

Appearance Counts. Function Too. Lindner Hook-On/Corridor Ceilings and

Plafotherm[®] Heated and Chilled Hook-On Ceilings





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

Lindner Hook-On/ Corridor Ceilings

Fit every space.

Lindner Hook-On and Corridor ceilings are multipurpose ceiling solutions. Widely adaptable, both functionally and visually, they can span up to 3,300 mm in rooms and corridors without the need for additional suspension. Service installations in the ceiling cavity can be easily accessed.

All ceiling systems are fitted with Lindner Lighting Systems from our own production.

Lindner Heating and Cooling Technologies are available as an option.



Customer benefits at a glance

- -A range of ceiling panel shapes, such as rectangular, square, trapezoidal, triangular as well as curved
- -Easily accessible
- -Wide selection of surface options
- -Perfectly integrated Lindner Lighting Solutions
- -Pleasant temperature levels with our Plafotherm[®] Heating and Cooling Technologies

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LMD Hook-On Ceilings

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Office building Moskow, Russia © Zahar Aborkin

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Tested quality



Building material class A2-s1, d0 tested to EN 13501-1 Class A (IBC) tested to ASTM E 84 Class 0 tested to BS 476 part 6/7



Sound absorption up to sound absorption class A tested to ISO 11654



Environmental product declarations validated to ISO 14025

Certification / Regulations

CE

Execution of the system ceilings tested to EN 13964



Quality standard according to the technical regulations of TAIM (Association of Industrial Metal Ceiling Manufacturers TAIM e.V.)

Light reflectance approx. 82 %

unperforated tested to DIN 5033

tested to EN 13964, table 8 and 9

9010 acc. to Lindner,

Durability

exposure class A

Technical data

Metal ceiling system	
Ceiling panel	Length up to 3,300 mm, width up to 1,250 mm, made of zinc-galvanised steel, powder-coated, aluminium or stainless steel available on request, depending on the system
Edges	square
Perforation	available in all standard perforations depending on panel dimensions resp. material, see Surface Brochure
Surface	electrostatically applied powder-coating further surfaces see Surface Brochure
Colour	9010 acc. to Lindner, other colors in RAL and NCS availabe
Substructure	Profile manufactured from galvanised sheet steel, roll-formed or bent steel profile including suspension
Relevant norms	DIN EN 10152/10327/13964, DIN EN ISO 12944, BS 2989, ASTM A 653

Infinite Versatility.

Hook-On Ceiling - Concealed supporting profiles, removable panels





LMD-E 200 is the 'all-rounder' within this range. Its strong points are: tightly abutting panels for closed

joints, high quality metal panel, appealing visual and ease of installation.

System	Detail	Installation detail
LMD-E 200 Type 2 Hook-On/Lay-On length up to 3,000 mm, width up to 1,250 mm		panel length 3 panel length
LMD-E 200 Type 3 Hook-On/Lay-On self-aligning length up to 3,000 mm, width up to 1,250 mm		panel length 3 panel length
LMD-E 200 Type 4 Hook-On on both sides length up to 3,000 mm, width up to 1,250 mm		panel length 3
LMD-E 200 Type 5 Cassette Hook-On/Lay-On 600 mm x 600 mm 625 mm x 625 mm		panel length 3 panel length

Cleverly designed.

Hook-On Ceiling with butt joints - Concealed supporting profiles, removable panels





The substructure for LMD-E 210 makes installation easy. The design of the short sides of the panel and the construction of the profile automatically ensure

joint alignment during installation. All panels can be removed without the need for any tools.

System	Detail	Installation detail
LMD-E 210 Type 1 Hook-On length: 3,000 mm, width 400 mm length: 2,000 mm, width 625 mm		panel length panel length

Views welcome.

Hook-On Ceiling with accentuated joints – Concealed Hook-On substructure with accentuated joints, removable panels optionally with Swing-Down/Slide function



LMD-E 213's hook-on profile defines its appearance. The emphasised joints are available in widths of



10 mm, 15 mm or 20 mm. Removable and Swing-Down panels can be combined.

System	Detail	Installation detail
LMD-E 213 Type 1 Hook-On length up to 3,000 mm, width up to 1,250 mm		panel length 10 - 20
LMD-E 213 Type 2 Hook-On with Swing-Down option < 1.2 m ² length up to 3,000 mm, width up to 1,250 mm		panel length 10 - 20
LMD-E 213 Type 3 Hook-On with Swing-Down option > 1.2 m ² length up to 3,000 mm, width up to 1,250 mm		panel length

LMD-E 213 WL

Safe under any conditions.

Hook-On Ceiling for exterior areas – Concealed Hook-On substructure with accentuated joints, removable panels with Swing-Down option



The Hook-On ceiling LMD-E 213 WL is suitable for roofed outdoor areas for wind pressure and suction loads up to 100 kg/m² in standard execution.



The exterior ceiling in steel or stainless steel is fast and easy to install. Moreover, it is furnished with a high-grade Meteo corrosion protection coating.



Expert expertise.

Hook-On Ceiling with open joints – Concealed Hook-On substructure with Swing-Down option, removable panels





The LMD-E 214 system is a direct result of Lindner's on-site experience: quickly installed and easily

accessed with an outstanding visual. Joint widths are variable exceeding 10 mm.

System	Detail	Installation detail
LMD-E 214 Type 1 Hook-On length up to 3,000 mm, width up to 1,250 mm		panel length >10
LMD-E 214 Type 2 Hook-On with Swing-Down option < 1.2 m ² length up to 3,000 mm, width up to 1,250 mm		panel length >10
LMD-E 214 Type 3 Hook-On with Swing-Down option > 1.2 m ² length up to 3,000 mm, width up to 1,250 mm		



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Canberra Airport, Australia

LMD Corridor Ceilings

System	 	Page
LMD-E 300	Lay-In Corridor Ceiling Wall connection profile visible, panels removable	15
LMD-E 312	Hook-On Corridor Ceiling Concealed Hook-On substructure, removable panels with Swing-Down option	16
LMD-E 321	Lay-In/Swing-Down Corridor Ceiling Wall connection profile visible, Swing-Down-and- Slide panels	17
LMD-E 340	Drop-Slide Corridor Ceiling Wall connection profile visible, Drop-Slide panels	18

Simplicity at its best.

Lay-In Corridor Ceiling - Wall connection profile visible, panels removable





LMD-E 300 spans corridors of up to 3,000 mm with maximum efficiency: wall connection profiles on

each side of the corridor are installed to carry Lay-In metal ceiling panels.



With an optional swing.

Hook-On Corridor Ceiling – Concealed Hook-On substructure, removable panels optionally with Swing-Down/ Slide function



Swing-Down access panels are an option with LMD-E 312. We leave it to you to combine them with removable hook-on panels. In both cases the



substructure is hidden in a shadow gap connected to the wall.



Never loses its swing.

Lay-In/Swing-Down Corridor Ceiling - Wall connection profile visible, Swing-Down/Slide panels



LMD-E 321 provides comfortable access to the ceiling cavity: the durable Swing-Down mechanism allows access through every panel.

Furthermore the slide option provides a larger opening.



Hinging and locking elements are protected by DBGM.



System	Detail	Installation detail
LMD-E 321 Type 1 Swing-Down option on longitudinal side length up to 3,000 mm, width up to 1,250 mm		28 -3 panel length 12-45
LMD-E 321 Type 2 Swing-Down option on short side length up to 3,000 mm, width up to 1,250 mm	C P	28 <u>*3 panel length</u> 12. 45

As good as it gets.

Drop-Slide Corridor Ceiling - Wall connection profile visible, Drop-Slide panels



Lindner's patented Drop-Slide ceiling is the pick of the bunch! Each panel can be lowered and slid in either direction, providing convenient access to service installations in the void.



System is protected by EP/DBP and DBGM.









Sound absorption

Example of the range of standard perforations available for ceilings without Heating and Cooling Technology

Rg 0,7 - 4 Hole diameter 0.7 mm open area 4 % valid for steel 0.6 mm acoustic tissue	$lpha_{w}$ = 0.70 SAA / $lpha_{s,m}$ = 0.71 NRC = 0.70	S 1.0 1.0 0.8 0.4 0.2 0.0 125 250 500 1000 2000 4000 Frequency in Hz
Rd 1,6 - 25 Hole diameter 1.6 mm open area 25 % valid for steel 0.6 mm acoustic tissue	$\alpha_{w} = 0.70$ SAA / $\alpha_{s,m} = 0.70$ NRC = 0.70	S 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0
Rv 1,8 - 20 Hole diameter 1.8 mm open area 20 % valid for steel 0.6 mm acoustic tissue	$lpha_{w}$ = 0.75 (L) SAA / $lpha_{s,m}$ = 0.73 NRC = 0.75	S 1.0 S
Rg 2,5 - 16 Hole diameter 2.5 mm open area 16 % valid for steel 0.6 mm acoustic tissue	$lpha_{\rm w}$ = 0.80 (L) SAA / $lpha_{\rm s,m}$ = 0.81 NRC = 0.80	Solution of the second
Rg 2,5 - 16 Hole diameter 2.5 mm open area 16 % valid for steel 0.6 mm acoustic tissue and Sound absorption inlay	$\alpha_{w} = 1,0 (L)$ SAA / $\alpha_{s,m} = 0.92$ NRC = 0.95	S 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0

Where we wanted

Building material class

Product	Building material class	
Metal ceiling panel Metal ceiling panel manufactured from galvanized sheet steel, including powder-coated surface in colour 9010 acc. to Lindner and bonded acoustic tissue on the reverse side	A2-s1, d0 tested to EN 13501-1	
Mineral wool inlay Mineral wool shrink-wrapped in acoustic transparent foil Insula A2 Insula I Insula Basic	A2-s1, d0 tested to EN 13501-1 B1 tested to DIN 4102-1 B2 tested to DIN 4102-1	



Plafotherm[®] Heated/Chilled Hook-On Ceilings



The integrated Heating and Cooling Technologies of Plafotherm[®] E create a pleasant temperature for any living and working environment. The tried and tested Hook-On system ensures safe handling. We will be glad to give your metal ceiling a distinctive look by applying one of our many eye-catching Lindner surfaces.



Programme

System	Detail	Description
Plafotherm® E 200	P o	Hook-On Heated and Chilled Ceiling Concealed supporting profiles, panels removable
Plafotherm® E 213	a the	Hook-On Heated and Chilled Ceiling with accentuated joints Concealed Hook-On substructure with accentuated joints, removable panels with Swing-Down option
Plafotherm® E 214	O PO	Hook-On Heated and Chilled Ceiling with open joints Concealed supporting profiles, removable panels with Swing-Down option
Plafotherm® E 312		Heated and Chilled Corridor Hook-On ceiling Concealed Hook-On substructure, removable panels with Swing-Down option

Tested quality



Building material class A2-s2, d0 tested to EN 13501-1



Sound absorption up to sound absorption class B tested to ISO 11654



Environmental product declarations validated to ISO 14025



Light reflectance aprox. 82 % 9010 acc. to Lindner, unperforated tested to DIN 5033



Durability exposure class A tested to EN 13964, table 8 and 9



Nominal cooling capacity up to 120 W/m² tested to DIN EN 14240 (10 K) Nominal heating capacity up to 133 W/m² tested to DIN EN 14037 (15 K)

Certification / Regulations



Execution of the system ceilings tested to EN 13964



Quality standard according to the technical regulations of TAIM (Association of Industrial Metal Ceiling Manufacturers TAIM e.V.)





Heating and Cooling

Heat conducting profile with Cu-pipe fret

Heating/Cooling technology	consisting of aluminium heat conducting profile with copper pipe fret, integrated into ceiling panel for thermal conductivity		200 180 E 160 ≥ 140	Cooling		
Heat conducting profile	aluminium profile plain or perforated, standard widths of 80 and 120 mm	y [W/m²		- Heating		
Pipe fret	copper coil, 12 x 0.5 mm or 12 x 0.75 mm	capacit	120 100 80			
Water volume	approx. 1 l/m²	ecific	60			
Centre distance	from 90 mm on	sp	40 20			
Nominal cooling capacity acc. to DIN EN 14240 (10K)	112 W/m ²			6,0 8,0 10,0 12,0 14,0 Excess or insufficient temperature [K]		
Nominal heating capacity acc. to DIN EN 14037 (15K)	126 W/m ²					

Heat conducting profile with stainless pipe fret

Heating/Cooling technology	consisting of aluminium heat conducting profile with stainless steel pipe fret, integrated into ceiling panel for thermal conductivity	sity [W/m ²]	200 180	Cooling
Heat conducting profile	aluminium profile plain or perforated, standard widths of 80 and 120 mm		sity [W/m	160 140 120
Pipe fret	stainless, 12 x 0.5 mm	capac	100	
Water volume	approx. 1 l/m²	scific	80 60	
Centre distance	from 90 mm on	Spe	40	
Nominal cooling capacity acc. to DIN EN 14240 (10K)	109 W/m²		20	6,0 8,0 10,0 12,0 14,0 Excess or insufficient temperature [K]
Nominal heating capacity acc. to DIN EN 14037 (15K)	123 W/m²			

Graphite panel with Cu-	Dipe fret			
Heating/Cooling technology	consisting of graphite panel with copper pipe fret, integrated into ceiling panel for thermal conductivity		200	Cooling
Heat conducting profile	heat conducting graphite panel plain	//m ²]	180 160	- Heating
Pipe fret	copper coil, 12 x 0.5 mm	ity [A	140	
Water volume	approx. 1 l/m²	capac	120	·
Centre distance	100 mm	cific o	80 60	
Nominal cooling capacity acc. to DIN EN 14240 (10K)	120 W/m ²	Spe	40 20	6.0 8.0 10.0 12.0 14.0
Nominal heating capacity acc. to DIN EN 14037 (15K)	133 W/m²			Excess or insufficient temperature [K]

Determination of excess and insufficient temperature Recomended operation data

 $\begin{array}{l} \Delta \mathsf{T}_{\mathsf{K}} = \vartheta_{\mathsf{R}} - \frac{\vartheta \mathsf{VL} + \vartheta \mathsf{RL}}{2} \\ \Delta \mathsf{T}_{\mathsf{H}} = \frac{\vartheta \mathsf{VL} + \vartheta \mathsf{RL}}{2} - \vartheta_{\mathsf{R}} \end{array}$

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 $\begin{array}{l} \Delta T_{_{K}} = insufficient \ temperature \ (cooling) \ [K] \\ \Delta T_{_{H}} = excess \ temperature \ (heating) \ [K] \\ \vartheta_{_{R}} = room \ temperature \ [C^{\circ}] \\ \vartheta_{_{VL}} = flow \ temperature \ [C^{\circ}] \\ \vartheta_{_{RL}} = return-flow \ temperature \ [C^{\circ}] \end{array}$

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Building material class

Product	Building material class	
Plafotherm [®] metal ceiling panel Metal ceiling panel manufactured from galvanized sheet steel, inclu- ding powder-coated surface in colour 9010 acc. to Lindner, bonded acoustic tissue on the reverse side and heat conducting profile	A2-s2, d0 tested to EN 13501-1	
Insula Mineral wool inlay Mineral wool shrink-wrapped in acoustic transparent foil Insula A2 Insula I Insula Basic	A2-s1, d0 tested to EN 13501-1 B1 tested to DIN 4102-1 B2 tested to DIN 4102-1	

-	
Flow temperature (cooling)	15 - 17 °C
Temperature spread	2 - 4 K
Flow temperature (heating)	30 - 35 °C
Temperature spread	4 - 6 K
Recomended pressure drops	25 - 30 kPa



Example of possible standard perforations for Heated and Chilled Ceilings with heat conducting profiles

Standard heat conducting profile

Rv 2,0 - 20 hole diameter 2.0 mm open area 20 % heat conducting profile acoustic tissue mineral wool lining	- - - - - - - - - - - - - -	$\alpha_{\rm w} = 0.55 \; (LM)$ SAA / $\alpha_{\rm s,m} = 0.69$ NRC = 0.70	S 1.0 0.6 0.6 0.0 0.0 0.0 125 250 500 1000 2000 4000 Frequency in Hz
Rg 2,5 - 16 hole diameter 2.5 mm open area 16 % heat conducting profile acoustic tissue mineral wool lining		$\alpha_{\rm w} = 0.50$ (L) SAA / $\alpha_{\rm s,m} = 0.64$ NRC = 0.65	S 1.0 0.8 0.6 0.6 0.0 0.0 125 250 500 1000 2000 4000 Frequency in Hz

Acoustically effective heat conducting profile

Rv 1,8 - 20 hole diameter 1.8 mm open area 20 % acoustically effective heat conducting profile acoustic tissue mineral wool lining	$\alpha_{\rm w} = 0.80$ SAA / $\alpha_{\rm s,m} = 0.79$ NRC = 0.80	u s s s s t u s s s t u s s t u s s t u s s t u s s t u s s t u s s t u s s t u s s t u u s t u u t u t u u t u u t u u t u u u t u u u u u u u u u u u u u
Rv 1,8 - 20 hole diameter 1.8 mm open area 20 % acoustically effective heat conducting profile acoustic tissue	$\alpha_{\rm w} = 0.70$ (L) SAA / $\alpha_{\rm s,m} = 0.74$ NRC = 0.75	C 100 S 100

Hydraulic Components

For perfect connections.

For perfect heating and cooling connections, Lindner provides a great number of hydraulic components and accessory parts.

Advantages:

- Tested system
- One-stop solutions
- Ideal for heating/cooling systems
- Maintained independently from other building trades

Connection hoses and fittings

High-grade steel hoses are oxygen impermeable, tested to DIN 4726, and are used as connection hoses. These hoses are perfectly suited to accept a large number of fittings. The quick plug connector MultiQuickConnect does without retaining claws which unnecessarily damage the meanders. Thus, a quick and user-friendly installation and removal is ensured. A locking button that clearly sticks out checks the correct installation and guarantees a positive connection and a secure hold. A system distributor with three outgoing lines completes the system.





Lindner Lighting Systems

Integration is our passion.

Lindner has a wide range of lighting fixtures that fulfill even the most demanding requirements.





Light Channels

The length and the execution of the light channels can flexibly be adapted to the room geometry. Moreover, they impress from the technology to the easy installation.

Integrated Luminaires

A wide range of integrated luminaires is available. These luminaires are shapely integrated into ceiling panels. Moreover, they are adapted to the room concept and the lighting quality.

System Luminaires

A multitude of system luminaires which are perfectly adapted to the ceiling systems regarding dimensions, installation and colour deviation are available.

Joint Designs

The visual of the ceiling system can be influenced by a selection of different joint designs. Besides aesthetic aspects, the joint design can also have an effect on the acoustic performance. Determine your choice of joint width by ordering panels with different spacers.



Wall Connections

Wall connections can be realised in different ways - with and without shadow gap. To ensure that cut panels rest entirely on the trim's supporting finish without any corrugation, hold-down clips and sheets are applied. Specially designed trims for columns provide for a clean connection to curved shapes.



L-trim



Shadow gap trim



Pillar semiring

Further wall connections available on request.

Surfaces

Lindner has a wide range of ceiling surfaces for different demands – so that your rooms are not only extraordinary but unique. We apply various colours, patterns, graphics, 3D textures and perforations to your metal ceiling. In particularly challenging areas, we furnish our systems with coatings that are more than just eye-catchers: They create a significant improvement of room quality.



Possible surfaces

- Powder Coating
- Design Surface
 - ARTline Design Powder Coating GRAPHICline – Print Technology EFFECTline – Grinding Technology SPREADline – Customised, image and scattered perforation
- Functional Surfaces Meteo – Corrosion Coating Mutex – Absorber Coating

- Special Surfaces
 - INOXlook Aluminium with appearance of stainless steel
- Structured Surfaces
 - TOUCHdesign 3D Surface
 - TOUCHdesign Lunar 3D high-gloss Surface TOUCHdesign Venas – 3D Structured Surface
 - TOUCHdesign Viva 3D Expanded Metal Surface
- Expanded Metal
- Perforations



A responsible approach to humans and nature is a matter of course for us as a manufacturer of long lasting ceiling systems in premium quality. We are continuously optimizing our wide range with the objective to further reduce their impact on the environment. Every production step is subject to a thorough control of the ambitious energy, material and quality requirements. This ensures that our clients do not only get a sophisticated product but that they can also rely on the ecological suitability.

Validated environmental product declarations according to ISO 14025 are available for the procedure of proof of the environmental performance of Lindner ceiling systems.







Lindner is a founding member of the German Sustainable Building Council (DGNB) and member of the US Green Building Council. We are actively involved in building up awareness for the principles of sustainable construction and the development of relevant standards.

Sustainable construction with Lindner ceiling systems:

- Extremely durable products with best functional characteristics and high economic efficiency
- End-to-end procedure of proof of the ecological material characteristics by environmental product declarations
- Consultancy service with all current building certifications, as for example according to DGNB, LEED, BREEAM

Simply healthier: Lindner ceiling systems.

- High recycling percentage up to 45 %
- VOC values are considerably below the limit according to AgBB / DIBt
- Free from toxicological gases, thus it is toxicologically inoffensive in case of fire according to DIN 53436
- The substances used for pre-cleaning of powder coating are no hazardous substances according to the Ordinance on Hazardous Substances.
- Powder recovery of surface coating of approx. 25 %
- Reference useful life is 70 years according verified EPD
- Up to 30 % of the primary energy demand can be saved with Plafotherm[®] heated and chilled ceiling systems

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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