



TECHNICAL DATA SHEET Vividview™

Vividview Expanded Mesh

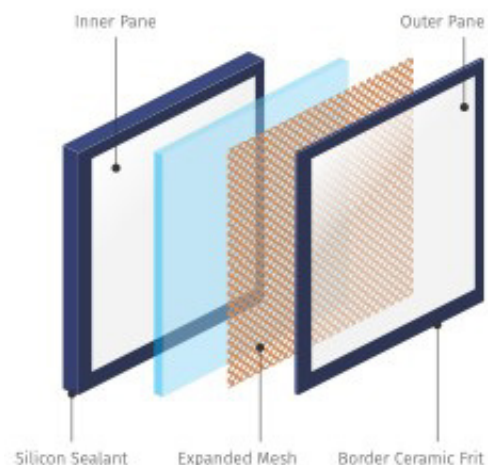
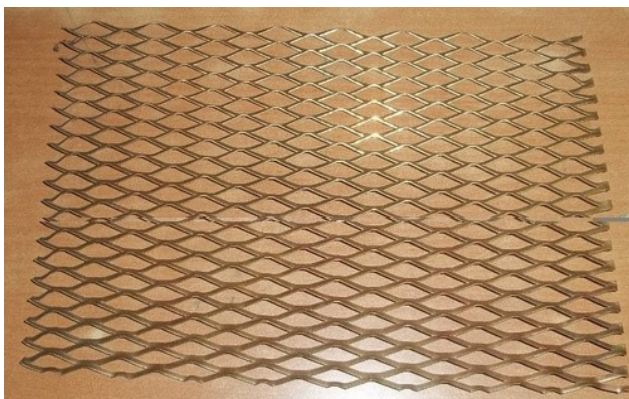
VIVIDVIEW

Embellishments on glass have seldom worked because they usually came at the cost of functionality. While patterns on glass would obstruct visibility, plain glass often lacked the pizzazz needed to liven up facades or interiors. However, with Future Glass' VIVIDVIEW Expanded Mesh, you can now enjoy a truly distinguished look without compromising on the inherent functionality of glass. VIVIDVIEW's innovative design integrates metallic mesh patterns into insulated glass units to deliver an undisputed statement of style and panache. Expanded Mesh can be laminated and can be suspended in an IGU which brings an attractive design and visual appearance of the building. Expanded metal sheets when combined with glass gives an additional strength to the building façade.

Construction:

This exciting product can be made in two way, by laminating the mesh inside and by suspending it inside an IGU. In case of lamination, mesh is layered with intermediate layer and is encapsulated in between two layers of toughened or heat strengthened glasses. Whereas in case of double-glazed unit VIVIDVIEW Expanded Mesh is produced using a special technique of suspending the metal mesh inside the cavity of an IGU. Better U-values can be achieved by incorporating a Low-E coated glass inside the IGU. The mesh structure, which is designed to be directionally selective when light passes through, helps in controlling glare and reducing Solar Heat Gain through the façade. VIVIDVIEW Expanded Mesh works as a sunscreen and can achieve up to 100% shading if the long diagonal of the mesh is parallel to the ground. This chart explains how the shading increases as the sun's inclination angle increases on an expanded mesh with open area of about 50%. Both types make an ideal combination to be used in various applications such as façade, partitions, balustrades following "N" number of ideas of its use. To enhance the aesthetics, it can be combined with other specialty applications such as backlit and gradient ceramic frit. When the sun light falls on the building glazed using VIVIDVIEW Expanded Mesh, it starts shining because of the metal sheet inside and gives a glowing view. While using it on façade at night you can see through and can have the view of interiors.

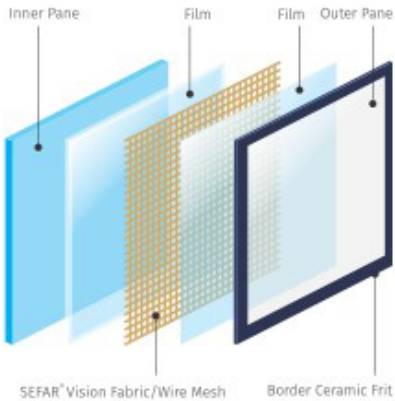
Double Glazed Unit: VIVIDVIEW-Expanded Mesh



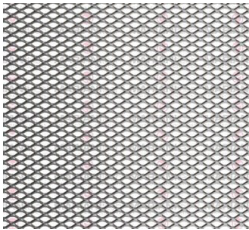


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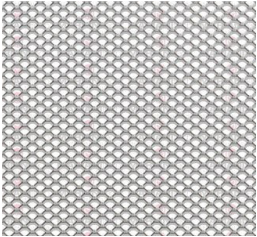
Laminated Unit: Vividview-Expanded Mesh



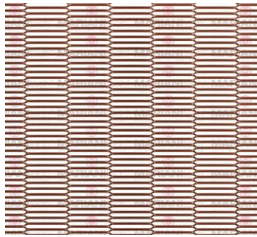
MESH TYPES



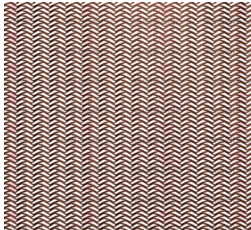
Chelsea



Library



Marais

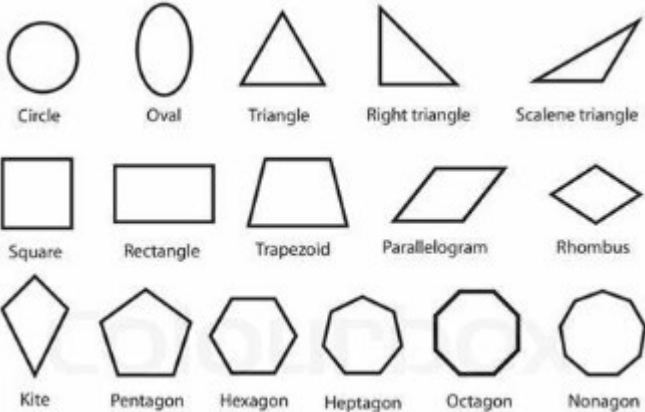


Triebeca

STANDARD COLOUR OPTIONS FOR ANODIZING:

- SILVER
- GOLD
- CHAMPAGNE
- BRONZE

SHAPES

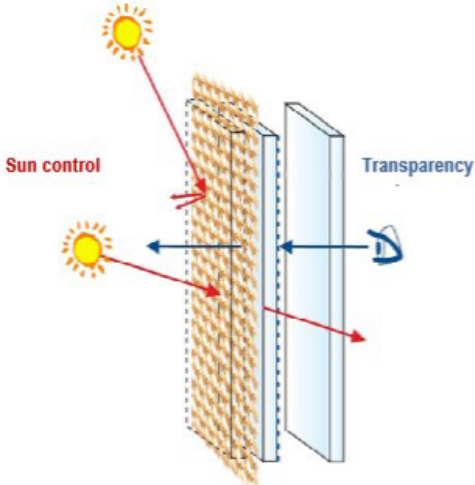




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TECHNICAL SPECIFICATIONS

Description	Levels
Process Type	Vacuum treated followed by autoclaiving or can be suspended in an insulated glass unit
Glass Types	Recommended to use in Low Iron, can also be used in clear, extra clear and can further make an IGU using tinted, solar-control coated, low-E coated
Mesh Types	For lamination up to 2mm thick, thickness more than 2mm to be suspended in an IGU
Glass Thickness Range	4 mm to 12 mm
Unit Thickness Range	11.52 mm to 60 mm
Color Types	Aluminum & copper (any other color can be anodized)
Application	Interior and Exterior
Open Area	37 to 52 (mesh for lamination), for IGU it can exceed
Metal Type	Aluminium & Steel , further can be anodized, plastic powder coated to different RAL colors or galvanized
Visible Light Transmission	57%
Reflection In	35%
Reflection Out	34%
SHGC	0.58
U-value	4.93
STC	37 db





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DIMENSIONS (Laminated Mesh)

Description	Levels
Minimum Size	300 mm X 300 mm
Maximum Size	1500 mm X 4000 mm (varies depending on mesh type)

DIMENSIONS (Suspended Mesh)

Description	Levels
Minimum Size	600 mm X 600 mm
Maximum Size	2500mm X 5000 mm (varies depending on mesh type)

APPLICATIONS Exterior

1. Facade	2. Balcony Doors
3. Skylight	4. Fins
5. Balustrades	

APPLICATIONS Interior

1. Partitions	2. Doors
3. Back Splash	4. Area of Privacy

APPLICATIONS Exterior

1. Creates an aesthetically stunning statement	2. Can be combined w/ Fire rated & security solutions
3. Infinite design possibilities	4. Extremely durable and robust product
5. Great acoustic insulation properties	6. Reduces glare, heat-buildup and thermal stress
7. Highly recommended for the area of privacy	8. Can be used for Bird Protection

IMPORTANT NOTES:

Mesh may undergo expansion / contraction up to 5 mm approx. due to temperature variations. However, the special encapsulation technique of the suspended mesh compensates for the differing expansion.

Mesh types are directional materials. Orientation of the mesh should be realized and agreed before releasing the order to production.

Expanded Mesh must be cut back 10mm from every exposed glass edge if material is used for external applications or interior applications with humid environment

Note: Performance Values mentioned are based on mesh opening 48% and glass combination 6mm Low iron+1.52 Interlayer+ Expanded Mesh+1.52 Interlayer+6mm Low Iron. Calculation standard followed NFRC 2010. Many factors may affect glazing characteristics, The applicability and results of the analysis are directly related to user inputs and any changes in actual conditions can have a significant effect on the results.