



PROCESSING AND FINISHING



WHO WE ARE

For over 30 years CEL Components has been designing and manufacturing sandwich panels, honeycomb cores and lightweight composite materials for a wide range of applications across numerous industries.

Production takes place at our facility in Granarolo dell'Emilia, near Bologna, Italy, where every stage of the process is managed in-house, from material selection to quality control. Our flexible manufacturing capabilities enable us to develop customised panels in terms of materials, dimensions, configurations and machining processes, meeting the specific requirements of each project.

Drawing on decades of experience across multiple application sectors, we support our customers in selecting the most suitable solution for their technical requirements.

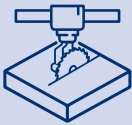
FROM SANDWICH PANEL TO FINISHED COMPONENT

CNC MACHINING, ASSEMBLY, EDGE FINISHING AND SURFACE TREATMENTS

Sandwich panels can be customised through machining processes, assembly systems, edge finishing, surface treatments and decorative coverings, offering a wide range of possibilities for the production of finished components and products.

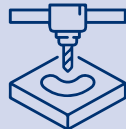
CNC MACHINING

CNC machining enables the production of customised panels and components with tailored geometries, machining features and mounting provisions to meet the specific requirements of each project.



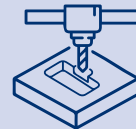
PRECISION CUTTING

Precision cutting according to technical drawings and dimensional specifications.



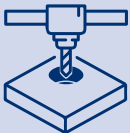
SHAPING

Production of simple and complex geometries, including custom shapes.



MILLING

Machining of recesses, grooves, pockets, boxed structures and other functional features.



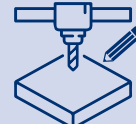
DRILLING

Production of through and blind holes, with integration of inserts and rivets.



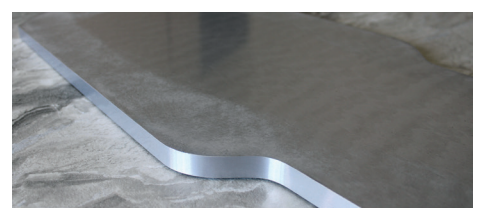
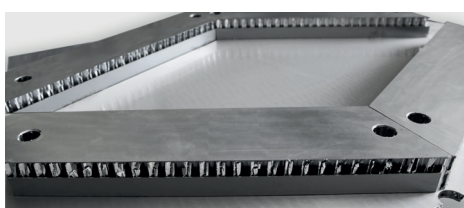
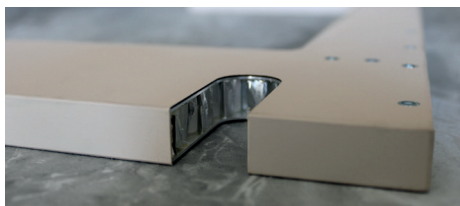
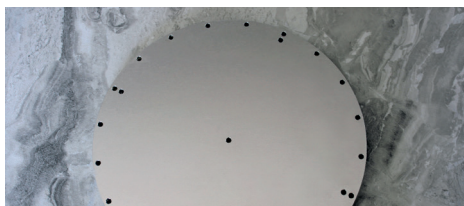
ENGRAVING

Custom engraving of logos, text and markings.



CUSTOM

Custom machining operations and development of dedicated solutions.

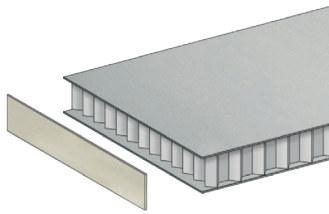


STRUCTURAL AND DECORATIVE EDGE FINISHING

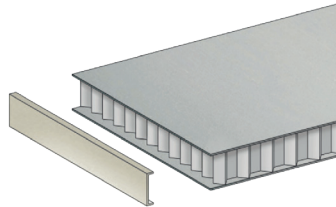
Edge finishing protects the panel core and completes the finished product. Depending on the configuration, it may serve a primarily aesthetic purpose or provide integration for fastening systems and local structural components.

Available solutions include:

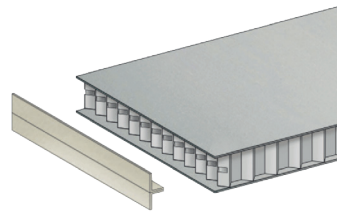
- Aluminium, MDF, PVC, ABS, solid wood and laminate edge finishing
- C- and T-shaped aluminium edge profiles
- Edge finishing by folding the outer skin



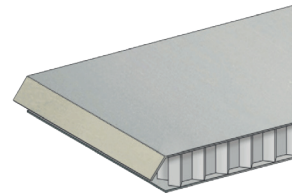
Edging with a plate
(or applied edge)



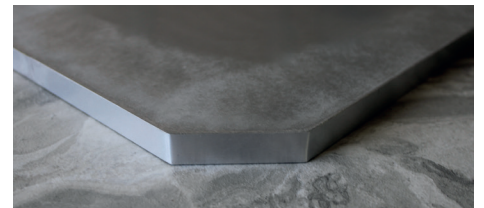
C - Edge profile



T - Edge -profile



Folding an edge
of the upper skin

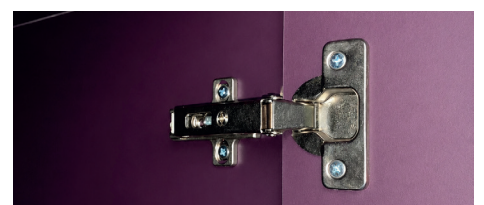
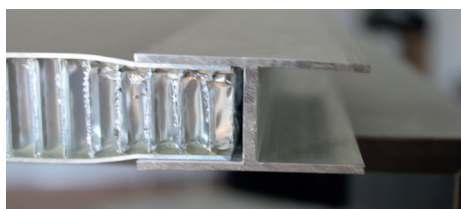
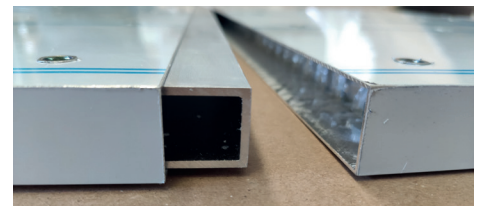


FASTENING AND JOINING SYSTEMS

Panels can be prepared for attachment to existing structures or for joining multiple panels together. Inserts, fastening systems and joining profiles are integrated according to the installation method and the requirements of the final application.

AVAILABLE INTEGRATION OPTIONS INCLUDE:

- Through-fastening systems and self-tapping screws
- Bolts
- Visible or concealed rivets
- Threaded inserts
- Façade anchoring systems
- Joining profiles
- Custom solutions



SURFACES

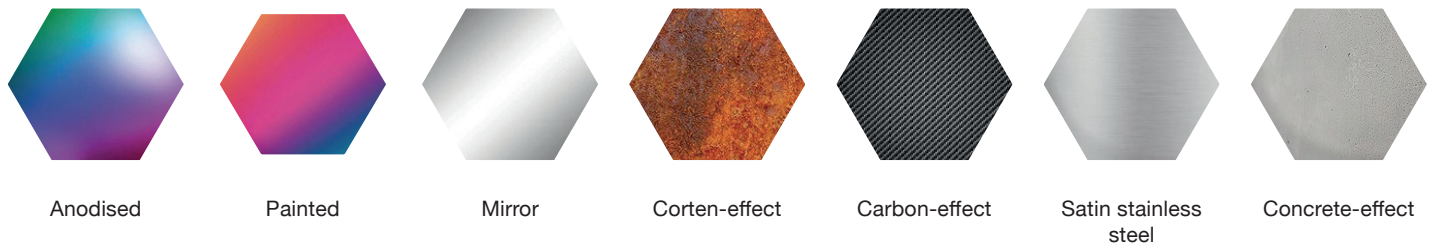
FINISHES AND SURFACE COVERINGS

Sandwich panels can be customised with metallic finishes, surface coverings in a wide range of materials and protective surface treatments. Each solution is selected according to the panel configuration, service conditions and performance requirements of the final application.

SURFACE FINISHES

Metal surfaces can be customised with a wide range of finishes, from industrial coatings to decorative effects, to meet specific aesthetic and design requirements.

Available finishes include:



Additional finishes are available upon request.

DECORATIVE COVERINGS

Sandwich panels can be finished with a wide range of decorative coverings, combining the structural performance of sandwich technology with specific aesthetic and design requirements.

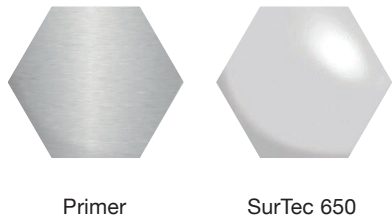
Available solutions include:



PROTECTIVE SURFACE TREATMENTS

Surface treatments prepare and protect the panel surface, improving corrosion resistance and providing a suitable base for subsequent processes such as bonding and painting.

Available treatments include:



COMPONENTS AND APPLICATIONS

FROM SANDWICH PANEL TO FINISHED PRODUCT

Machining operations, assembly systems and surface finishing transform sandwich panels into finished components and products, ready for integration or installation. In addition to machined panels, CEL Components manufactures a range of finished products, including:

- **Acoustic Panels**

Sound-absorbing panels designed to control reverberation in indoor environments. (1)

- **Vacuum Tables**

Lightweight vacuum tables developed for workbenches, industrial equipment and vacuum handling systems. (2)

- **Airflow Straighteners**

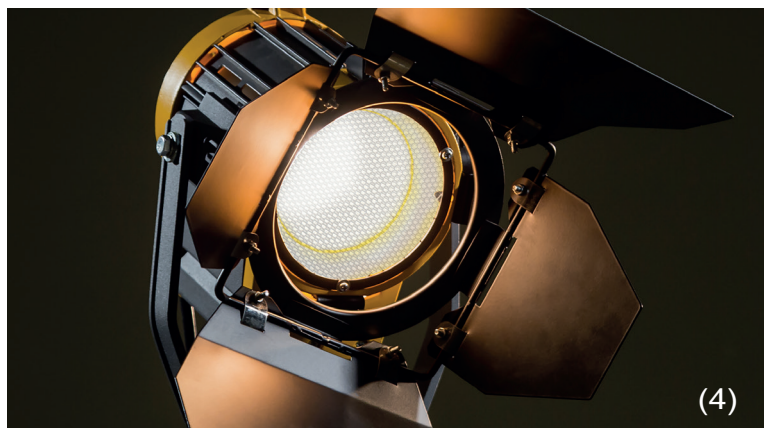
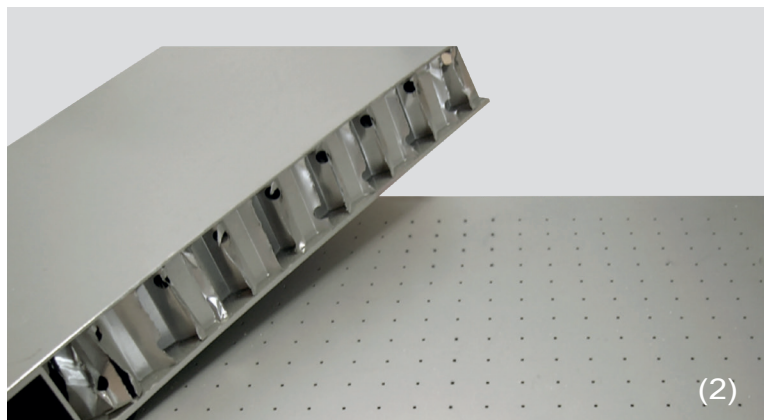
Components manufactured from aluminium or polypropylene honeycomb, designed to straighten and stabilise airflow in ventilation systems and industrial applications. (3)

- **Light Baffles**

Components manufactured from aluminium or black polycarbonate honeycomb, designed to control and direct light in lighting fixtures. (4)

- **Custom Components**

Furniture elements, suspended ceilings, lightweight furniture and other custom-designed products. (5)





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WEB SITE

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