



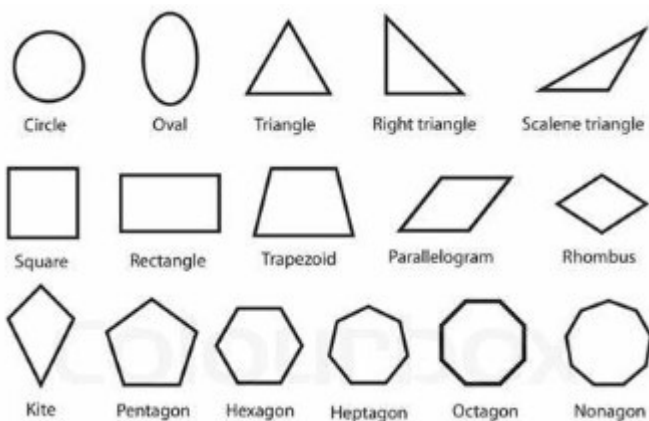
TECHNICAL DATA SHEET Vividview Vision Mesh™ | Mesh In-filled Glass

With Future Glass' VIVIDVIEW, 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. VIVIDVIEW Vision Mesh is made using metal coated fabric from Sefar® (Switzerland) that can be laminated to create a visual landmark. Additionally, this serves to diffuse sunlight (eliminating need of blinds) and massively cuts down the solar heat-gain. The structure of the mesh is responsible for the unique optical effects, and dynamic reflection and transmission levels. With Vision Mesh, you get the additional and one-of-its-kind benefit of single-sided metal coating that allows for free expression on the exterior of a glass wall without impeding views from those inside and preventing the exterior design from reading through to the interior space. Sefar provides fabrics with various weight classes and along with mesh fabrics for complete weather protection and aesthetic claddings. It reduces heat loading and aggressive visual light transmission (VLT) potentially saving the building owners capital expenses in HVAC mechanical, exterior louver and possible interior shading systems.

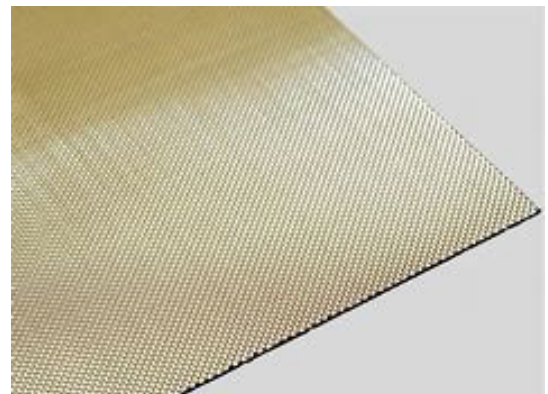
Construction

VIVIDVIEW Vision Mesh consists of a metal-coated precision fabric interlayer laminated between two panes of glass forming an inseparable bond. The laminated product may be used standalone or encapsulated inside an Insulated Glass Unit (IGU) to enhance the performance parameters of the final product. Each fabric features weaves in a variety of aperture percentages (25-70%) and light transmission percentages (18-60%). The yarn thickness is close to 260 microns, about the thickness of human hair making it practically invisible when viewed from 3 meters. The structure of the fabric is responsible for the unique optical effects, subtle reflection, and solar reduction. This bespoke product is made by embedding a fine layer of vision mesh between two glasses, using lamination interlayer. To elaborate it can be explained as, there will be one glass panel followed by lamination interlayer which is further followed by vision mesh and at last there will be another glass panel. To make this outstanding combination, process must go through cutting, tempering, autoclaving while doing all this, the main subject to take care is the alignment of Vision mesh, it requires expertise and accurate knowledge. These panels can further be combined with an insulated glass unit for external façade using various types of coatings as per the project requirement.

Shape Possibilities



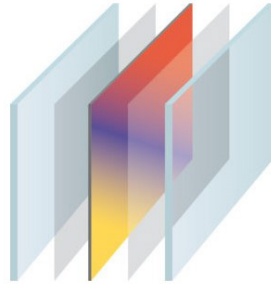
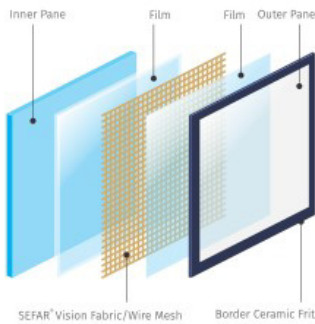
Vision Mesh





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Making VIVIDVIEW-Vision Mesh



Final Product



TECHNICAL SPECIFICATIONS

| Description | Levels |
|--------------------------|---|
| 1. Process Type | Vacuum treated followed by autoclaving |
| 2. Glass Types | Recommended to use in Ultra Clear , can also be used in clear, extra clear and can further make an IGU using tinted, solar-control coated, low-E coated |
| 3. Glass Thickness Range | 4 mm to 12 mm |
| 4. Unit Thickness Range | 9.52 mm to 60 mm |
| 5. Mesh Opening | 10%, 30%, 55%, 70% |
| 6. Metallic Coating | Vacuum treated followed by autoclaving |
| 7. Color Types | Gold, silver, copper, titanium, chrome, red and other custom-printed RAL color codes |
| 8. Application | Interior and Exterior |
| 9. Light transmission | 20% - 49% |
| 10. External Reflection | 14% - 23% |
| 11. Internal Reflection | 5%-6% |
| 12. SHGC (g-value) | 0.32 – 0.53 |
| 13. U-value | 0.65 – 5.7 W/sqmK |
| 14. Sound reduction (dB) | 32 - 48 |



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DIMENSIONS

| Description | Levels |
|--------------|-------------------|
| Minimum Size | 300 mm X 300 mm |
| Maximum Size | 2350 mm X 5000 mm |

Internal Application

| | |
|---|--|
| 1. Creates an aesthetically stunning statement. | 2. Provides a unique single-sided viewing. |
| 3. Infinite design possibilities. | 4. Extremely durable and robust product. |
| 5. Great acoustic insulation properties. | 6. Reduces glare, heat-buildup and thermal stress. |
| 3. Infinite design possibilities. | 4. Extremely durable and robust product. |
| 7. Highly recommended for the area of privacy. | 8. Most comprehensive decor range. |

External Application

| | |
|---|--|
| 1. Creates an aesthetically stunning statement. | 2. Provides a unique single-sided viewing. |
| 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. Most comprehensive decor range. |

UNIQUE SELLING POINTS

| Description | Levels |
|---|--|
| 1. Creates an aesthetically stunning statement. | 2. Provides a unique single-sided viewing. |
| 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. Most comprehensive decor range. |

IMPORTANT NOTES:

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

Vision Mesh possesses a shrinkage during lamination hence the straightness of the fabric cannot be guaranteed and slight fraying may be observed at the fabric edge. Visual mockup is recommended to ascertain the visual criteria

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

Fabric edge may appear blackened. This is due to the process of cutting which may be by hot knife or laser cut. This is due to the nature of PET and is not a defect in the Vision material.

Note: Performance Range mentioned are based on various mesh openings and glass combination 4mm Low iron+0.89Interlayer+Sefar VisionMesh+0.89 Interlayer+4mm Low Iron. Standard followed EN410. 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. For size limitations, thickness and design availabilities please check with our sales person before placing the order or you can email us on sales@faglass.com