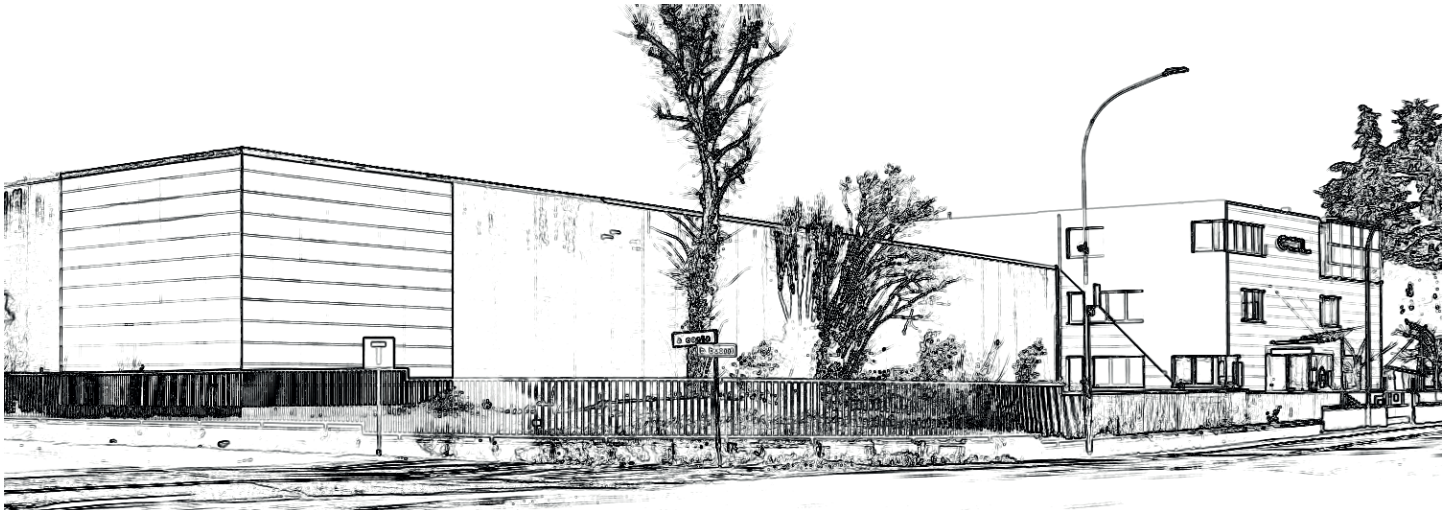


FIRE CERTIFIED

HONEYCOMB SOLUTIONS

GEL COMPONENTS



WHO WE ARE

With over 30 years of experience, CEL Components is a global leader in the production of sandwich and honeycomb panels, offering certified solutions and fire performance tested panels for various industries.

Our panels, manufactured in Italy at our facility in Granarolo dell'Emilia, near Bologna, are designed to enhance safety, reliability, and high performance. We meticulously select our materials, carefully evaluating suppliers, their production capabilities, and product quality to guarantee compliance with the most stringent standards.

Customer satisfaction is our top priority, which is why we provide only the highest-quality materials, the result of rigorous selection and a constant commitment to innovation.

OUR COMMITMENT

Quality: innovationd and reliability

Quality is the fundamental pillar of CEL Components' sandwich and honeycomb panels. Each product is developed with:

- **Selected materials:** We use only high-quality raw materials, carefully chosen through strict criteria to ensure superior performance.
- **Advanced technologies:** Production takes place in Italy using cutting-edge processes, ensuring precision, durability, and consistent performance.
- **Rigorous quality control:** We follow strict procedures to maintain high standards of strength, lightness and safety.

CERTIFICATIONS FOR KEY SECTORS

Our panels are certified for the construction, shipbuilding, and railway sectors, meeting the most stringent international standards:

- **Shipbuilding sector: IMO MED FTP Code 2010** certification, ensuring compliance with fire reaction safety requirements for maritime applications.
- **Railway sector:** Compliance with **UNI EN 45545-2**, which assesses fire reaction in materials used in the railway industry.
- **Construction sector**: **UNI EN 13501-1** and **NFP 92-507** certifications, classifying materials based on their fire behavior—essential for use in civil and industrial construction.

These certifications confirm our commitment to providing **safe, reliable, and regulation-compliant solutions**, meeting the needs of highly regulated industries.

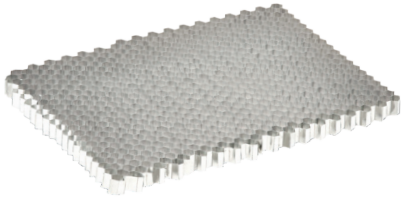
GENERAL ADVANTAGES OF OUR PANELS

CEL Components' sandwich and honeycomb panels offer a unique combination of performance and versatility:

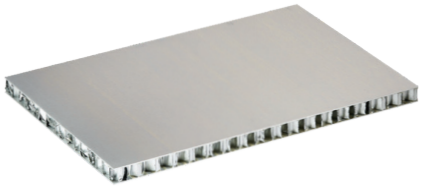
- **High strength and lightness**, ideal for reducing weight without compromising durability.
- **Extensive customization options**, with tailored solutions for specific needs.
- **Easy installation**, thanks to their structure, which reduces assembly time and costs.

With over 30 years of experience, CEL Components continues to innovate, offering certified panels that ensure safety, efficiency, and quality in every application.

OUR SOLUTIONS



Aluminium honeycomb



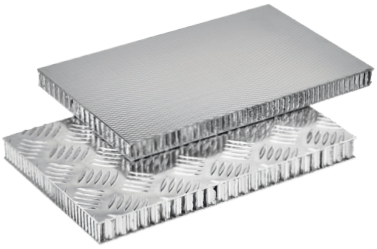
Compocel AL FR

Skins and honeycomb core entirely in aluminium



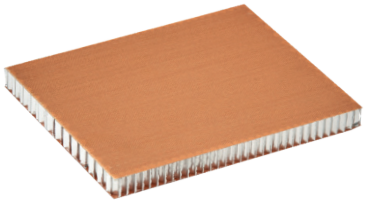
Compocel ALF

Skins in aluminium and core in PET T90 100 foam



Compocel AL FLOOR

Aluminium skins (in rice grain or almond texture) and aluminium honeycomb



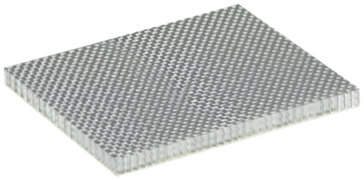
Alustep F

Fiberglass skins impregnated with phenolic resin and aluminium honeycomb core



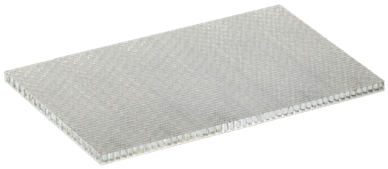
Alustep FN

Fiberglass skins impregnated with phenolic resin and aramid paper honeycomb core



Alustep HFR

Fiberglass skins impregnated with epoxy resin and aluminium honeycomb core



Alustep 500 SL

Fiberglass skins impregnated with epoxy resin and aluminium honeycomb core



Compocel ALH

An outer decorative CPL skin on one side, raw aluminium skins on both sides and aluminium honeycomb core

CEL COMPONENTS

SANDWICH PANELS AND HONEYCOMB

FIRE REACTION CERTIFICATIONS SUMMARY TABLE

SECTOR	NORM	CLASSIFICATION	DESCRIPTION	PRODUCT
	MED IMO 0407	**MOD. B, MOD. D** **Low flamespread**	**3.18** - Surface materials and floor coverings	**Compocel AL FR** **Compocel ALF** (from 10 to 23mm) **Alustep HFR, Alustep F** **Alustep FN, Compocel ALH**
		MOD. B, MOD. D **Incombustibility**	**3.13** - Non combustible materials	**Aluminium honeycomb**
		C. CLASS DIVISION **Incombustibility**	**3.64** - C class division	**Compocel AL FR**
	U.S. Coast Guard	**MOD B** **MOD D**	**164.109** - Non combustible Materials	**Aluminium honeycomb**
			164.112 - Interior Finish (Bulkheads and Ceiling Finishes)	**Compocel AL FR** **Compocel ALF** (from 10 to 23mm) **Alustep HFR, Alustep F** **Alustep FN**
	UNI EN 13501-1	**A2 s1 d0**	**A2** - Non combustible **s1** - Smoke emission absent **d0** - no dripping	**Compocel AL FR**
	UNI EN 13501-1	**A2fl s1 d0**	**A2fl** - Non combustible **s1** - Smoke emission absent **d0** - no dripping	**Compocel AL FR** **Compocel AL Floor**
	UNI EN 13501-1	**Bfl s1 d0**	**Bfl** - Low flame spread **s1** - Smoke emission absent **d0** - no dripping	**Compocel AL FR** **Compocel AL Floor**
	UNI EN 13501-1	**A2 s1 d0**	*Only 20mm* **A2** - Non combustible **s1** - Smoke emission absent **d0** - no dripping	**Compocel AL FR**
	NFP 92-507	**M0**	Incombustible	**Aluminium honeycomb**
		M1	Not flamable	**Compocel AL FR**
	UNI EN 13501-1	**A1**	Incombustible	**Aluminium honeycomb**
		B s1 d0	**B** - Low flame spread **s1** - Smoke emission absent **d0** - no dripping	**Compocel AL FR**
	UNI EN 45545	***Hazard level*** **HL2**	**R1** - Partitions **R2** - Suspended ceilings, countertops	**Alustep F** (from 4 to 49mm) **Alustep FN** (from 10 to 25mm)
		HL3	**R10** - Floors	**Alustep F** **Alustep FN**
			R1 - Partitions **R2** - Suspended ceilings, countertops **R7** - Gangways	**Compocel ALF** (from 10 to 23mm)
			R1 - Partitions **R2** - Suspended ceilings, countertops **R7** - Gangways **R10** - Floors	**Compocel AL FR**

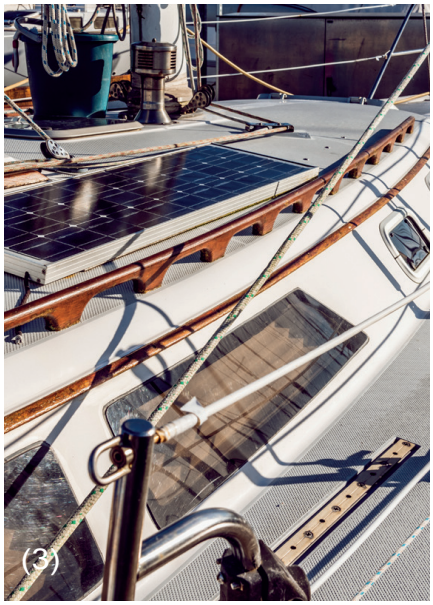
AMERICAN STANDARDS							PRODUCT
		ASTM C67-M18 Water absorption	ASTM E72-15 Transversal load resistance	ASTM C297 M-16 Resistance to traction	ASTM E84-17 Flame propagation	TAS 201, 203 Hurricane resistance	Compocel AL FR Alustep 500 SL

APPLICATIONS

In addition to the certified sectors, these panels are also suitable for a wide range of other applications where certification is not required:

	SHIPBUILDING	RAILWAY	AUTOMOTIVE	BUILDING	MARBLE LIGHTENING & MOSAIC SUPPORT	INTERIORS	FLOOR	CABINS & ELEVATORS	HEALTHCARE	AERAULICS	LIGHTENING TECHNOLOGY	LASER & WATERJET CUTTING SUPPORT
Aluminium honeycomb	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Compocel AL FR	✓	✓	✓	✓	✓	✓	✓	✓	✓			
Compocel ALF	✓	✓		✓		✓	✓					
Compocel AL Floor	✓	✓		✓		✓	✓		✓			
Compocel ALH	✓	✓		✓		✓						
Alustep F	✓	✓		✓	✓	✓	✓					
Alustep FN	✓	✓		✓	✓	✓	✓					
Alustep HFR	✓			✓	✓	✓						
Alustep 500 SL	✓			✓	✓	✓	✓					









IMAGES

Applications for different sectors:

(1) Terminal 2E facade, sat. A, Charles de Gaulle;

(2) False ceilings and partition walls for cruise ships;

(3) Support panels;

(4) Train floors and suspended ceilings.

CEL COMPONENTS

SANDWICH PANELS AND HONEYCOMB

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