

## ALUMINIUM HONEYCOMB

### Product Description:

Aluminum Honeycomb is an industrial grade honeycomb made of 3000 series aluminum foil coated against corrosion.

### Application Areas:

- Airline
- Automotive
- Transportation Vehicles
- Machinery Industry
- It is used in advanced composite applications.

### Features and Advantages:

- Lightweight
- High compressive strength
- Corrosion resistance
- Easy cutting, practical application
- Material of 3000 series aluminum foil

### Technical Specifications:

|                               |                                 |                  |
|-------------------------------|---------------------------------|------------------|
| Color                         | Gray                            |                  |
| Cell Diameter                 | 6mm                             |                  |
| Foil Thickness                | 40-100 microm                   |                  |
| Core Thickness                | 18mm                            |                  |
| Operating Temperature         | -40 / +80                       |                  |
| Density                       | 83kg/m3                         |                  |
| Width x Height                | 125cmx250cm                     |                  |
| Standard Extended Dimensions: | 1250 x 2500 mm / 1500 x 3000 mm |                  |
| Cutting Tolerance Class A     | +/- 0.05mm                      | Optional         |
| Cutting Tolerance Class B     | +/- 0.1mm                       | Standard quality |
| Cutting Tolerance Class C     | +/- 0.3mm                       | Optional         |

### Alüminyum Honeycomp - 3000 - Ø1/4 - 3.5 - L60" - W120" - P - T .4" - B - EX

**(3000)** : 3000 series alüminyum honeycomb ,

**(Ø1/4 )** : Cell diameter ¼ inch , **3.5** : density (3,5 pcf)(56 kg/m3),

**L60" - W120"** : Extended measure (60x120 inch) (1500x3000mm) ,

**P** : hole (P),

**T .4"** : thickness T 0,4 inch (10mm),

**B** : cutting tolerance (B) +/- 0,004 inch (+/- 0,1mm) ,

**EX** : Extended.

| Alüminyum<br>Honeycomp<br>Designation | Ø    | Ø    | foil | Density           | Compressive<br>strength |            | Crush | Plate Shear    |              |                |              |
|---------------------------------------|------|------|------|-------------------|-------------------------|------------|-------|----------------|--------------|----------------|--------------|
|                                       | inch | mm   | µm   | kg/m <sup>3</sup> | plain                   | stabilised | Mpa   | In L direction |              | In W direction |              |
|                                       |      |      |      |                   | Mpa                     | Mpa        |       | Mpa            | Modul<br>Mpa | Mpa            | Modul<br>Mpa |
| Alüminyum<br>Honeycomp<br>3000        | 1/4  | 6.35 | 50   | 56                | 2.20                    | 3.50       | 0.90  | 1.70           | 327          | 0.95           | 172          |
|                                       | 3/8  | 9.52 | 50   | 40                | 1.20                    | 1.90       | 0.50  | 1.10           | 214          | 0.65           | 107          |
|                                       | 1/2  | 12.7 | 50   | 29                | 0.65                    | 0.95       | 0.30  | 0.70           | 143          | 0.40           | 68           |
|                                       | 3/4  | 19.1 | 50   | 20                | 0.35                    | 0.60       | 0.15  | 0.40           | 90           | 0.30           | 40           |
|                                       | 1    | 25.4 | 50   | 14                | 0.20                    | 0.30       | 0.10  | 0.25           | 58           | 0.20           | 24           |
|                                       |      |      |      |                   |                         |            |       |                |              |                |              |
|                                       | 1/4  | 6.35 | 60   | 68                | 3.10                    | 3.90       | 1.25  | 2.15           | 417          | 1.25           | 226          |
|                                       | 3/8  | 9.52 | 60   | 45                | 1.50                    | 2.15       | 0.65  | 1.25           | 249          | 0.75           | 126          |
|                                       | 1/2  | 12.7 | 60   | 34                | 0.90                    | 1.20       | 0.40  | 0.85           | 175          | 0.55           | 85           |
|                                       | 3/4  | 19.1 | 60   | 23                | 0.45                    | 0.70       | 0.20  | 0.50           | 107          | 0.35           | 49           |
|                                       | 1    | 25.4 | 60   | 17                | 0.25                    | 0.40       | 0.10  | 0.35           | 74           | 0.25           | 32           |
|                                       |      |      |      |                   |                         |            |       |                |              |                |              |
|                                       | 1/4  | 6.35 | 70   | 80                | 4.15                    | 4.30       | 1.65  | 2.70           | 511          | 1.50           | 284          |
|                                       | 3/8  | 9.52 | 70   | 54                | 1.95                    | 2.55       | 0.85  | 1.60           | 312          | 0.95           | 163          |
|                                       | 1/2  | 12.7 | 70   | 40                | 1.20                    | 1.50       | 0.50  | 1.10           | 214          | 0.65           | 107          |
|                                       | 3/4  | 19.1 | 70   | 27                | 0.60                    | 0.85       | 0.25  | 0.60           | 131          | 0.40           | 61           |
|                                       | 1    | 25.4 | 70   | 20                | 0.35                    | 0.50       | 0.15  | 0.40           | 90           | 0.30           | 40           |