

## ALVEOLARI DI ALLUMINIO E TERMOPLASTICI, LAMINATI, PANNELLI SANDWICH

## ALUMINIUM AND THERMOPLASTIC HONEYCOMBS, LAMINATES, SANDWICH PANELS

**CEL Components S.r.l.**

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Dal 1992 **CEL**<sup>®</sup> fornisce componenti per materiali compositi, pannelli sandwich e costruzioni leggere

Since 1992 **CEL**<sup>®</sup> supplies components for composite materials, sandwich panels and lightweight constructions

### ALVEOLARI

- **Alluminio:** è leggero, resistente alla compressione ed al taglio, incombustibile, resistente alla corrosione e riciclabile.
- **Termoplastici:** maneggevoli e lavorabili, consentono di realizzare pannelli termoformabili, leggeri, economici e resistenti agli agenti chimici ed atmosferici, riciclabili, fonoisolanti, termoisolanti, antiurto, radar trasparenti o furtivi. CEL fornisce tre polimeri termoplastici: polycarbonato PC, polipropilene PP e polieterimide PEI.
- **Nomex<sup>®</sup>:** carta fenolica, resistente alle alte temperature ed autoestinguente, viene utilizzato per tutte le applicazioni a rischio di corrosione e fuoco.

### SCHIUMA DI PVC

Resistente alla compressione, anche la schiuma di PVC offre un ottimo rapporto prestazioni/peso, non assorbe acqua ed è un ottimo isolante termico.

### LAMINATI in:

- **Vetroresina:** in rotoli e lastre, grezza o gelcoatata.
- **Polipropilene:** incollabile e verniciabile, antigraffio.

### PANNELLI SANDWICH

L'utilizzo delle lastre alveolari, o delle schiume, come anima permette la produzione di pannelli che integrano in un unico materiale varie funzioni: leggerezza, rigidità, resistenza agli urti, al fuoco ed agli agenti atmosferici e chimici, isolamento termico ed acustico, radio/radar trasparenza.

**Ai clienti che necessitano di un semilavorato, CEL fornisce una vasta gamma di pannelli sandwich, realizzati con componenti a richiesta e a seconda delle necessità tecniche.**

Per informazioni dettagliate, visitate il nostro sito "www.cel.eu" o contattateci, saremo lieti di aiutarvi.

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### HONEYCOMB CORES

- **Aluminium:** shear-, compression-, corrosion- and fire-resistant, recyclable and light.
- **Thermoplastic:** handy and easy to work with, ideal for thermo formable panels, light, cost effective and resistant to chemicals, recyclable, sound- and heat-insulating, shock proof, radar-transparent or stealth. CEL supplies three thermoplastic honeycombs: polycarbonate PC, polypropylene PP and polyetherimide PEI.
- **Nomex<sup>®</sup>:** fenolic paper, high temperatures resistant, self extinguishing, used in fire and corrosion sensitive applications.

### PVC FOAM CORES

Compression resistant, PVC foam offers a good ratio performances/weight. It's waterproof and a very good heat-insulating material.

### LAMINATES

- **Fiberglass:** in rolls or sheets, rough or gel coated.
- **Polypropylene:** bondable and paintable, scratchproof.

### SANDWICH PANELS

The application of honeycomb or foam plates as panels' core emphasizes further characteristics of the product, so that in only one material a lot of different functions are integrated: low weight; aesthetic; rigidity; resistance to shocks, fatigue, weather, chemicals, fire; recyclability; isolation, both thermal and acoustic; radio/radar transparency.

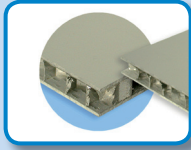
**Customers who need a semi finished product can get from CEL a wide range of sandwich panels, made with components of customers' choice and according to technical specifications.**

For detailed information please visit our website "www.cel.eu" or get in touch with us. We will be happy to assist you.

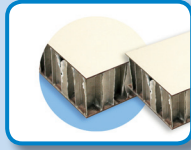
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# PANNELLI SANDWICH / SANDWICH PANELS

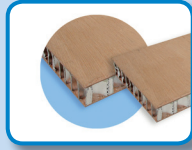
- **CON ANIMA ALVEOLARE IN ALLUMINIO**
- **WITH ALUMINIUM HONEYCOMB CORE**



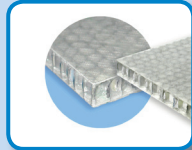
**ALU-ALU**  
Pelli: alluminio  
Skins: aluminium



**HPL-ALU**  
Pelli: laminato plastico  
Skins: high pressure laminate



**OKU-ALU**  
Pelli: compensato marino  
Skins: plywood



**ALUSTEP**  
Pelli: tessuto di vetro biassiale impregnato con resina epossidica  
Skins: bidirectional glassfiber fabric impregnated with epoxy resin

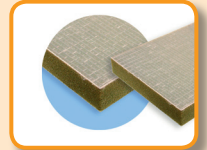


Tested RINA

- **CON SCHIUMA DI PVC**
- **WITH PVC FOAM**

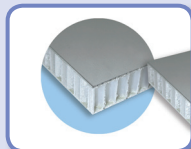


**OKU-PVC**  
Pelli: compensato marino  
Skins: plywood

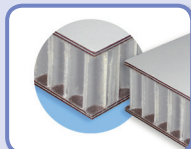


**PVC-STEP**  
Pelli: tessuto di vetro biassiale impregnato con resina epossidica  
Skins: bidirectional glassfiber fabric impregnated with epoxy resin

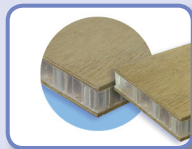
- **CON ANIMA ALVEOLARE IN POLIPROPILENE / • WITH POLYPROPYLENE HONEYCOMB CORE**



**ALU-PP**  
Pelli: alluminio  
Skins: aluminium



**HPL-PP**  
Pelli: laminato plastico  
Skins: high pressure laminate



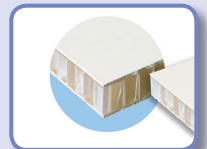
**OKU-PP**  
Pelli: compensato marino  
Skins: plywood



**POLISTEP**  
Pelli: tessuto di vetro biassiale impregnato con resina epossidica  
Skins: bidirectional glassfiber fabric impregnated with epoxy resin

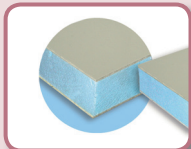


**HONEYCOP**  
Pelli: laminato in polipropilene  
Skins: polypropylene



**VTR-PP**  
Pelli: vetroresina poliesteri  
Skins: polyester GRP

- **CON SCHIUMA DI POLISTIRENE ESTRUSO**
- **WITH EXTRUDED POLYSTYRENE FOAMCORE**



**ALU-STY**  
Pelli: alluminio  
Skins: aluminium



**VTR-STY**  
Pelli: vetroresina poliesteri  
Skins: polyester GRP



**ISOCOP**  
Pelli: laminato in polipropilene  
Skins: polypropylene

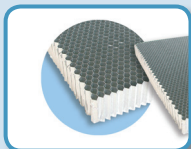
- **CON RESINA DI POLIETILENE A BASSA DENSITÀ VISCOELASTICA**
- **WITH LOW DENSITY VISCOELASTIC POLYETHYLENE RESIN**



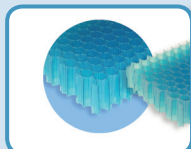
### SOUNDSTOP

Pelli: alluminio (pelle superiore preverniciata con colori RAL, pelle inferiore finitura grezza)  
Skins: aluminium (one side painted with RAL colours, other side unfinished)

## ANIME ALVEOLARI E SCHIUME / HONEYCOMB CORES AND FOAMS



Alluminio  
Aluminium  
  
Tested IMO MED



Policarbonato in diversi colori  
Polycarbonate in different colours



Policarbonato trasparente  
Transparent polycarbonate




Polipropilene senza TNT  
Polypropylene without TNT

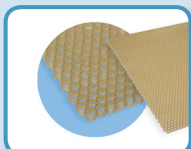


Polipropilene quadrettato  
Polypropylene flex

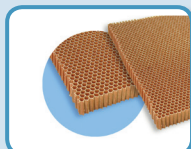


Polipropilene con TNT  
Polypropylene with TNT (PP8.0T30 / PP8.0T30f75)  


Tested GERMANISCHE LLOYD



Polieterimide  
Polyetherimide



Nomex  
Aramid paper



PVC espanso  
PVC foam

## CEL COMPONENTS

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