

Concepts

Products

Service



Physical Perfection.

Heating and Cooling Technologies from 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

Room temperature: ideal.

Lindner produces innovative heating and cooling systems to meet all requirements.

Experience the unique advantages:

- Individual systems and customised solutions
- A wide variety of design and combination options
- Easy to install
- Can be easily retrofitted into existing ceilings
- Fulfils all fire and sound proofing regulations
- Highly flexible

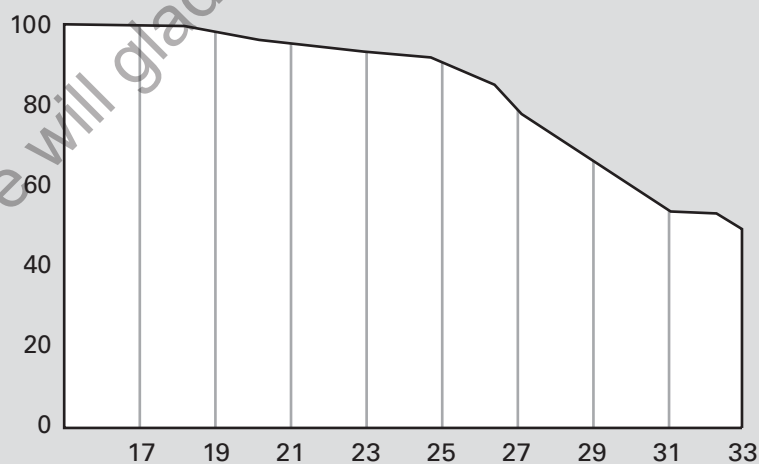
Create space for the ideal temperature: Lindner heating and cooling technologies.

Optimal room temperature is extremely important for creating a pleasant living and working environment. Lindner has developed innovative heating and cooling technologies allowing you to easily regulate the temperature of each room for maximum comfort.

Integrated solutions for individual requirements.

Our staff in planning, development, production and installation are constantly coming up with new, integrated solutions to satisfy your project needs. We can offer you the complete process – from your design through to delivery of the manufactured product.

Human performance ability (%)



Rising temperatures cause a sharp decrease in performance. With chilled ceiling systems from Lindner, you can create the ideal room temperature and thus improve comfort and performance.



Trainee workshop at the technology and development center Groz-Beckert

How our systems feel.

Each person reacts differently to heat and cold. To ensure the ideal room temperature Lindner tests the performance of a range of heated and chilled ceilings under laboratory conditions in the company's own test facility. Specialist thermometers are used to work out the ideal temperature for hermetically sealed rooms. Measurements are checked for authenticity by external authorities. All done to ensure the best solution for your design.

Lindner Plafotherm® heating and cooling technologies:

- Metal ceilings
- Jointless ceilings
- High-performance ceilings
- Canopy ceilings
- Customised ceilings
- Thermowall /
FLOOR and more®



Tailor-made comfortable temperatures: Lindner heated and chilled metal ceilings.

Heated and chilled metal ceilings from Lindner meet your needs both functionally and visually. With their flexible connections the systems are very adaptable and provide a high level of performance. In addition all metal ceiling panels including Heating and Cooling Technologies conform to class A2-s1, d0 "non-flammable", tested to DIN EN 13501-1. A wide range of perforation patterns and high quality finishes allow your creativity free rein. Lighting from Lindner and other services such as ventilation units and sprinklers can be easily integrated or retrofitted into every ceiling. With Lindner you can create the perfect room temperature everywhere.

**Beauty comes from within.
With Plafotherm® ST.**

Our expanded metal ceilings range features a wide variety of designs, allowing the creation of a unique visual in every room. The system is easy to adapt, even in awkward spaces. Plafotherm® ST creates a good impression everywhere.

BMW FIZ, Munich



Our heated and chilled metal ceiling systems are as varied as your requirements – the right technology for all temperatures.

See for yourself:

Ceiling systems for all projects:

- Office/administration buildings
- Banks
- Hospitals
- Schools
- Public administration buildings
- Hotels
- Exhibition and showrooms
- Museums

All good things come from above.

For an attractive room design with the highest standards in functionality, **Plafotherm® E**, with its concealed grid system, will set the tone for your building. Sports centres are best fitted out with **Plafotherm® P**, our DIN 18032 certified impact resistant ceiling with easily replaceable panels. **Plafotherm® N** suits customised ceilings; its heating and cooling systems can be adjusted on site to suit project requirements. Our solutions are as unique as your ideas.

Extremely flexible. Plafotherm® K.

Open to new possibilities. With its clip-in swing-down mechanism Plafotherm® K is a highly flexible, yet also aesthetically pleasing, system. Easy integration of Lindner lighting means that Plafotherm® K can light up any room. You can complete your own individual design solution with the range of Lindner perforations and surface finishes.



Sparkasse, Augsburg

Versatility for your rooms.

Plafotherm® B.

Technology that fits. Plafotherm® B's Post Cap system allows for flexible and easy installation, offering freedom in the design of your office. Underline the uniqueness of your room by choosing from our extensive range of surface options.



Torre Espacio, Madrid

© Mark Bentley Photography

Energy that converts into comfort.

Lindner monolithic heated and chilled ceilings.

We can deliver and install highly efficient acoustic plasterboard ceilings which comply with all fire and sound proofing standards. With a wide range of options you can create an attractive and individual office design. Whether smooth, perforated or with an acoustic finish our range offers the perfect finish to suit all preferences. With built-in lights and pendulum lighting from Lindner your monolithic heated and chilled ceiling system can be created both functionally and tastefully. Create an atmosphere for your rooms.



andel's Hotel, Berlin



Stadtbücherei, Augsburg

More than just plasterboard. Plafotherm® GK VarioFlex.

This system can offer you the same variety of design and functionality as a normal plasterboard ceiling. However, Plafotherm® GK VarioFlex also has other qualities: its heated and chilled components create comfortable room temperatures and it is economical whilst also fulfilling unusual architectural requirements.

Fits seamlessly into buildings:

- Hotels
- Conference rooms
- Buildings under refurbishment
- Banks
- Offices and administration buildings



Margarete Steiff Museum, Giengen
Photos on this page: Ramseier & Associates Ltd. Zurich

A ceiling for all requirements. Plafotherm® FMA.

Do you want an attractive high-quality room design with a high performance, chilled ceiling system offering optimal climate control and acoustic performance? If so our monolithic metal acoustic system Plafotherm® FMA is the right choice for your project. This system is a real all-rounder: professional, flexible and impressive. What you like to see.

Creates an ideal environment in:

- Offices and administration buildings
- Conference rooms
- Banks
- Museums



Maximum value for inner peace: high performance cooling ceilings from Lindner.

Our solutions provide you with highly effective acoustic surfaces, excellent functionality and infinite design possibilities.

This cooling system is characterised by ease of installation and high performance. You can vary the visual impact and acoustic performance as well as the cooling capabilities by changing the distance between baffles, thus creating the ideal solution for your space. Open to your imagination.



Function and design go hand in hand. Plafotherm® Z.

Enjoy unlimited freedom for your architectural design ideas with Plafotherm® Z. A large selection of baffle dimensions and colours as well as variable baffle spacing possibilities allow you to customise the appearance and performance of your Lindner metal ceiling according to your specific requirements. No matter which option you choose — the rack rail substructure of Plafotherm® Z simplifies the installation in an optimum way.

Maximum performance with optimal use of materials: Plafotherm® Z captivates with high efficiency and quick installation.

Proves itself in different areas of application:

- Airports
- Entrance halls
- Areas requiring a high degree of cooling



**For the correct solution:
Plafotherm® Z.**

- Variable baffle spacing
- Easy integration with other ceiling systems
- Sound-absorbent
- Different perforations available
- Baffles available in a variety of shapes and sizes

A refreshing solution for:

- Airports
- Office and administration areas
- Foyers, entrance halls
- Retail areas



Lufthansa First Class Lounge, Munich
Design: Hollin + Radoske Architects

**For the benefit of everyone.
Plafotherm® LU/LUW.**

Cinemas, lecture theatres, assembly rooms and auditoriums all provide space for a lot of people. For perfect climate control in highly frequented rooms Plafotherm® LU/LUW is the best solution. The system developed by Lindner creates a high degree of air flow, thus an ideal room temperature. A plus for everyone in the room.

Advantages:

- No draught
- Easy installation
- Attractive, individual colour scheme
- Retrofit possible at any time



**Attractive, cool and portable.
Plafotherm® KN**

Our highly efficient convection ceiling, Plafotherm® KN, is the perfect solution for your project, especially in areas requiring substantial cooling performance. The ceiling panels, available in a choice of sizes, can be independently removed for flexibility and maintenance.



Beautiful shapes. Heated and Chilled Canopy Ceilings.

To combine design with the technical performance of a heating and cooling system, we have developed heated and chilled canopy ceilings. From perfect cooling and improved room acoustics to the integration of lighting, sprinkler or ventilation units, this heating and cooling system will enhance the individuality of your rooms. Impress yourself with our beautiful ceiling systems.

For a unique look. Plafotherm® DS.

You can design your own individual ceiling to suit your own needs. With its variety of design and shapes Plafotherm® DS will fit perfectly in your space. A system to suit your building.

Tangible advantages:

- Increased convection providing enhanced cooling performance
- Highly effective acoustics
- Prefabricated: easy installation
- Lighting, sprinklers, smoke and fire alarms can all be easily integrated
- Simple installation of pipework with flexible connections



Plafotherm® DS shows you what innovative heated and chilled ceilings can do: Highly efficient technology combined with an outstanding, customised design.



We will gladly send you a free printed copy of this document.



Lindner

Fits perfectly and provides a breath of fresh air. Heated and chilled ceilings for special purposes.

Do you need a ceiling system to meet specific needs? We will take on the challenge – we develop the exact solution to suit those needs.



Leads to partitioning. Plafotherm® B 100 SD.

Our heated and chilled ceiling Plafotherm® B 100 SD offers longitudinal sound reduction and can be integrated easily with Lindner removable partition walls to create a highly flexible office design.

With its excellent sound absorbing properties, ease of installation and maintenance, lack of requirement for a cavity barrier and the exceptional performance of its heating and cooling technology, Plafotherm® B 100 SD creates the ideal atmosphere in your rooms.

Protection from above Plafotherm® F30-A/AB Type 6/7.

Benefit from optimal safety with our ceilings. Meets your requirements and can be installed wherever you like.

For your safety we produce the fireproof heated and chilled ceiling Plafotherm® F30-A/AB Type 6/7. Its user-friendly swing-down function makes maintenance easy; there is a wide range of services to choose from and, completely tailored to your needs, you can install elements such as lights, sprinklers or loud-speakers wherever you require. Even when it comes to fire prevention we are top of the class.



The right system for every idea. Customised heating and cooling systems.

We develop effective, tailor-made solutions with you. Nothing gets in the way of your creativity. Whether you require a high level of cooling, integrated ceiling installations or have special fire or sound proofing requirements, we can produce a range of shapes and designs incorporating a wide variety of performance criteria. Just the way you want.



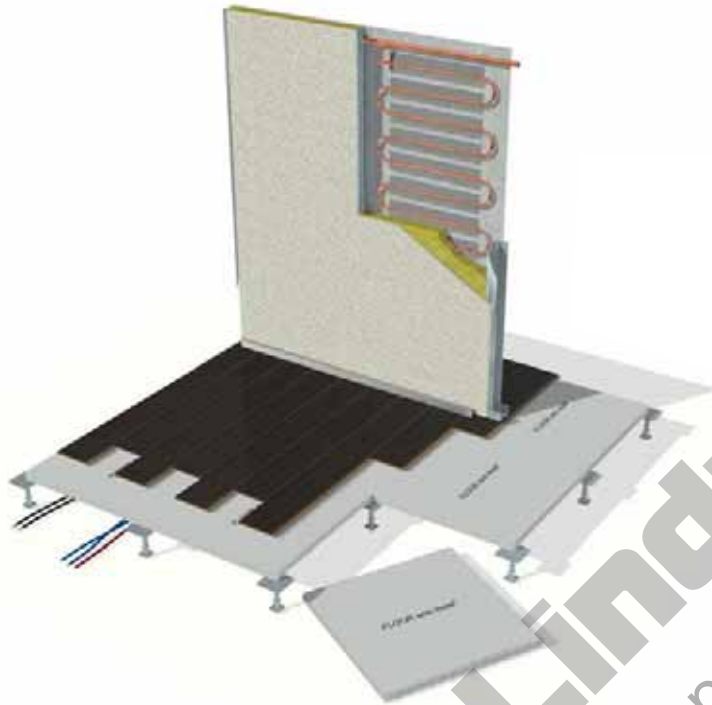
Added extras? No problem. Plafotherm® S.

Our in-house manufacture, installation and product development make everything possible! Together we plan, develop and achieve your designs, from one source. Customer and design requirements know no bounds.

Systems and shapes:

- Metal and plasterboard ceilings
- Trapezoidal, round, curved, etc
- Customised perforation
- Integrated ceiling installations
- Cooling capacities can be determined dependant on the system and the ceiling construction

104.6 RTL Studio, Berlin



Removable walls for fixed ideas. Thermowall.

Combined with modern heating and cooling technology, Thermowall is a proven partition wall system. This wall system offers the advantages of comfort, flexibility and adaptability as well as fire and sound proofing characteristics. Complete efficiency for your building design.

Three good reasons to choose Thermowall:

- Modular construction
- Easy installation
- Lindner substructure

Energise your space:

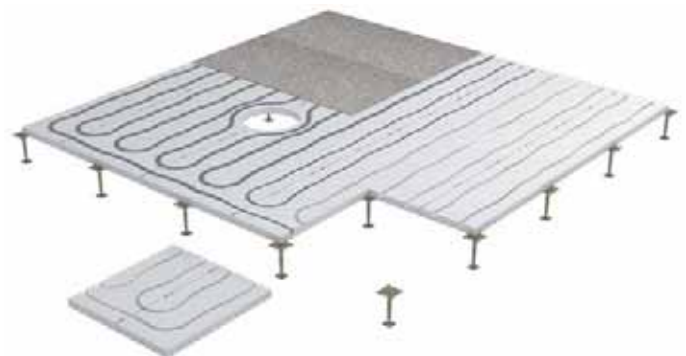
- Offices
- Meeting rooms
- Rooms requiring a high level of cooling, which cannot be achieved purely through a chilled ceiling
- Anywhere needing a high degree of temperature control

Down to earth. FLOOR and more® comfort.

We provide heating and cooling systems for your floors as well, giving you flexibility in your room. This easy-to-lay, dry hollow floor system features a monolithic surface and can be used just one day after installation, can withstand high load levels and is suitable for use at home as well as in the office efficiently. FLOOR and more® comfort integrates heating and cooling technology very efficiently. On site, tiles, stone, parquet or carpet will be bonded to the floor. The ideal basis for any building project.

More down-to-earth advantages:

- Space for electrical and computer installations
- High level of fire and sound proofing
- Environmentally friendly construction
- Extremely resilient
- Suitable for a range of coverings



FLOOR and more® comfort is a highly efficient integrated underfloor heating system.

All our knowledge goes into fulfilling your design objectives.

Your ideas determine our service. Lindner provides your product and service requirements from one source. Our expertise and dedicated equipment allows us to plan and implement your requirements from initial design to finished product – and beyond.

One solution for everything: Lindner production.

Our objectives come from your vision. We have an extensive manufacturing capability, adapted over many years of producing to our customers' needs. Lindner is constantly raising the bar when it comes to merging design, functionality and flexibility – to satisfy your project needs.

No one knows our products like we do: Lindner installation.

Lindner offers a professional installation service, as well as taking great care with its processes, such as: quality control, logistics, procurement, warehousing, finance and health and safety. Would you like an expertly-installed customised product? Then look no further.

We don't mind hanging around a bit longer: Lindner maintenance:

You decide for how long we support you. To protect the condition of your installation we can undertake the commercial, technical and infrastructure management of your building – from inspection and renovation through to conversion and caretaking duties. Even on completion of your project we will be on hand as your partner of choice.



The following also goes without saying regarding the professionalism of our installations:

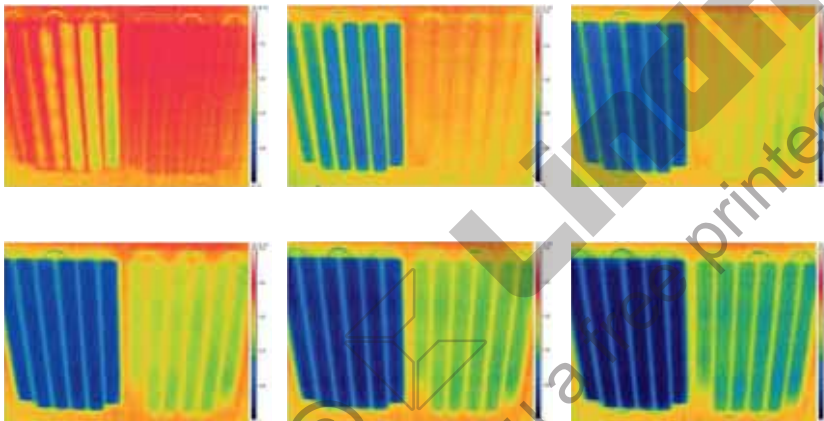
- A worldwide network of partners going back many years
- A team of qualified personnel
- Extensive specialist equipment
- Very high safety standards

We spy with our little eye ... Lindner thermal imaging makes everything clearer.

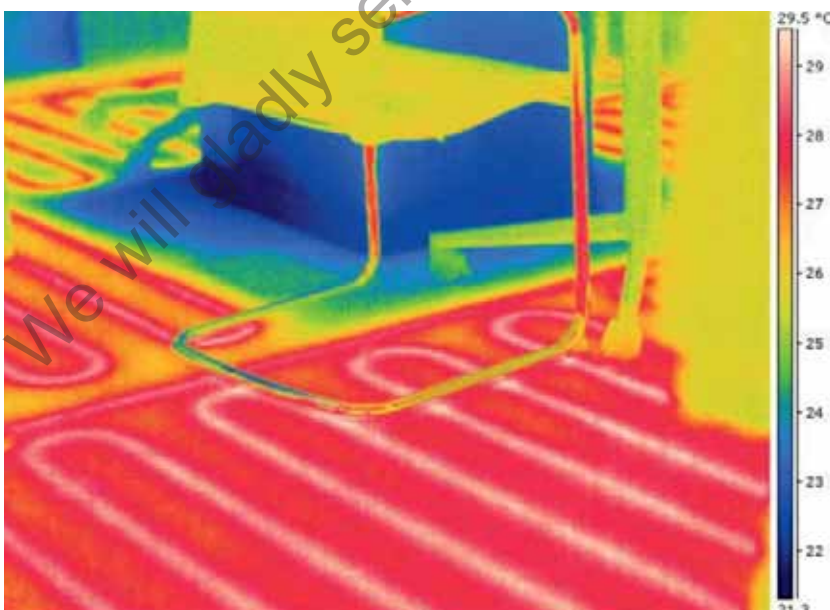
We carry out thermal imaging to check the efficiency of your heating and cooling systems. This allows us to check for blockages and to monitor the performance of our products. With Lindner thermal imaging we can identify any weakness in your system in the nick of time.



Certified to DIN EN 473



Here you can see the behaviour of different cooling systems at the development phase.



Thermal imaging allows you to see the efficiency of our heating and cooling systems. In this example you can see how well FLOOR and more® comfort works, with its integrated underfloor heating system.

We can do it all for you.

Lindner Concepts:

- Insulation Engineering and Industrial Service
- Clean Rooms and Laboratories
- Airports and Airlines
- Railways and Tunnels
- Studios and Concert Halls
- Interior Fit-out and Furnishings
- Cruise Liner and Ship Fit-out
- Hotels and Resorts
- General Contracting

Lindner Products:

- Facades
- Ceiling Systems
- Lights and Lighting Systems
- Partition Systems
- Doors
- Floor Systems
- Heating and Cooling Technologies
- Dry Lining Systems

Lindner Service:

- Green Building
- Deconstruction and Gutting
- Clearance of Harmful Substances
- Research and Development
- Delivery
- General Planning
- Installation
- Maintenance
- Public-Private Partnership (PPP)

Lindner

Bahnhofstraße 29

94424 Arnstorf

Germany

Phone +49 (0)8723/20-36 80

Fax +49 (0)8723/20-26 90

heating.cooling@

Lindner-Group.com

www.Lindner-Group.com