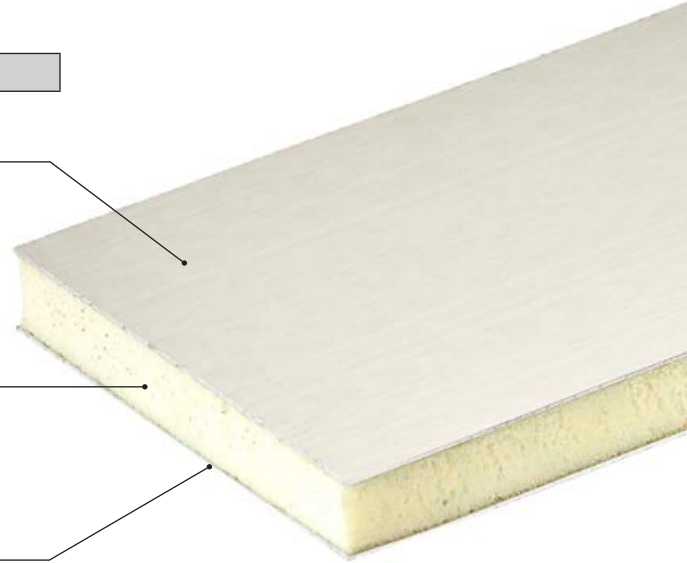


Compocel® Alf

Panel's composition

SKINS OF ALUMINIUM pre-painted in white,
Thickness mm: 1,0

CORE
Foam



On request: • skin in different colours
• different types of foam cores and densities (see foams sheet)

Technical data sheet for standard panels (dimensions, materials and special finishes on request)

| TECHNICAL CHARACTERISTICS OF PANEL | | Technical data sheet for standard panels (dimensions, materials and special finishes on request) | | | | | | | | | | | | |
|--|---------------------------------|--|--|--------------------------|--------|--------|--------|-----------|--------------------------|--------|----------|----------|----------|----|
| | | 10 | | | | | 15 | | | | | 20 | 25 | 30 |
| TECHNICAL CHARACTERISTICS OF PANEL | Panel Thickness | mm | from 5 to 100 | | | | | | | | | | | |
| | panel size | mm | standard 1250x2500/1500x3000 other dimensions on request | | | | | | | | | | | |
| | thickness' tolerance | mm | ±0,4 | | | | | | | | | | | |
| | dimension's tolerance | mm | ± 30 | | | | | | | | | | | |
| | planarity ** | mm / m | 1 | | | | | | | | | | | |
| | skins' thickness | mm | from 0,5 to 5,0 | | | | | | | | | | | |
| | skin alluminium alloy | | 1000 series, 3000 series, 5000 series | | | | | | | | | | | |
| | core materials | | PET foam/PVC foam | | | | | | | | | | | |
| | foam density | Kg/m³ | from 40 to 250 | | | | | | | | | | | |
| | adhesive | | Two-component polyurethane | | | | | | | | | | | |
| skin characteristics | | rough/primer/polyester/PVDF | | | | | | | | | | | | |
| PANEL PHYSIC AND MECHANIC PERFORMANCES | type panel (some examples) | Panel Thickness mm | 10 | 15 | 20 | 25 | 30 | 10 | 15 | 20 | 25 | 30 | | |
| | | Skin Thickness mm | 1,0 + 1,0 | | | | | 1,0 + 1,0 | | | | | | |
| | panel weight | | 6,8 | 7,2 | 7,6 | 8,0 | 8,4 | 7,3 | 8 | 8,6 | 9,3 | 7,6 | | |
| | core material | | PET foam | | | | | PET foam | | | | | | |
| | foam density | ISO 845 | kg/m³ | 80 | | | | | 135 | | | | | |
| | compressive stabilised strength | ASTM C 365-C365 M | Mpa | 0,9 | | | | | 2,3 | | | | | |
| | shear modulus | ISO 1922 | MPa | 16 | | | | | 35 | | | | | |
| | maximum load* | ASTM C 393† | N | 320±30 | 460±50 | 610±60 | 760±80 | 900±90 | 560±60 | 830±80 | 1100±100 | 1370±130 | 1640±160 | |
| | deflection at maximum load* | ASTM C 393† | mm | 6±1 | 5±1 | 4±1 | 4±1 | 3±1 | 9±1 | 6±1 | 5±1 | 4±1 | 4±1 | |
| | skins E Elastic Modulus | | Mpa | 68'000-70'000 | | | | | | | | | | |
| | moment of inertia I | | mm ⁴ /m | 40600 | 98100 | 180600 | 288100 | 420600 | 40600 | 98100 | 180600 | 288100 | 420600 | |
| | average resistance to peeling * | ASTM D1781 | | >440 N/76 mm - 17 Nmm/mm | | | | | >480 N/76 mm - 23 Nmm/mm | | | | | |
| | maximum service temperature * | | °C | - 40 / +80 | | | | | | | | | | |
| thermal expansion coefficient ** | | °C ⁻¹ | 2,3*10 ⁻⁵ | | | | | | | | | | | |

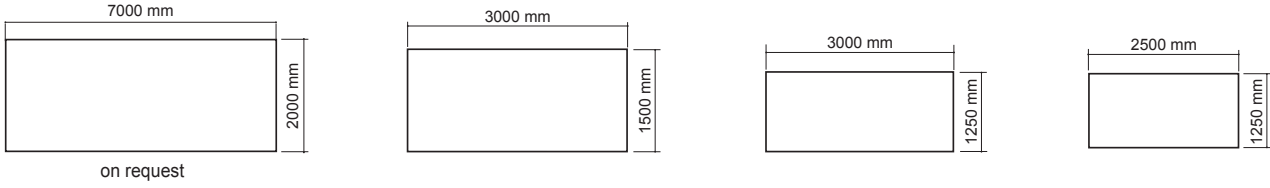
* Tested by Internal Laboratory

** Approximate value

† Sample dimension with 4 support points (L, W) 540x50mm; distance among the lower points 500mm, distance among the upper points 250mm

1/2

Standard dimensions (other dimensions available on request) - Dimension tolerance ± 30 mm



PROCESSING METHODS

