

Concepts

Products

Service



**COMP+: creates lightweight design.**

Innovative composite products made by Lindner.



**Lindner**

Building New Solutions

# Building new solutions.

Lindner undertakes major worldwide projects in all areas of interior finishes, insulation technology, industrial services and building facades. From pre-planning through to project completion Lindner is your partner of choice.

The Company's extensive manufacturing capability enables quality to be strictly maintained whilst allowing maximum flexibility to meet individual project requirements.

Environmental considerations are fundamental to all Lindner's business principles.

Through partnerships with clients Lindner turns concepts into reality.

## Choosing Lindner you have:

**Lindner Concepts:**  
Tailored solutions specifically geared to satisfy individual project requirements

**Lindner Products:**  
Quality materials and systems to the very highest industry standards

**Lindner Service:**  
Comprehensive project management services

# Just as great as your project: COMP+

The better solution for large formats.

**For special requirements:**

- Lightweight composite aluminium sandwich panel
- Building material class A2-s1, d0
- Great flexural strength
- Sound absorbing properties
- Various opportunities for surface finishing

# COMP+

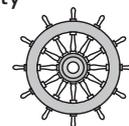
## Lightness – Stability – Acoustics.

COMP+ enables the most distinct designs for wall and ceiling cladding. The advantages of the product family are achieved by the unique combination of different product characteristics. The sandwich panels combine low weight with great flexural strength and dimensional stability. They consist of an aluminium honeycomb core with layers made of aluminium or laminate.



Lindner COMP+ are innovative composite panels, suitable for many interior applications in buildings and cruise liners.

- Significant benefits for **Interior Fit-Out of buildings**: unrivalled large-format options, possibility of curved edge contours plus a rigid and even surface – optionally combined with excellent sound absorbing properties of COMP+ acoustic products.
- Key values for **Ship Fit-Out**: low weight, low fire load, and a wide selection of high-quality surface design options. These attributes have made COMP+ a huge success on board of several of the latest cruise liners. All components are certified and bear the Wheel mark.



# Gives new ideas free reign.

Whether large format panels or complex components are required, COMP+ provides a wide range of finishes, such as wet paint, real wood veneer, or laminate.



**Practical example Abraham-Gumbel-Hall, Volksbank Heilbronn:** The veneered ceiling of the hall, made of COMPwood acoustic, echoes the pattern of the smoked oak parquet. Micro-perforated ceiling panels significantly improve the hall's acoustics, without diminishing the high-grade character of the genuine wood surface. Completely invisible from below, the ceiling bears another integrated technical secret: Plafotherm®, Lindner's most efficient heating and cooling technology, regulates the temperature.



# COMP+ acoustic

Small cause – great effect.

The visually inconspicuous micro-perforation gives COMP+ its sound absorbing properties, enhancing room acoustics. Whether you choose the wet painted or veneered version, acoustically there is no difference.

The perforated reverse layer of COMP+ acoustic is laminated with black tissue. An additional application of sound absorbing material will further improve the acoustic capacity.



COMP+ acoustic really excels in regard to panel stability, especially in comparison with perforated wood-based panels. Acoustic upgrades and curved shapes will not impair the panels' rigidity; the 3-layered composition remains intact.

The sound absorption values of several designs have been tested in accordance with ISO 354 and ASTM C 423. Appropriate documents are available on request.



# Honeycomb core: invisible but highly effective.

The technical foundation of COMP+ are three material layers combined with a honeycomb core. These composite panels are the best choice to create perfectly smooth, flat surfaces – and they are just as impressive when being used for curved or vaulted designs, thanks to a variable manufacturing process. The slender structure is suitable for ceilings, wall cladding or column cladding. The panels come ready-to-install, and with nearly any finish desired can also be equipped, optionally, in an acoustic version.



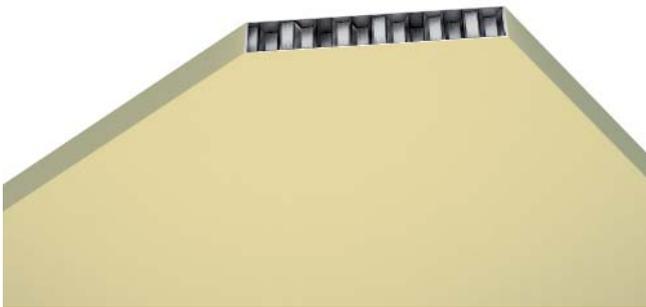
**COMP+ is a typical Lindner product.**

Development, testing and production – everything from one source. The result is 100 % reliable quality.

# COMP+ product portfolio at a glance

## COMPlacq and COMPwood

Extend the scope of design possibilities: COMPlacq and COMPwood's aluminium top layers provide an ideal ground for the most versatile surface technologies.



**COMPlacq** features a wet painted finish, available in all RAL and NCS colours. Effect lacquers, such as real metal coatings, can be applied to the aluminium top layer as well.

**COMPlacq acoustic** offers sound absorbing properties with its discreet micro-perforation on the visible layer.



**COMPwood** incorporates high-quality finished, smooth real wood veneers, chosen from a wide selection of wood species.

**COMPwood acoustic** regulates reverberation times in your space thanks to its nearly invisible micro-perforation, while maintaining the natural character of the real wood surface.

## COMP+ as column cladding

Even column cladding, a highly demanding and specialized application, is compatible with all types of COMP+. The half shell construction serves as an economical alternative to other products on the market. Due to its high degree of modular prefabrication, COMP+ column cladding is installed quickly and easily.



## COMPdecor

Laminate layers offer a wide range of colors and patterns – there are suitable solutions for nearly any demand!



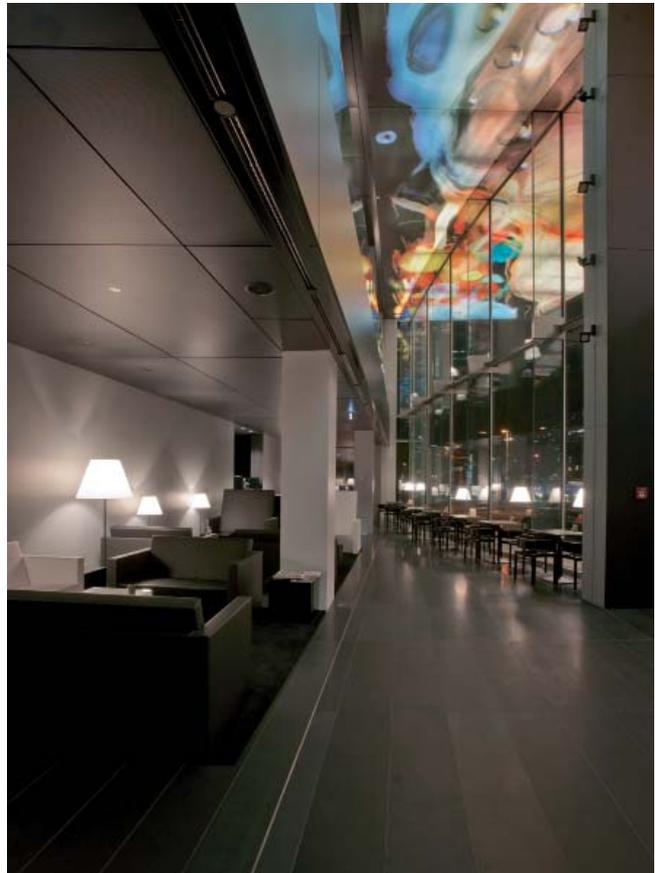
**COMPdecor** sandwich panels are formed from an aluminium honeycomb core combined with two laminate layers. This structure allows for exceptionally durable, proven surface options in a variety of applications.

Also, the compound panel shows remarkable resistance to difficult climatic conditions, compared to conventional solutions on the market.

## LMD COMP+

The latest COMP+ technology has been incorporated into tried-and-tested Lindner metal ceiling: **LMD COMP+** elements are particularly suitable for large format ceiling panels thanks to the beneficial combination of dimensional stability and relatively low weight, especially when structural requirements overlap with a need for non-combustibility. COMP+ design is feasible with all popular Lindner metal ceiling systems and helps to effectively avoid the deflection of large format ceiling elements.

Naturally, several finish options are available for LMD COMP+: in addition to powder coating and wet painting, the ceiling can be equipped with decorative surfaces like ARTline, GRAPHICline - and even real wood veneer - thanks to Lindner's unique PUREline technology.



# Technically perfected and very efficient.

COMP+ wall and ceiling panels can be installed to standardized substructures. For this, we recommend the manifold, continuously perfected Lindner standard systems. Their effectiveness has been proven in practice with countless international projects.



COMPwood executed as wall and ceiling cladding with integrated illumination, COMPlacq acoustic as wall cladding – both installed to standard substructure

## **From Lindner, you can expect:**

For us, close teamwork is mandatory from the beginning. Lindner product management team is at your side as a competent consultant as early as the design stage. Our highly experienced project managers have the ability to coordinate even the most challenging projects, and will serve as your partner through project completion.

# To conserve resources and protect the environment.

## Reliable quality.

All COMP+ products are entirely manufactured in our own production facilities, following strict ecological guidelines. An Environmental Product Declaration (EPD) in accordance with ISO 14021 summarizes the comprehensive package of provisions and its measurable positive impact on the product.

## Lindner promotes a healthy work environment.

COMP+ products are being customized for every project and delivered ready for installation. This, in conjunction with the panels' low weight, enables installers to work quickly and efficiently without technically demanding treatment on site. This level of high quality pre-fabrication is also an important contributing factor to a healthy and safe work environment. A construction area, which is relatively low on waste, noise and dust, will also be positively acknowledged during the evaluation process for certifying your building to DGNB, LEED or other common standards.



Lindner is a founding member of the German Sustainable Building Council (DGNB) and a member of the US Green Building Council. We proactively participate in the promotion of sustainable construction principles and the development of relevant standards.

## Green Building made easy with Lindner as your partner:

- Extremely enduring products with the highest quality and economical functional properties
- Complete verification of the ecological material quality through Environment Product Declarations
- Consulting service covering every aspect of sustainable construction and building certifications. Examples include DGNB, LEED, BREEAM.

## We can do it all for you.

### Lindner Concepts:

- Airports and Railways
- Clean Rooms and Operating Theatres
- Cruise Liner and Ship Fit-out
- General Contracting
- Hotels and Resorts
- Insulation and Industrial Service
- Interior Fit-out and Furnishings
- Special-Purpose Constructions and Stadiums
- Studios and Concert Halls
- System Buildings

### Lindner Products:

- Ceiling Systems
- Doors
- Dry Lining Systems
- Facades
- Floor Systems
- Heating and Cooling Technologies
- Lights and Lighting Systems
- Partition Systems
- Roofing Systems
- Steel & Glass

### Lindner Service:

- Clearance of Harmful Substances
- Construction Management and Project Development
- Deconstruction and Interior Demolition
- General Planning
- Global Product Supplies
- Green Building
- Industrial Scaffolding
- Installation and Building Services
- Research and Development

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