

MDF FORM

Create Curved Shapes Quickly and Easily

DESCRIPTION

Sonae Arauco MDF Form is a medium density fibreboard which can create a variety of shapes like waves, circles and arches in a economical and easy way.

As well as being an easy product to varnish, wax, veneer and coat, MDF Form features precise milling of grooves with exact distance and depth, which makes it possible to make smooth, unaltered curves with a narrow radius.

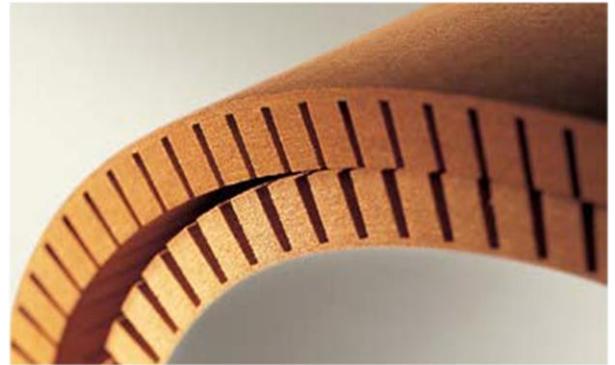
MDF FORM is compliant with limit of ChemVerbotsV (E05).

E05

COMPLIANT WITH
CHEMVERBOTSV (E05)

APPLICATIONS

- Shops and trade shows
- Furniture fronts
- Door arches
- Sales displays
- Counters
- Elegant wall finishes for masonry arches and columns
- Designer pieces
- Stage & Film sets
- Grooved side also ideally suited for use as a design element.



STOCK PROGRAMME AND TECHNICAL DATA

Size	Packaging unit	Colour	Board Thickness	Width of Grooves	Depth of Grooves	Distance between Grooves	Minimum radius
2800x1030	36	Natural	8 mm	2 mm	6 mm	5 mm	 150 mm
2800x1030	30	Natural	10 mm	2 mm	8 mm	5 mm	

RECOMENDATIONS

Due to the production process, slight color variations may occur between batches of MDF Form, especially between sheets of different thicknesses. These variations are normal and unavoidable.

As wood is a natural product that discolors (yellows) when exposed to direct sunlight, it is important not to leave MDF Form sheets in the sun for very long. Applying clear varnish or a suitable wax minimizes the risk of the colour being altered by exposure to light.

Most PUR-based varnishes provide excellent results with just two coats. For visible filled edges, use pigmented varnish, paint, or stain to ensure color consistency.

MDF Form works exceptionally well for painting, staining, or applying clear varnish or lacquer.

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INFORMATION ON USE

How to make a tube

- 1. Build a mold:**
Construct a mold from particleboard with ribs spaced no more than 25 cm apart for a smooth and even curve.
- 2. Apply Adhesive:**
Use a roller to spread D3 or D4 adhesive evenly on the grooved sides of two pre-cut MDF Form panels.
- 3. Join the panels:**
Press the glued panels together. Ensure the outer panel is longer than the inner panel to account for the difference in radii.
- 4. Shape around the mold:**
Wrap the panels around the lower half of the template and secure them with belts.
Apply additional pressure lengthwise between the belts for consistent bonding.
- 5. Cure the assembly:**
Allow the glued part to cure for about five hours. Then, remove it from the mold.
- 6. Smooth the Edges:**
Use a planer to even out the long edges for a precise fit between the upper and lower halves.
- 7. Fill uneven edges (if necessary):**
Apply a joint-filling, two-component adhesive to uneven spots. Use PU adhesive if the halves fit together perfectly.
Use a spatula to spread the adhesive.
- 8. Assemble the tube:**
Apply adhesive to the long edges, then place the upper half on top of the lower half.
Wrap adhesive tape around the mold to prevent sticking and secure the parts with belts. Insert paper strips between belts and glued joints to avoid adhesion.
Alternatively, join the halves without the template using dowels or flat springs for a tight fit.
- 9. Sand the Surface:**
Smooth the outer surface with sandpaper or a rounded sanding block.
- 10. Fill seams:**
Use a two-component adhesive to fill any open seams for a polished finish.

How to make a wave shape

- 1. Build a mold:**
Construct a mold from particleboard with ribs spaced no more than 25 cm apart for a smooth and even curve.
- 2. Protect the mold and panels:**
Apply edge strips or adhesive tape to the ribs. This allows the MDF panels to slide smoothly during shaping while preventing surface damage.
- 3. Moisten for tight radii (optional):**
For extremely tight curves, moisten the outer surfaces of the MDF panels to increase flexibility.
- 4. Apply adhesive:**
Use a roller to spread D3 or D4 adhesive evenly on the grooved sides of two pre-cut MDF Form panels.
- 5. Position the panels in the template:**
Place the adhesive-coated panels between the upper and lower halves of the template.
- 6. Press the panels:**
Compress the panels using screw clamps, screw presses, or hydraulic presses. Hydraulic presses are particularly efficient for this process.
- 7. Cure the shaped part:**
Allow the assembled part to cure in the template for about five hours. Then, carefully remove it.
- 8. Sand the surface:**
Smooth the curved surfaces of the shaped part with sandpaper as desired.
- 9. Fill the seams:**
Use a two-component adhesive to fill any open seams. Apply the adhesive with spatula for a clean finish.

Painting and Varnishing

- 1. Sealing:**
Use a PUR-based, two component sealants from a trusted paint or varnish brand.
Sealing prevents cracks from forming in the edges and faces of the panels.
Some varnishes and paints also seal the surface, making this step optional.
- 2. Priming:**
After sealing, sand the panel once or twice.
Apply a pigmented filler as a primer for MDF Form
For a superior finish, sand again and apply a second primer coat .Note: priming is unnecessary if applying clear varnish.
- 3. Varnish or Paint Application:**
Choose a varnish or paint type suitable for your project. Many options are compatible with MDF Form. Follow the manufacturer's application instructions for the best results.
For additional guidance, feel free to request detailed varnishing and painting advice.

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Taking wood further