

GALAXIS Radiant Ceiling Panels

Radiant Heat for Halls and Large Spaces

► Installation and Operating Instructions

Keep these instructions in a safe place for future use!



Kampmann.de/installation_manuals

GALAXIS Radiant Ceiling Panels 2.31

Radiant Heat for Halls and Large Spaces

Installation and Operating Instructions

Key to symbols:



Caution! Danger!

Non-compliance with this information can lead to serious personal injuries or damage to property.



Important note

Important note! In the event of non-adherence, the trouble-free operation of the unit(s) cannot be guaranteed.

Carefully read these instructions in full prior to any assembly and installation work!

Anyone involved with the installation, commissioning and use of this product is obliged to pass these instructions on to tradespeople who are involved at the same time or subsequently, as well as to end users or operators.

Retain these instructions until final decommissioning!

Contents

1. Intended Use	4
2. Safety Information	4
3. Overview of Panel Widths • Dimensions of Suspension Rails	5
4. Delivery/Storage	6
5. Installation – Connection	7
5.1 Welded Installation	9
6. Levelling and Connection	10
6.1 Installation of the Cover Panels	10
7. Installation Accessories	11
8. Installation of Impact Deflector Hoods	13
9. LED integral lighting (accessory)	15
9.1 Safety Information	15
9.2 Description	16
9.3 Components	16
9.4 Cabling	17
10. Electromechanical control	18
10.1 Clock thermostat type 30056	18
10.2 Electronic room temperature control type 30076	19
11. KaControl	20

2.31 GALAXIS Radiant Ceiling Panels

Radiant Heat for Halls and Large Spaces

Installation and Operating Instructions



Read the operating instructions carefully prior to installing the GALAXIS radiant ceiling panel!

1. Intended Use

KAMPMANN GALAXIS radiant ceiling panels are produced in compliance with the state of the art and recognised safety regulations. Nevertheless, their use can result in danger to people or damage to the product or other material assets if they are not appropriately installed and operated or correctly and properly used.

Only use Kampmann GALAXIS radiant ceiling panels for the purpose of heating indoors. They are not suitable for use in humid environments, such as swimming pools or outdoors. Protect the products from any moisture during storage and installation. If in doubt, check the proposed use with the manufacturer. Any use other than the use specified above is deemed not to be correct and proper. Any damage resulting from this is the sole responsibility of the installer/operator. Intended use is deemed to include observing the installation instructions described in these instructions.

The installation of this product requires specialist knowledge of heating, cooling and ventilation. This knowledge, generally learned in vocational training in one of the fields mentioned above, is not described separately. Damage caused by improper installation is the responsibility of the installer.

2. Safety Information



Caution! The radiant ceiling panels may have sharp edges that can cause injuries. The weight of the radiant panels can cause crushing and bone fractures.

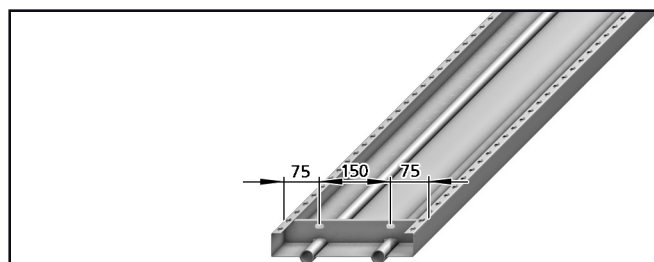
Therefore always wear gloves and safety shoes during assembly work and preferably use a lifting platform or forklift to move the radiant ceiling panels!

GALAXIS Radiant Ceiling Panels 2.31

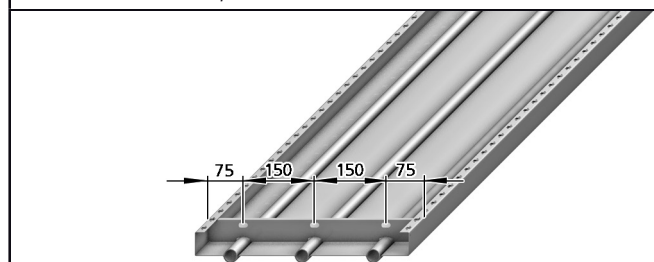
Radiant Heat for Halls and Large Spaces

Installation and Operating Instructions

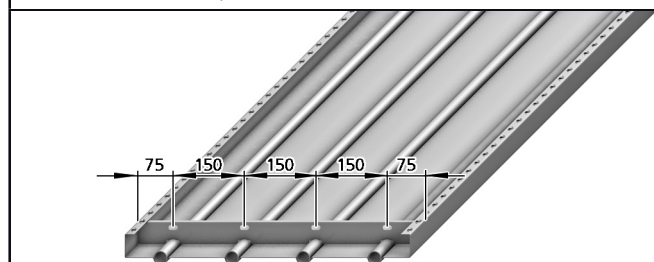
3. Overview of Panel Widths • Dimensions of Suspension Rails



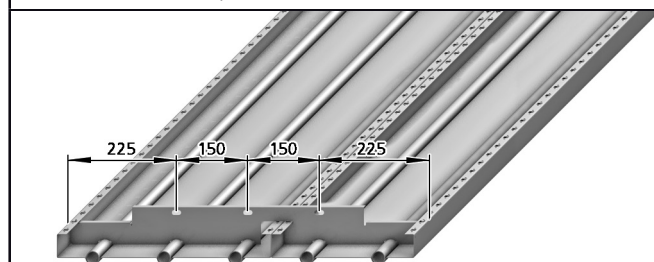
Panel width 300 mm,



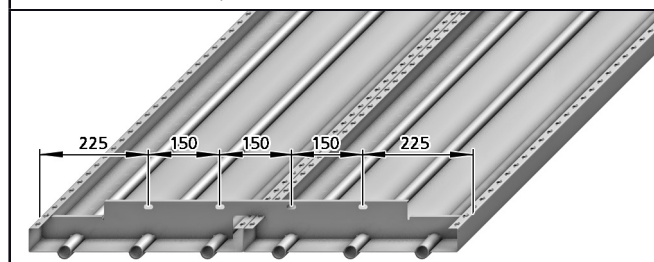
Panel width 450 mm,



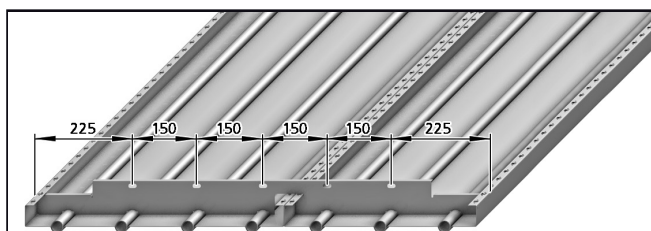
Panel width 600 mm,



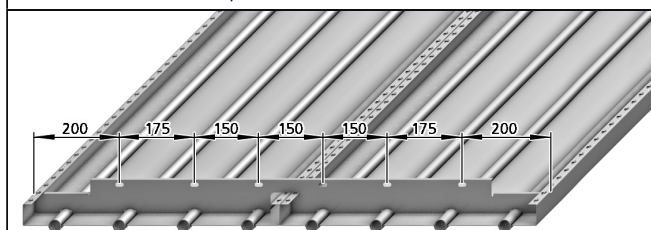
Panel width 750 mm,



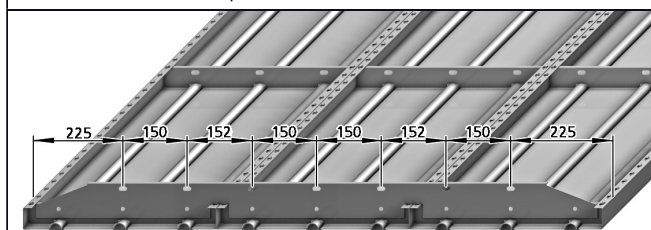
Panel width 900 mm,



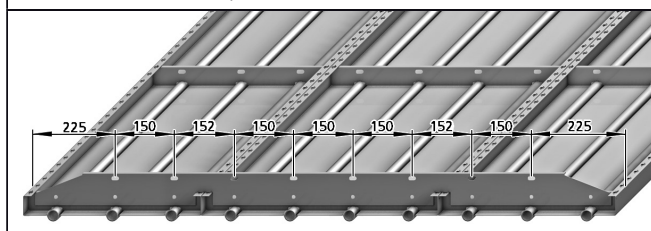
Panel width 1050 mm,



Panel width 1200 mm,



Panel width 1350 mm,



Panel width 1500 mm,

We reserve the right to make content or design-related changes without prior notice!

2.31 GALAXIS Radiant Ceiling Panels

Radiant Heat for Halls and Large Spaces

Installation and Operating Instructions

4. Delivery/Storage

Kampmann GALAXIS radiant ceiling panels are supplied on pallets with timber beams and polystyrene blocks in between (Fig. A).

Unload the panels by lifting in the area of the beams to avoid damage, such as bending.



Store radiant ceiling panels in a dry place. Their packaging does not prevent the ingress of moisture.

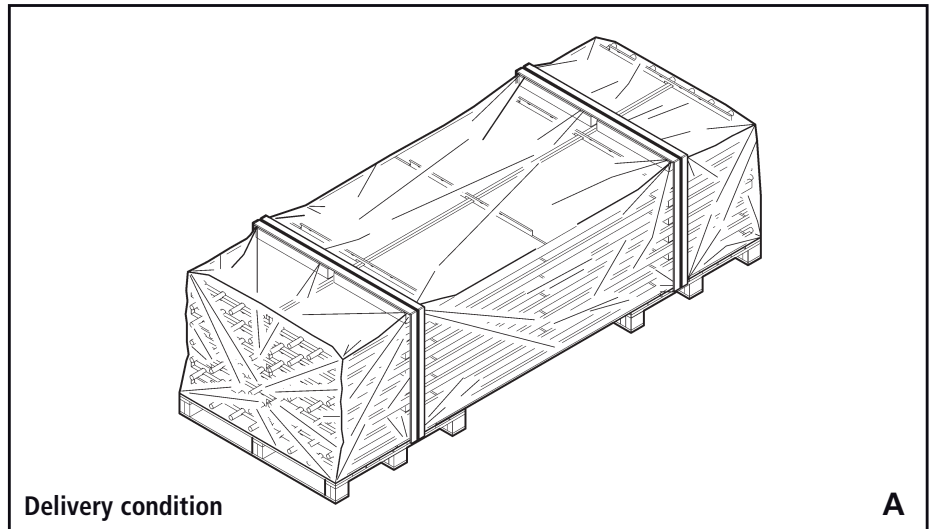


Information on disposal of the packaging material:

It is generally the responsibility of the client to dispose of the packaging on site.

We are a contractual partner of Interseroh, which can arrange site clearance.

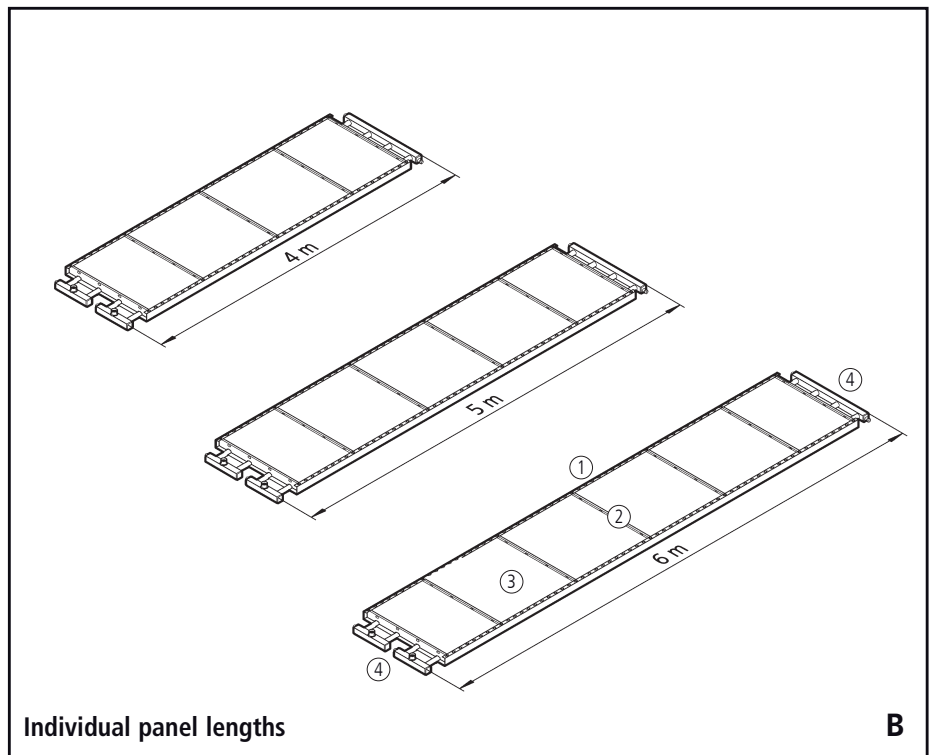
Our manufacturer's number is 25682.



Delivery condition

A

The panels will be delivered in individual panel lengths of 4, 5 or 6 metres in the corresponding panel width. Manifolds and return bends are factory-welded on delivery and insulation is already inserted (Fig. B).



Individual panel lengths

B

- ① Radiant ceiling panel element, e.g. 600 mm
- ② Suspension strut
- ③ Thermal insulation, inserted
- ④ Manifold and return bend

5. Installation – Connection

Minimum suspension heights

Radiant ceiling panel Panel length L	Minimum suspension height mm	
	Mean water temperature	
	< 75 °C	< 100 °C
10 m	200	210
20 m	220	240
30 m	240	270
40 m	270	310
50 m	300	350

Kampmann GALAXIS radiant ceiling panels are connected either by pressing the steel pipes together with press connectors type 195 (Viega) or by welding the steel pipes to each other.

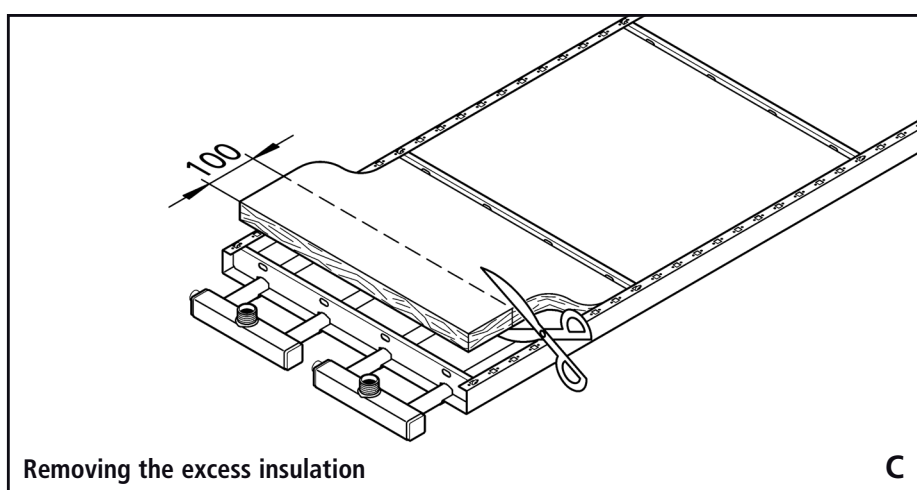
Thermal insulation

GALAXIS radiant ceiling panels are supplied with the insulation already fitted. It is inserted with an excess of 100 mm at the front end and rear of the panel.

- Cut off the 100 mm excess insulation. You may wish to use this spare insulation to insulate the manifold and return bend or the connection points when using the cover panel (accessory), see Fig. C.

Take care when removing and reinserting the insulation!

The heat outputs can only be guaranteed if the upper thermal insulation (40 mm, thermal conductivity 0.04 W/mK) is carefully inserted with the aluminium laminated side facing upwards.



Installing the suspension brackets:

- Please refer to the description of the suspension accessories on page 10.
- Determine the positions of the fixings on the ceiling and fix the percussion dowels or trapezoidal brackets in place. Fix the suspension brackets on the ceiling and approximately adjust the suspension height. When doing so, note the minimum suspension height (see above table)!

Installation of panels up to a final length of 6 m:

- Coordinate all suspension brackets to the statics of the building.
- Make sure that each panel is fixed with a minimum of four suspension points.
- Minimum specification for a panel length of 4 + 5 m: minimum of four attachment points
- Minimum specification for panel length of 6 m: a minimum of 6 attachment points A maximum gap of 4 m is possible up to a panel width of 900 mm (Fig. D)
- Fix the panel to the ceiling. To do so, use a lifting platform of similar to lift it and suspend it from the suspensions. Make sure that the panel is suspended from the fixing and attachment rails.

2.31 GALAXIS Radiant Ceiling Panels

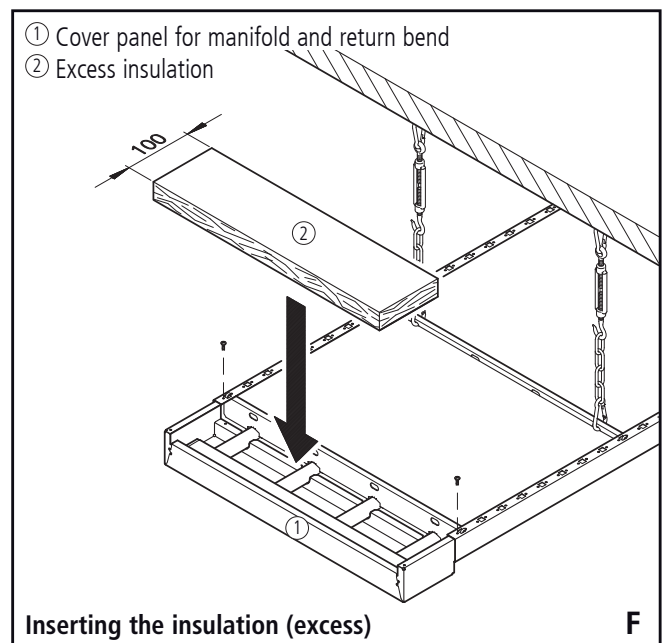
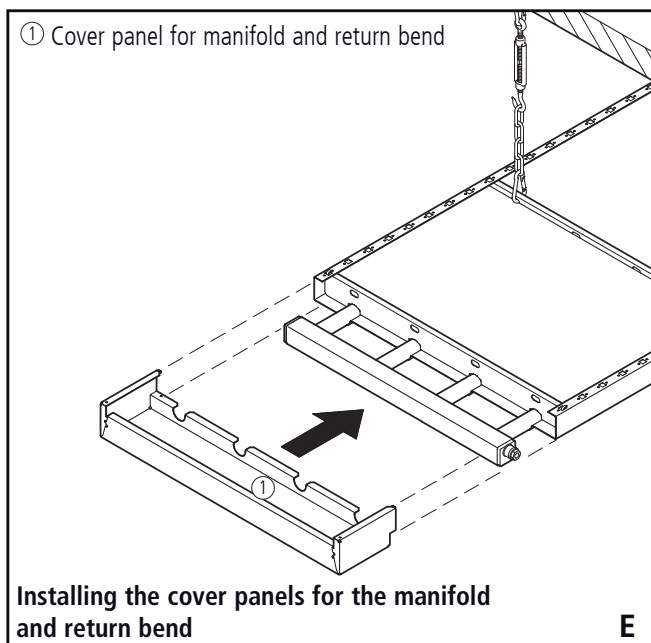
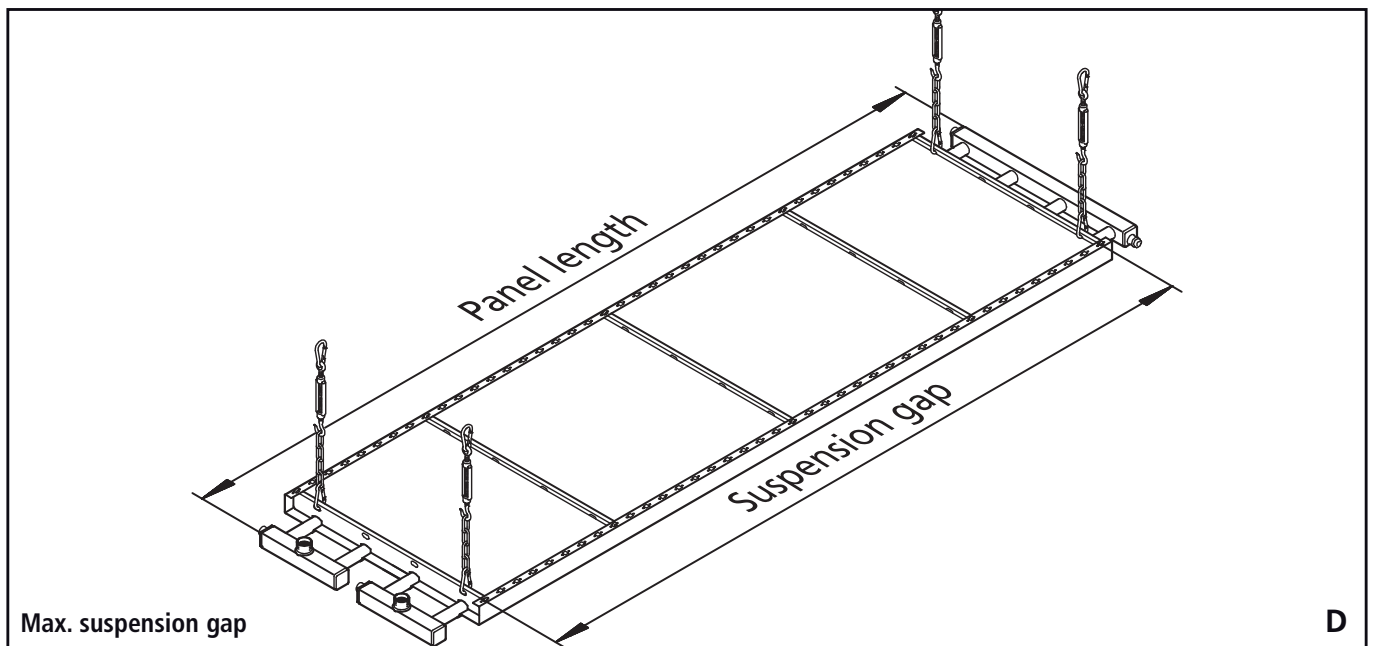
Radiant Heat for Halls and Large Spaces

Installation and Operating Instructions

Galaxis radiant ceiling panels can be moved lengthwise when using fixing brackets type 180. They are fixed by screws to the edges between the suspension rails. Holes on the fixing brackets and along the entire panel length of the radiant ceiling panel enable them to be flexibly fitted at 25 mm increments.

Fit the fixing brackets type 180 to the inner edge with panel widths of 1350 mm and 1500 mm.

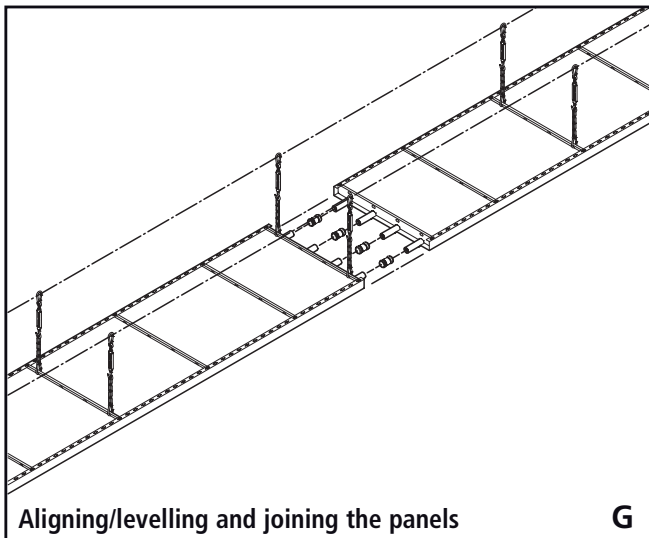
- Fix the cover panel for the manifold and return bend (if applicable) as shown on Figs. E and F.



GALAXIS Radiant Ceiling Panels 2.31

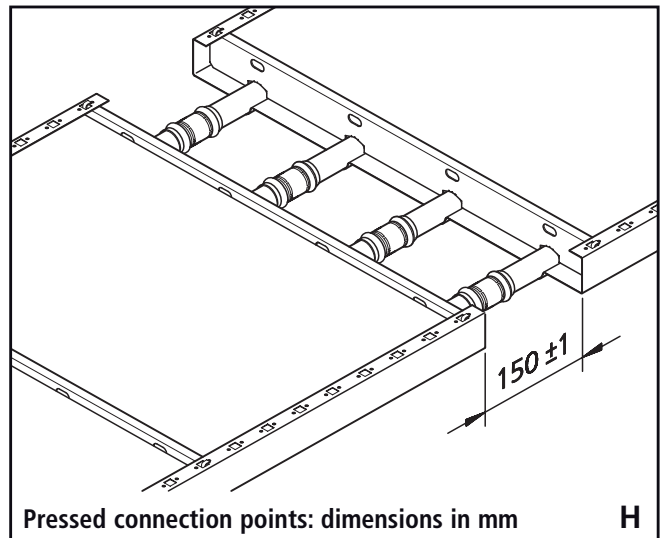
Radiant Heat for Halls and Large Spaces

Installation and Operating Instructions



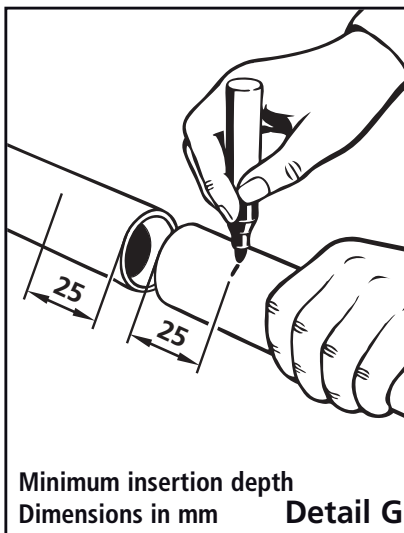
Aligning/levelling and joining the panels

G



Pressed connection points: dimensions in mm

H



Minimum insertion depth
Dimensions in mm

Detail G

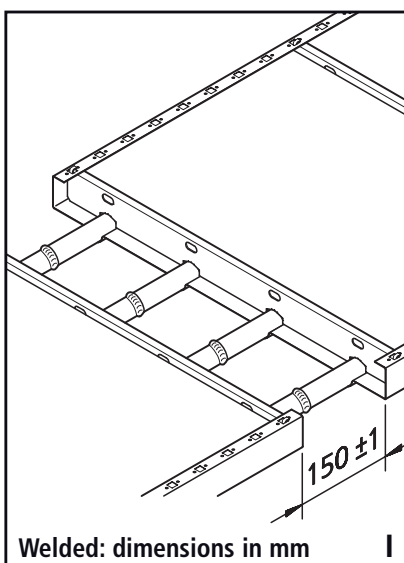
Installation of joined panels > 6 m final length:

- Remove the end caps from the steel pipes.
- Lay out all long elements as well as the beginning and end elements with the manifold and return bends at the installation site in their order of installation.
- Then fix the beginning and end elements, as well as the long elements, to the ceiling. To do so, use a lifting platform or similar to lift them and suspend them from the suspensions previously installed.
- Ensure that the radiant ceiling panels are level (aligned) (Fig. G).
- Then press the press connectors onto the steel pipes without the pipes bending in the press fittings. Make sure that the pipes are pressed into the press connectors with the stated minimum insertion depths (see Detail G). Ensure that there is a spacing of 150 ± 1 mm between two radiant ceiling panels (see Figs. H and I). This gap is needed for the cover panels for the connection points.
- Then press the press connectors together with the steel pipes. To do so, using a pressing tool type 2, PT3-EH, PT3-AH, Press gun 4E, Press gun 4B manufactured by Viega with the corresponding pressing jaws (Fig. H).

5.1 Welded Installation

Kampmann GALAXIS radiant ceiling panels can also be welded if they are not to be press-fitted. The installation sequence is described under 4.1. Instead of using press connectors, the steel pipes are welded to each other without press fittings; for welded panels see Fig. I.

- Align the long panels before welding the steel pipes in line with each other.
- Ensure that there is a spacing of 150 ± 1 mm between two radiant ceiling panels (see Fig. I).
- Weld the joints and then clean the welds.



Welded: dimensions in mm

I

2.31 GALAXIS Radiant Ceiling Panels

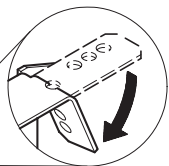
Radiant Heat for Halls and Large Spaces

Installation and Operating Instructions

6. Levelling and Connection

- Use a spirit level to adjust the height of the radiant ceiling panels, by adjusting the turnbuckles (Fig. G) if using the Kampmann installation set.
- Connect the water pipes.
- Fix the cover panel for the manifold and return bend (if applicable) to the panel (Fig. F).
- Cut off the excess insulation (100 mm) and use it to insulate the manifold and return bend or the joints (see also page 7 Fig. F) when using the cover panel (accessory).

- Press fixing lugs downwards



Cover plate

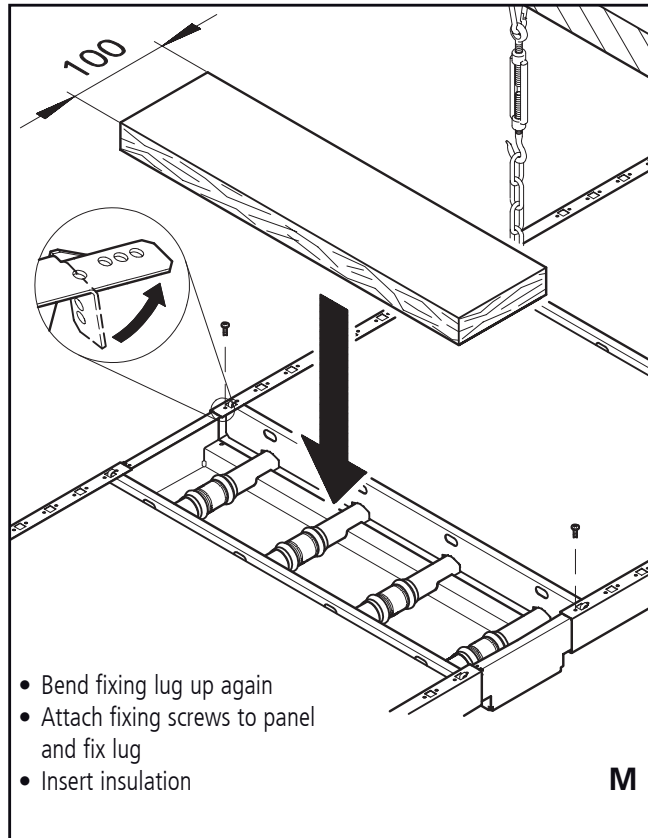
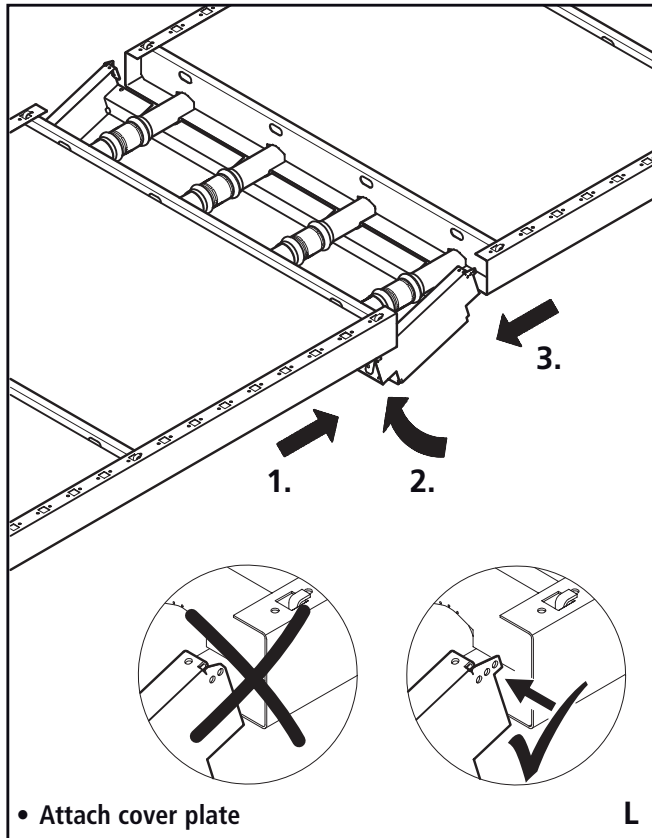
K

Take care when removing and reinserting the insulation!

The heat outputs can only be guaranteed if the upper thermal insulation (40 mm, thermal conductivity 0.04 W/mK) is carefully inserted with the aluminium laminated side facing upwards.

6.1 Installation of the Cover Panels

Fit the cover panels (Fig. K) for the joints as shown in Figs. K, L and M. Proceed as follows:



GALAXIS Radiant Ceiling Panels 2.31

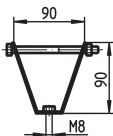
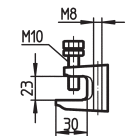
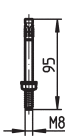
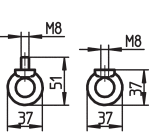
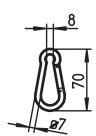
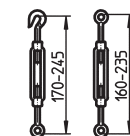
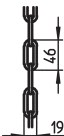

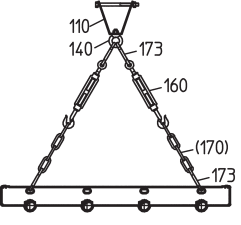

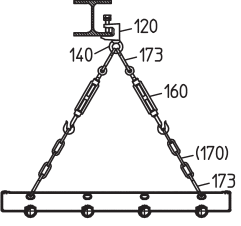
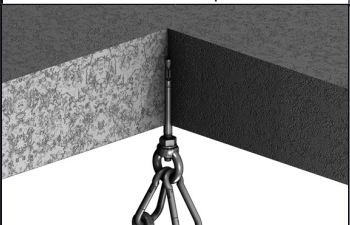
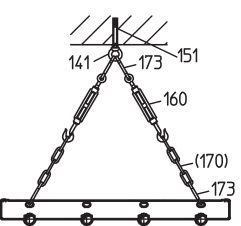
Radiant Heat for Halls and Large Spaces

Installation and Operating Instructions

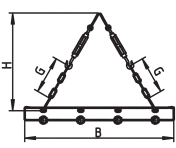
7. Installation Accessories

Descriptions of suspension brackets

Caution! Only use closed turnbuckles type 161 to ensure impact resistance from balls, referring to installation set 1 - point suspension for sports halls.

Accessories –Triangular suspension brackets ¹⁾							
Components:	 Trapezoidal bracket ¹⁾ M8, Type 110	 Beam clamp, Type 120	 Percussion dowel M8, Type 151	 Eye bolt M8, Type 140, Typ 141	 Carabiner hook, Type 173	 Turnbuckle, Type 160, Typ 161*	 Link chain, Type 170
Description of installation set:	Installation sets for triangular suspension brackets						
Fixing	Installation set		Number of components		Type		
Montageset Dreiecksaufhängung mit Trapezhänger ¹⁾ (ohne Gliederkette), Typ 1310	 Trapezoidal bracket		1 Trapezoidal bracket with fixing bolt M8 1 Eye bolt, male thread, M8 4 Carabiner hooks 2 Turnbuckles / (Link chain)		110 140 173 160 170		
Installation set for triangular suspension with trapezoidal bracket 1) (without link chain), type 1320	 Beam clamp		1 Beam clamp 1 Eye bolt, male thread, M8 4 Carabiner hooks 2 Turnbuckles / (Link chain)		120 140 173 160 170		
Installation set for triangular suspension with ceiling dowel (without link chain), type 1350	 Ceiling dowel		1 Percussion dowel M8 1 Eye bolt, female thread, M8 4 Carabiner hooks 2 Turnbuckles / (Link chain)		151 141 173 160 170		

Installation sets for triangular suspension or 1-point suspension include the necessary components for the specific fixing method. The appropriate length of link chains is also needed.

Link chain requirement for triangular suspension							
	Link chain length g in mm						
	Panel width B mm	Height h in mm					
		400	600	800	1000	1200	1400
							per additional 100 mm
	300	2 x 160	2 x 340	2 x 540	2 x 740	2 x 940	2 x 1140
	450	2 x 200	2 x 370	2 x 570	2 x 770	2 x 970	2 x 1170
	600	2 x 230	2 x 410	2 x 600	2 x 790	2 x 990	2 x 1200
	750	2 x 280	2 x 440	2 x 630	2 x 810	2 x 1020	2 x 1230
	900	2 x 320	2 x 480	2 x 660	2 x 840	2 x 1050	2 x 1260
	1050	2 x 380	2 x 520	2 x 690	2 x 870	2 x 1080	2 x 1290
	1200	2 x 450	2 x 570	2 x 730	2 x 900	2 x 1110	2 x 1320
	1350	2 x 520	2 x 640	2 x 780	2 x 940	2 x 1140	2 x 1350
	1500	2 x 580	2 x 690	2 x 830	2 x 980	2 x 1180	2 x 1380

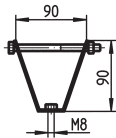
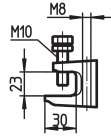
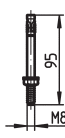
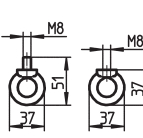
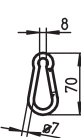


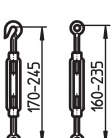

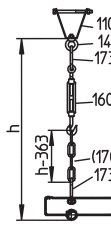

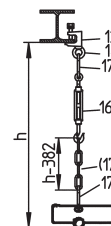

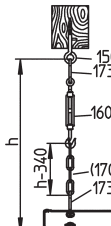
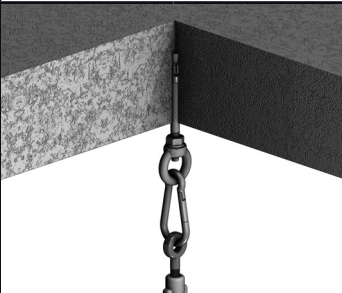
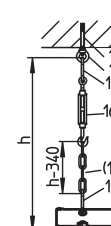
¹⁾ Check the structural strength of the ceiling construction, particularly the trapezoidal beam.

* Required when suspending Galaxis radiant ceiling panels in sports halls.

2.31 GALAXIS Radiant Ceiling Panels

Radiant Heat for Halls and Large Spaces

Installation and Operating Instructions

Accessories for 1-point suspension ¹⁾				
Components	 <p>Trapezoidal bracket¹⁾ M8, type 110</p>	 <p>Beam clamp, type 120</p>	 <p>Percussion dowel M8, type 151</p>  <p>Eye bolt, male thread M8, type 140, type 141</p>	 <p>Carabiner hook, type 173</p>  <p>Wood eyelet screw, type 150</p>  <p>Link chain, type 170</p>  <p>Turnbuckle, type 160, type 161*</p>
Description of installation set:	Installation sets for 1-point suspension			
	Fixing	Installation set **	Number of components for type 12 __	Number of components for type 14 __
Installation set for 1-point suspension with trapezoidal bracket 1) (without link chain), type 1210, for sports halls type 1410	 <p>Trapezoidal bracket</p>	 <p>**with type 14 __ = h - 293</p>	1 Trapezoidal bracket with fixing bolt M8, type 110 1 Eye bolt, male thread M8, type 140 2 Carabiner hooks, type 173 1 Turnbuckle, type 160 / (Link chain), type 170	1 Trapezoidal bracket with fixing bolt M8, type 110 1 Eye bolt, male thread M8, type 140 3 Carabiner hooks, type 173 1 Turnbuckle, type 161 / (Link chain), type 170
Installation set for 1-point suspension with beam clamp (without link chain), type 1220, for sports halls type 1420	 <p>Beam clamp</p>	 <p>** with type 14 __ = h - 318</p>	1 Beam clamp, type 120 1 Eye bolt, male thread M8, type 140 2 Carabiner hooks, type 173 1 Turnbuckle, type 160 / (Link chain), type 170	1 Beam clamp, type 120 1 Eye bolt, male thread M8, type 140 3 Carabiner hooks, type 173 1 Turnbuckle, type 161 / (Link chain), type 170
Installation set for 1-point suspension with wood eyelet screw (without link chain), type 1250, for sports halls type 1450	 <p>Wood eyelet screw</p>	 <p>** with type 14 __ = h - 270</p>	1 Timber eye bolt, type 150 2 Carabiner hooks, type 173 1 Turnbuckle, type 160 / (Link chain), type 170	1 Timber eye bolt, type 150 3 Carabiner hooks, type 173 1 Turnbuckle, type 161 / (Link chain), type 170
Installation set for 1-point suspension with ceiling dowel (without link chain), type 1251, for sports halls type 1451	 <p>Ceiling dowel</p>	 <p>** with type 14 __ = h - 270</p>	1 Percussion dowel M8, type 151 1 Eye bolt, female thread M8, type 141 2 Carabiner hooks, type 173 1 Turnbuckle, type 160 / (Link chain), type 170	1 Percussion dowel M8, type 151 1 Eye bolt, female thread M8, type 141 3 Carabiner hooks, type 173 1 Turnbuckle, type 161 / (Link chain), type 170

¹⁾ Check the structural strength of the ceiling construction, particularly the trapezoidal beam.

* Required when suspending Galaxis radiant ceiling panels in sports halls.

GALAXIS Radiant Ceiling Panels 2.31

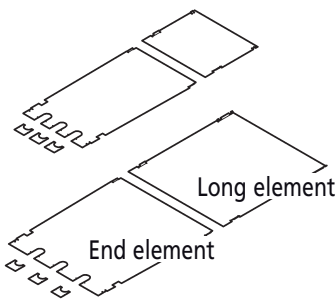
Radiant Heat for Halls and Large Spaces

Installation and Operating Instructions

8. Installation of Impact Deflector Hoods

Caution: Before installing the impact deflector hoods, read the general installation instructions for GALAXIS radiant ceiling panels.

Caution: In all cases use the cover panels for the manifold and return bend and the cover panels for the joints when using impact deflector hoods!



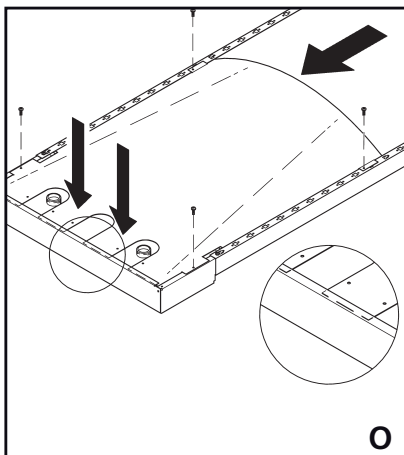
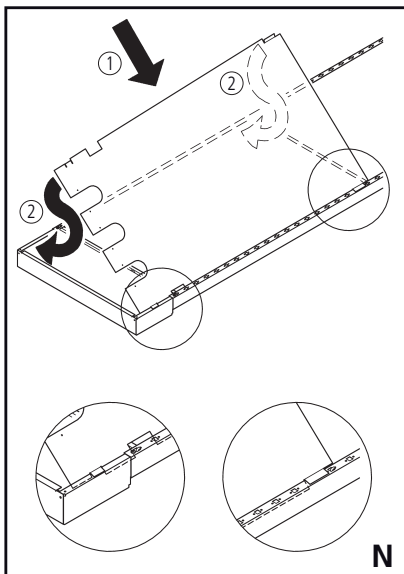
Installation of end elements

Scope of delivery

- 2 no. end elements
- 4 Metal screws per end element
- 2 Metal screws per cover panel for cut-out

Select the end elements for the impact deflector hoods to fit either same-end or opposite-end connections.

- Push one side of an element for the connection and return bend end of the panel under the outer edge of the radiant ceiling panel. ①. Make sure that the fixing lugs (see detail) lie above the outer edge (Fig. N).
- Bend the end element under the opposite outer edge of the radiant ceiling panel ②. Make sure that the fixing lugs (see detail Fig. N) lie above the outer edge.
- If a cover plate for the manifold and return bend is fitted, push the end element under the front edge of the cover panel (Fig. O).
- Fix the fixing lugs of the end element to the radiant ceiling panel using the screws supplied.
- Semi-circular cut-outs are provided on the end element for connection of the flow and return pipes. Once connected, the cut-outs can be concealed by the cover panels provided. Fix the panels in place at the appropriate positions on the end element using the screws provided (Fig. P).



Installation of long elements

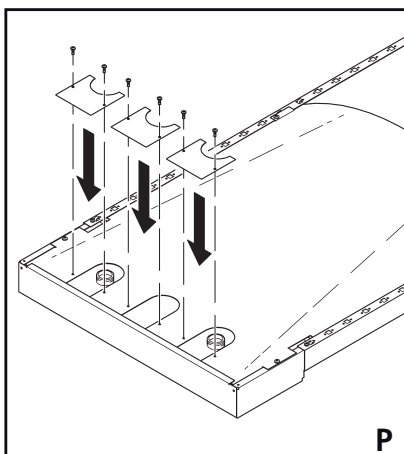
Scope of delivery

Depending on the panel length:

Panel width **450 mm and 600 mm**: 2 no. long elements between 2 suspension struts

Panel width **900 mm and 1200 mm**: 1 no. long element between 2 suspension struts

4 Metal screws per long element



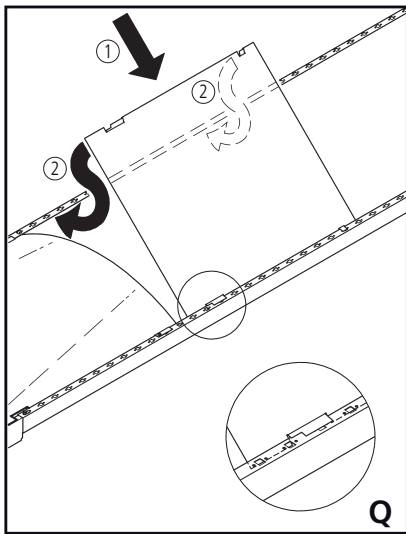
The cover is sealed if there is no connection.

KAMPMANN
Genau mein Klima.

2.31 GALAXIS Radiant Ceiling Panels

Radiant Heat for Halls and Large Spaces

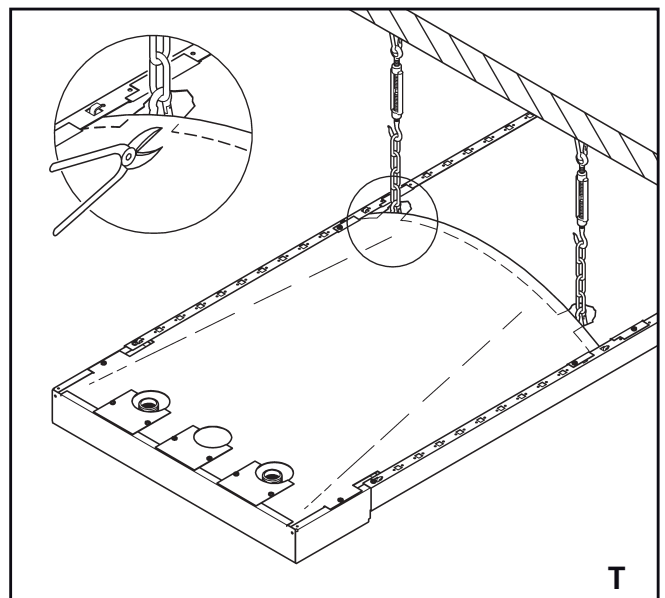
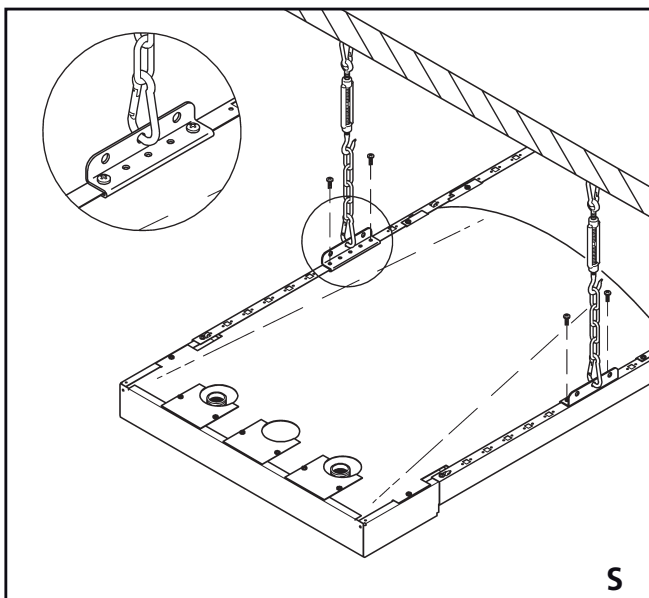
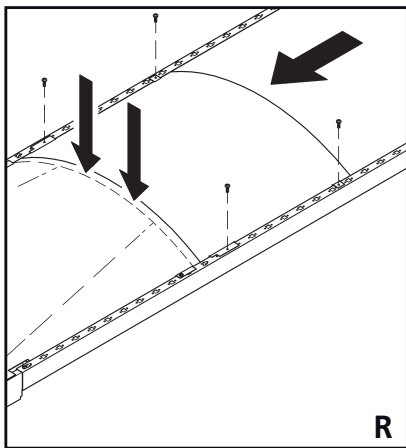
Installation and Operating Instructions



- Push the long element between the suspension rods under the outer edge of the radiant ceiling panel ①. Make sure that the fixing lugs (see detail) lie above the outer edge (Fig. Q).
- Bend the long element under the opposite outer edge of the radiant ceiling panel ②. Make sure that the fixing lugs (see detail) lie above the outer edge (Fig. Q).
- Slide the long elements under each other or telescopically overlapping with the connecting elements (Fig. R).
- Fix the fixing lugs of the long element to the radiant ceiling panel using the screws supplied.

Brackets

- If angle bracket type 180 is used for adjustable installation, press the panels down a little at the fixing points and slide the bracket onto the outer edges (Fig. S) Then screw-fix the bracket to the outer edge of the radiant ceiling panel. Only use closed turnbuckles type 161 to ensure impact resistance from balls, referring to installation set 1-point suspension for sports halls.
- Use metal snippers to cut the panel on site when fixing to the suspension struts.
- Fit the fixing bracket type 180 to the inner edge with panel widths of 1350 mm and 1500 mm.





9. LED integral lighting (accessory)

9.1 Safety Information

Only allow a qualified electrician to perform installation, assembly and maintenance work on electrical units in compliance with VDE guidelines. Wiring should comply with the applicable VDE regulations and provisions laid down by the regional electricity providers. Non-compliance with the regulations and operating instructions can result in the units malfunctioning with consequential damage and danger to people. There is a danger of fatal injury caused by wires being crossed due to incorrect wiring! Disconnect all parts of the system from the mains power supply and prevent them from being reconnected before starting any connection and maintenance work!

The unit should only be connected to fixed cabling. Please read this manual in full to ensure correct and proper installation.

Please note the following safety-relevant information:

- Disconnect all parts of the system that are being worked on.
- Ensure that the system cannot be accidentally re-connected!
- Before commencing installation/maintenance work, wait until the fan has come to a standstill after the unit has been switched off.
- **Caution!** Pipes, casings and fittings can become very hot depending on the operating mode!
- Qualified personnel must have undergone training to provide them with adequate knowledge of the following:
 - Safety and accident prevention regulations
 - Guidelines and recognised technical regulations, i.e. Association of German Electricians (VDE)
 - DIN and EN standards
 - Accident prevention regulations VBG, VBG4, VBG9a
 - DIN VDE 0100, DIN VDE 0105
 - EN 60730 (Part 1)
 - Technical wiring regulations (TABs) issued by the regional electricity providers

Modifications to the unit

Do not undertake any modifications, conversions or upgrades without discussing them with the manufacturer as they can impair the safety and operation of the unit. Do not carry out any measures on the unit not described in this manual. Make sure that on-site systems and cabling are suitable for connection to the intended system!

2.31 GALAXIS Radiant Ceiling Panels

Radiant Heat for Halls and Large Spaces

Installation and Operating Instructions

9.2 Description

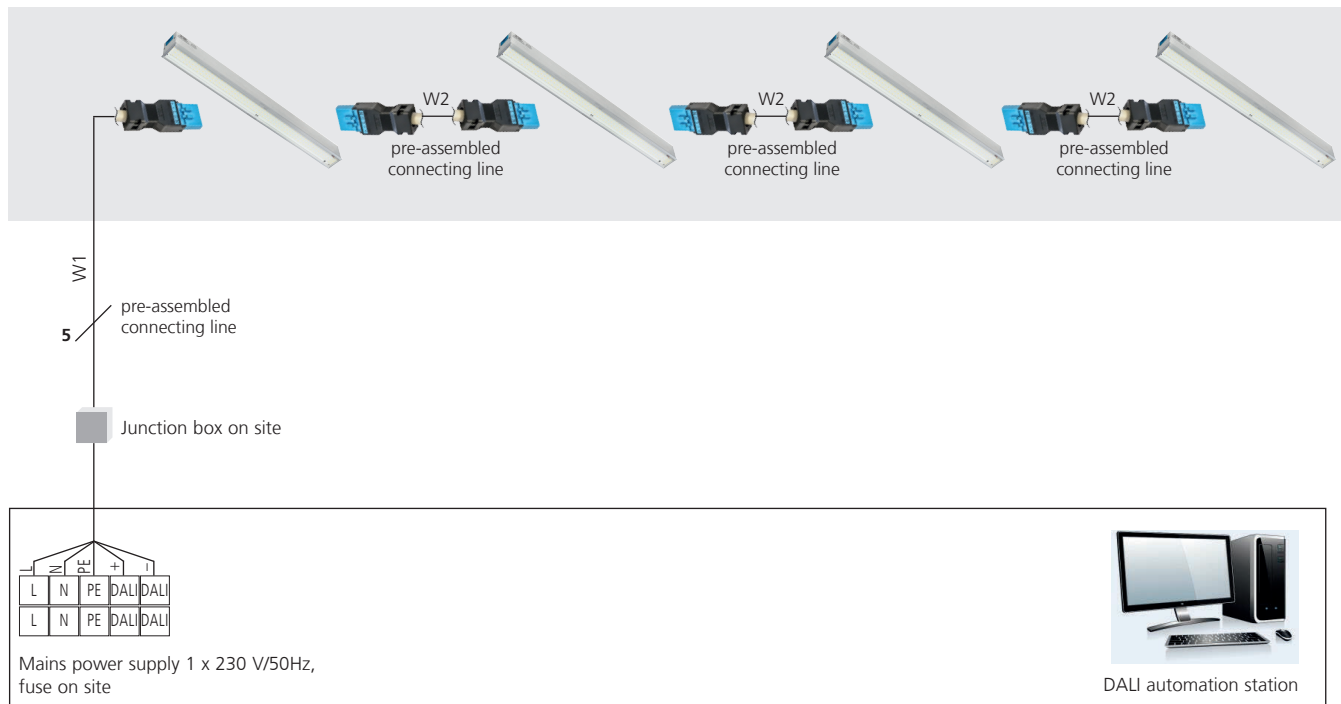
The clear and impact-proof design of cover (certified DIN 18032-3) has a light yield of 100% of the inner luminous flux of the LED, thereby producing maximum brightness.

9.3 Components

Abbildung	Artikel	Eigenschaften	passend für	Art.-Nr.
Komponenten				
	LED-light strip clear, 4000K, impact-proof	LED integral light, 26 W impact-proof design with a clear cover, neutral white lamp colour (4000 K) and a luminous flux of up to 4040 lm, length 560 mm, incl. integrated control module		231000005410
	LED-light strip clear, 5000K, impact-proof	LED integral light, 26 W impact-proof design with a clear cover, neutral white lamp colour (5000 K) and a luminous flux of up to 4040 lm, length 560 mm, incl. integrated control module		231000005510
	main supply 7 m	mains supply 5-core. socket/open line, halogen-free, length 7 m	LED-light strip	231000005027
	connection line 2 m	connection line 5-core. socket/plug, halogen-free, length 2 m	LED-light strip	231000005012
	connection line 3 m	connection line 5-core. socket/plug, halogen-free, length 3 m	LED-light strip	231000005013
	connection line 5 m	connection line 5-core. socket/plug, halogen-free, length 5 m	LED-light strip	231000005015

9.4 Cabling

Radiant Ceiling Panel Galaxis with LED



Pre-assembled cable tree

W1: mains supply between junction box (on site) and first LED, (power supply and control signal)

W2: connection line between individual LED, (power supply and control signal)

2.31 GALAXIS Radiant Ceiling Panels

Radiant Heat for Halls and Large Spaces

Installation and Operating Instructions

10. Electromechanical control

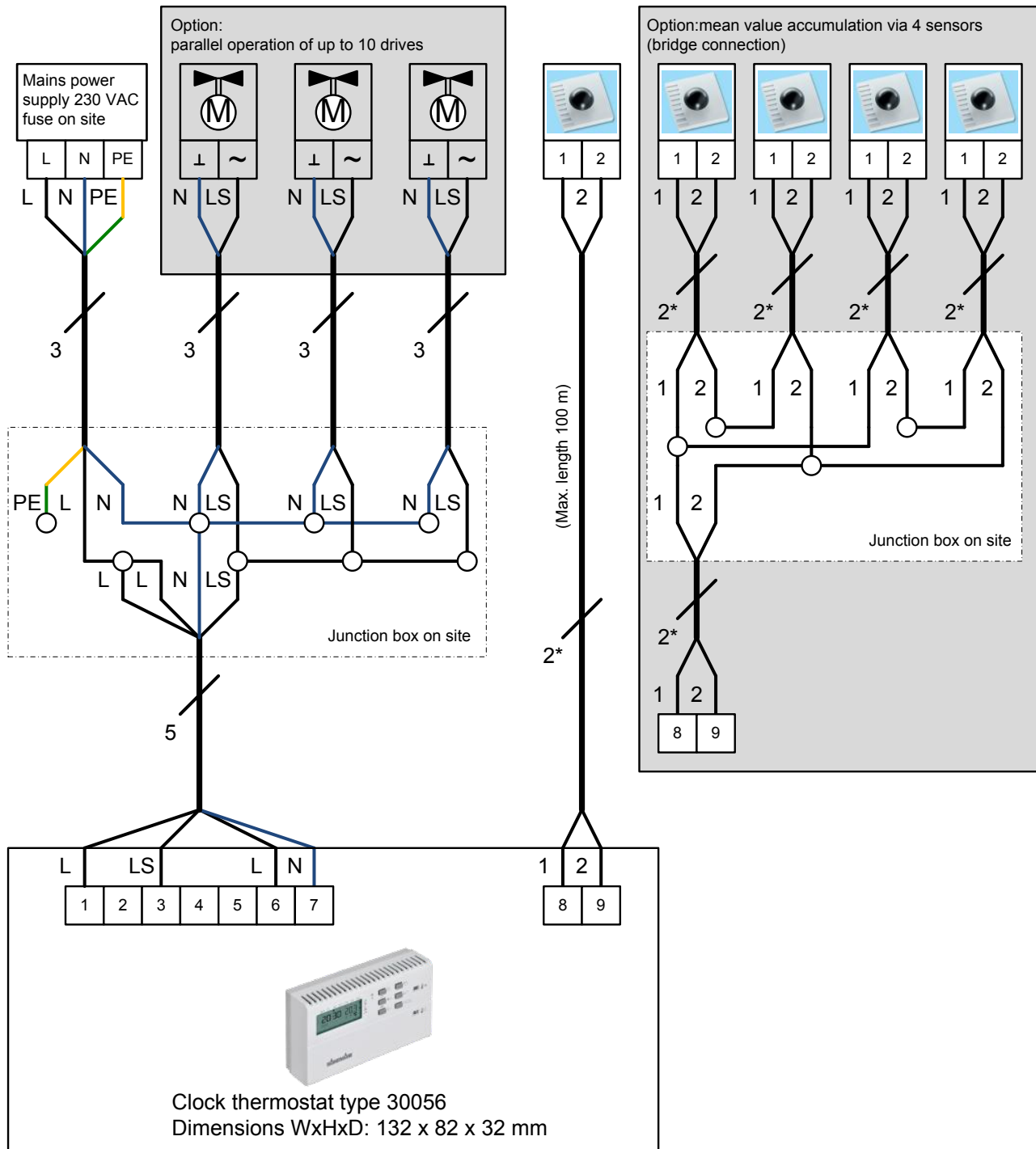
10.1 Clock thermostat type 30056

Radiant ceiling panel controlled by clock thermostat type 30056

Voltage supply

Control valve combination including
2-point drive 230 VAC thermal

Room-radiation temperature sensor
Home: type 197901051254 / Industry: type 197901051255



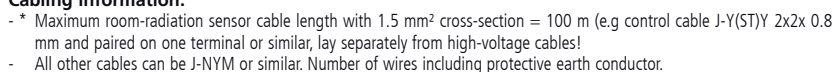
Cabling information:

- * Maximum room-radiation sensor cable length with 1.5 mm² cross-section = 100 m (e.g. control cable J-Y(ST)Y 2x2x 0.8 mm and paired on one terminal or similar, lay separately from high-voltage cables!
- All other cables can be J-NYM or similar. Number of wires including protective earth conductor.

Installation and Operating Instructions

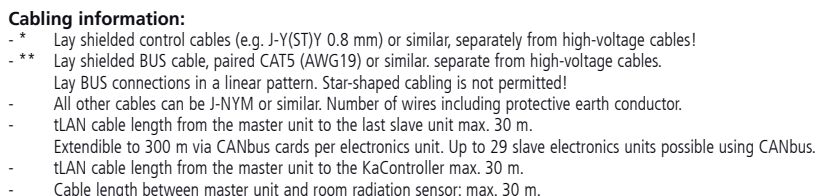
Radiant ceiling panel controlled by electronic room temperature control type 30076

Room-radiation temperature sensor
Home: type 197901051254 / Industry: type 197901051255



Radiant Heat for Halls and Large Spaces

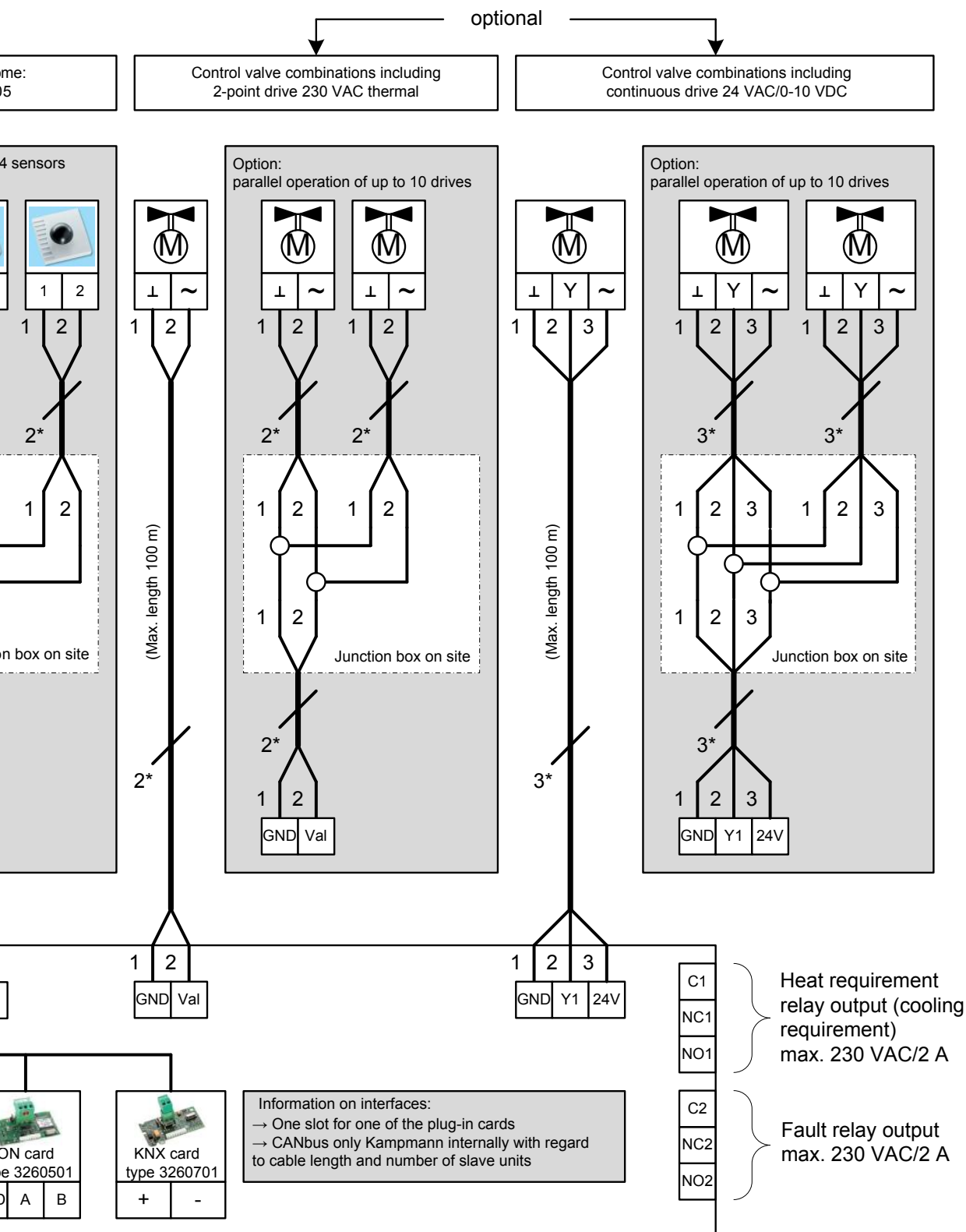
11. KaControl



GALAXIS Radiant Ceiling Panels 2.31

Radiant Heat for Halls and Large Spaces

Installation and Operating Instructions



2.31 GALAXIS Radiant Ceiling Panels

Radiant Heat for Halls and Large Spaces

Installation and Operating Instructions

GALAXIS Radiant Ceiling Panels 2.31

Radiant Heat for Halls and Large Spaces

Installation and Operating Instructions

Kampmann.eu/galaxis

Kampmann GmbH

Friedrich-Ebert-Str. 128 - 130
49811 Lingen (Ems)
Germany

T +49 591 7108-660
F +49 591 7108-173
E export@kampmann.de
W Kampmann.eu

Kampmann UK Ltd.

Dial House, Govett Avenue
Shepperton, Middlesex, TW17 8AG
Great Britain

T +44 (0)1932 228592
F +44 (0)1932 228949
E info@kampmann.co.uk
W Kampmann.co.uk