

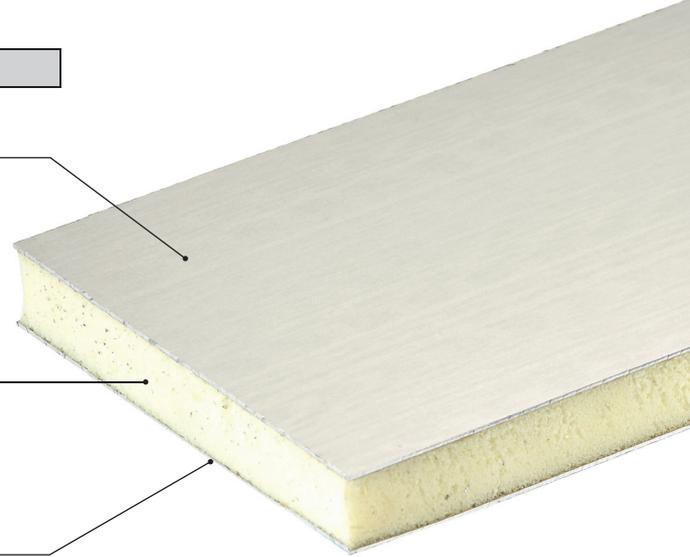
## Compocel® Alf

### Panel's composition

#### ALUMINIUM SKINS

Thickness mm: 0,5 - 0,8 - 1 (standard)

#### CORE Foam



On request: • other thicknesses,  
• 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		Panel Thickness		from 5 to 100										
		mm		Standard 1250x2500/1500x3000 other dimensions on request										
Panel size		mm		Standard 1250x2500/1500x3000 other dimensions on request										
Thickness tolerance		mm		±0,4										
Dimension tolerance		mm		± 30										
Planarity **		mm / m		1										
Skins thickness		mm		from 0,5 to 5,0										
Skin				1000 series, 3000 series, 5000 series										
Core materials				PET foam/PVC foam										
Foam density		Kg/m <sup>3</sup>		from 40 to 250										
Adhesive				Two-component polyurethane										
Skin characteristics				Raw/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/m <sup>3</sup>	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 <sup>4</sup> /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 <sup>-1</sup>	2,3*10 <sup>-5</sup>											

\* 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

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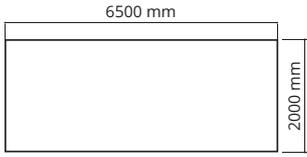


CEL Components S.r.l.  
 Via Buozzi 25 - 40057 Cadriano (Bologna) Italy  
 Tel. +39 051 782505 Fax +39 051 782477  
 www.cel.eu info@cel.eu  
 P.IVA 04102600378 CCIAA BO 0339628

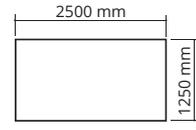
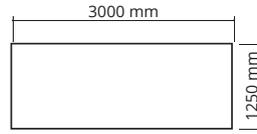
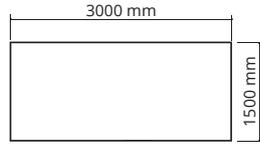
ALUMINIUM AND THERMOPLASTIC HONEYCOMBS, LAMINATES, SANDWICH PANELS

ENG

Standard dimensions (other dimensions available on request) - Dimension tolerance  $\pm 30$ mm



on request



PROCESSING METHODS



Cutting to size



Milling



Drilling



Joining



Cut to shape



Panel folding



Panel edgings



Inserts



Painting



Veneering

Sandwich Panel Compoce<sup>®</sup> ALF

Last Revised: 02/24\_Rev.7