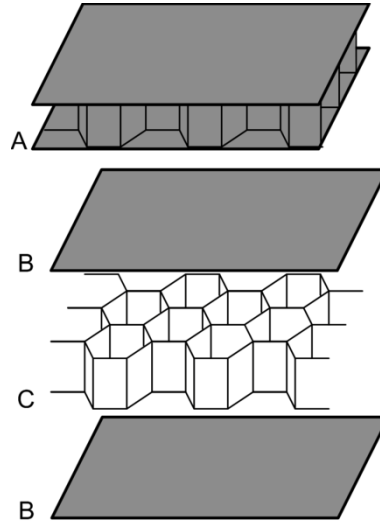


The CORETEX Group



Innovative lightweight honeycomb cores, panels, composites, adhesives, process equipment & consultancy

ALUMINIUM HONEYCOMB



Aluminium Honeycomb is typically used as a structural core material in lightweight honeycomb panels. Its properties are:

- ✓ Lightweight
- ✓ Non Combustable
- ✓ Recyclable
- ✓ Electrical and Thermal Conductor
- ✓ Excellent Flatness
- ✓ Strong in Compression and Shear

Provided in 3 types

1. Block (HOBE)
2. Cut Unexpanded Slices
3. Expanded Sheets

Basic Data:

Alloy: 3003, (5000 series soon)
 Foil thickness: 50 and 70microns
 Cell Sizes: 1/4", 3/8", 1/2", 3/4" (6mm, 19mm, 12mm, 19mm)
 Standard Dimension: 1250mm x 2500mm and 1500mm x 3000mm
 Special Dimensions: upto 1800mm x 9000mm
 Thickness: 5mm to 980mm (+/- 0.1mm)

When ordering, the product is defined as follows:

Data = 3000 - 1/4" - 56 - L1500 - W3000 - P/NP - T10 - B - EX/NEX
 Code = 1 2 3 4 5 6 7 8

1. 3000 series Aluminium foil
2. Cell size 1/4" inch
3. Density 56Kg/m³
4. Expanded dimensions: 1500mm length x 3000mm width
5. P = Perforated Foil / NP = Non Perforated Foil
6. Thickness: 10mm
7. Cutting Thickness Tolerance: Class B (+/- 0.1mm)
8. EX = Expanded Sheet / NEX = Non Expanded Slice

Mechanical Properties:

ALUCOAT designaation	Ø inch	Ø mm	Foil µm	Density kg/m ³	Compressive Strength		Crush Strength Mpa	Plate Shear			
					plain Strength Mpa	Stabilised Strength Mpa		In Ldirection		In W direction	
					Mpa	Mpa	Mpa	Strength Mpa	modulus Mpa	Strength Mpa	modulus Mpa
ALUNID 3000	1/4	6.35	50	56	2.20	3.50	0.90	1.65	327	0.97	172
ALUNID 3000	3/8	9.52	50	40	1.20	1.95	0.50	1.10	214	0.64	107
ALUNID 3000	1/2	12.7	50	29	0.70	0.95	0.30	0.70	143	0.43	68
ALUNID 3000	3/4	19.1	50	20	0.35	0.60	0.15	0.40	90	0.28	40
ALUNID 3000	1/4	6.35	70	80	4.15	4.30	1.65	2.70	511	1.50	284
ALUNID 3000	3/8	9.52	70	54	2.00	2.60	0.85	1.60	312	0.95	163
ALUNID 3000	1/2	12.7	70	40	1.20	1.50	0.50	1.10	214	0.65	107
ALUNID 3000	3/4	19.1	70	27	0.60	0.85	0.25	0.65	131	0.40	61