

Composition

Through a proprietary continuous manufacturing process, **Alucoil*** produces its structural aluminum honeycomb panel **larcore*** to fit perfectly in numerous sectors such as marine, railway and industrial applications. It is an extremely lightweight and rigid panel which is fire proof, non-toxic, recyclable, insulating, and energy efficient.

After an intensive R&D effort, **Alucoil*** has managed to combine the natural qualities of the honeycomb structure with its industrial experience in the manufacturing of structural metal panels, obtaining a final product capable of offering complete solutions for different project requirements.

Panel features

5,5±0,2	6,0±0,2	10,0±0,2	15,0±0,2	20,0±0,2	25,0±0,2	30,0±0,2	40,0±0,2
0,5	1,0	1,0	1,0	1,0	1,0	1,0	1,0
0,5	0,5	0,5	1,0	1,0	1,0	1,0	1,0
5754	5754	5754	5754	5754	5754	5754	5754
3,62	4,97	5,19	6,78	7,05	7,32	7,59	7,60
0,53(2)	0,79	3,16	9,99	20,55	35,61	49,60	76,07(2)
3727(2)	5519	22169	69964	143868	249289	347169	532467 ⁽²⁾
2,39(2)	2,63	4,92	13,32	20,55	28,49	33,06	38,03(2)
18,75 ⁽²⁾	19,0 ⁽²⁾	20,0(2)	21,25(2)	22,5(2)	23,75(2)	25(2)	27,5 ⁽²⁾
19,5 ⁽²⁾	19,6 ⁽²⁾	20,3(2)	21,18(2)	22,16(2)	23,21 ⁽²⁾	24,3(2)	26,15 ⁽²⁾
0,0065(2)	0,0063(2)	0,0074(2)	0,0084(2)	0,0089(2)	0,0093(2)	0,0099(2)	0,011(2)
1000 ⁺² / ₀ / 1250 ⁺² / ₀ / 1500 ⁺² / ₀ / 2000 ⁺² / ₀							
2000∜ - 14000∜							
3/8" / 9,52 mm							
70µ					50µ		
	0,5 0,5 5754 3,62 0,53 ⁽²⁾ 3727 ⁽²⁾ 2,39 ⁽²⁾ 18,75 ⁽²⁾	0,5 1,0 0,5 0,5 5754 5754 3,62 4,97 0,53 ⁽²⁾ 0,79 3727 ⁽²⁾ 5519 2,39 ⁽²⁾ 2,63 18,75 ⁽²⁾ 19,0 ⁽²⁾ 19,5 ⁽²⁾ 19,6 ⁽²⁾	0,5 1,0 1,0 0,5 0,5 0,5 5754 5754 5754 3,62 4,97 5,19 0,53 ⁽²⁾ 0,79 3,16 3727 ⁽²⁾ 5519 22169 2,39 ⁽²⁾ 2,63 4,92 18,75 ⁽²⁾ 19,0 ⁽²⁾ 20,0 ⁽²⁾ 19,5 ⁽²⁾ 19,6 ⁽²⁾ 20,3 ⁽²⁾ 0,0065 ⁽²⁾ 0,0063 ⁽²⁾ 0,0074 ⁽²⁾	0,5 1,0 1,0 1,0 0,5 0,5 0,5 1,0 5754 5754 5754 5754 3,62 4,97 5,19 6,78 0,53(2) 0,79 3,16 9,99 3727(2) 5519 22169 69964 2,39(2) 2,63 4,92 13,32 18,75(2) 19,0(2) 20,0(2) 21,25(2) 19,5(2) 19,6(2) 20,3(2) 21,18(2) 0,0065(2) 0,0063(2) 0,0074(2) 0,0084(2) 1000% / 1250% / 2 2000% / 1250% / 2	0,5 1,0 1,0 1,0 1,0 0,5 0,5 0,5 1,0 1,0 5754 5754 5754 5754 5754 3,62 4,97 5,19 6,78 7,05 0,53(2) 0,79 3,16 9,99 20,55 3727(2) 5519 22169 69964 143868 2,39(2) 2,63 4,92 13,32 20,55 18,75(2) 19,0(2) 20,0(2) 21,25(2) 22,5(2) 19,5(2) 19,6(2) 20,3(2) 21,18(2) 22,16(2) 0,0065(2) 0,0063(2) 0,0074(2) 0,0084(2) 0,0089(2) 1000*6 - 14000*6 3/8" / 9,52 mm	0,5 1,0 <td>0,5 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0 0,5 0,5 0,5 1,0 1,0 1,0 1,0 1,0 1,0 5754 5754 5754 5754 5754 5754 5754 575</td>	0,5 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0 0,5 0,5 0,5 1,0 1,0 1,0 1,0 1,0 1,0 5754 5754 5754 5754 5754 5754 5754 575

⁽¹⁾Value measured in the transversal axis

Core characteristics

Aluminium alloy	3005 [EN 573-3]	
Compression resistance	2,00 MPa	1,20 MPa
Core density	54 kg/m³	40 kg/m ³
Protective primer	OK	
Finishes Coated surface	Polyester 25 ⁻¹⁰ µ Primer 5 ⁻² µ Film PVC 100-200µ	
Coated Surface	ΓΙΙΙΤΙ Ε V C 100-200μ	

⁻ Extended technical data sheet under request -

⁽a) Panells 5,5 and 40mm thickness not tested / Sound reduction, Acoustic isolation and thermal resistance not tested in any panel thickness



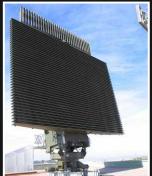














CERTIFICATES MARINE

1.- MED approval – IMO Modules B+D for surface materials and floor coverings with low flame-spread characteristics (veneers and floorings)

 2.- IMO FTPC Part 1 – Class C non-combustible

3.- RS type approval – Russian Maritime Register of Shipping

FIRE TEST MARINE

1.- IMO FTPC Part 1-2-5 (Non-combustibility aluminium honeycomb core, smoke density and toxicity and surface flammability)

FIRE TEST RAILWAYS

1.- EUROPE [EN 45545-2:2013]

R1-2-3-6-7-8-9-10-11-12-17-19-21 for HL1, HL2 and HL3
2.- SPAIN [UNE EN 23721-27] M1
3.- FRANCE [NF P 92501] M0 - [NF F 16-101] F1

Transport and Industry

New projects in marine, railways, trucks, elevators, buses, aircrafts and other applications will get lighter, stronger, more rigid and energy efficient constructions. **larcore*** achieves a perfect balance between weight, rigidity and fireproofing classification being an ideal material for the manufacturing of transport and industrial components.

