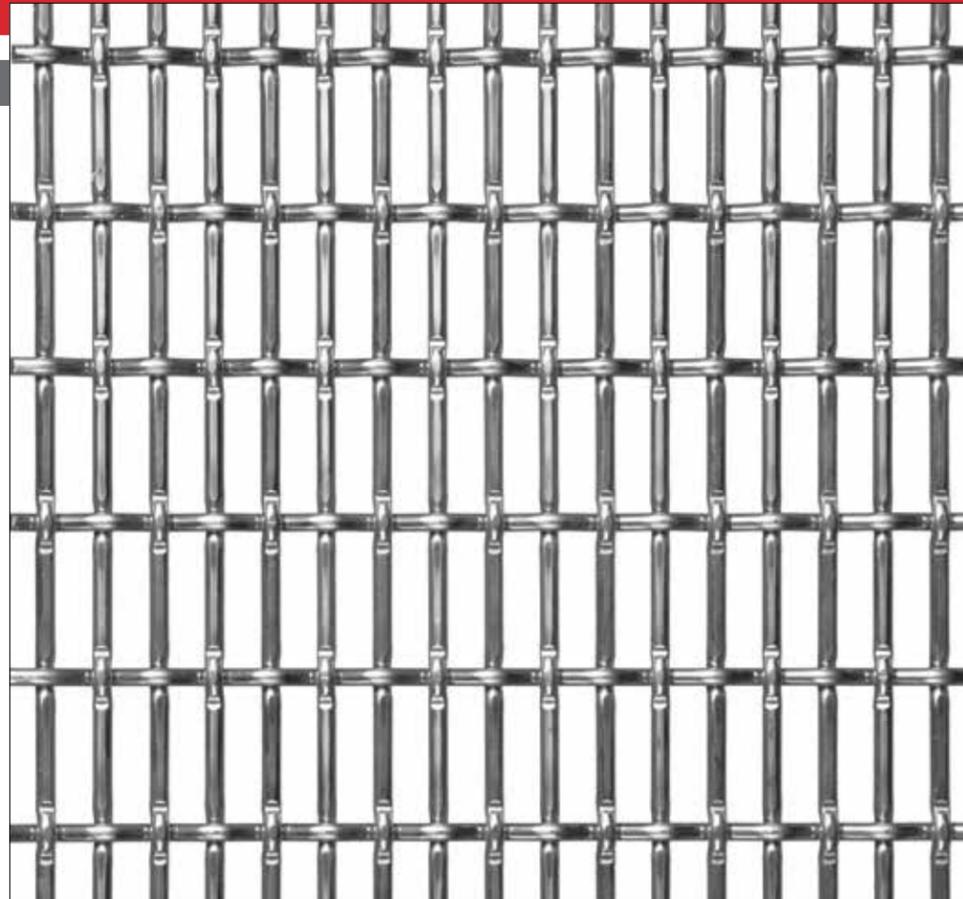
Open Area	48%	
Weight in SS	1.28 lbs/SF	6.25 kg/m2
Thickness	0.182 inches	4.6 mm
Max Width	116 inches	2.94 meters
Max Length	50 feet	15.24 meters
Width Tolerance	+/- 0.25 inches	+/- 6 mm
Length Tolerance	+/- 0.5 inches	+/- 13 mm



TIMBER

RIGID MESH

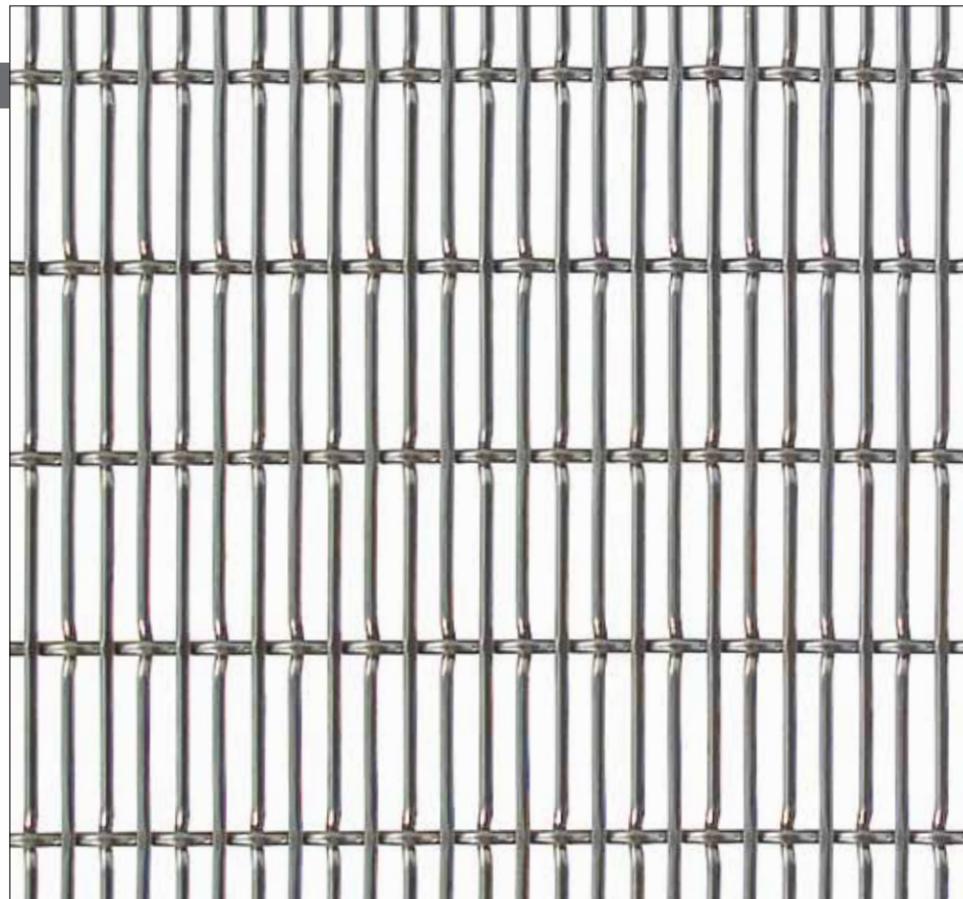
Open Area	58%	
Weight in SS	1.58 lbs/SF	7.71 kg/m2
Thickness	0.200 inches	5.1 mm
Max Width	116 inches	2.94 meters
Max Length	50 feet	15.24 meters
Width Tolerance	+/- 0.25 inches	+/- 6 mm
Length Tolerance	+/- 0.375 inches	+/- 10 mm



PLANK

RIGID MESH

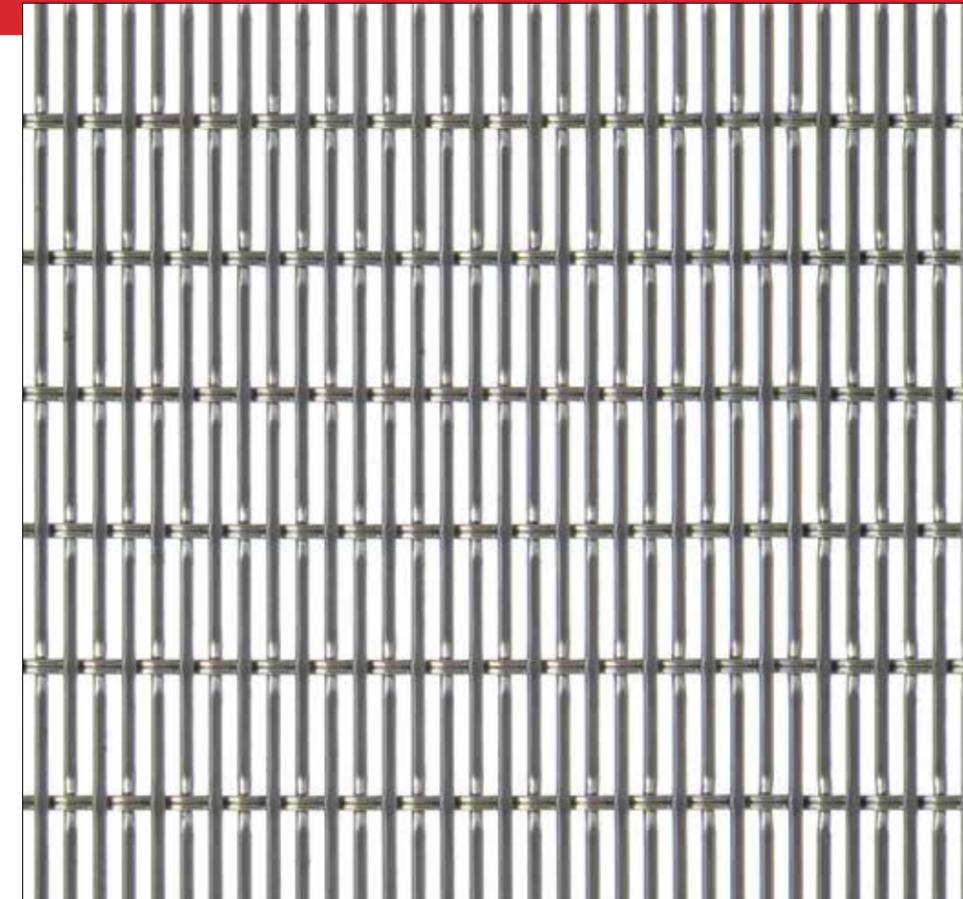
Open Area	56%	
Weight in SS	1.30 lbs/SF	6.35 kg/m2
Thickness	0.164 inches	4.2 mm
Max Width	116 inches	2.94 meters
Max Length	50 feet	15.24 meters
Width Tolerance	+/- 0.25 inches	+/- 6 mm
Length Tolerance	+/- 0.25 inches	+/- 6 mm



RIDGE

RIGID MESH

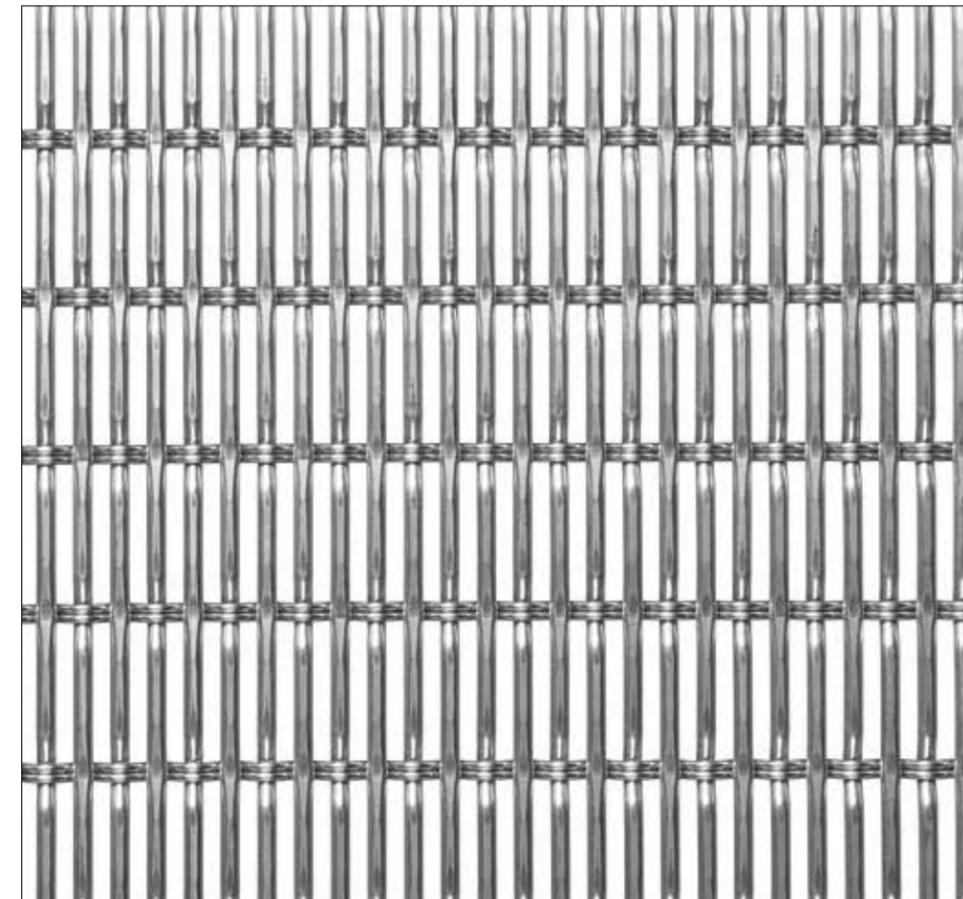
Open Area	40%	
Weight in SS	1.48 lbs/SF	7.23 kg/m2
Thickness	0.130 inches	3.3 mm
Max Width	116 inches	2.94 meters
Max Length	50 feet	15.24 meters
Width Tolerance	+/- 0.25 inches	+/- 6 mm
Length Tolerance	+/- 0.25 inches	+/- 6 mm



RANGE

RIGID MESH

Open Area	42%	
Weight in SS	2.08 lbs/SF	10.16 kg/m2
Thickness	0.174 inches	4.4 mm
Max Width	116 inches	2.94 meters
Max Length	50 feet	15.24 meters
Width Tolerance	+/- 0.25 inches	+/- 6 mm
Length Tolerance	+/- 0.25 inches	+/- 6 mm



THATCH

RIGID MESH

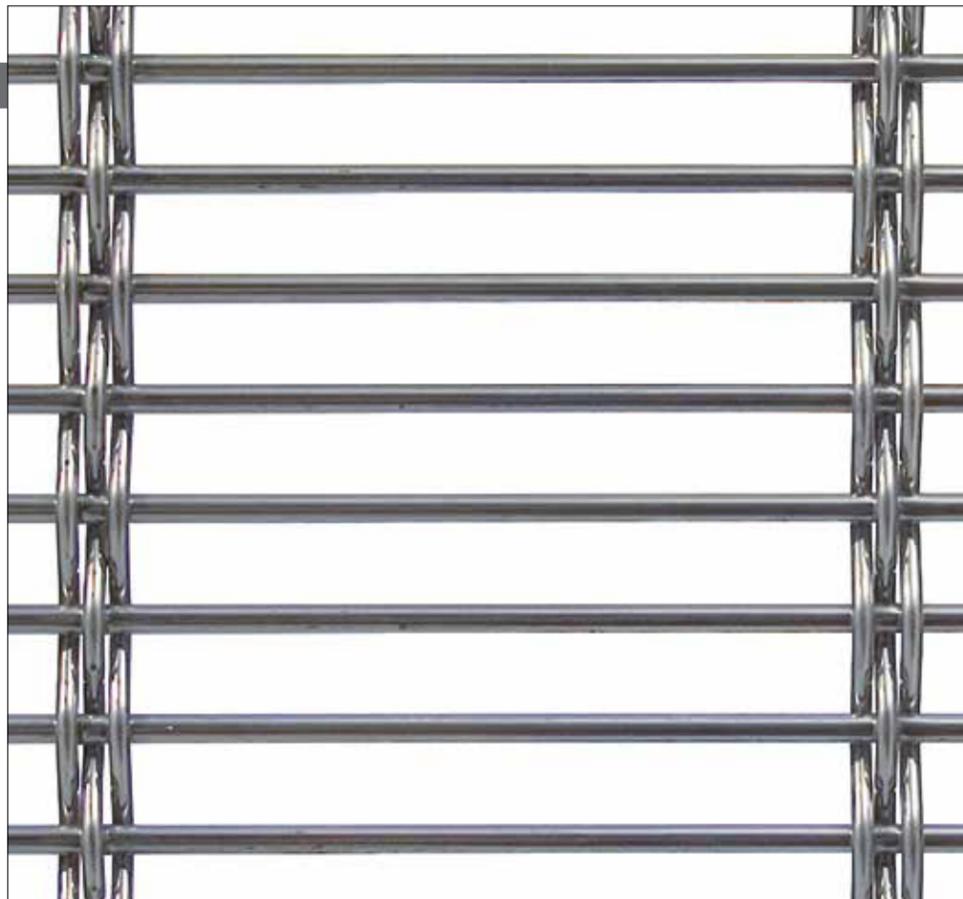
Open Area	62%	
Weight in SS	1.50 lbs/SF	7.32 kg/m2
Thickness	.265 inches	6.7 mm
Max Width	240 inches	6.10 meters
Max Length	10 feet	3.05 meters
Width Tolerance	+/- 0.25 inches	+/- 6 mm
Length Tolerance	+/- 0.5 inches	+/- 13 mm



PLAIT

RIGID MESH

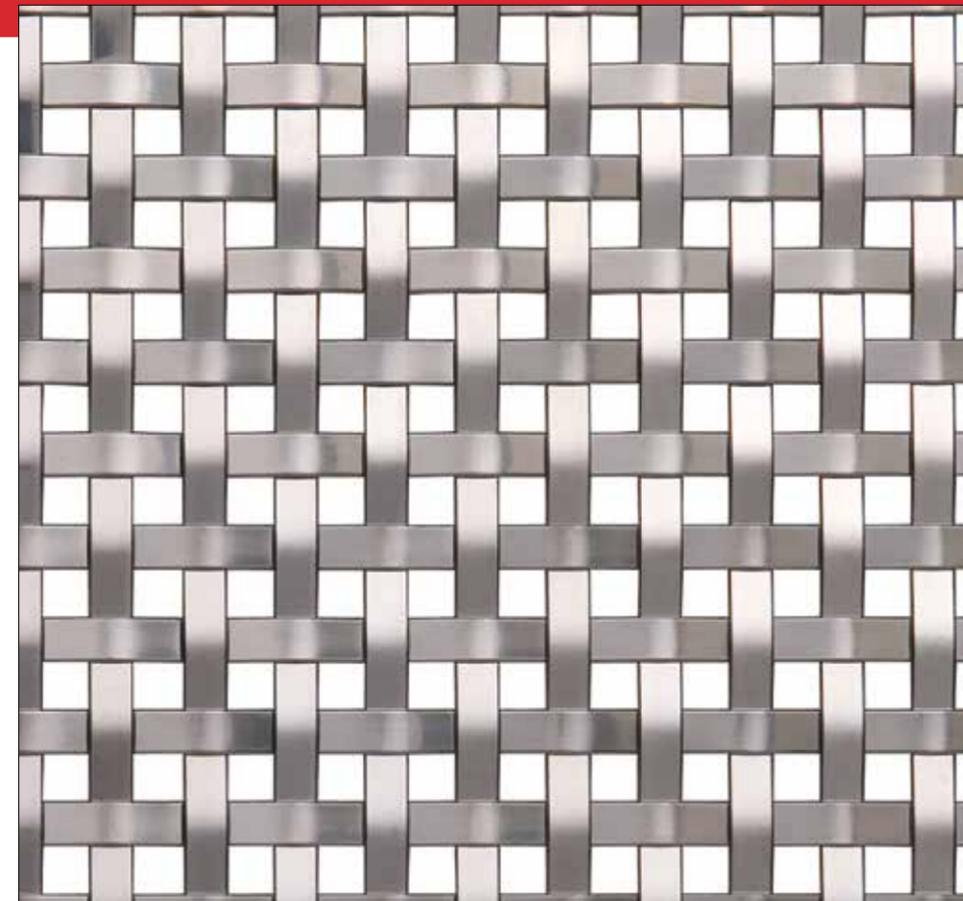
Open Area	64%	
Weight in SS	1.80 lbs/SF	8.79 kg/m2
Thickness	0.370 inches	9.4 mm
Max Width	240 inches	6.10 meters
Max Length	10 feet	3.05 meters
Width Tolerance	+/- 0.25 inches	+/- 6 mm
Length Tolerance	+/- 0.5 inches	+/- 13 mm



GRAPH

RIGID MESH

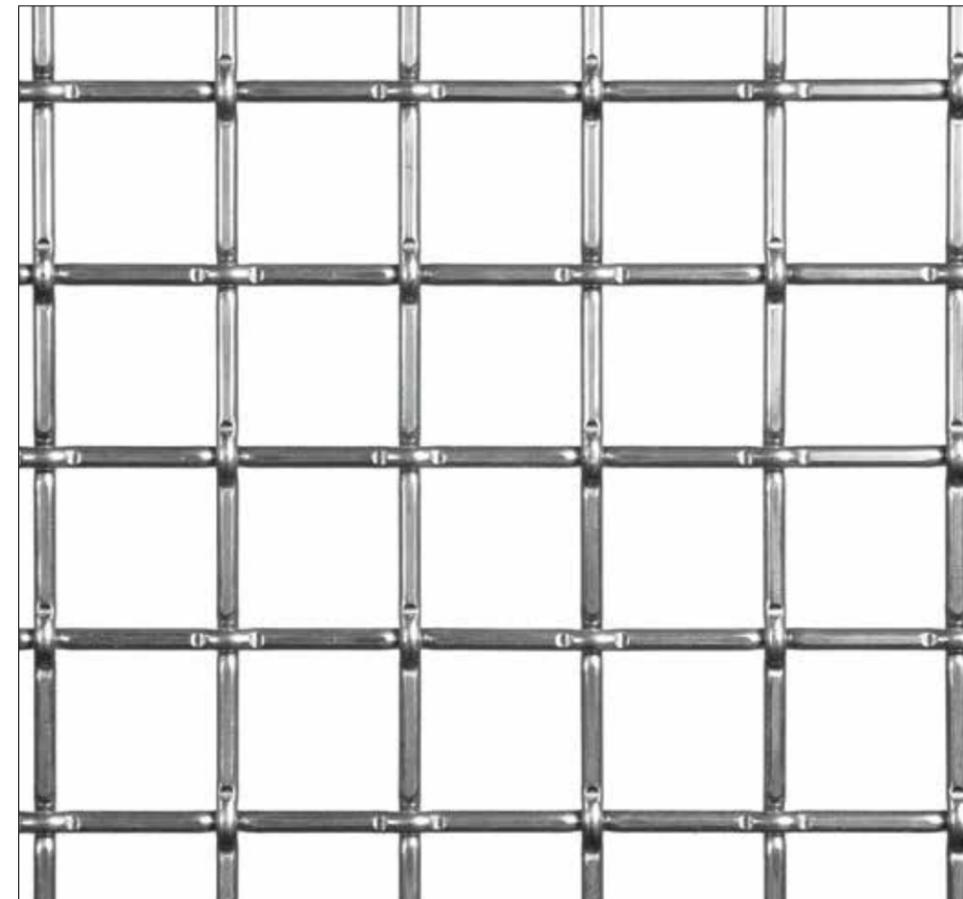
Open Area	25%	
Weight in SS	1.90 lbs/SF	9.28 kg/m2
Thickness	0.105 inches	2.7 mm
Max Width	116 inches	2.94 meters
Max Length	50 feet	15.24 meters
Width Tolerance	+/- 0.25 inches	+/- 6 mm
Length Tolerance	+/- 0.25 inches	+/- 6 mm



TARTAN

RIGID MESH

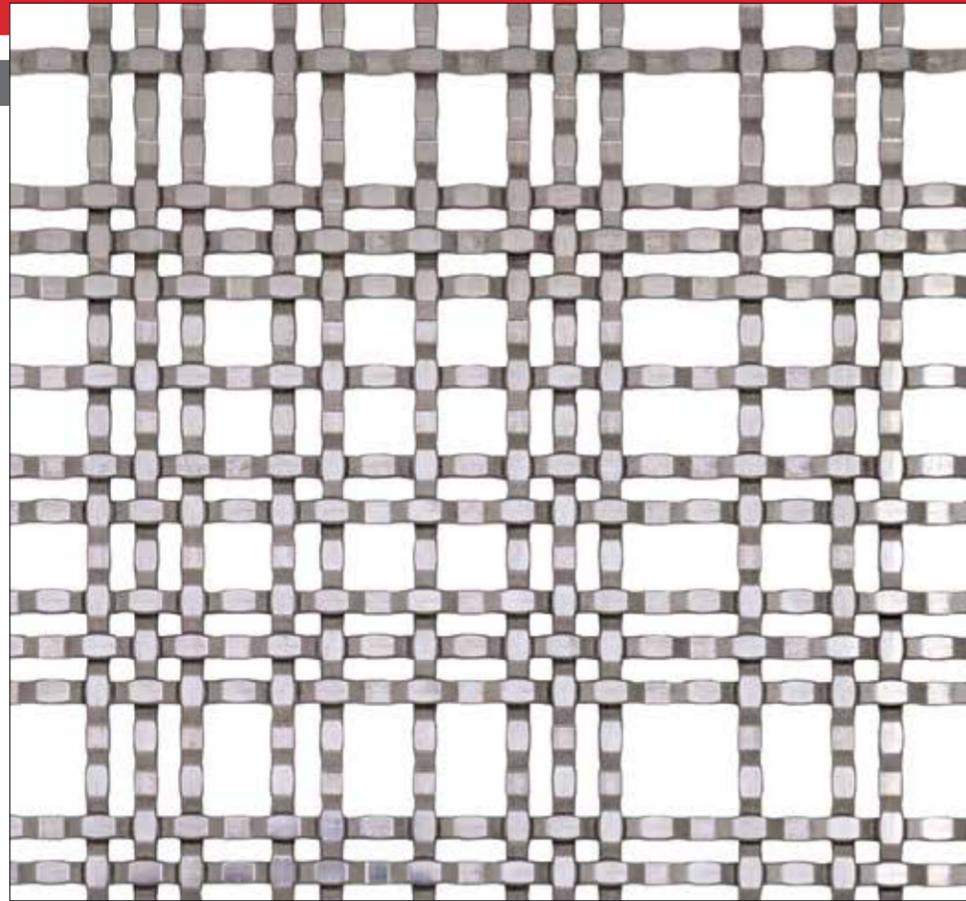
Open Area	77%	
Weight in SS	1.00 lbs/SF	4.88 kg/m2
Thickness	.240 inches	6.1 mm
Max Width	116 inches	2.94 meters
Max Length	50 feet	15.24 meters
Width Tolerance	+/- 0.25 inches	+/- 6 mm
Length Tolerance	+/- 0.25 inches	+/- 6 mm



HASHTAG

RIGID MESH

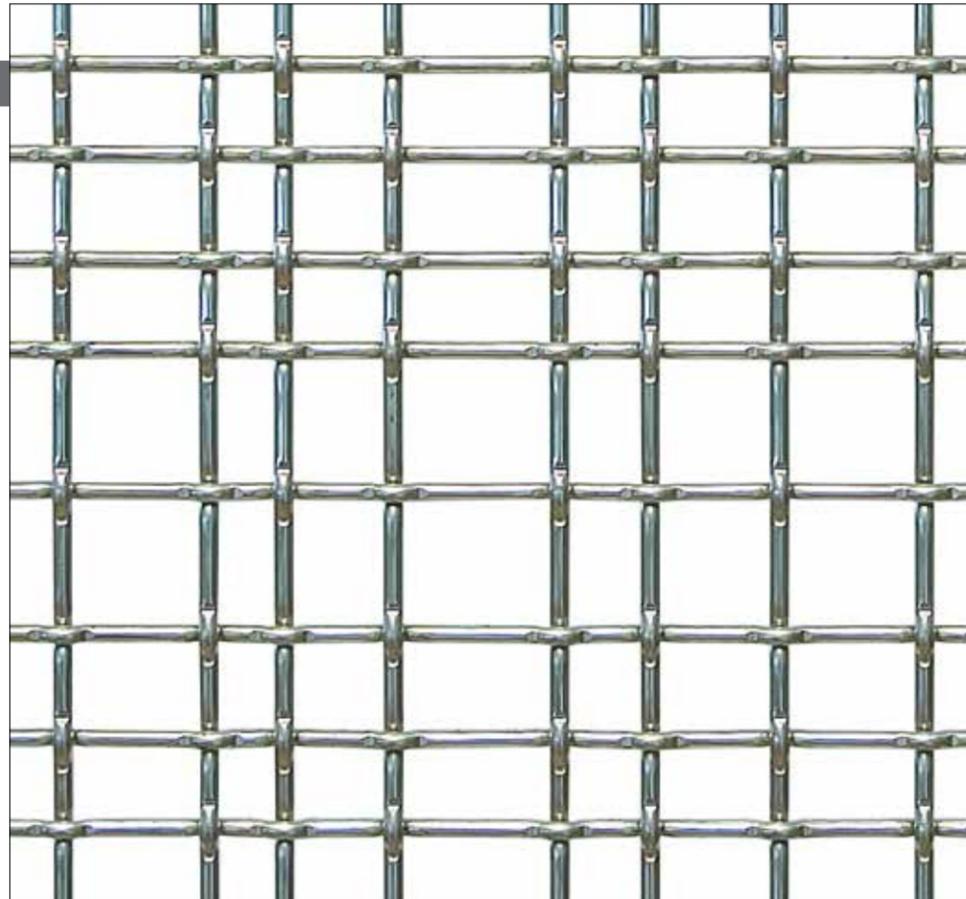
Open Area	45%	
Weight in SS	1.37 lbs/SF	6.68 kg/m2
Thickness	0.102 inches	2.6 mm
Max Width	114 inches	2.90 meters
Max Length	50 feet	15.24 meters
Width Tolerance	+/- 0.25 inches	+/- 6 mm
Length Tolerance	+/- 0.25 inches	+/- 6 mm



CHAOS

RIGID MESH

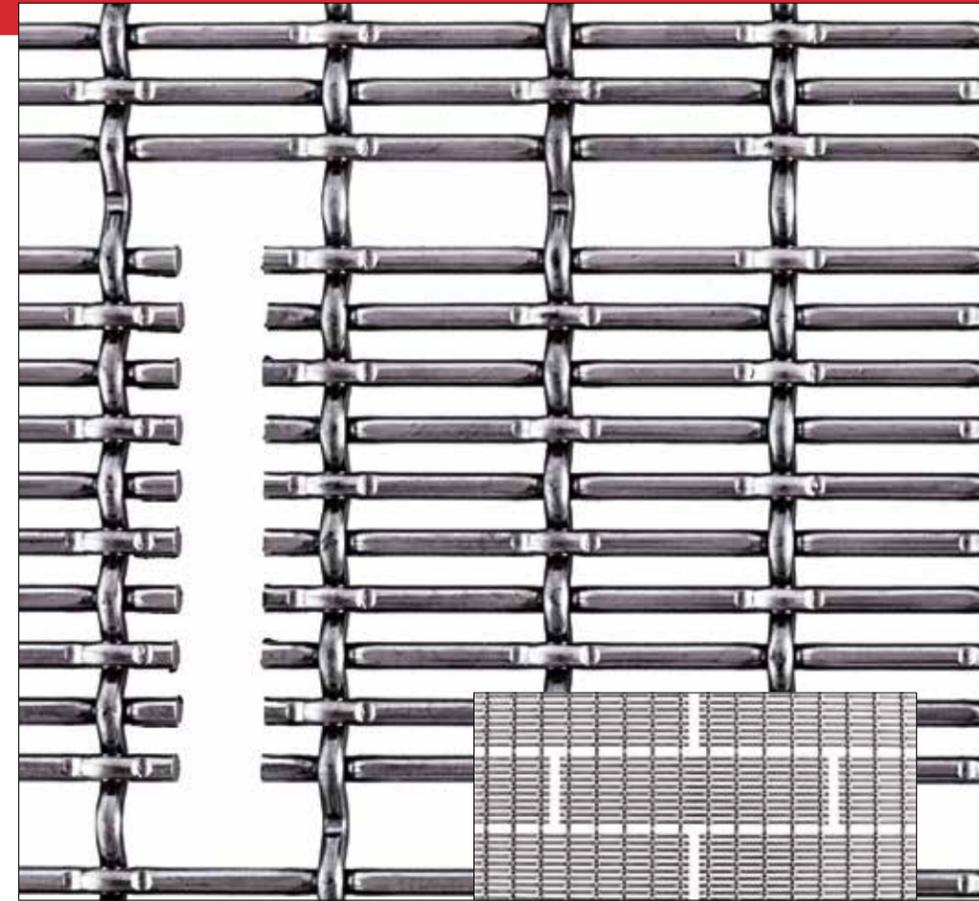
Open Area	69%	
Weight in SS	1.38 lbs/SF	6.74 kg/m2
Thickness	0.255 inches	6.5 mm
Max Width	105 inches	2.67 meters
Max Length	50 feet	15.24 meters
Width Tolerance	+/- 0.125 inches	+/- 3 mm
Length Tolerance	+/- 0.125 inches	+/- 3 mm



BRICK

RIGID MESH

Open Area	50%	
Weight in SS	2.30 lbs/SF	11.23 kg/m2
Thickness	0.242 inches	6.1 mm
Max Width	114 inches	2.9 meters
Max Length	5 feet	1.524 meters
Width Tolerance	+/- 0.5 inches	+/- 13 mm
Length Tolerance	+/- 0.25 inches	+/- 6 mm

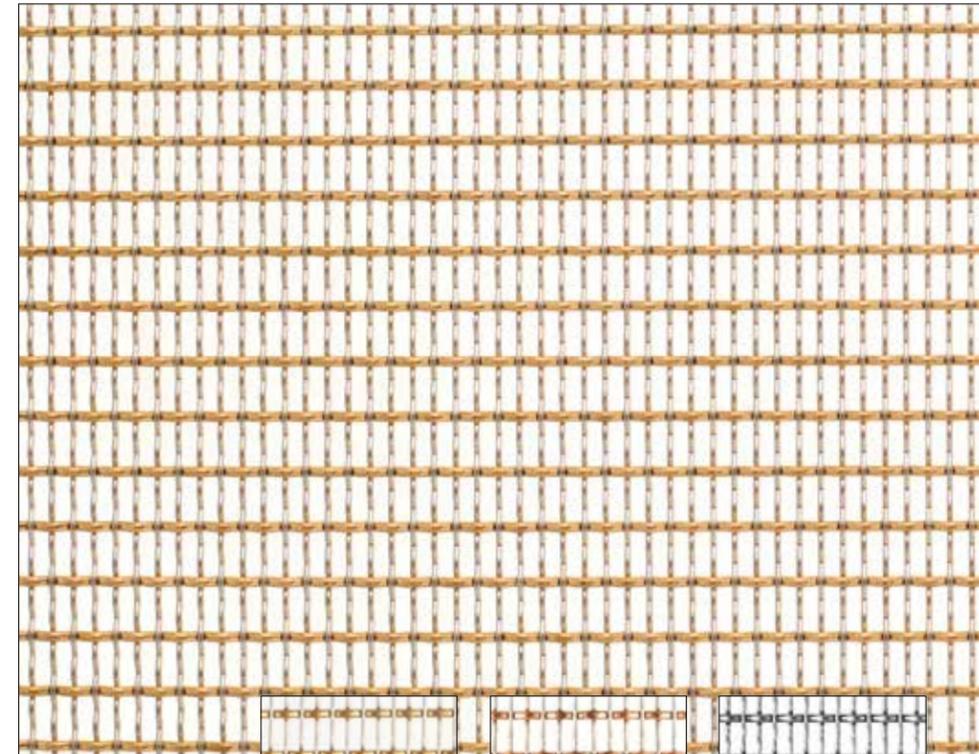


WIDE VIEW

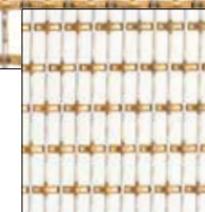
BEAD

RIGID MESH

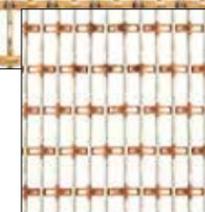
Open Area	53.9%	
Weight in SS	.84 lbs/SF	9.04 kg/m2
Thickness	0.98 inches	2.5 mm
Max Width	70 inches	1.78 meters
Max Length	14 feet	4.26 meters
Width Tolerance	+/- 0.125 inches	+/- 3 mm
Length Tolerance	+/- 0.125 inches	+/- 3 mm



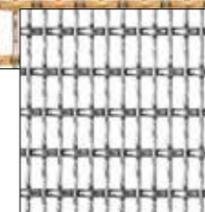
Large Photo: Bead 881SB



BEAD 881SBZ



BEAD 881SC

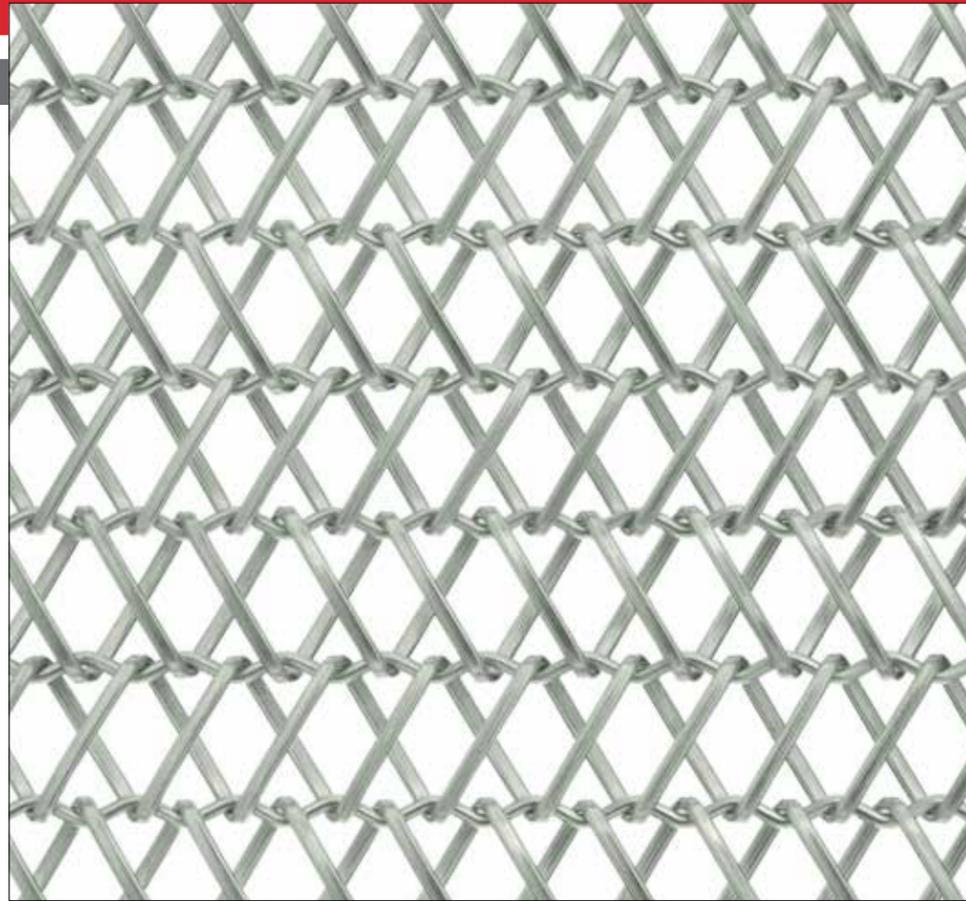


BEAD 881SS

DIAMOND

FLEXIBLE MESH

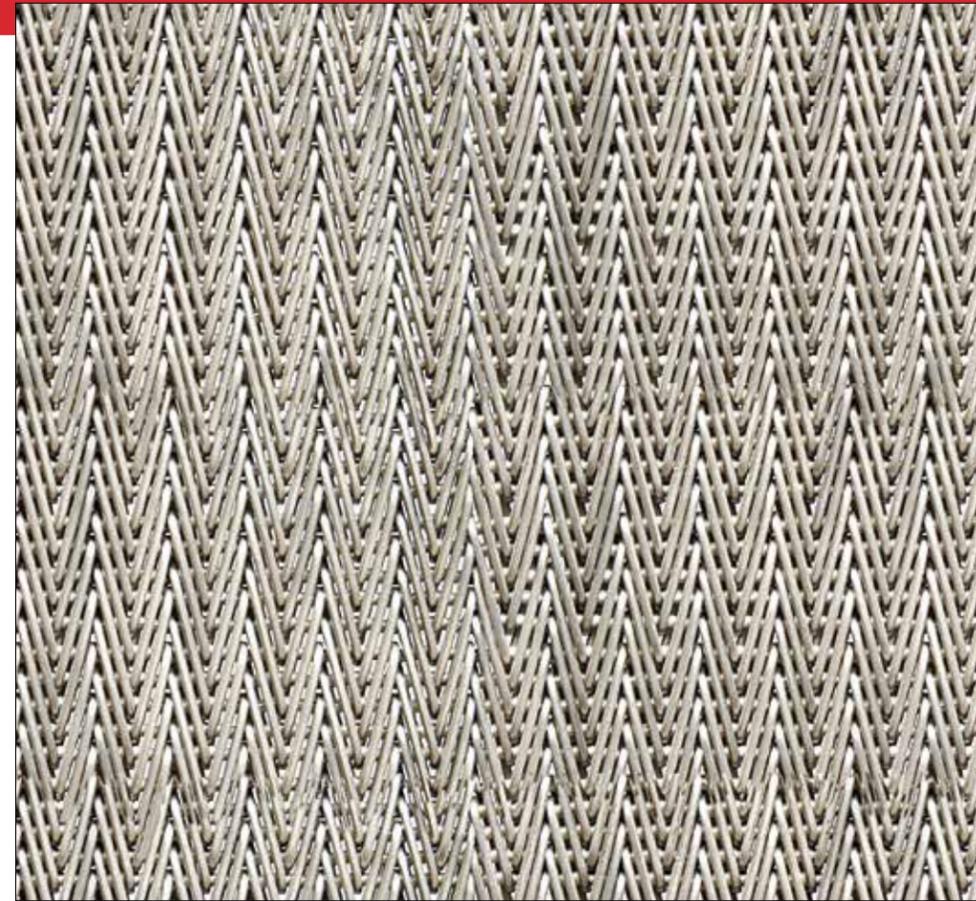
Open Area	53%	
Weight in SS	1.40 lbs/SF	6.84 kg/m2
Thickness	0.375 inches	9.5 mm
Max Width	120 inches	3.05 meters
Max Length	100 feet	30.48 meters
Width Tolerance	+/- 0.5 inches	+/- 13 mm
Length Tolerance	+/- 1 inch	+/- 25 mm



RITZ

FLEXIBLE MESH

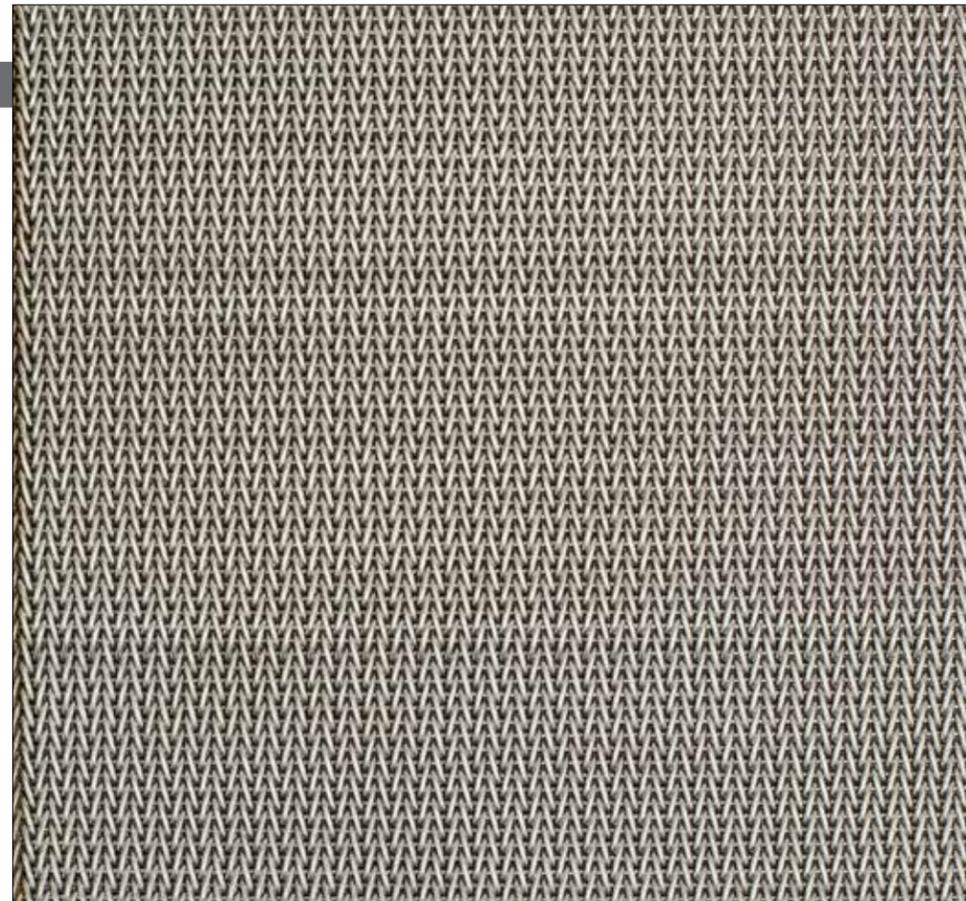
Open Area	1%	
Weight in SS	3.90 lbs/SF	19.04 kg/m2
Thickness	0.300 inches	7.6 mm
Max Width	120 inches	3.05 meters
Max Length	100 feet	30.48 meters
Width Tolerance	+/- 0.375 inches	+/- 10 mm
Length Tolerance	+/- 0.25 inches	+/- 6 mm



TAILOR

FLEXIBLE MESH

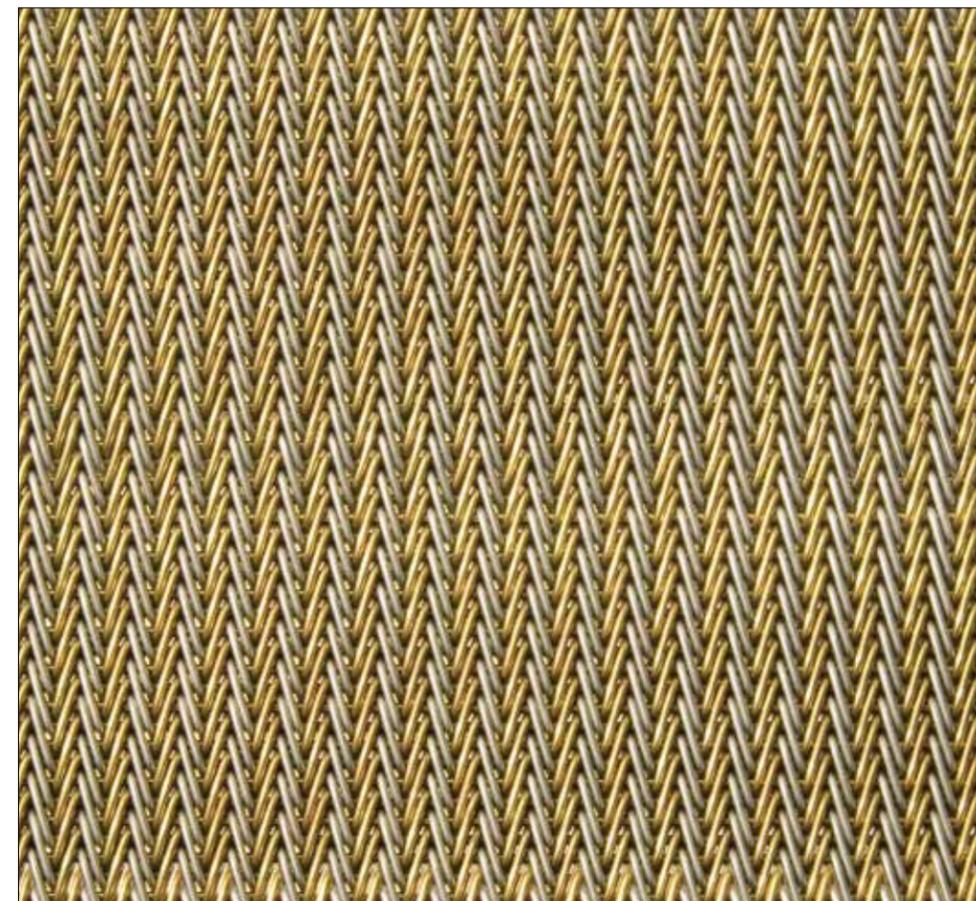
Open Area	1%	
Weight in SS	3.0 lbs/SF	14.65 kg/m2
Thickness	.160 inches	4.1 mm
Max Width	120 inches	3.05 meters
Max Length	100 feet	30.48 meters
Width Tolerance	+/- 0.375 inches	+/- 10 mm
Length Tolerance	+/- 0.25 inches	+/- 6 mm



TWEED

FLEXIBLE MESH

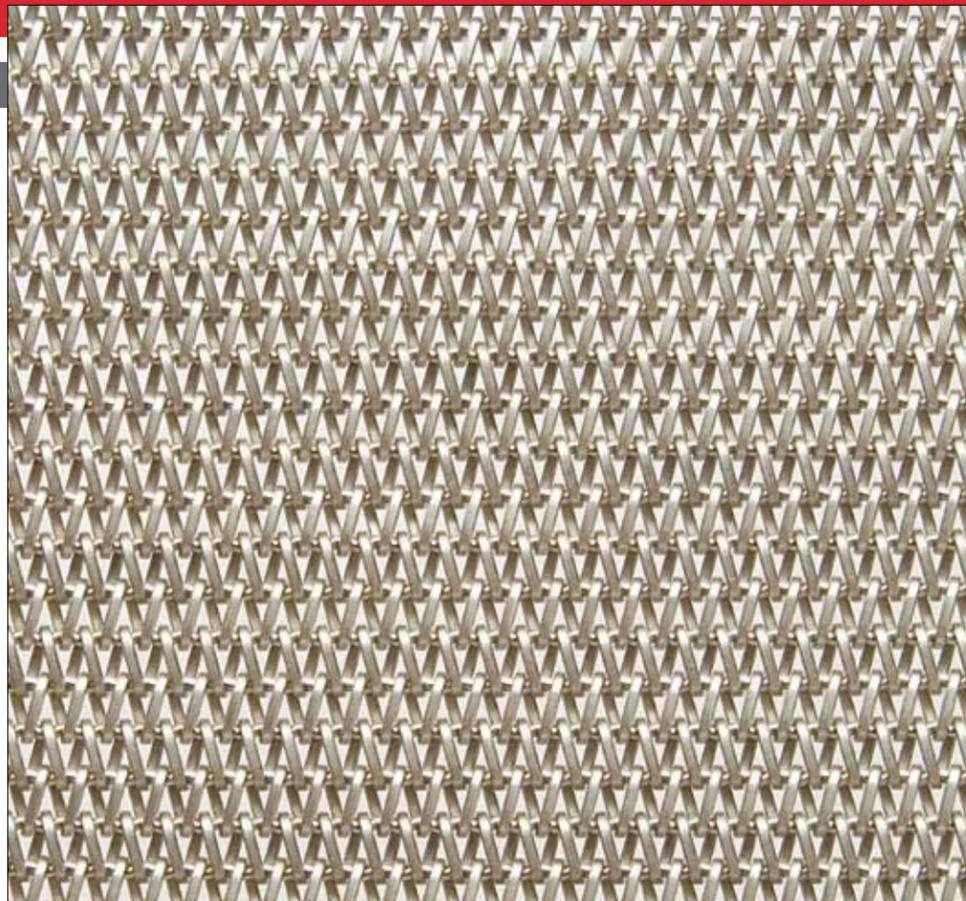
Open Area	1%	
Weight in SS	4.15 lbs/SF	20.26 kg/m2
Thickness	.230 inches	5.8 mm
Max Width	120 inches	3.05 meters
Max Length	100 feet	30.48 meters
Width Tolerance	+/- 0.375 inches	+/- 10 mm
Length Tolerance	+/- 0.25 inches	+/- 6 mm



SLINK

FLEXIBLE MESH

Open Area	13%	
Weight in SS	1.62 lbs/SF	7.91 kg/m2
Thickness	.154 inches	3.9 mm
Max Width	120 inches	3.05 meters
Max Length	100 feet	30.48 meters
Width Tolerance	+/- 0.375 inches	+/- 10 mm
Length Tolerance	+/- 0.375 inches	+/- 10 mm



TIDAL

RIGID MESH

Open Area	0%	
Weight in SS	3.70 lbs/SF	18.06 kg/m2
Thickness	0.193 inches	4.9 mm
Max Width	60 inches	1.52 meters
Max Length	10 feet	3.05 meters
Width Tolerance	+/- 0.125 inches	+/- 3 mm
Length Tolerance	+/- 0.125 inches	+/- 3 mm



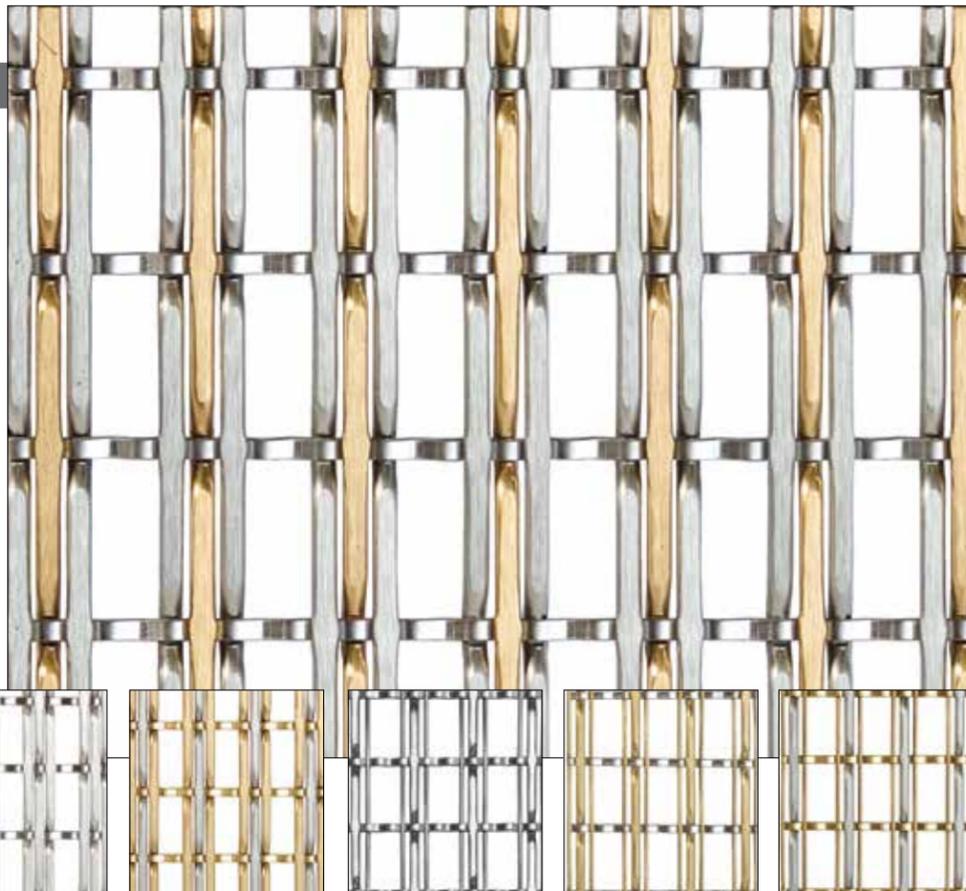
TIDAL 79B TIDAL 79BB TIDAL 95A TIDAL 108A

Large Photo: Tidal 96A

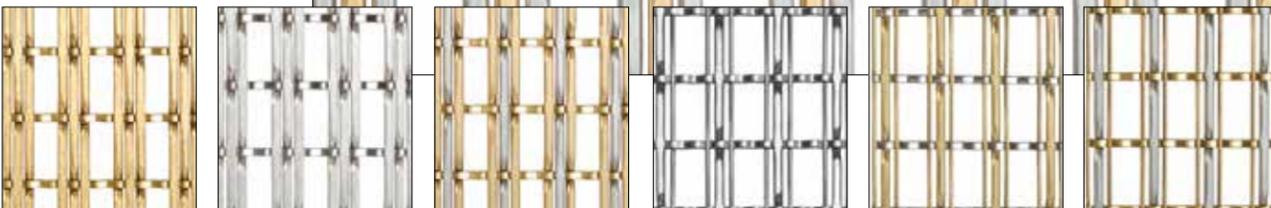
INFINITY

RIGID MESH

Open Area	58%	
Weight in SS	2.00 lbs/SF	9.76 kg/m2
Thickness	0.225 inches	5.7 mm
Max Width	60 inches	1.52 meters
Max Length	10 feet	3.05 meters
Width Tolerance	+/- .125 inches	+/- 3 mm
Length Tolerance	0.125 inches	+/- 3 mm



Large Photo: Infinity 507A

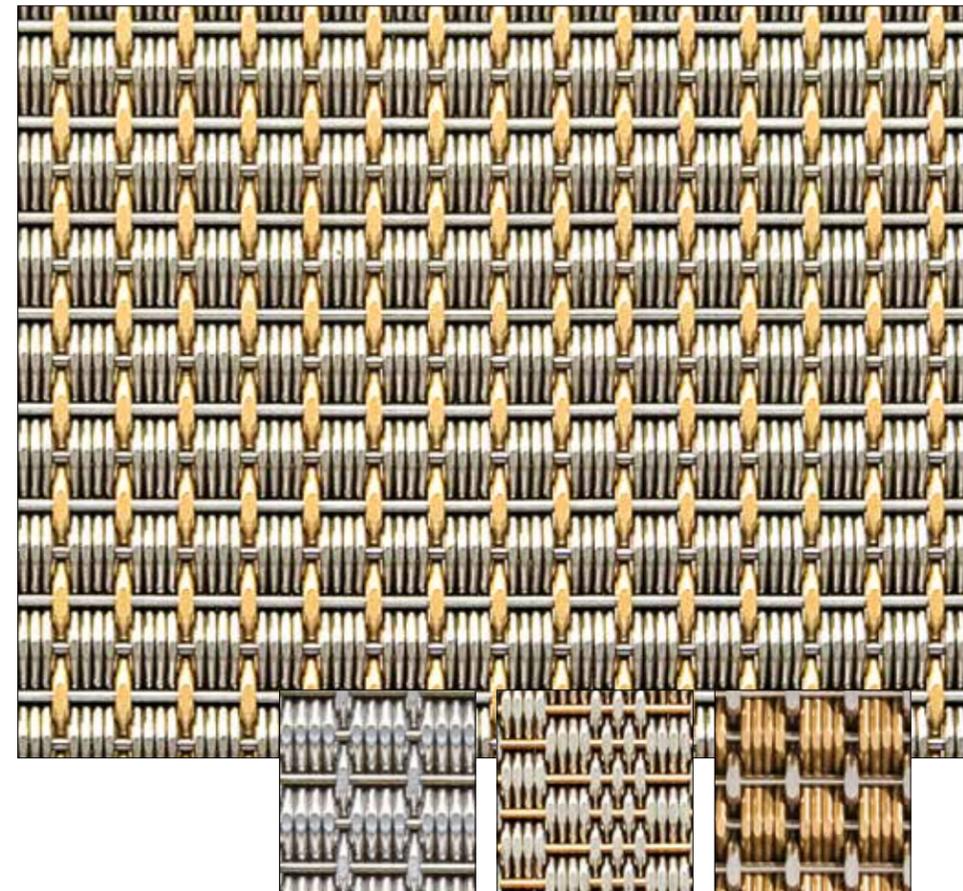


INFINITY 504A INFINITY 506A INFINITY 508A INFINITY 510A INFINITY 512A INFINITY 516A

CIRCUIT

RIGID MESH

Open Area	0%	
Weight in SS	3.38 lbs/SF	16.50 kg/m2
Thickness	0.196 inches	5.0 mm
Max Width	60 inches	1.52 meters
Max Length	10 feet	3.048 meters
Width Tolerance	+/- 0.125 inches	+/- 3 mm
Length Tolerance	+/- 0.125 inches	+/- 3 mm



CIRCUIT 105A CIRCUIT 113A CIRCUIT 141A

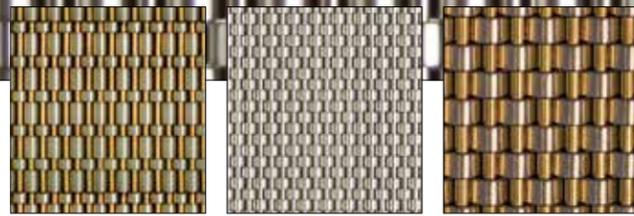
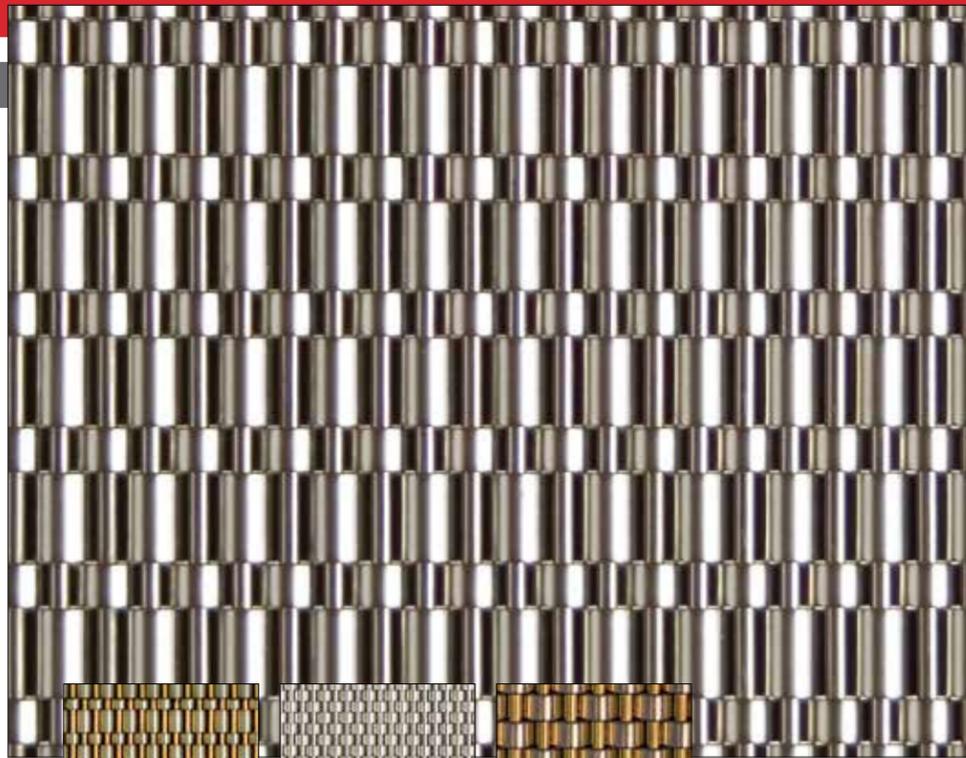
Large Photo: Circuit 114A

CHANNEL

RIGID MESH

Open Area	0%	
Weight in SS	4.00 lbs/SF	19.53 kg/m2
Thickness	0.215 inches	5.5 mm
Max Width	120 inches	3.05 meters
Max Length	12 feet	3.65 meters
Width Tolerance	+/- 0.25 inches	+/- 6 mm
Length Tolerance	+/- 0.375 inches	+/- 10 mm

Large Photo: Channel 29SS



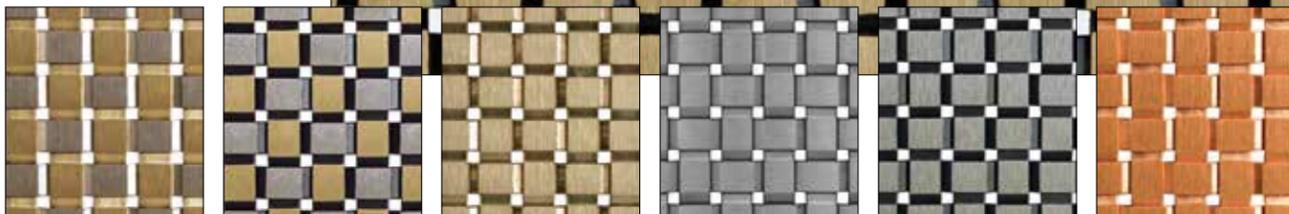
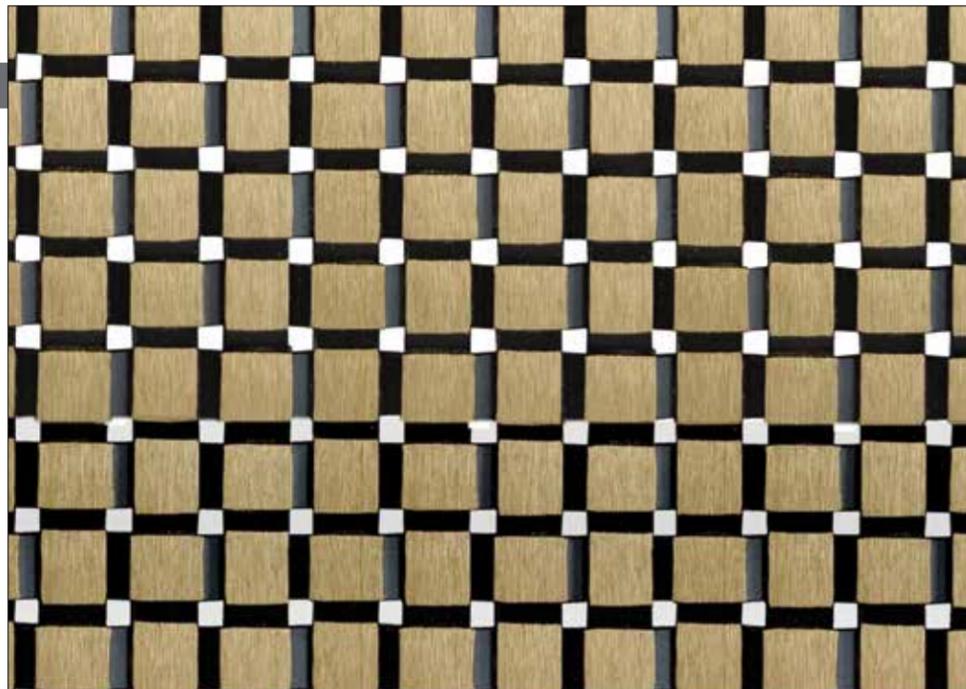
CHANNEL 29K CHANNEL 135A CHANNEL 135B

TILE

RIGID MESH

Open Area	6%	
Weight in SS	3.90 lbs/SF	19.04 kg/m2
Thickness	0.135 inches	3.4 mm
Max Width	60 inches	1.52 meters
Max Length	10 feet	3.05 meters
Width Tolerance	+/- .375 inches	+/- 10 mm
Length Tolerance	+/- .375 inches	+/- 10 mm

Large Photo: Tile 50B



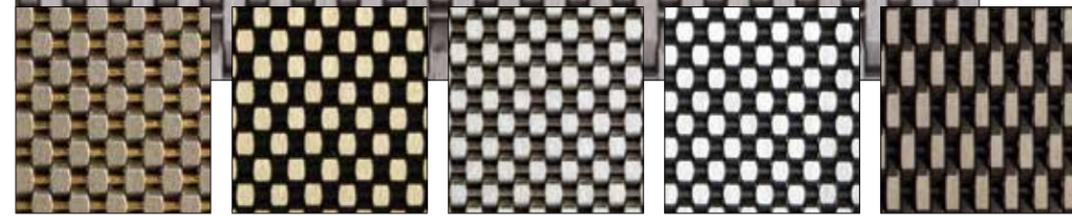
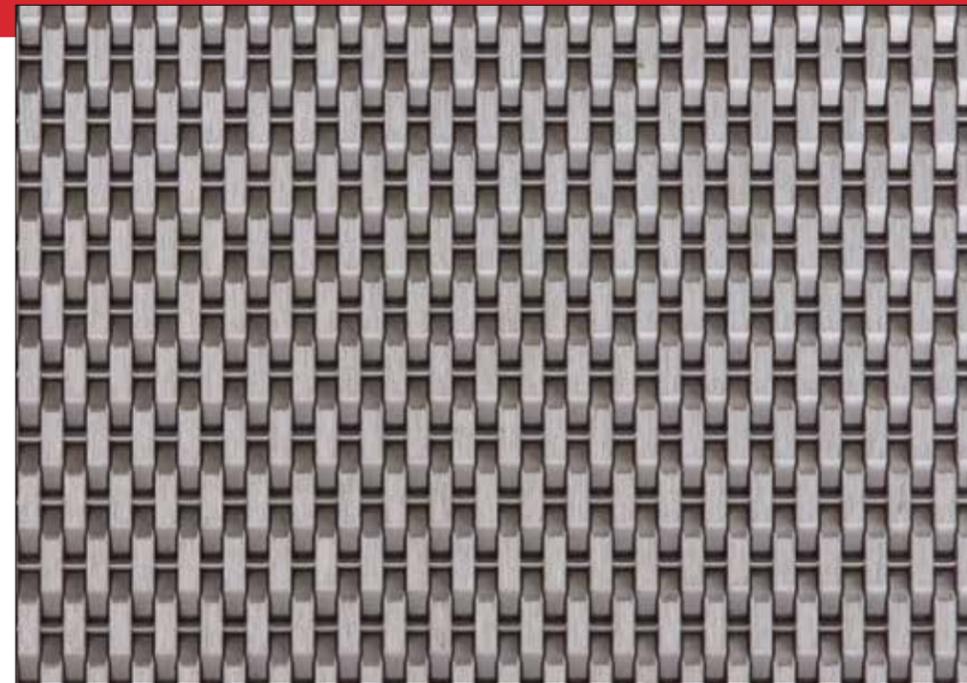
TILE 35A TILE 35B TILE 50A TILE 52A TILE 52B TILE 501A

SAWGRASS

RIGID MESH

Open Area	0%	
Weight in SS	3.57 lbs/SF	17.43 kg/m2
Thickness	0.130 inches	3.3 mm
Max Width	60 inches	1.52 meters
Max Length	10 feet	3.05 meters
Width Tolerance	+/- .125 inches	+/- 3 mm
Length Tolerance	+/- .125 inches	+/- 3 mm

Large Photo: Sawgrass 88A



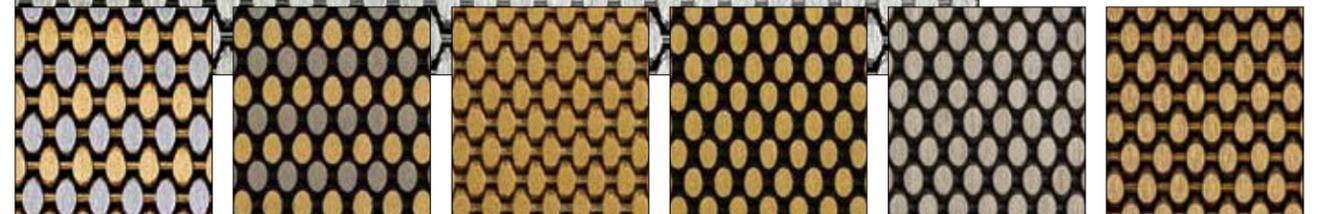
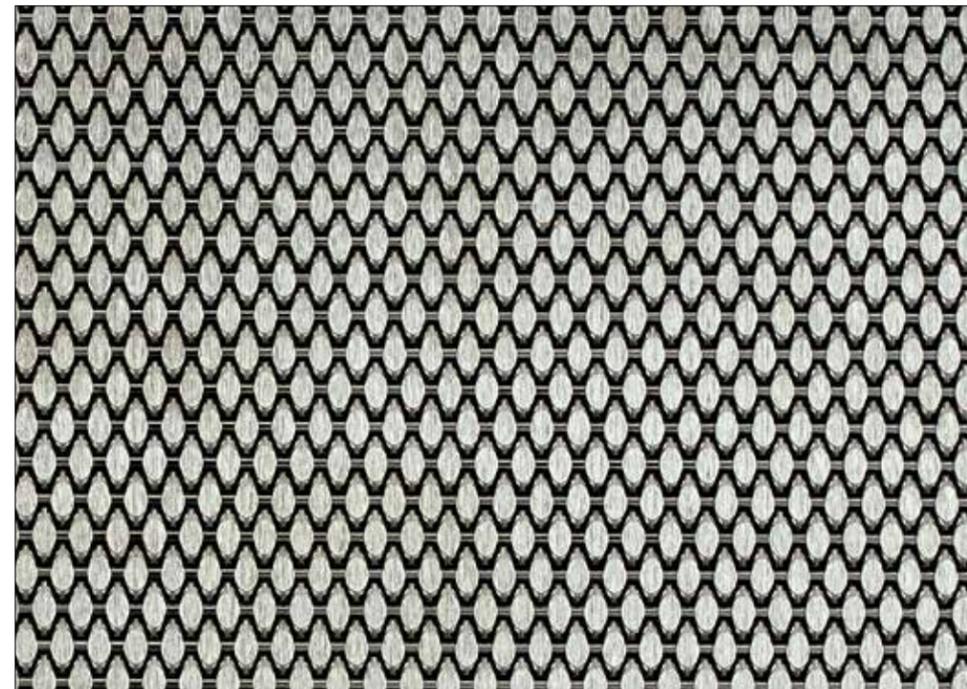
SAWGRASS 32A SAWGRASS 33B SAWGRASS 51A SAWGRASS 51B SAWGRASS 88B

STIPPLE

RIGID MESH

Open Area	0%	
Weight in SS	3.57 lbs/SF	17.43 kg/m2
Thickness	0.132 inches	3.4 mm
Max Width	60 inches	1.52 meters
Max Length	10 feet	3.05 meters
Width Tolerance	+/- .125 inches	+/- 3 mm
Length Tolerance	+/- .125 inches	+/- 3 mm

Large Photo: Stipple 19A



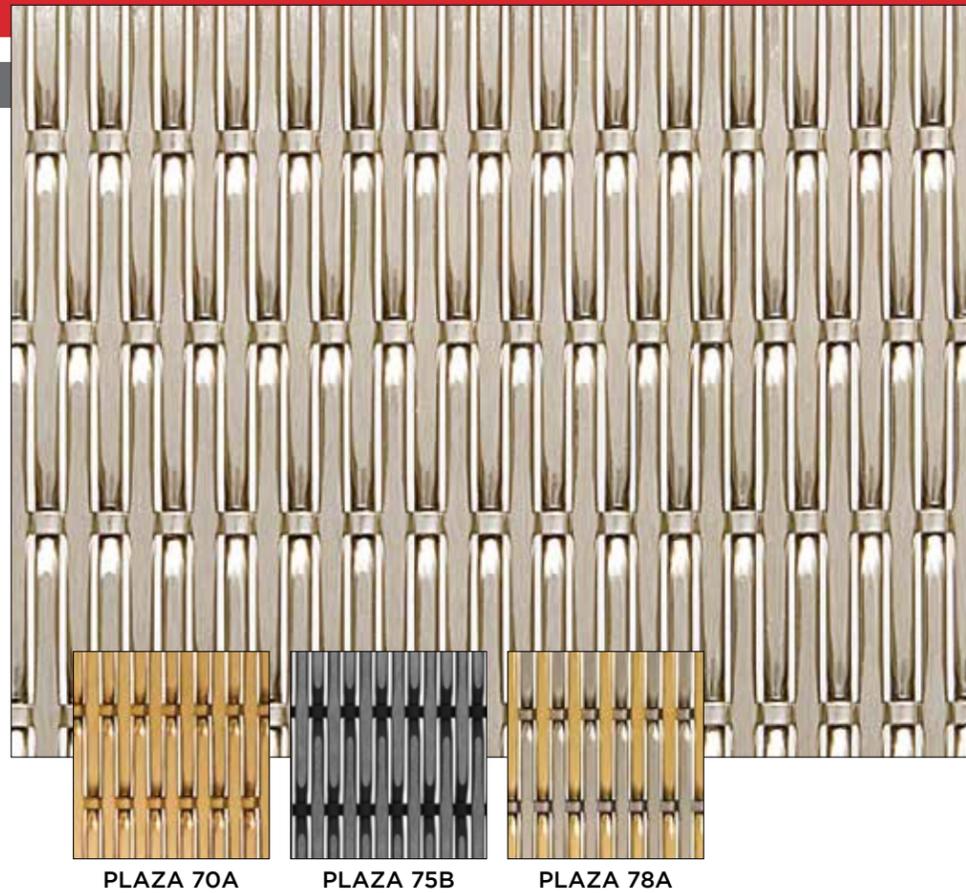
STIPPLE 11A STIPPLE 11B STIPPLE 12A STIPPLE 12B STIPPLE 19B STIPPLE 19H

PLAZA

RIGID MESH

Open Area	18%	
Weight in SS	3.70 lbs/SF	18.06 kg/m2
Thickness	0.225 inches	5.7 mm
Max Width	60 inches	1.52 meters
Max Length	10 feet	3.05 meters
Width Tolerance	+/- 0.25 inches	+/- 6 mm
Length Tolerance	+/- 0.25 inches	+/- 6 mm

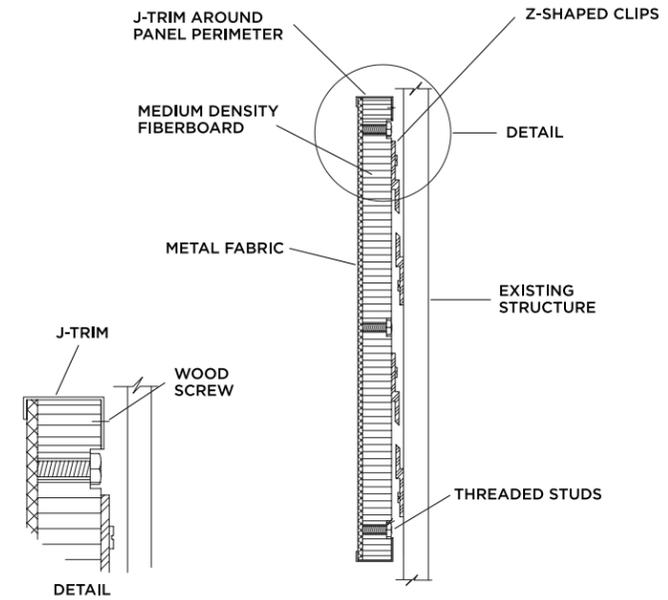
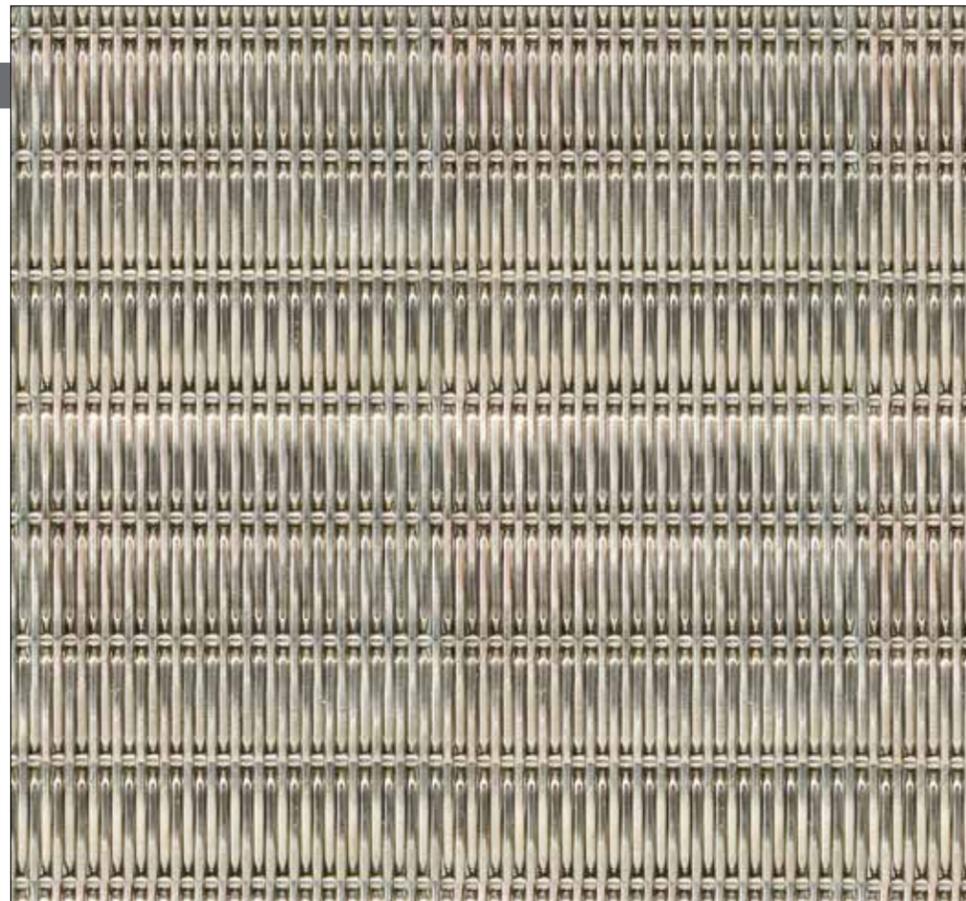
Large Photo: Plaza 75A



VILLA

RIGID MESH

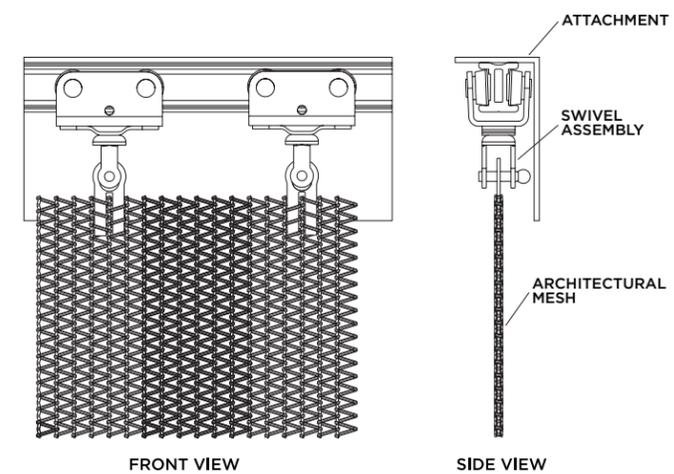
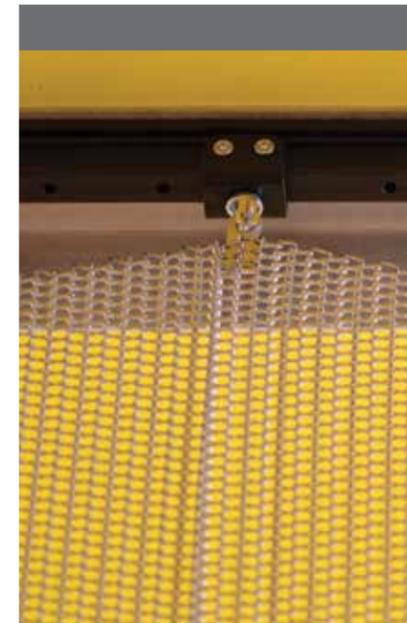
Open Area	0%	
Weight in SS	2.10 lbs/SF	10.25 kg/m2
Thickness	0.155 inches	3.9 mm
Max Width	144 inches	3.66 meters
Max Length	10 feet	3.05 meters
Width Tolerance	+/- 0.125 inches	+/- 3 mm
Length Tolerance	+/- 0.25 inches	+/- 6 mm



PANEL

Panel attachment hardware fastens closed metal fabric to a substrate such as Medium Density Fiberboard (MDF). Z-clips join panels to the substructure.

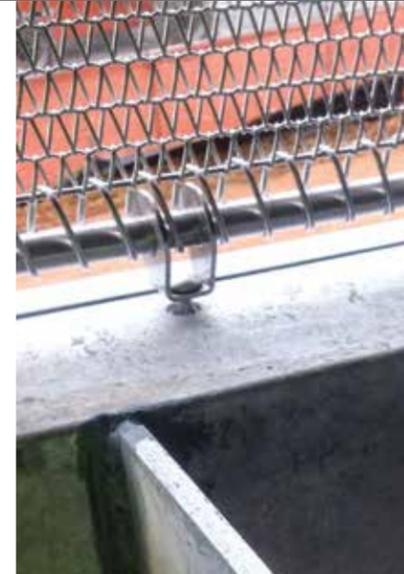
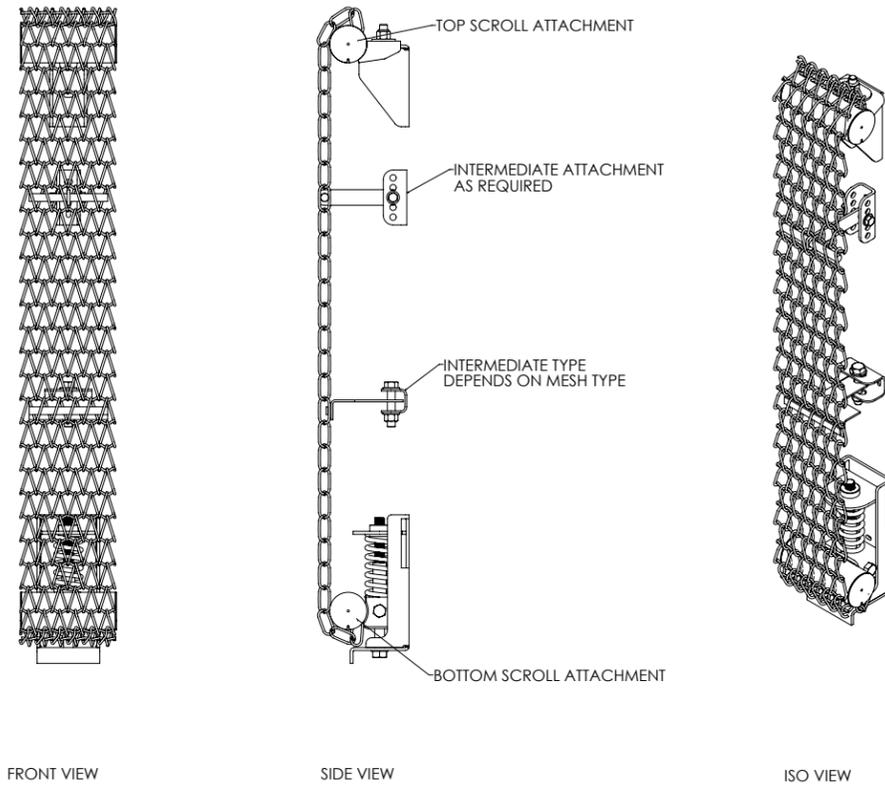
CURTAIN



Curtain attachment hardware attaches flexible metal fabric to carriers and permits it to roll smoothly along the track length as a window treatment or draping space divider. Flexible metal fabrics are hung sideways to maximize the draping effect. This attachment hardware can also be specified for motorized operation, where the curtain of metal fabric is opened or closed with the touch of a button.

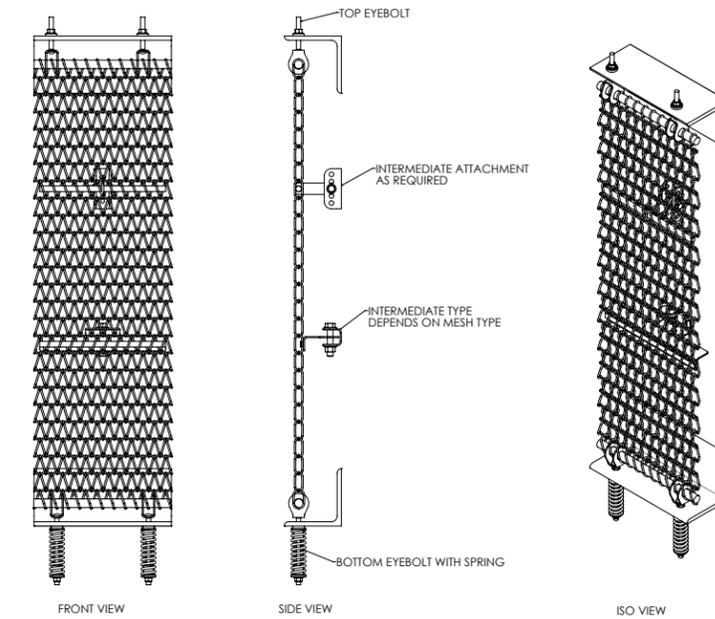
SCROLL

Scroll tension attachment hardware keeps the focus on the metal fabric by hiding the attachment behind it. Scroll conceals the bracket that attaches to the structural support. Scroll uniquely grips the metal fabric, holding it in tension. Scroll is appropriate for lengths of metal fabric up to 100'.



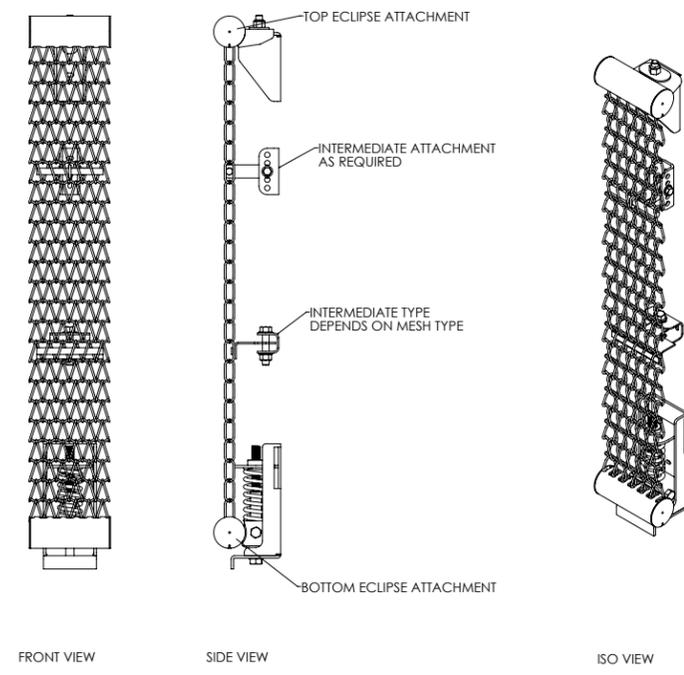
EYEBOLT

The Eyebolt attachment is a less elegant but lower cost mesh mounting system. Contact your Cambridge Architectural representative for weight load limitations.



ECLIPSE™

Eclipse tension attachment hardware provides tailored edges for expanses of flexible metal fabric. Elegant, custom-cut apertures receive the metal fabric ends in tubing that is integrated into a bracket and structural support design. The tube provides a visual reveal between panel lengths, and tube sizes may vary to emphasize or de-emphasize the attachment. Eclipse is appropriate for lengths of metal fabric up to 100'.



Engineering and Project Management Support

Cambridge's in-house engineering support and mesh system design sets us apart from other metal fabricators. From early concept and construction documents to final shop drawings, our engineers and project managers have exceptional experience in the art and science of architectural mesh systems. Our support and resources include:

Conceptual Level and Early Design

- Assistance selecting proper mesh, materials, and attachment options to meet project objectives
- Preliminary loading calculations based on specifications, attachment systems, sizes, and site attributes (such as wind and ice loads)
- Sample drawings, sketches and information on specific mesh and attachments
- Conceptual budget estimates for mesh, attachments, and installation

Design Development and Construction Document

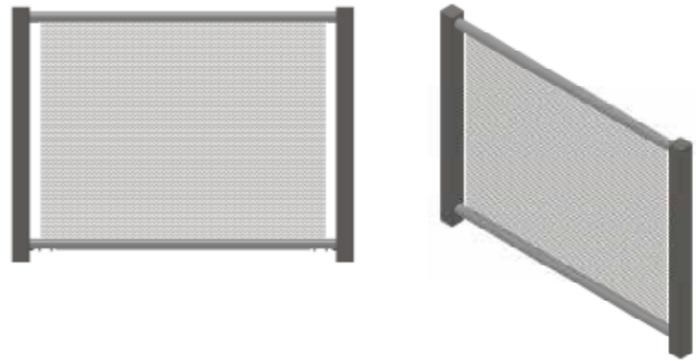
- Detail and specification development
- System design and preliminary engineering calculations
- Web-based and in-person design meetings

Under-Contract Engineering

- Mock-up design and fabrication
- Shop drawing development and submissions under licensed PE
- Customized installation and maintenance instructions
- On-site meetings to support final designs and installation
- Studies and submissions for safety, wind or jurisdictional requirements
- Reports and submission for Green Building, other certification systems

RAILFLEX™

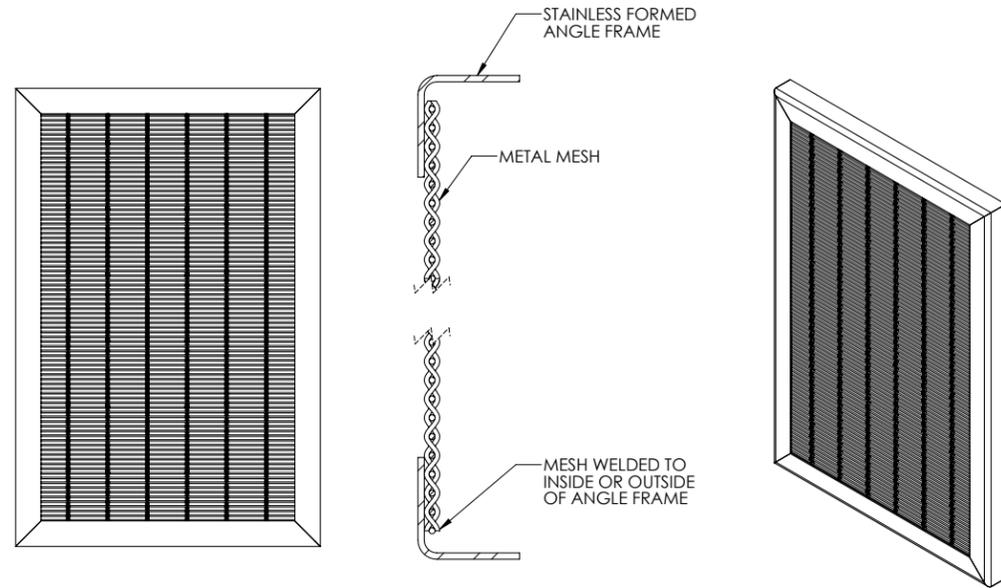
Railflex tension attachment hardware is specifically designed for handrail systems. The ends of flexible metal fabric panels are concealed in handrail tubing, allowing for a seamless transition from rail to flexible mesh. Custom-cut apertures receive the metal fabric in the handrail tubing which is integrated into a bracket and structural support design.



Custom options available on a per project basis.

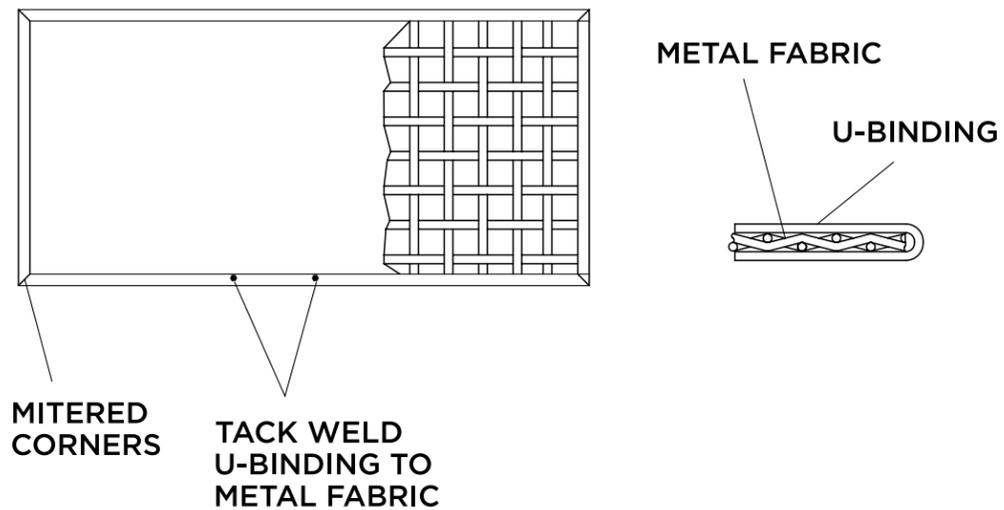
ANGLE FRAME

Angle Frame attachment system is designed to provide mounting for either flexible or rigid mesh in applications where cost-effective panel systems are required. Utilizing a formed stainless steel angle as the structural element, the mesh is tack welded either on the interior of the frame, leaving a border; or it can be welded to the outside of the frame to conceal the angle. The steel angle itself can be left unfinished; or exposed surfaces can be polished and finished.



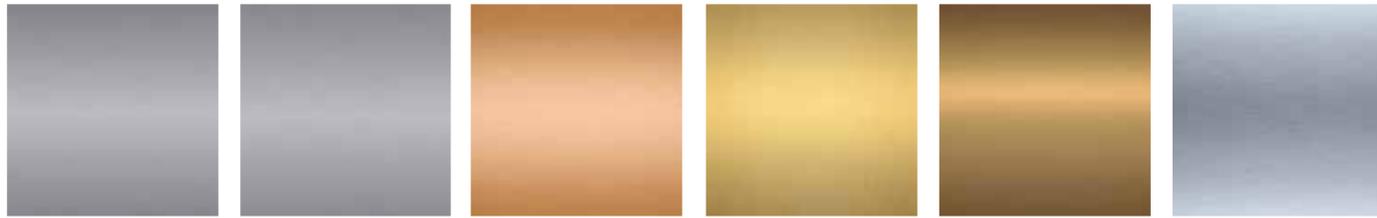
U BINDING

With U Binding attachment hardware, metal fabric is tack welded to a u-binding frame with mitered corners that are welded and ground smooth for a brushed finish.



Moreno Valley College, Moreno Valley, California  
Architect: DLR Group, Riverside, California

MATERIALS



<p><b>T304 STAINLESS STEEL</b> Primarily used for interiors with a naturally bright silver finish. Can be powder coated to add color and corrosion resistance. 18-20% Chromium 8-10% Nickel</p>	<p><b>T316 STAINLESS STEEL</b> Primarily used for exteriors with a naturally bright silver finish. Can be powder coated to add color and corrosion resistance. 16-18% Chromium 10-14% Nickel 2-3% Molybdenum</p>	<p><b>COPPER</b> Rich color primarily used on interior panels. Can be left natural to patina over time or lacquered to reduce patina formation.</p>	<p><b>BRASS</b> Alloy of Copper and Zinc. Rich color primarily used on interior panels. Naturally patinas slower than pure copper. Can be left natural to patina over time or lacquered to reduce patina formation.</p>	<p><b>BRONZE</b> Alloy of Copper and Tin. Rich color primarily used on interior panels. Naturally patinas slower than pure copper. Can be left natural to patina over time or lacquered to reduce patina formation.</p>	<p><b>ALUMINUM</b> Can be used for interiors and exteriors. Can be anodized or powder coated to add color and enhance corrosion resistance.</p>
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STANDARD FINISHES

<p><b>MILL FINISH STAINLESS STEEL</b> Consistent silver finish created during the manufacturing of the raw material. Applies to the wire and sheets used to make the mesh and attachment systems.</p>	<p><b>BRUSHED FINISH STAINLESS STEEL</b> Directionally grained surface. Created during the product finishing steps using abrasive polishers. Can be specified on a variety of the mesh and attachment systems.</p>	<p><b>ANODIZED ALUMINUM</b> Chemical process used to increase the thickness of the aluminum oxide layer on aluminum materials. Available in a variety of color and durability options. Interior and exterior options available. Can be applied to any aluminum mesh and attachment systems.</p>	<p><b>POWDER COAT</b> Electrostatically applied and baked on finish. Available in a wide variety of color and durability options. Can be applied on a variety of mesh and attachment systems.</p>	<p><b>LACQUER</b> Clear coat used to reduce patina formation on copper, brass, and bronze. Available in a wide variety of color options. Colored lacquer and secondary sanding can produce a two tone product with a colored background and brushed finish base metal foreground on certain mesh options.</p>
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Other custom finishes can be quoted if needed.



McCarran International Airport  
Las Vegas, Nevada

Architect: PGAL, Las Vegas, Nevada



# Iron Horse Trail Pedestrian Bridge

Pleasant Hill, California

Architect: Donald MacDonald Architects, San Francisco, California

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Cambridge, MD 21613

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C A M B R I D G E  
ARCHITECTURAL MESH