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Company Brief:

Mass Transit Equipment India LLP (MTEI) was established in the year of 2019 envisioning the ever evolving future of aluminium honeycomb core & aluminium honeycomb panels. We are proud to acknowledge ourselves as India's leading and one of the few renowned manufacturers of aluminium honeycomb core in India.

Our Journey started as a trader of aluminium core from China for our parent company which was founded in 1975, a leading manufacturer of artificial leather, laminates, FRP, GFRE, honeycomb panels, PU form and other building materials supplying majorly to the Indian Railways & Defense.

What We Do:

MTE India manufactures high quality aluminium honeycomb core material which is used in a wide variety of applications worldwide. Aluminium honeycomb is highly desirable due to its incredibly high strength-to-weight ratio and is applicable

MASS

wherever lightness and strength are required. MTE India supplies high quality aluminium honeycomb to global markets including the Aerospace, Marine, Defence, Rail and Automotive industries.

Our Facility:

Built in 2019 & located in Changodar Gujarat, our production line of aluminium honeycomb core consists of fully automated, state of the art, functional machinery procured from Europe. With a monthly capacity of 200 metric tonnes, we are able to fulfil the increasing demand of our many customers from various industry verticals at highly competitive prices.

Our Products Capacity:

- Aluminium Honeycomb Panels 600,000 SQM Annually
- Aluminium Honeycomb Core & Corrugated Core 5 Million SQM Annually
- Marble, Granite & Ceramic Honeycomb Composite Panel 100,000 SQM Annually
- FRP Honeycomb Panel 100,000 SQM Annually
- Rock Wool Sandwich Panel 100,000 SQM Annually
- Solit Aluminium Sheet 3 Million SQM Annually

Our Competitive Advantages:

Mass Transit Equipment India Ltd boasts a strenuous R&D department comprising highly experienced engineers & technicians.

Our in-house secret recipe, the glue used in making aluminium honeycomb core is our competitive advantage over our competitors.

The revolutionary glue mix is unique to Mass Transit Equipment India making us the only firm in India to manufacture high quality, durable, light weight aluminium honeycomb core materials.



Why Aluminium Honeycomb Core:

- It is light-weight 1/3 the weight of steel.
- It is strong, corrosion-resistant and a good conductor of heat and electricity.
- 100% recyclable, without any loss of its natural qualities.
- It is easy to shape, form and fabricate.
- Aluminium does not burn it melts at 650 degrees centigrade When alloyed with another metal like Silicon or Magnesium, it can be stronger than Steel.

Vast Applications of Aluminium Honeycomb Panels:

- Continuous facades
- Marble support
- Clean rooms
- Vans and trucks
- Furniture, doors, bulkheads and deckchairs for boating
- Railway flooring, ceiling, panels.
- Bespoke Furniture

Our Products Portfolio:

Our range can be supplied in a variety of conditions, tailored to the individual needs of the customer.

Expanded or unexpanded

Full blocks or cut slices

Perforated or unperforated

Corrosion treated or untreated

Aluminium Alloy Grade 3003 or 5052

Our standard honeycomb can be expanded to the following sizes and depending on the cell size we can tailor it to your requirements.

W 2500mm x L 1250mm

W 3000mm x L 1500mm



Currently we cater to sizes

| 6 MM |
|--------|
| 6.4 MM |
| 7.4MM |
| 9ММ |
| 12MM |

^{*}Other block sizes are available on request. Depending on cell size and customer requirement.

Mass Transit Equipment India LTD Currently Deals In:

- PLY Aluminium Honeycomb Panel
- Stone Aluminium Honeycomb Panel
- HPL Honeycomb Aluminium Panel
- Aluminium Honeycomb Panel
- FRP Honeycomb Panel

PLY Aluminium Honeycomb Panel:

- Mass Transit Equipment India LTD is the top manufacturer of Plywood Aluminium honeycomb sandwiched with aluminium honeycomb core and faced with plywood.
- We cater to different design requirements of our clients with a wide range of selection of PLY-ALU used in interior design and furniture.



Technical specifications:

| Aluminium Core Type | ALU Ø9.0 - 54kg/m ³ -3003 | | | | |
|--------------------------|--------------------------------------|------------------|-----|-----|-----|
| Total Thickness mm | 15 | 20 | 25 | 30 | |
| Skin Thickness mm | Тор | 3.5 | 3.5 | 3.5 | 3.5 |
| | Bottom | 3.5 | 3.5 | 3.5 | 3.5 |
| Core Thickness mm | 8 | 13 | 18 | 23 | |
| Weight Kg/m ² | 4.9 | 5.1 | 5.4 | 5.7 | |
| Temperature Resista | Approximately -40°C to +80° | | | | |
| Flatness | | 1.0 mm per meter | | | |

Stone Aluminium Honeycomb Panel:

- Mass Transit Equipment India LTD manufactures high grade Stone Honeycomb Panels which are natural stone composite panels consisting of a thin stone veneer and an aluminium honeycomb backing.
- The stone veneer can be almost any stone including granite, marble, limestone, travertine and onyx.
- Combining the aerospace technology of aluminium honeycomb with the timeless beauty of natural granite, marble and limestone, it can be used for a wide variety of applications including those typically considered weight or cost-prohibitive.
- They have been used extensively in exterior, interior, renovation, elevator, and specialty applications. Stone Honeycomb Panel average weight is 16 kg/sq. m, which is approximately 80% less weight than solid stone.
- This weight savings alone provides huge savings in installation labour, structural requirements, and installing time.



 Tough, durable Stone Honeycomb Panels offer fantastic impact resistance and flexural strength. They can resist up to 60 times more impact than solid 3 cm thick granite.

HPL Honeycomb Aluminium Panel:

- Mass Transit Equip India LTD is India's top HPL-ALU Honeycomb Panel or High Pressure Laminate Honeycomb Panel manufacturer.
- HPL-ALU is a sandwiched panel bonded with high pressure laminate consisting of aluminium honeycomb core.
- HPLALU is known for its generous mechanical properties and highly fire retardant performances.
- It is widely applied in the shipbuilding, aerospace, and railway sector where lightness & no hu ire properties are mandatory.
- The laminate face material can be customised in different RAL colours, thickness and coatings as per the design specification. We also provide tailored dimensions as per the clients requirements ensuring the highest quality of HPL-ALU at competitive prices.

Technical specifications:

| Aluminium Core Type | | ALU Ø9.0 - 54kg/m ³ -3003 | | | | | |
|--------------------------|--------|--------------------------------------|-----|-----|-----|-----|--|
| Total Thickness mm | | 10 | 12 | 15 | 20 | 20 | |
| Skin Thickness mm | Тор | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | |
| | Bottom | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | |
| Core Thickness mm | | 8 | 10 | 13 | 18 | 23 | |
| Weight Kg/m ² | | 3.9 | 4.0 | 4.2 | 4.5 | 4.7 | |
| Temperature Resistance | | Approximately -40°C to +80° | | | | | |
| Flatness | | 1.0 mm per meter | | | | | |
| Finish | | Wooden/Stone/RAL Colours Avaliable | | | | | |

Mass Transit Equipment LLP India.

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Aluminium Honeycomb Panel:

- Mass Transit Equipment India LTD is the top manufacturer of Aluminium honeycomb panels that is bonded with aluminium face material with a core in aluminium honeycomb.
- Mass Transit Equip makes lightweight, structural composite sandwich boards which are high in strength without adding the weight to primary and secondary panel structures.
- This in turn saves time and reduces labour in various production industries.
 These aluminium honeycomb panels offer a high strength to weight ratio
 making them a suitable substitute of Plywood and OSB where weight
 reduction is prioritised.

Technical specifications:

| Aluminium Core Type | | ALU Ø9.0 - 54kg/m ³ -3003 | | | | | |
|--------------------------|--------|--------------------------------------|-----------|------------|------------|--|--|
| Total Thickness mm | | 6.4(1/4") | 9.6(3/8") | 12.7(1/2") | 19.1(3/4") | | |
| Skin Thickness mm | Тор | 0.7 | 0.7 | 0.7 | 0.7 | | |
| | Bottom | 0.7 | 0.7 | 0.7 | 0.7 | | |
| Core Thickness mm | | 5.0 | 8.2 | 11.3 | 17.7 | | |
| Weight Kg/m ² | | 4.9 | 5.1 | 5.3 | 5.6 | | |
| Temperature Resistance | | Approximately -40°C to +80° | | | | | |
| Flatness | | 1.0 mm per meter | | | | | |
| Skin alloy | | AL 1100 / AL 3003 | | | | | |

FRP Honeycomb Panel:

- Mass Transit India Equipment LTD is India's top manufacturer of FRP honeycomb panels.
- FRP-ALU is a lightweight composite panel with an aluminium honeycomb core faced with glass fibre impregnated with epoxy resin.

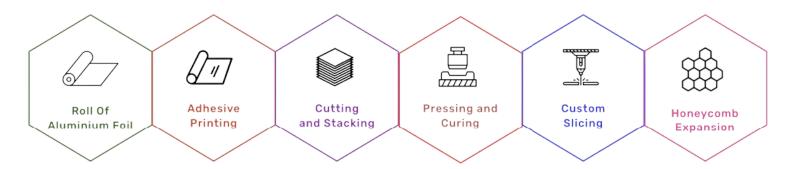


- This panel has the most unique characteristics making it the most lightweight, durable, corrosion free solution in many applications.
- The structure of FRP honeycomb aluminium makes it highly cost effective as far as weight & thickness are concerned.
- Mass Transit Equipment India ltd offers our clients a wide range of different dimensions and specifications of FRP aluminium honeycomb to choose from.

Technical specifications:

| Aluminium Core Type | | ALU Ø9.0 - 54kg/m ³ -3003 | | | | | |
|--------------------------|-----------------------------|--------------------------------------|-----|-----|-----|-----|--|
| Total Thickness mm | 10 | 12 | 15 | 20 | 25 | | |
| Skin Thickness mm | Тор | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | |
| | Bottom | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | |
| Core Thickness mm | 8 | 10 | 13 | 18 | 23 | | |
| Weight Kg/m ² | 4.0 | 4.1 | 4.2 | 4.5 | 4.8 | | |
| Temperature Resista | Approximately -40°C to +80° | | | | | | |
| Flatness | 1.0 mm per meter | | | | | | |
| Finish | RAL Colours Avaliable | | | | | | |

Our Aluminium Honeycomb Manufacturing Process:

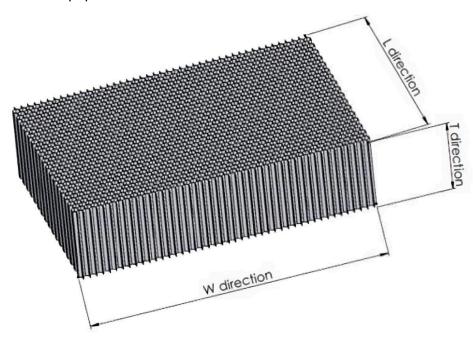


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The illustration above shows the manufacturing process step by step, with the description of each stage below:

- Aluminium honeycomb manufacturing begins life as a roll of foil.
- Foil is passed through a printer for adhesive lines to be printed.
- Once the lines are printed, the foil is cut to size and stacked into piles using our stacking machine.
- These stacked sheets are pressed using a heated press to allow the adhesive to cure and bond the sheets of foil together to form a block of honeycomb.
- The block of honeycomb can be cut into slices. The thickness of the slices can be tailored to each customer's individual requirements.
- Finally, the honeycomb is expanded, which completes the manufacturing process.
- The honeycomb core can be used sandwiched in-between two aluminium alloy skins to create an aluminium composite panel.
- The most popular honeycomb manufacturing methods of sandwich panel construction are:
- Heated Press Used for the production of flat board or simple panels.
- In its unexpanded form, aluminium honeycomb is very compact and easy to ship cost effectively and with minimal risk of damage.
- Unexpanded cut slices with a large cell size or thinner slice can be easily expanded into their full sheet form, without the need for sophisticated equipment



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W = Transverse direction(perpendicular to core ribbon)

L = Longitudinal direction(parallel to core ribbon)

T = Thickness

Honeycomb blocks can be cut to thicknesses to suit individual customer requirements. Using the latest cutting technology, Corex Honeycomb is able to supply slices up to a tolerance of ± 0.125 mm with a minimum slice thickness of 6mm.

Contact Details:

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