

Aluminum Honeycomb Panel

Panel's Composition

SKIN OF ALUMINUM

Alloy: 5754, 5052, 3003, 1200

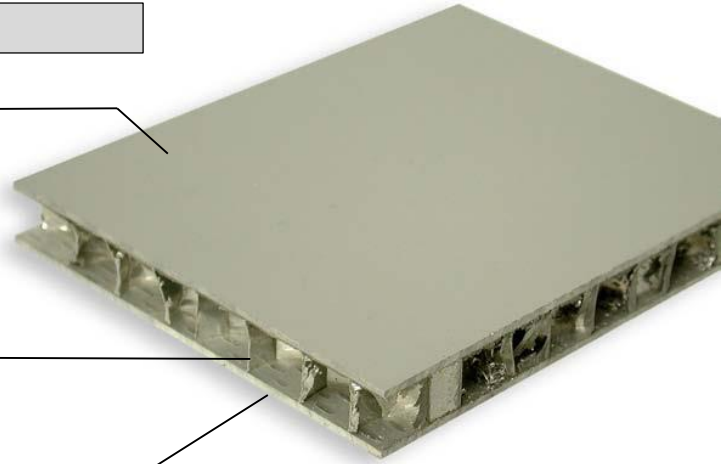
Thickness: 0.5mm, 0.7mm, 0.8mm, 1.0mm, 1.5mm

CORE

Aluminium honeycomb (Alloy 3003)
 with hexagonal cells

Cell Size [D] mm: 6, 9, 12, 19, 25

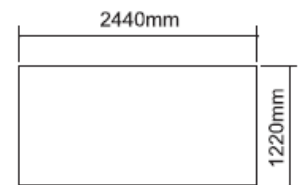
Density: from 20 to 85 Kg/m³



On request: - other thicknesses from 6mm – 200mm
 - powder coating and RAL colors and other alloys

| Panel's Weight | | | | | |
|--------------------------------|-----------|-----|-----|-----|-----|
| • Honeycomb core ALU 9mm | | | | | |
| Total thickness mm | 10 | 15 | 20 | 25 | 30 |
| SKINS' thickness mm | 1.0 + 1.0 | | | | |
| CORE'S thickness mm | 8 | 13 | 18 | 23 | 28 |
| Weight kg/m² | 6.6 | 6.9 | 7.2 | 7.4 | 7.7 |

Standard Dimensions
 (other dimensions available on request)



| Honeycomb core's Properties | | | | | |
|--|----------------------|------|------|------|------|
| Type | ALUMINIUM ALLOY 3003 | | | | |
| Effective Temperature Range °C | From - 50 to + 175 | | | | |
| Cell Size mm [D] | 6 | 9 | 12 | 19 | 25 |
| Density [kg/m³] | 85 | 54 | 38 | 30 | 20 |
| Compressive Bare Strength [kg/mm²] | 0.47 | 0.26 | 0.14 | 0.09 | 0.05 |
| Crush Strength [kg/mm²] | 0.19 | 0.08 | 0.05 | 0.03 | 0.02 |
| Bonding Strength [kg/mm²] | 36 | 28 | 26 | 21 | 19 |
| Compressive Stabilised Strength [kg/mm²] | 0.50 | 0.27 | 0.15 | 0.09 | 0.06 |
| Compressive Stabilised Modulus [kg/mm²] | 111 | 67 | 31 | 18 | 12 |

