



BREDA
Architectural Metals

**METAL MESH
TECHNICAL BOOKLET**

METAL MESH

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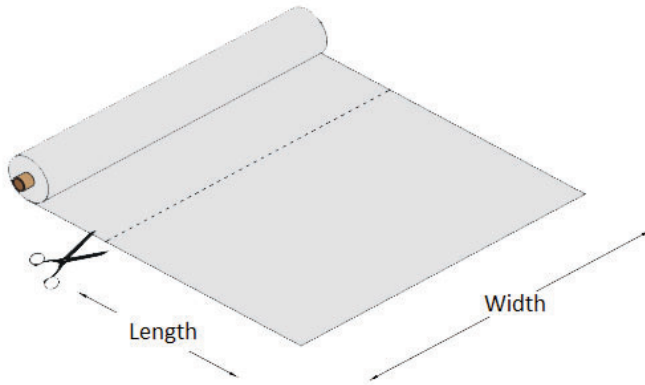
METAL MESH

Product Cutting & Handling

HOW TO CUT METAL MESH:

Mesh is cut away always on the edge of the length to take out the selvage
Cuts are normally done on the length, cuts on the wide are only upon specific request

Tailored shape has to be agreed before proceeding with the cuts.



TOOL SUGGESTIONS:

For cutting and/or shaping metal mesh like STRUTTURA (D.RSS.119.SS), use metal shears on high speed (e.g. BOSCH GSC 12V - 13)

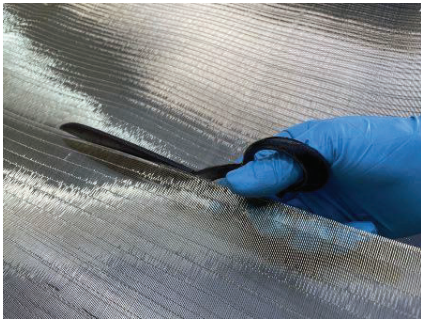


For cutting and/or shaping metal mesh like MODA CBS (D.RSS.102.SSBC), use tailor scissors (e.g. Sullivans 10" Tailor Scissors)

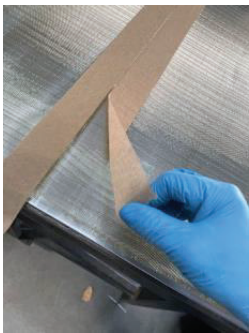


INSTRUCTIONS FOR CUTTING:

Cut along the warp, parallel to warp strands.



Place guides with paper tape to hold the wire before cutting along the weft (preferred method for cutting against the warp strands)



METAL MESH

Product Cutting & Handling

HOW TO HANDLE METAL MESH:

Do not handle the mesh with only one hand, do not push flat mesh on the table



Handle metal mesh with nitrile gloves (ref. UNI EN 420)

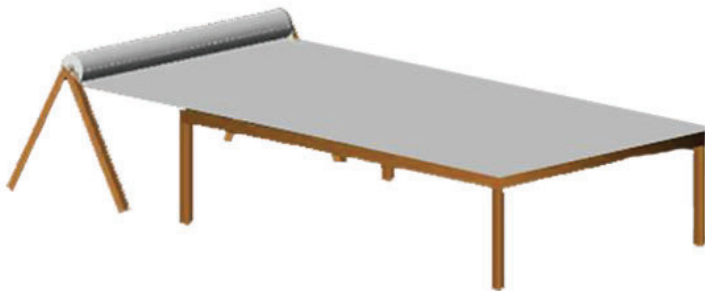
Remove any dirt or dust using soft microfiber cloth

Remove paper and/or metal debris by either brush, air compressed blow on a distance of 30 cm or silicon roller.



To develop roll, use an unwinder stand close to control table.

Avoid surface low of mesh between stand and table.

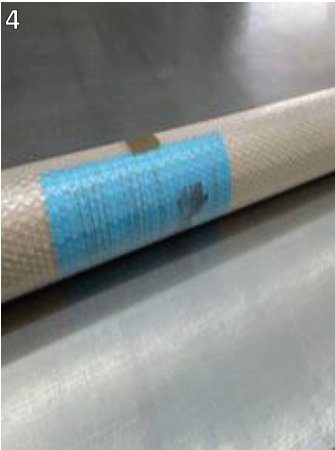


METAL MESH

Product Cutting & Handling

HOW TO HANDLE PACKAGING:

Standard packaging comes wrapped in protective material
Make sure to unpack the metal mesh roll as shown below



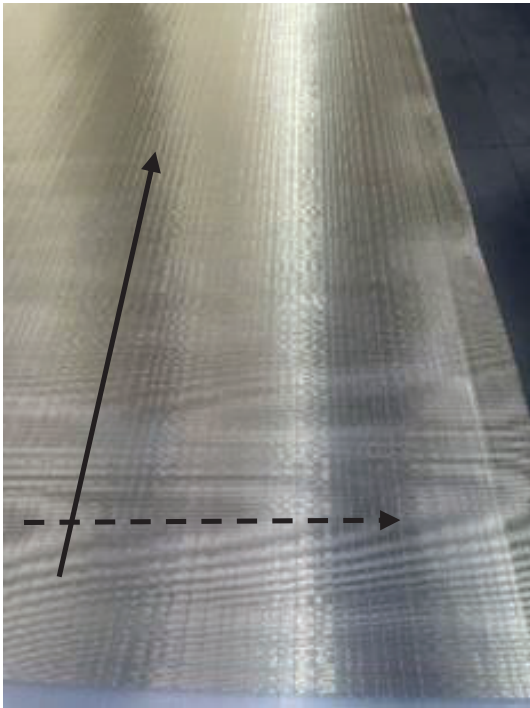
METAL MESH

Product Specification

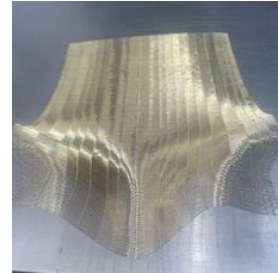
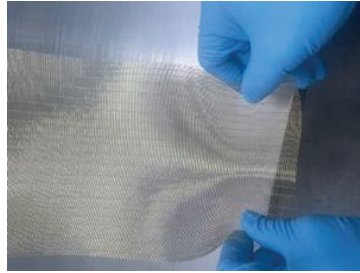
UNDERSTANDING METAL MESH:

Important Terms: (refer to image for clarification)

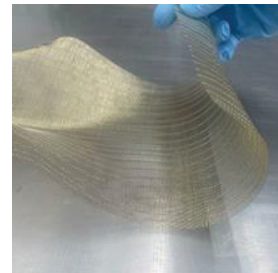
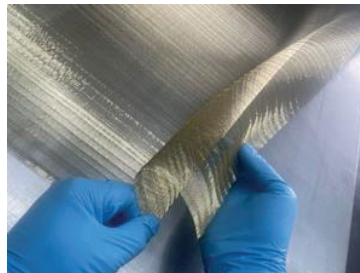
- Selvage - the edge of the metal mesh
- Warp - the lengthwise of the mesh →
- Weft - the cross of the mesh — — →



Weft is rigid, so the mesh can be deformed due to its metallic nature (mind the shape memory)



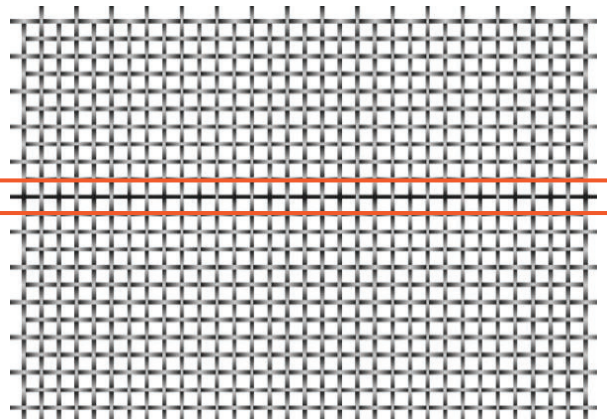
Warp is more flexible than weft (more malleable), although it is still at risk for deformation (shape memory)



MESH FEATURES:

Every mesh has its specification with its design, weight, kind of cross, and raw material. Below lists the main components and how to manage them.

Metal Grain:



This is the natural feature of the metal mesh, which stems from the hoven process. It could be recognized as an imperfection if this feature is replicated every 3.3 meters (~10.8 ft) on the wide of the mesh.

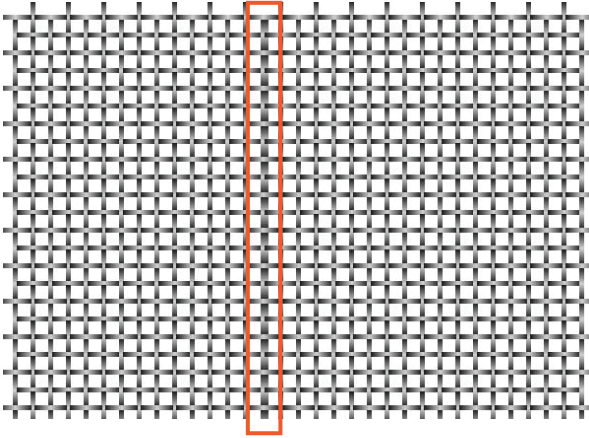
For panels, the portion is cut away/removed.

METAL MESH

Product Specification

MESH FEATURES (cont.)

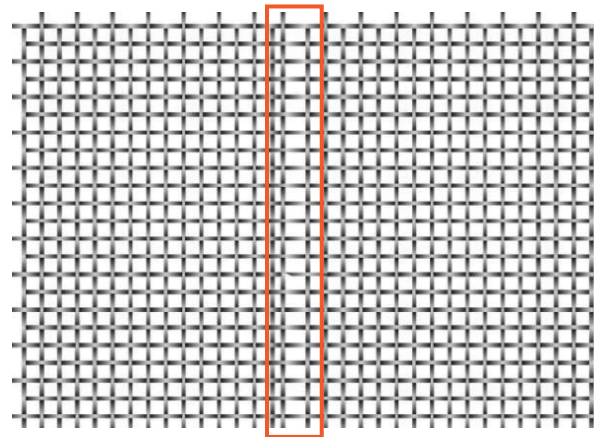
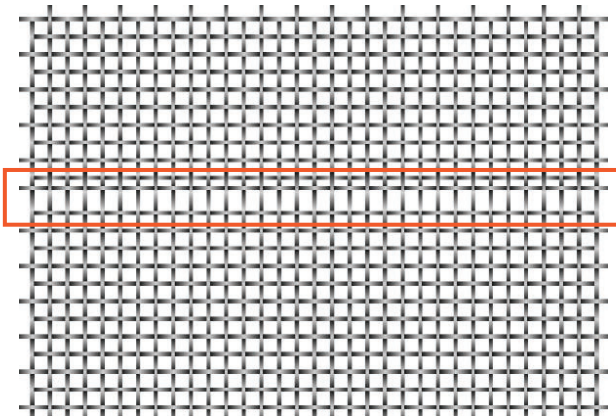
Warp Roughness:



The metal mesh can have a section with warp roughness. It could be recognized as an imperfection if this feature is replicated every 3.3 meters (~10.8 ft) and its more than 30 cm (~11.8 in) on the length of the mesh.

For panels, the portion is cut away/removed.

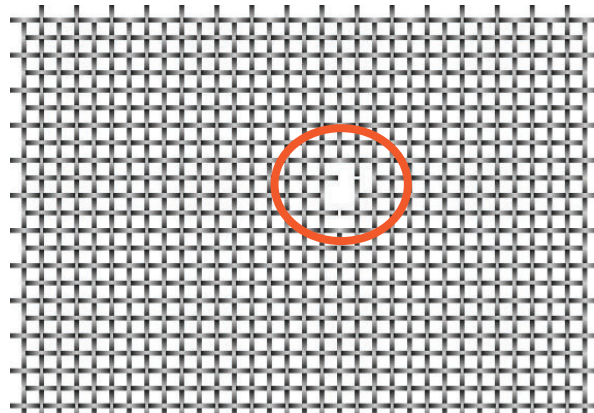
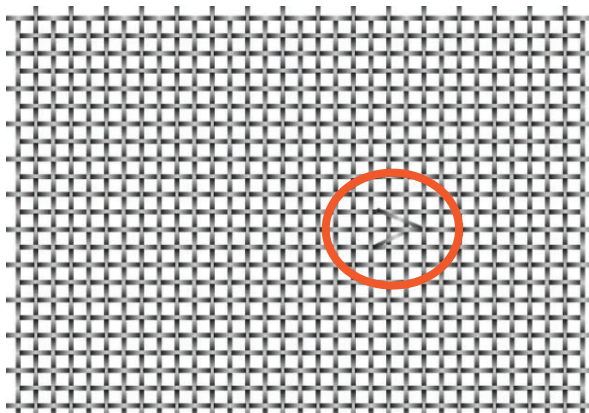
Irregular Patterns:



These gaps can occur on the warp and weft of the mesh and its caused by the wire breaking during the weaving process. These could be recognized as imperfections if these features is replicated every 3.3 meters (~10.8 ft) on the wide of the mesh and/or every 30 cm (~11.8 in) on the length of the mesh.

For panels, these portions are cut away/removed.

Holes and Knots:



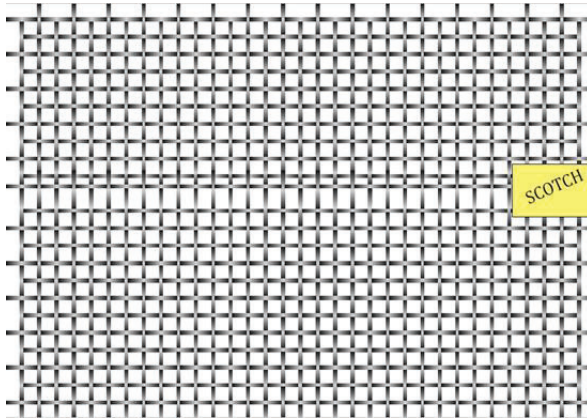
METAL MESH

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These situations happen rarely but can be caused due to various reasons. These could be recognized as imperfections if these features are replicated every 30 cm (~11.8 in) into 3.3 meters (~10.8 ft) on the length of the mesh.

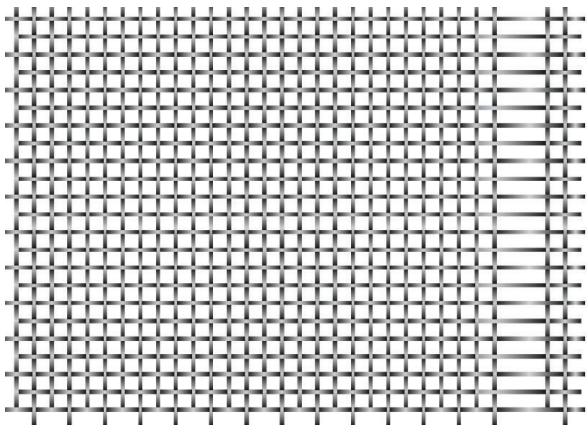
For panels, these portions are cut away/removed.

Mesh Supplied in Roll:



If the mesh is supplied in a roll, the imperfections will be marked on the edge of the mesh with adhesive tape.

Mesh rolls are supplied with selvedge, which can be cut by the user. The quantity sold is calculated excluding the selvedge. Ex. Mesh is sold at a width of 1500 mm and supplied with a selvedge, making the total width 1550 mm. The quantity is calculated based on the 1500 mm width.



LIGHTING:

Metal mesh reacts to light.

If the light source is from the front, the metal is visible.

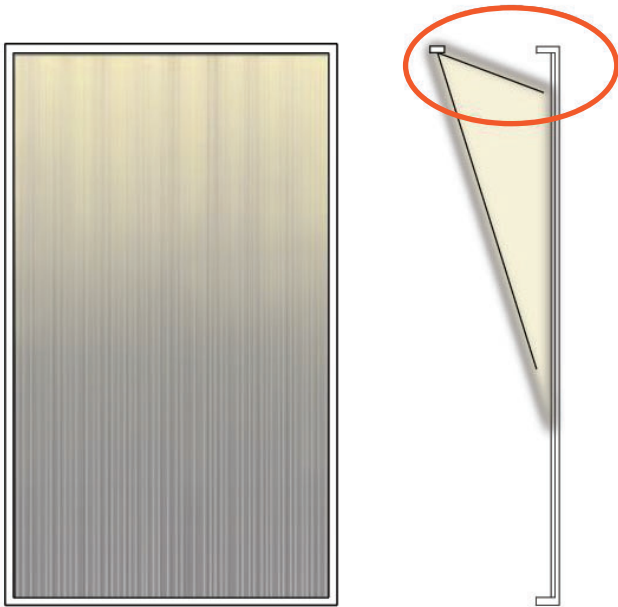
If the light source is from the back, the weave becomes transparent.

(see images on the next page for reference)

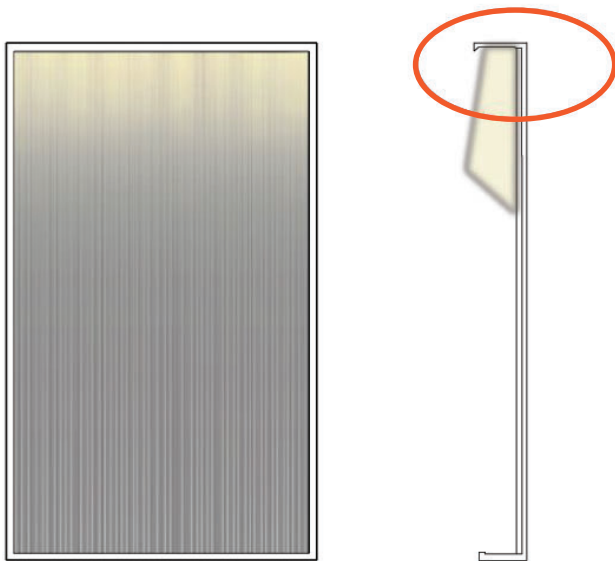
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Product Specification

Ceiling light angled at 45° in the front of woven metal:



LED light perpendicular to woven metal mesh





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