

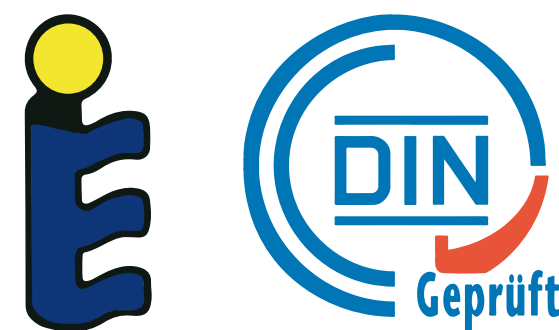
Radiant Ceiling Panels

# Galaxis

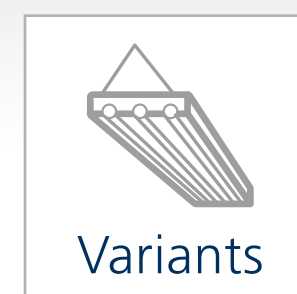
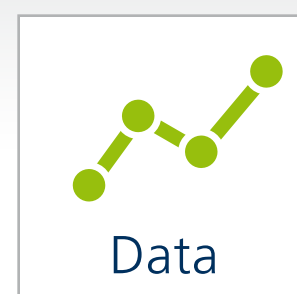
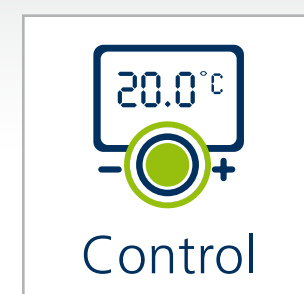
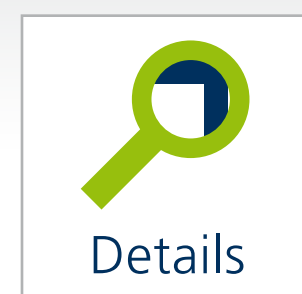
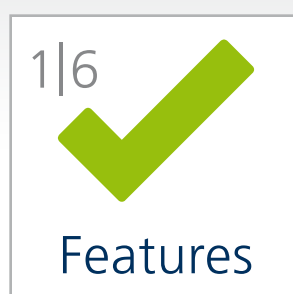
**KAMPMANN**  
Genau mein Klima.



# Impressive performance data ...



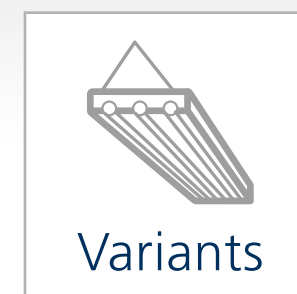
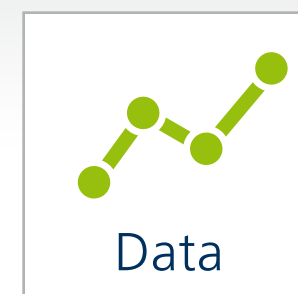
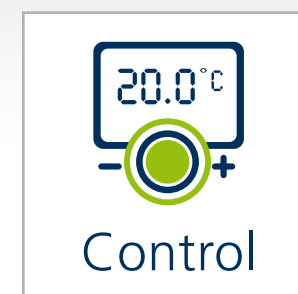
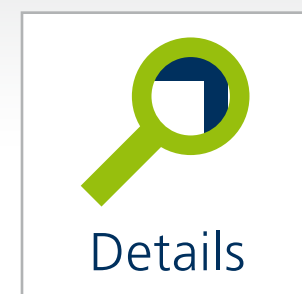
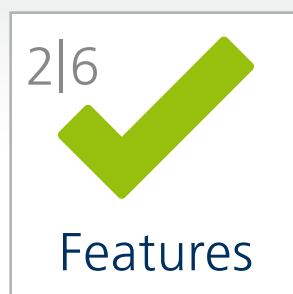
... And in nine panel widths. You want guarantees?  
All heat outputs were tested in accordance with  
DIN EN 14037 and Keymark-certified by  
DIN CERTCO. Invest in a multiple energy saver  
and in long-lasting quality with Galaxis.





# Draught-free heat

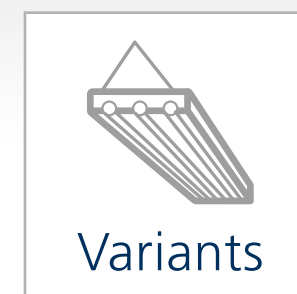
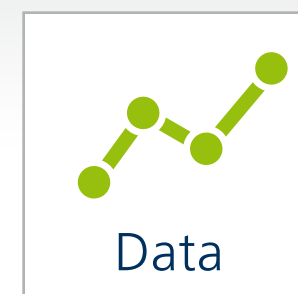
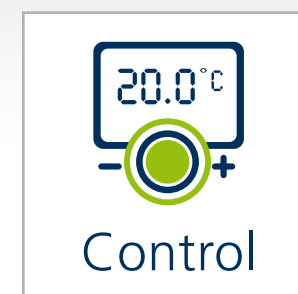
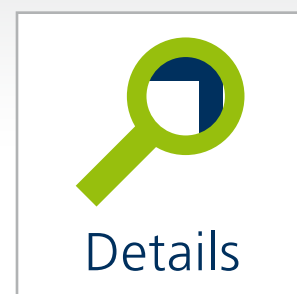
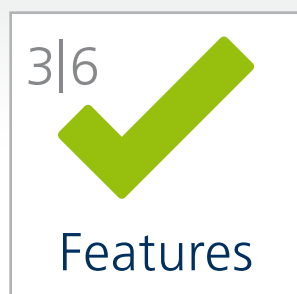
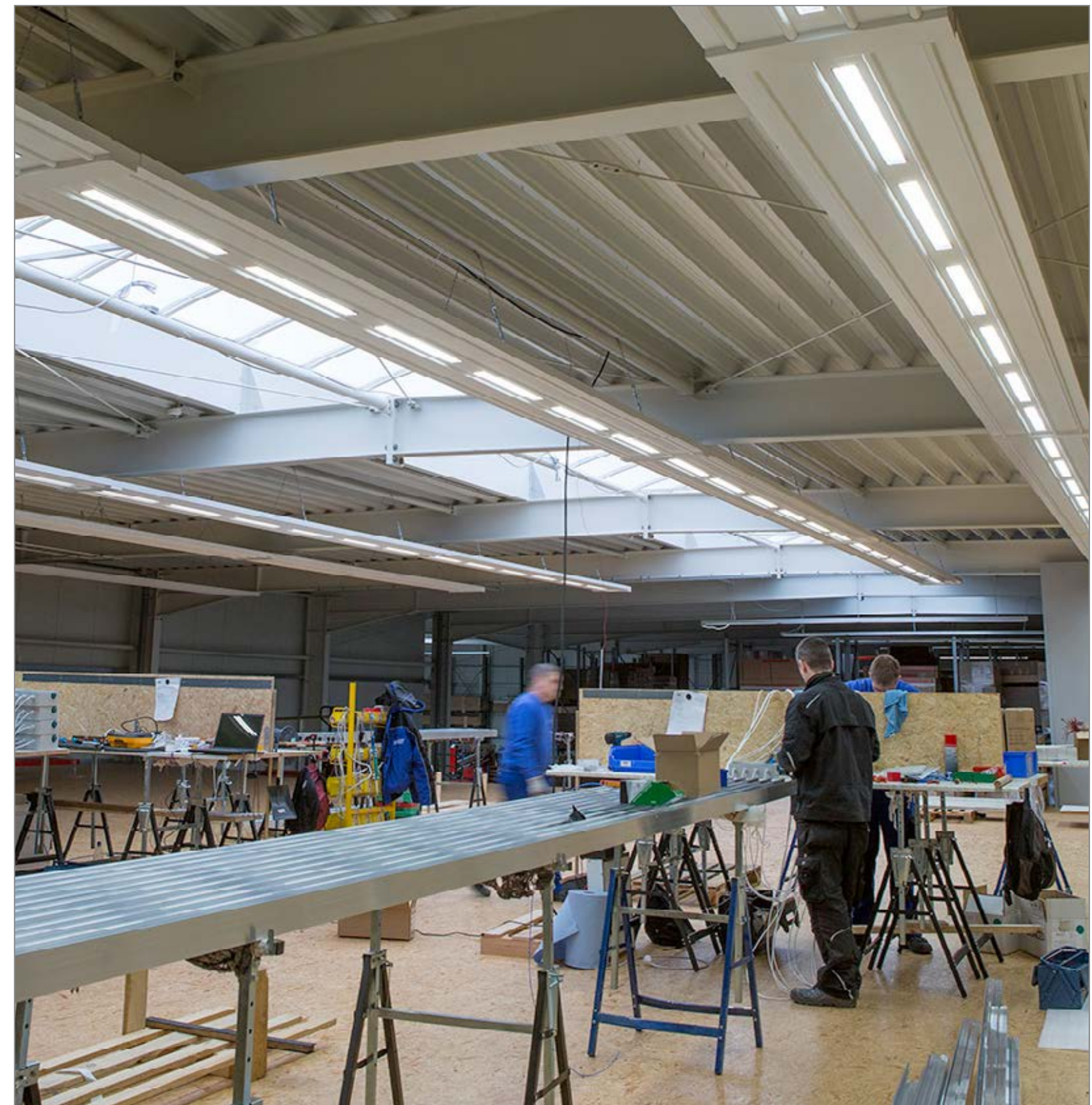
Galaxis provide pleasant heat. No draughts occur either as the units scarcely generate any air movement. Dust is never whipped up: perfect for the processing of sensitive materials!





# Tailored to individual needs

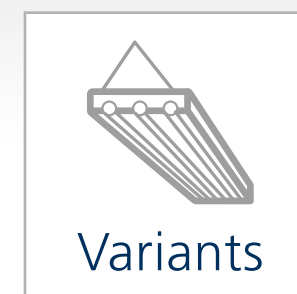
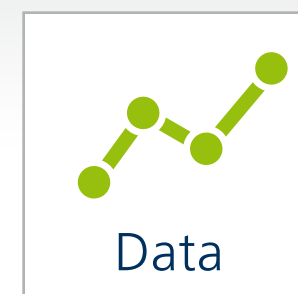
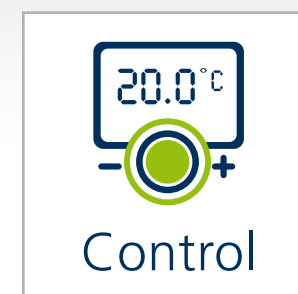
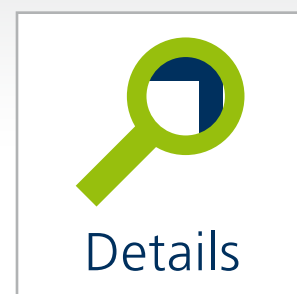
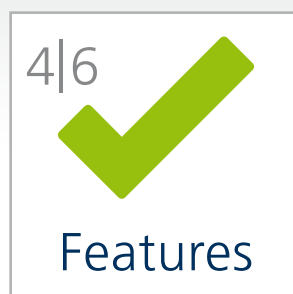
Galaxis take on any architectural challenge.  
However, if you wish to configure working areas,  
Galaxis are versatile until the end of the preliminary  
construction phase.





# Tailored support

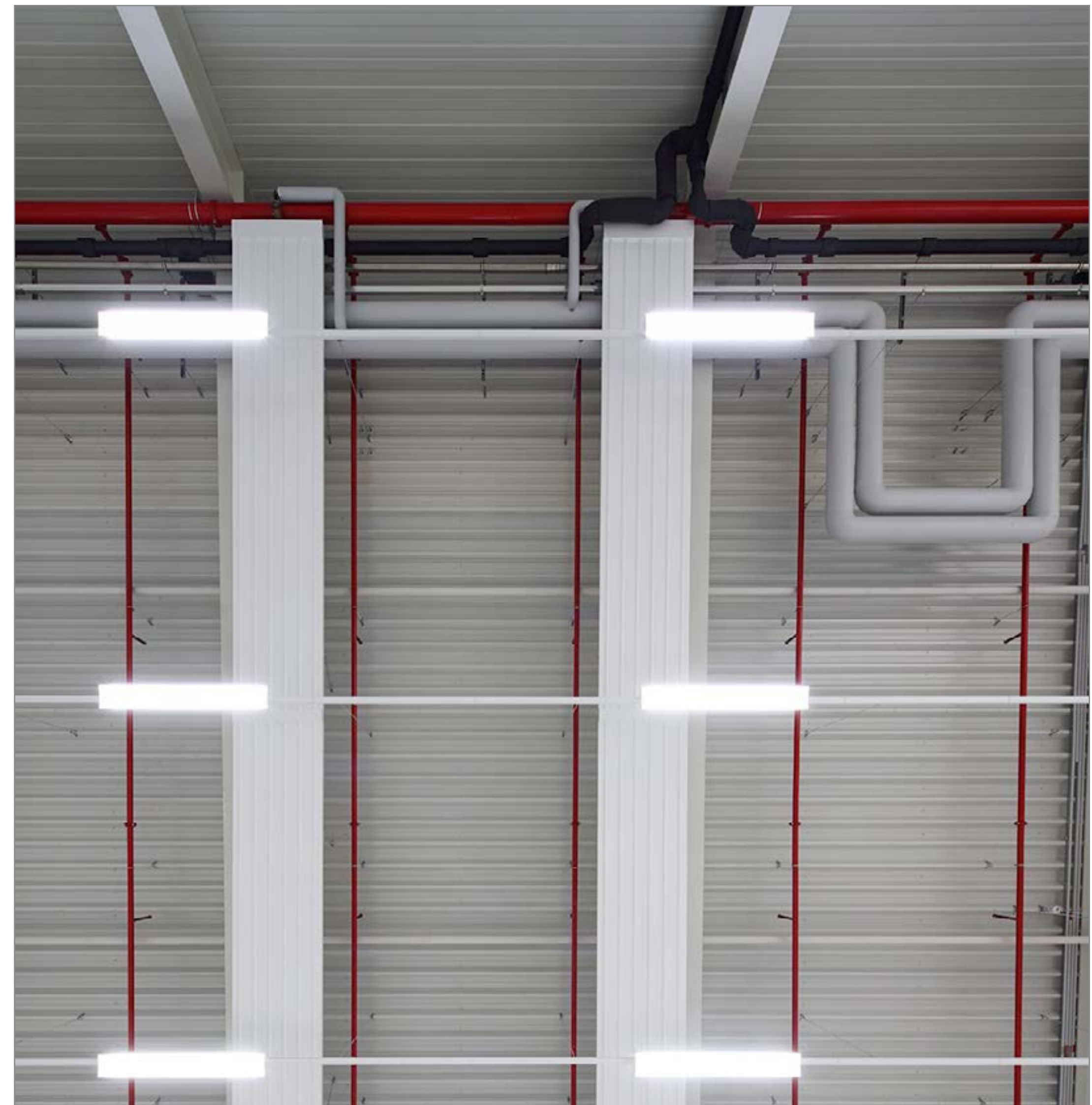
Project-specific plans and designs are our daily business. You will receive a customised quotation with a design and drawing. This will give you the necessary planning reliability.





# Easy installation

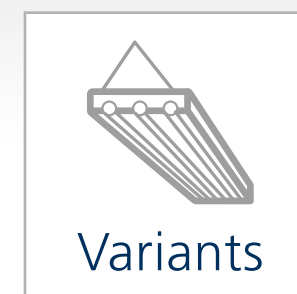
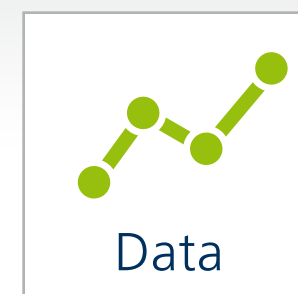
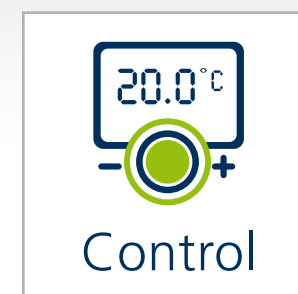
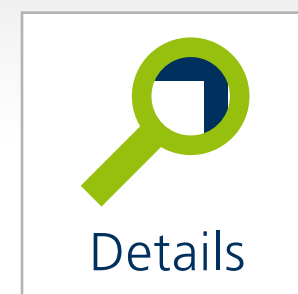
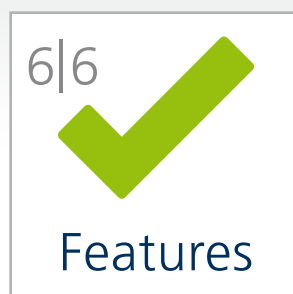
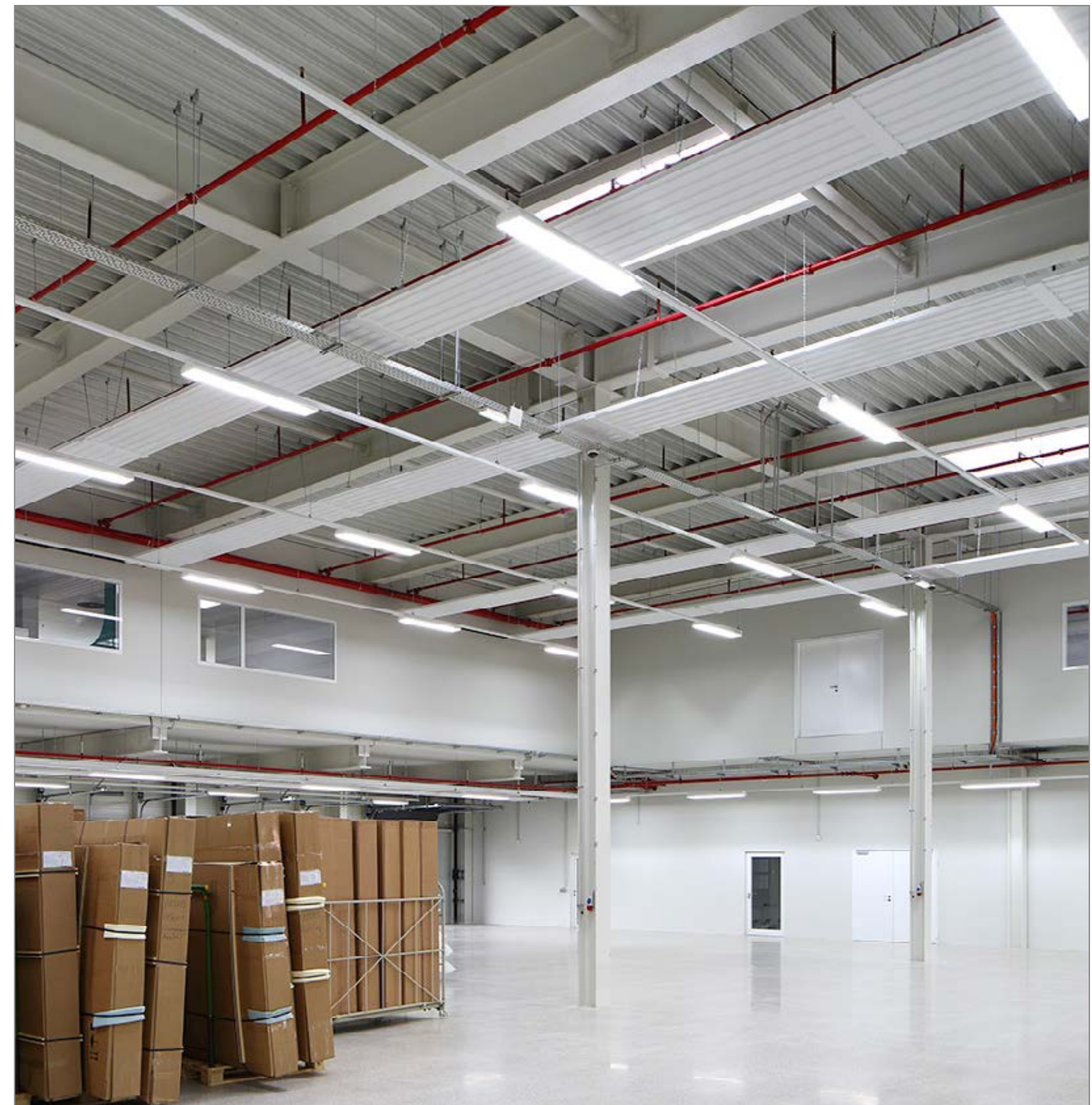
Galaxis can be installed easily, even in high-ceiling halls. This will save you valuable working time. We will organise the installation for you if you so wish. Once fitted, no maintenance is required.





# Perfect interplay

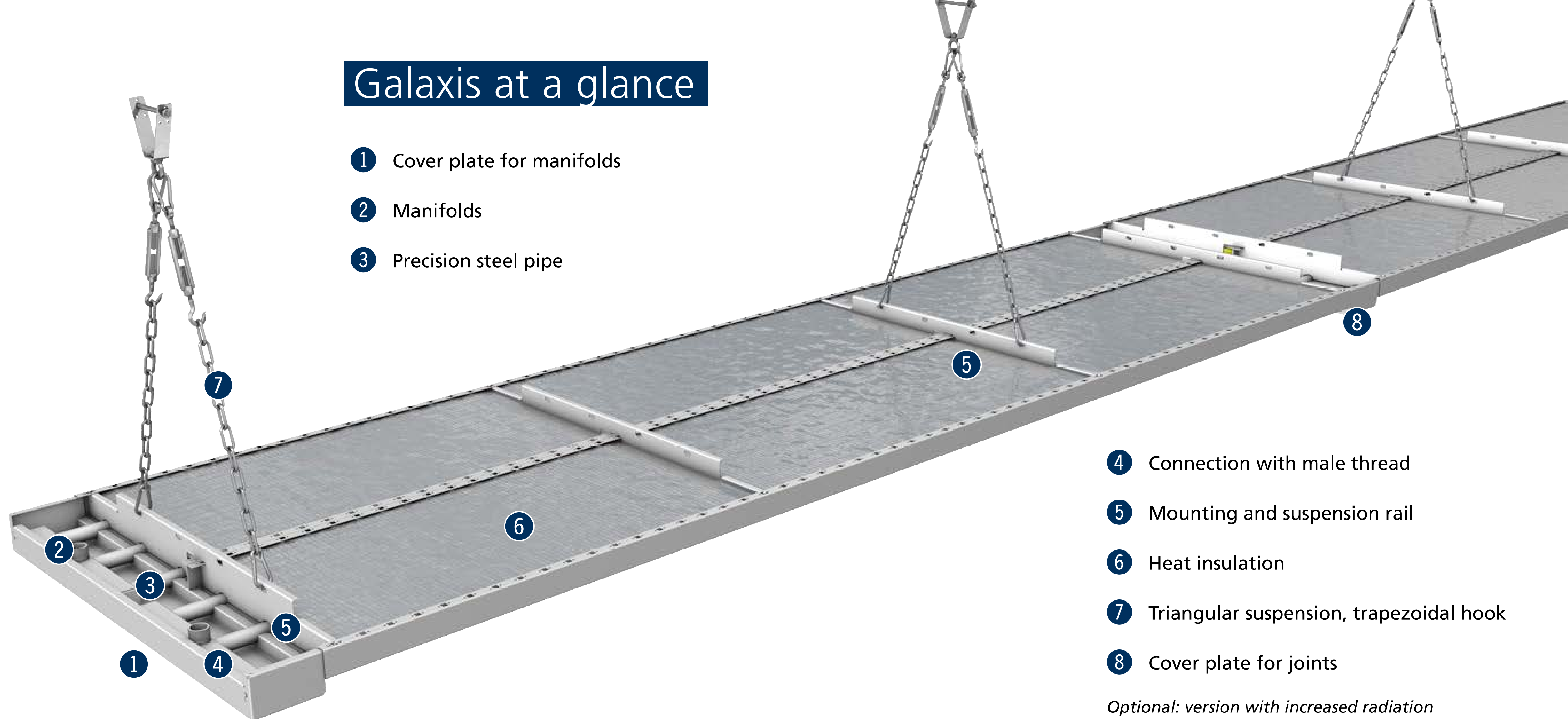
Your customers will enjoy the best feel-good climate with our system solutions and become successful energy savers. With concepts for the entire hall consisting of Galaxis, air curtains and unit heaters, even in compact ventilation units.





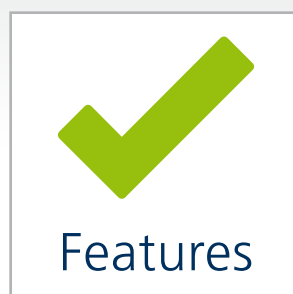
# Galaxis at a glance

- 1 Cover plate for manifolds
- 2 Manifolds
- 3 Precision steel pipe



- 4 Connection with male thread
- 5 Mounting and suspension rail
- 6 Heat insulation
- 7 Triangular suspension, trapezoidal hook
- 8 Cover plate for joints

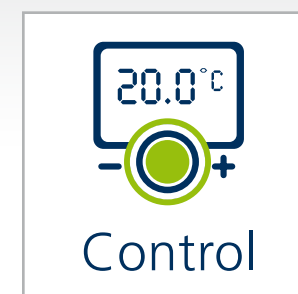
*Optional: version with increased radiation percentage of up to 84*



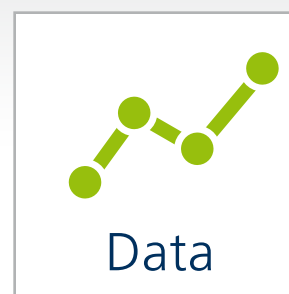
Features



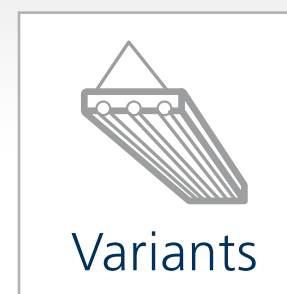
Details



Control

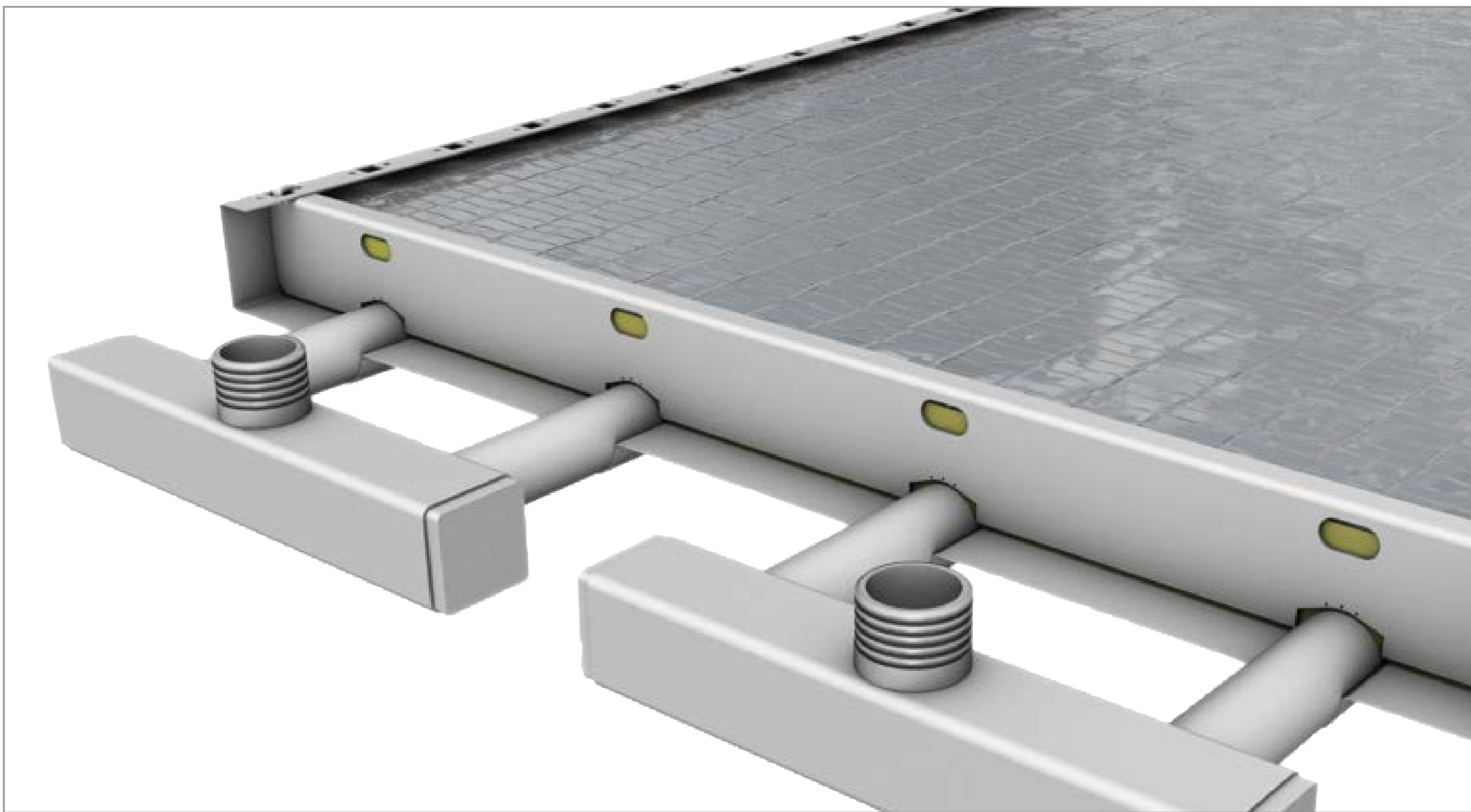


Data



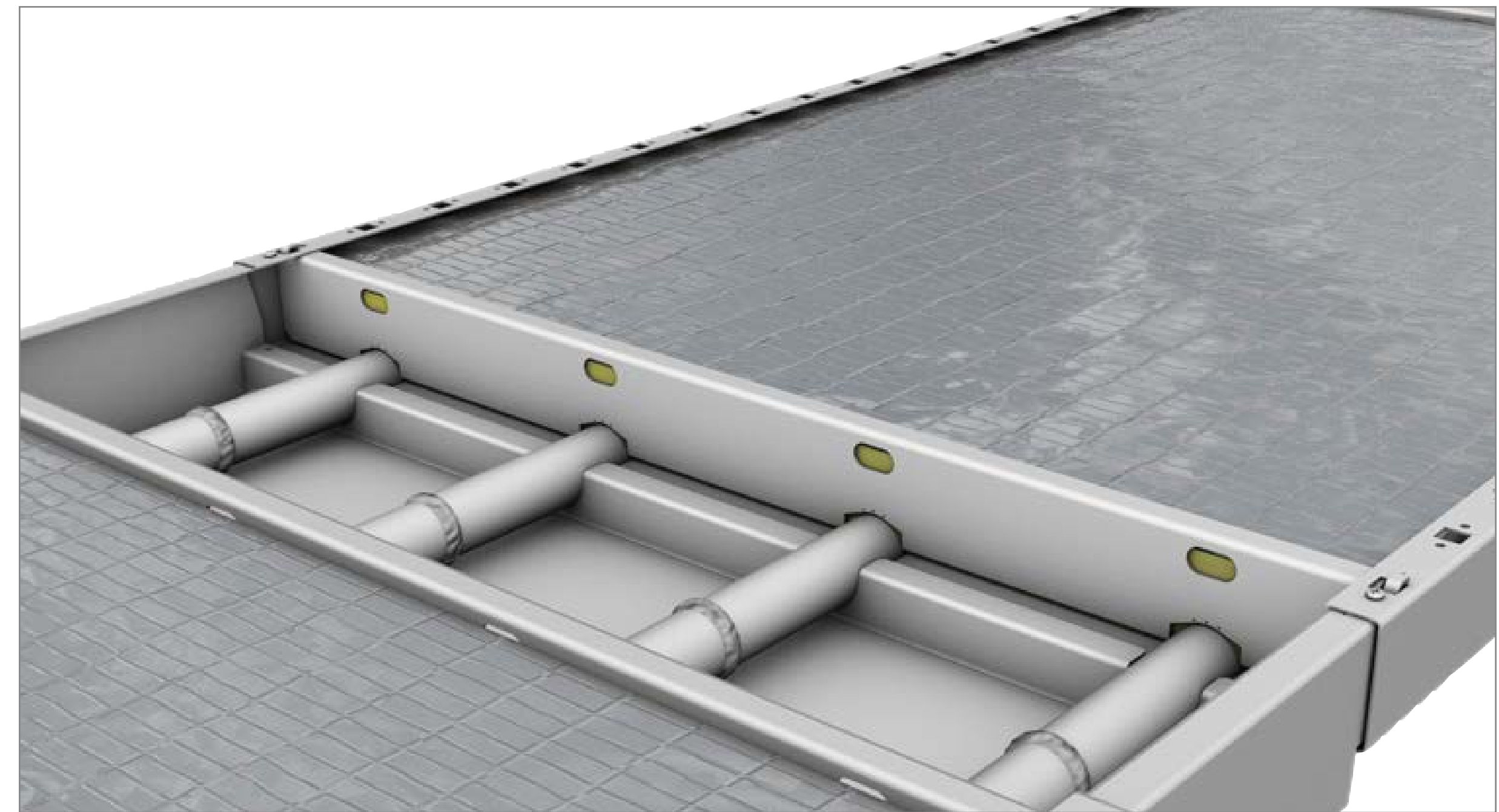
Variants





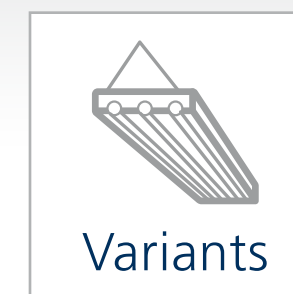
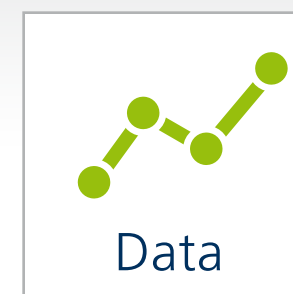
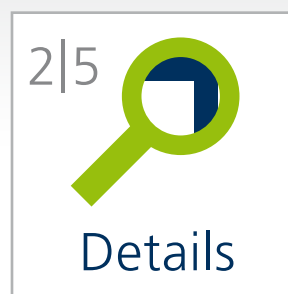
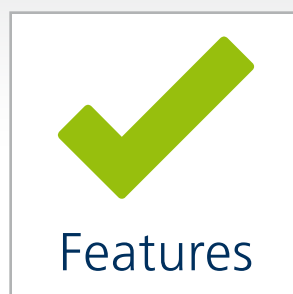
## Connection with male thread

- ▶ 1"/1 ¼"

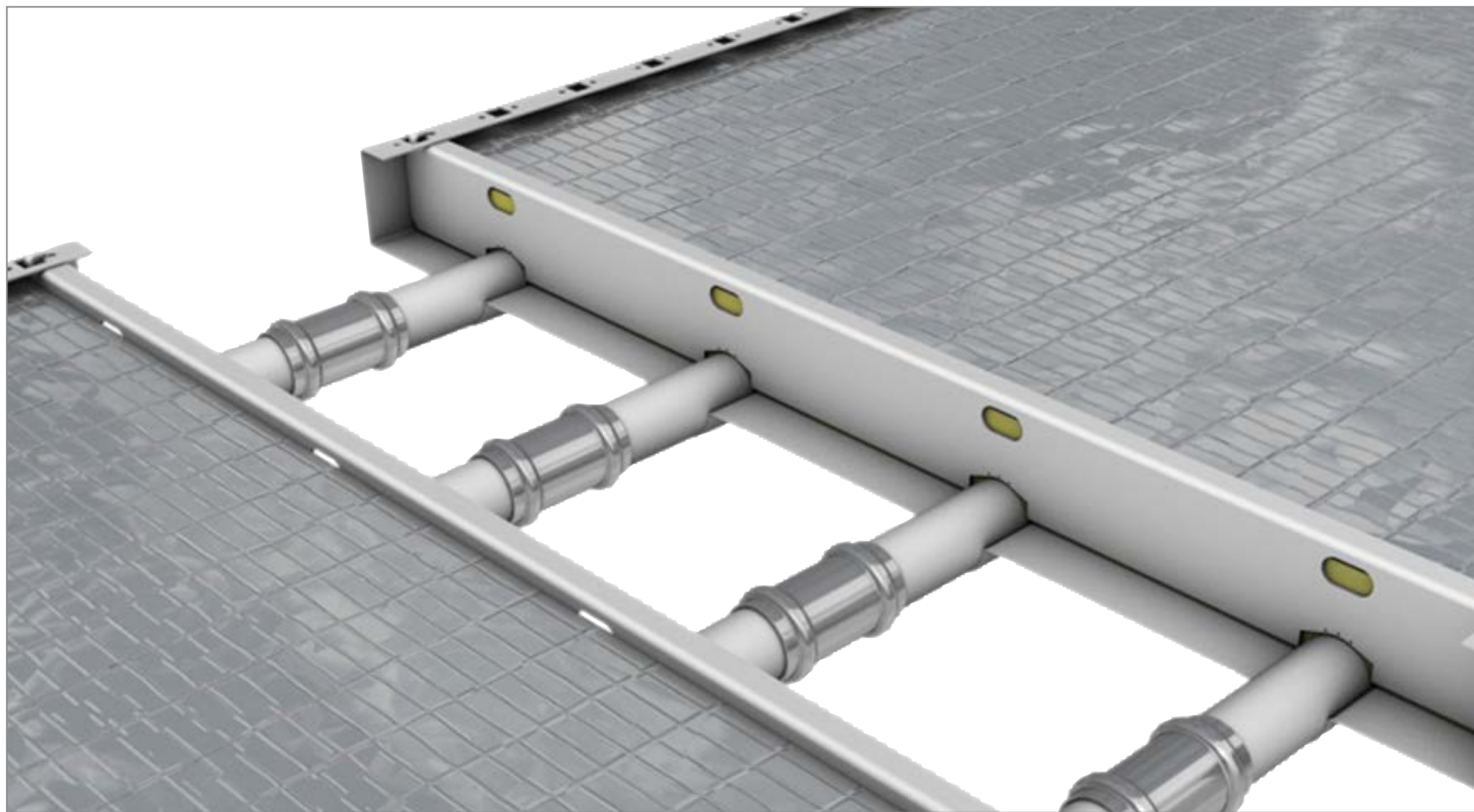


## Cover plate for joints

- ▶ To cover joints with an overlap to accommodate length differences
- ▶ Made of 1 mm thick sheet steel, powder coated, RAL 9016
- ▶ To be used for models with press-on sleeves and welding

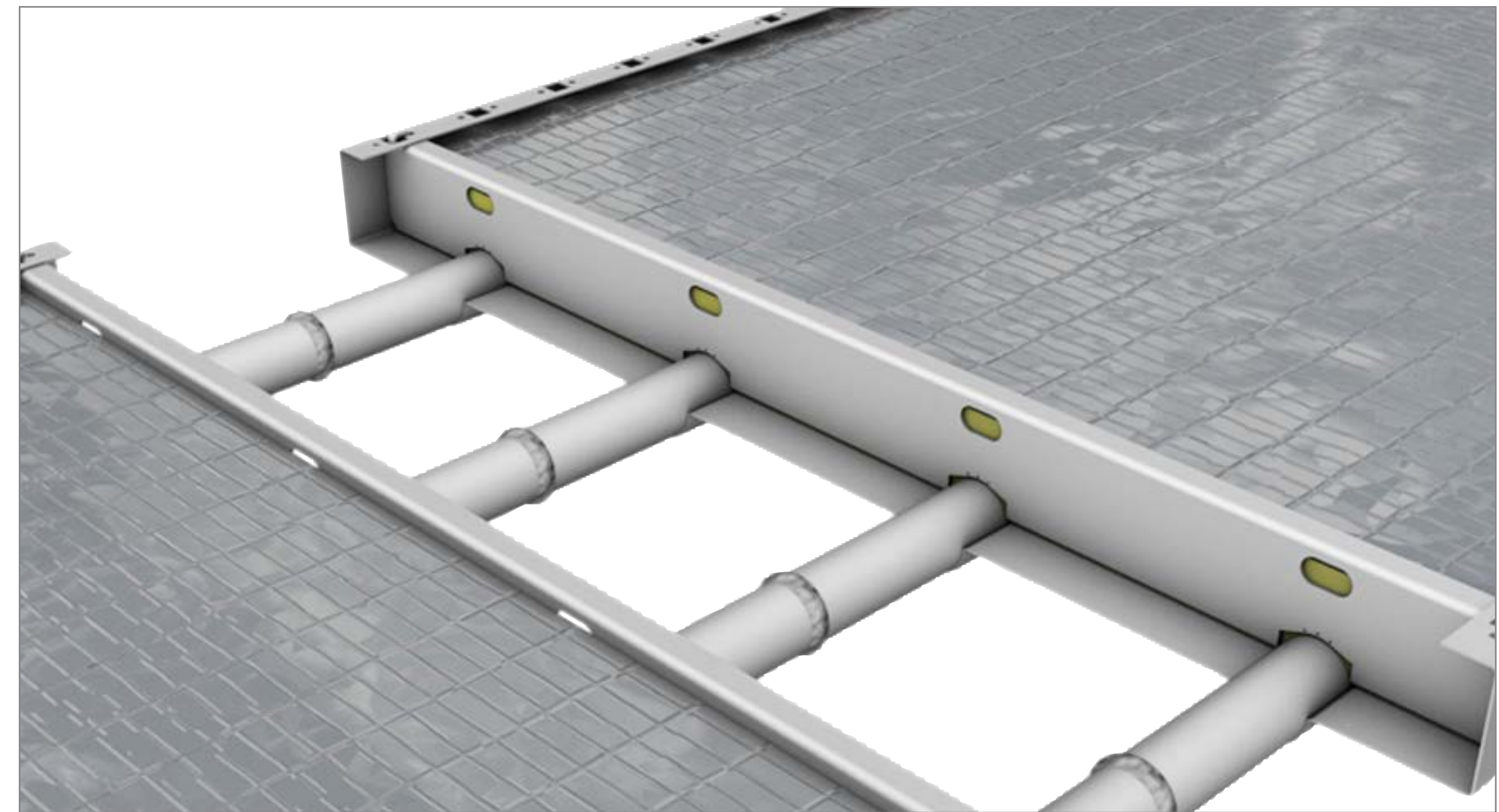






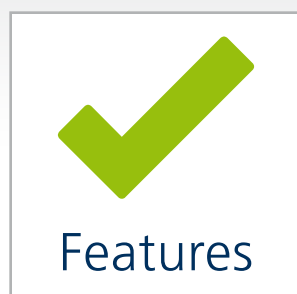
## Press fittings

- For panel pipe connections

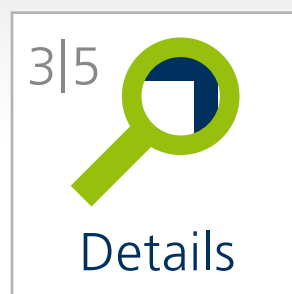


## Welding of steel pipes

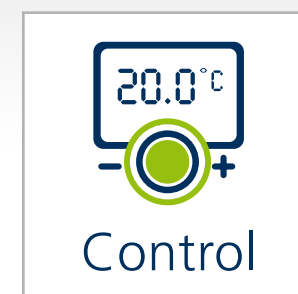
- A water-side connection can be established as an alternative to press fittings by means of welding provided by the customer



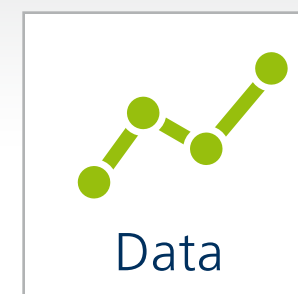
Features



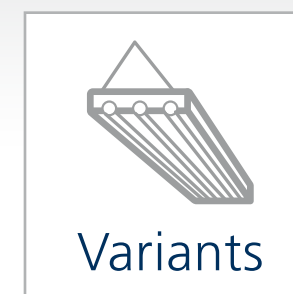
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Control

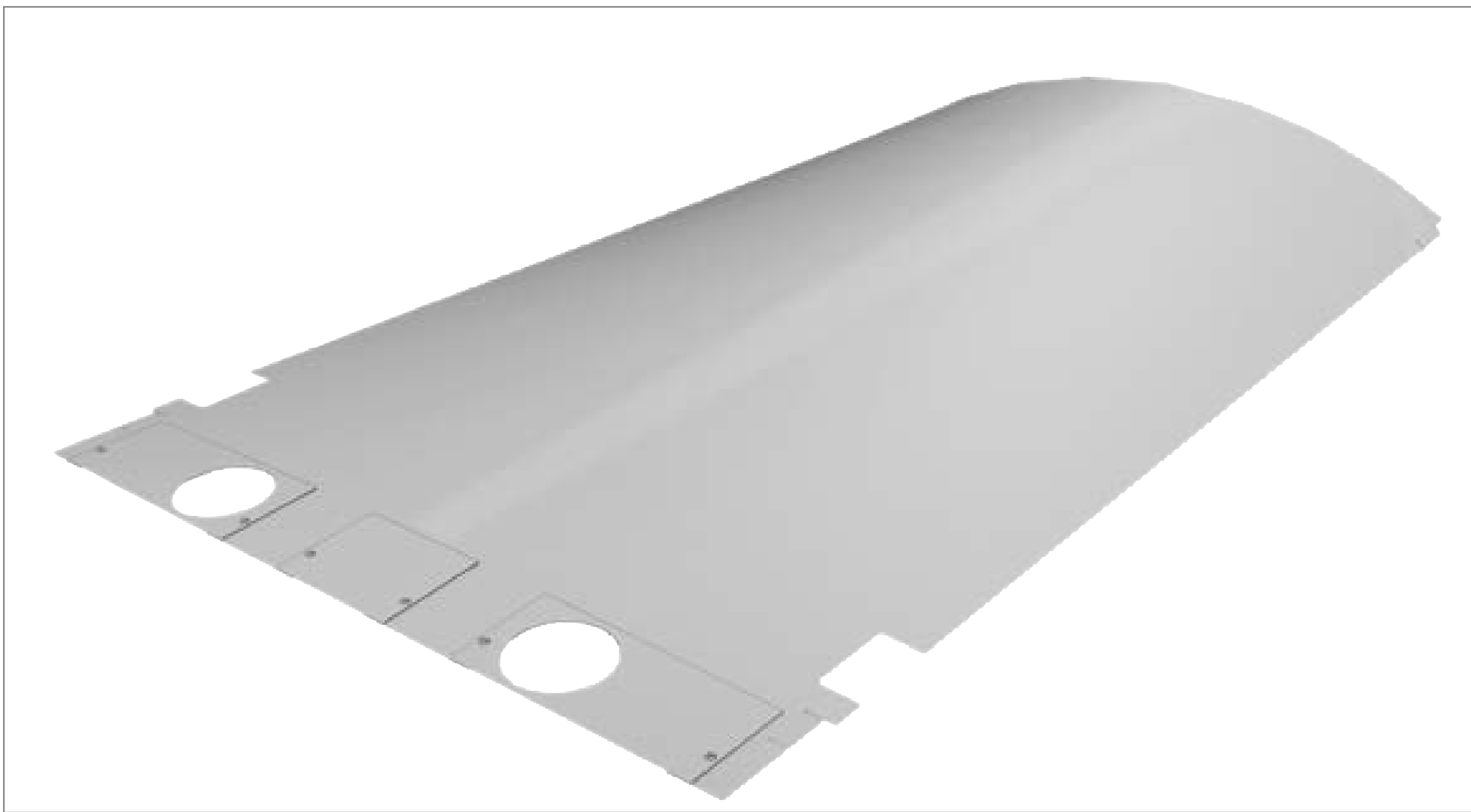


Data



Variants





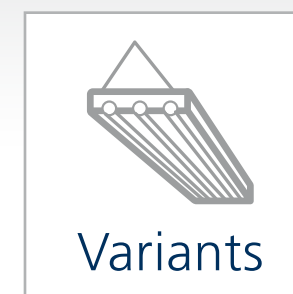
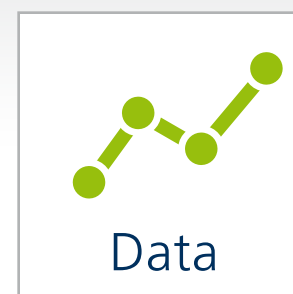
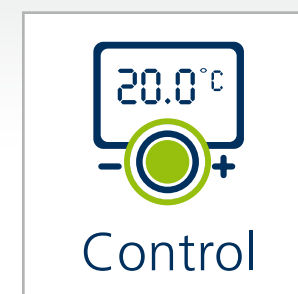
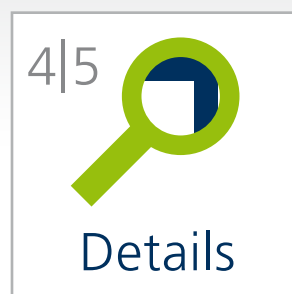
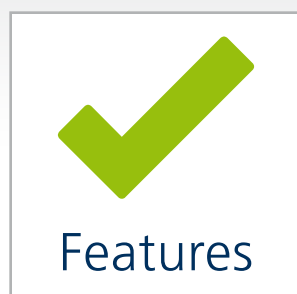
## Ball guard

- ▶ top panel cover with a gradient to prevent balls getting stuck (e.g. in sports halls)
- ▶ tested for ball impact safety in accordance with Investigation Report No. UB 2.1/13-567-1 and Investigation Report No. UB 2.1/13-567-2, MFPA Leipzig

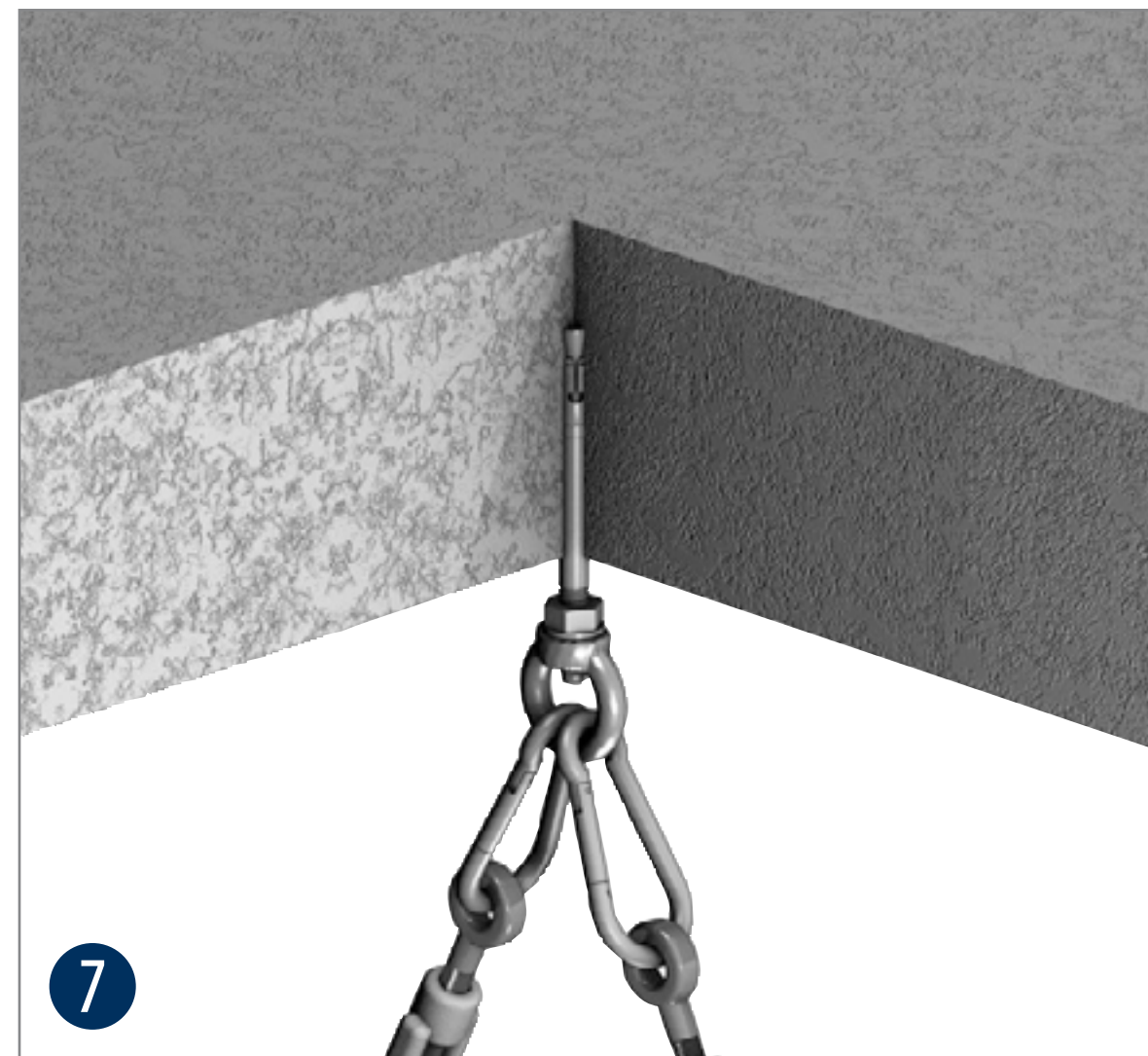
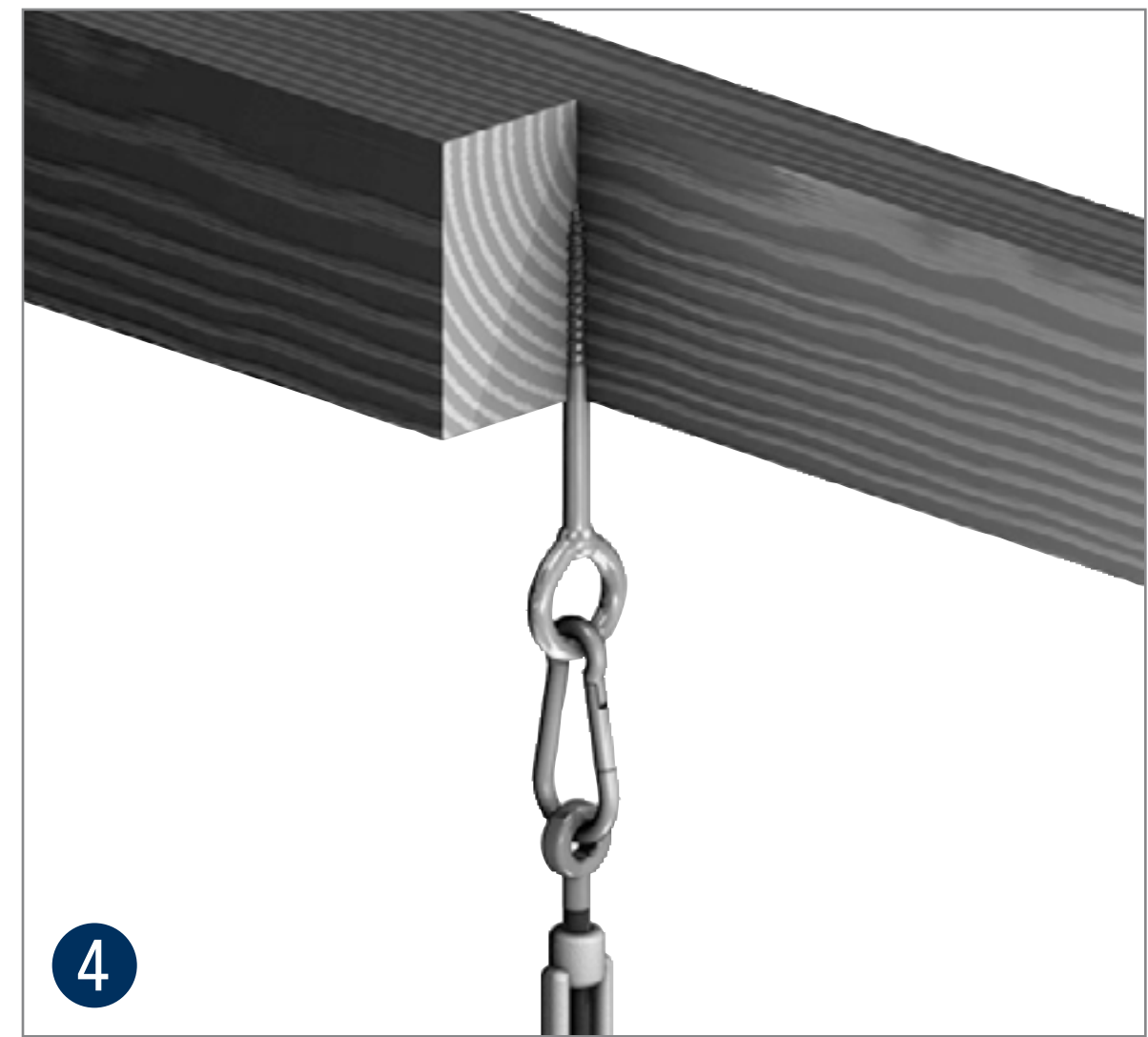
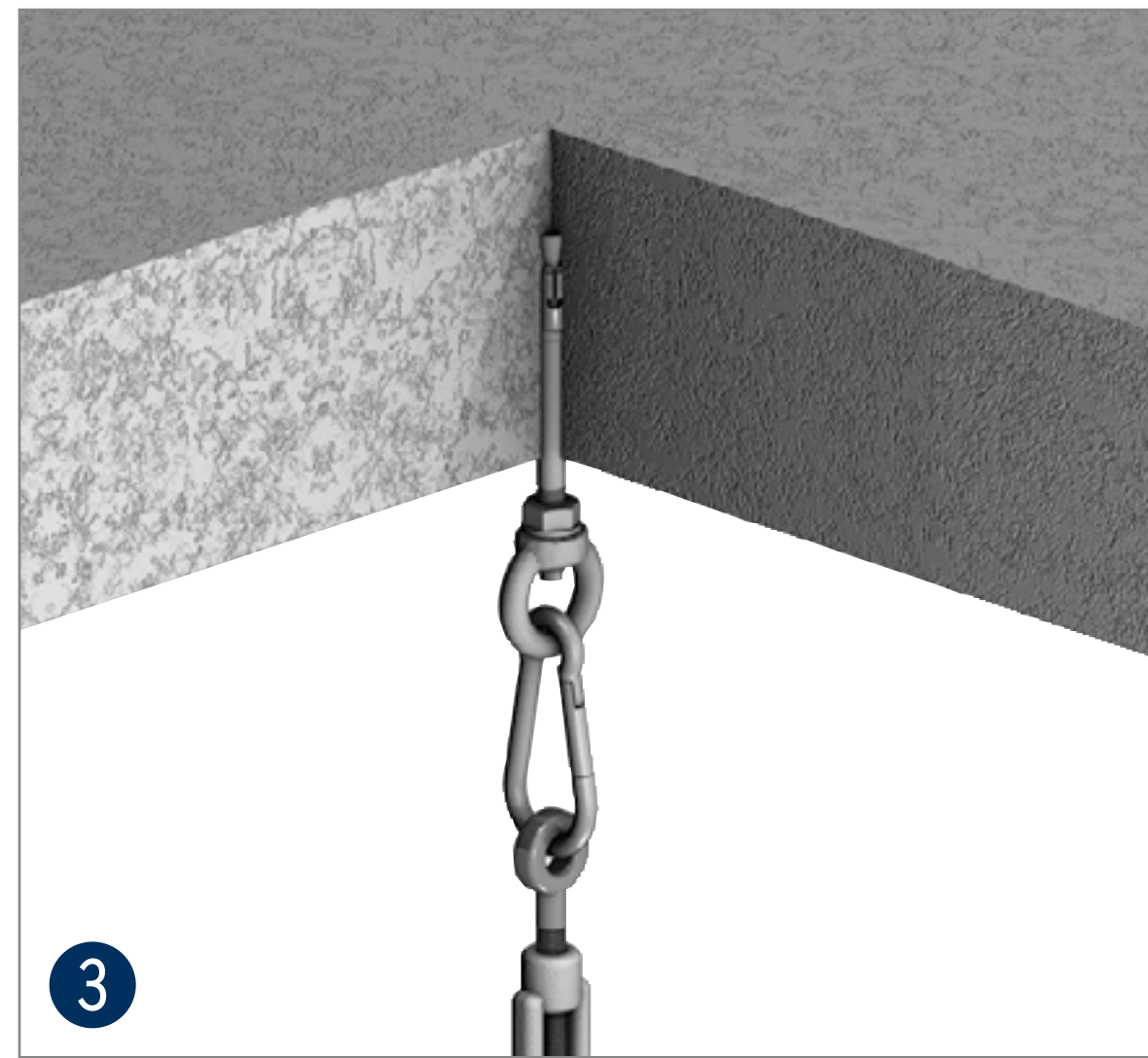


## Mounting bracket

- ▶ for a versatile installation lengthwise







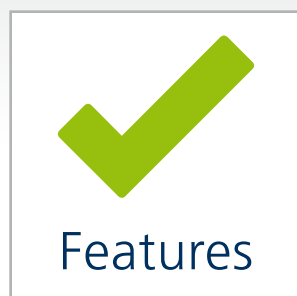
## Suspension elements

### Single-point suspension elements

- 1 Trapezoidal hook
- 2 Beam clamp
- 3 Ceiling bracket
- 4 Wooden eyebolt

### Triangular suspension elements

- 5 Trapezoidal hook
- 6 Beam clamp
- 7 Ceiling bracket



Features



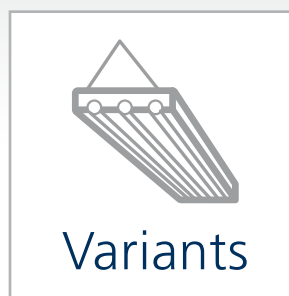
Details



Control



Data



Variants





# Control options

## System efficiency

### KaControl room automation

- ▶ KaControl electronics in an IP54 wall-mounted housing for a single temperature zone
- ▶ design room control unit with intuitive user navigation
- ▶ integrated timer program

### Three control strategies are available:

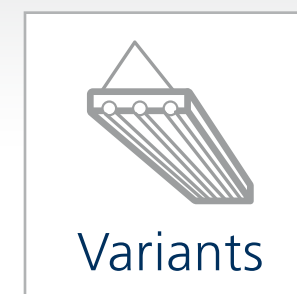
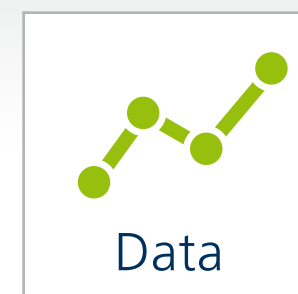
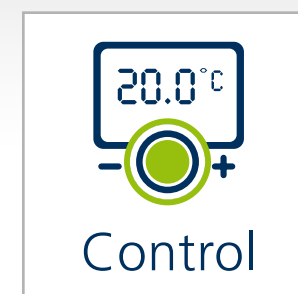
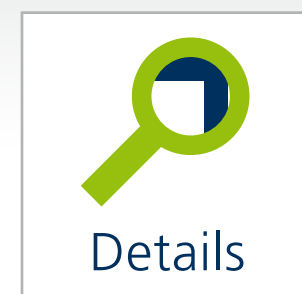
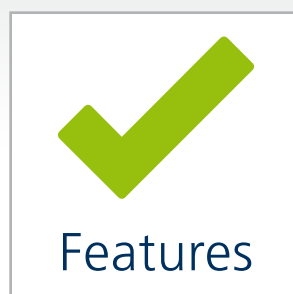
- ▶ P- or PI-controller with continuous control (0-10 V) of the balancing valves
- ▶ 2-point Open/Close control of the balancing valves

### Various optional BMS interfaces are available:

KNX/EIB

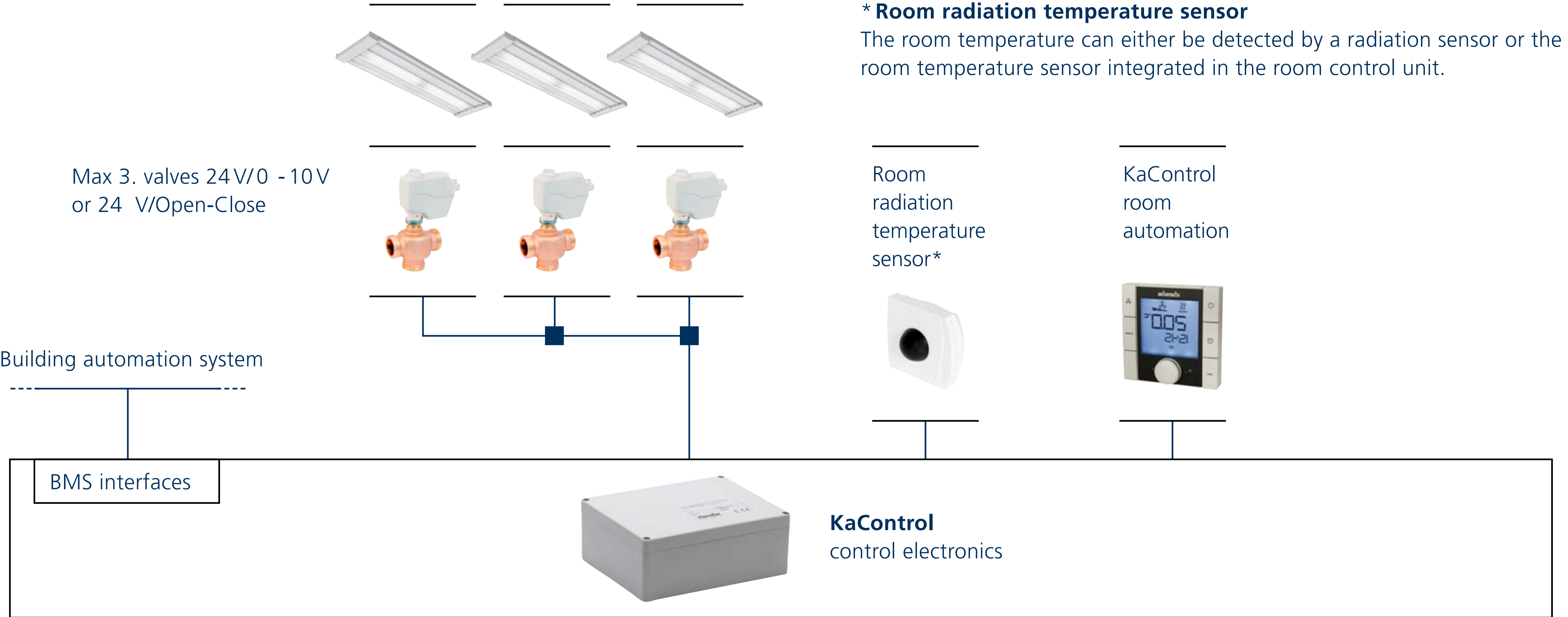
BACnet IP

Modbus RTU RS485

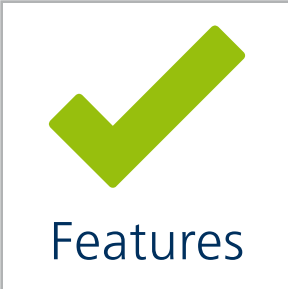




# KaControl schematic diagram

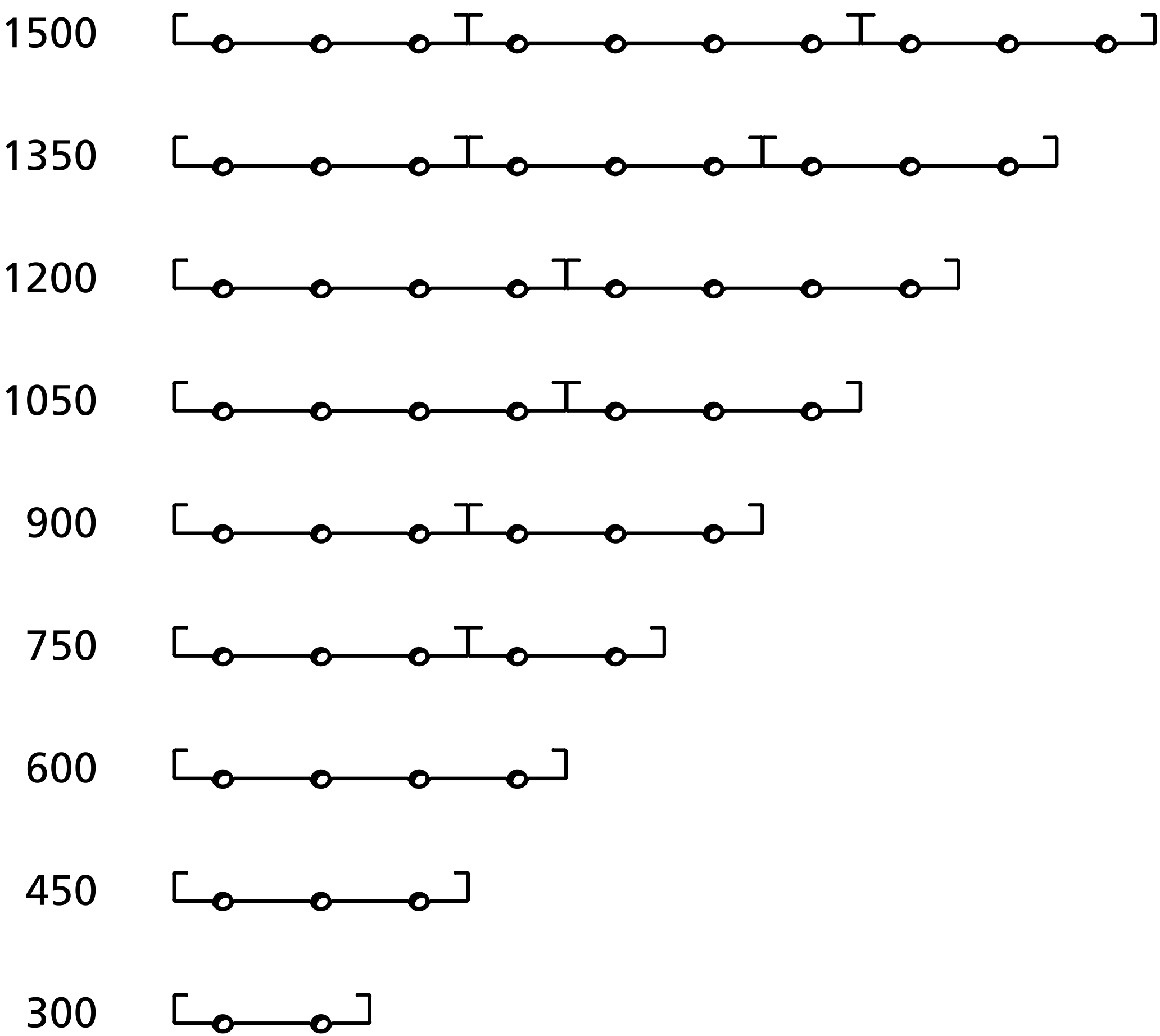


**\* Room radiation temperature sensor**  
The room temperature can either be detected by a radiation sensor or the room temperature sensor integrated in the room control unit.





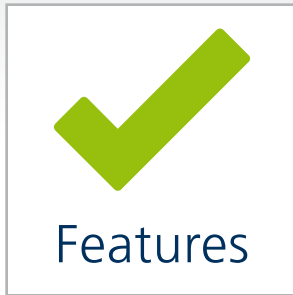
# Panel widths [mm]



# Performance data

Panel width	Design heat output*
[mm]	[W/m]
300	221
450	287
600	348
750	424
900	499
1050	575
1200	650
1350	725
1500	801

\* In accordance with DIN EN 14037, Part 3 with upper heat insulation at  $\Delta T = 55\text{ K}$

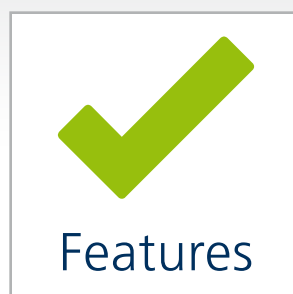




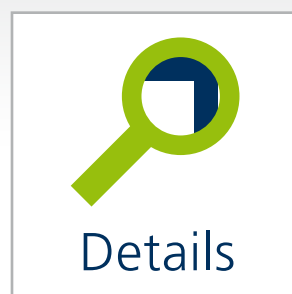
# Galaxis radiant ceiling panel models

## Galaxis LED

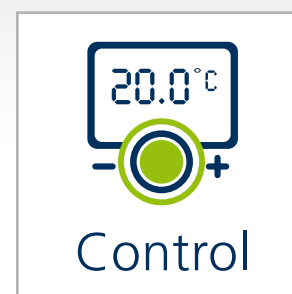
- ▶ with intelligent lighting control for 100% luminosity from the very first second
- ▶ light output of 154 lm/W
- ▶ up to 60 % lower energy consumption
- ▶ LED cover, clear
- ▶ dimmable LED, DALI
- ▶ BMS control
- ▶ long service life with a high number of switching cycles
- ▶ integration possible into the building's emergency lighting concept
- ▶ ideal for sports and production halls
- ▶ tested for ball impact safety in accordance with Investigation Report No. UB 2.1/15-141-1 and Investigation Report No. UB 2.1/15-141-2, MFPA Leipzig



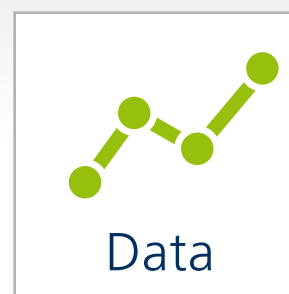
Features



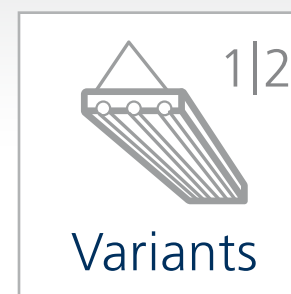
Details



Control



Data



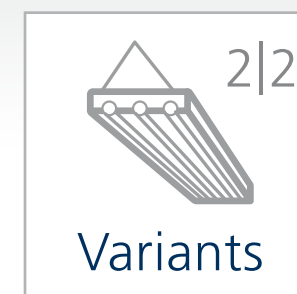
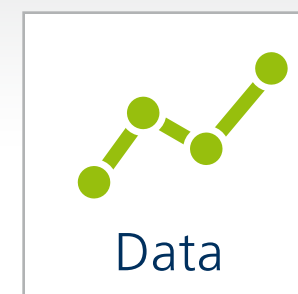
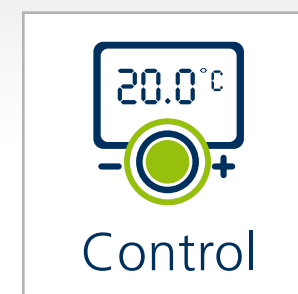
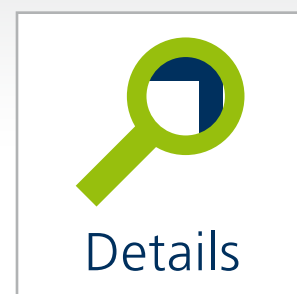
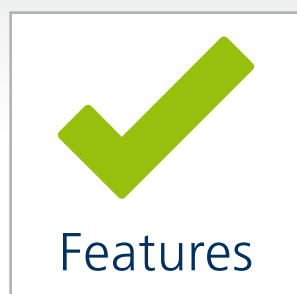
Variants



# Galaxis radiant ceiling panel models

## perforated model

- ▶ for a reduced sound level and curtailed reverberation period
- ▶ including trickle protection
- ▶ available in all panel widths
- ▶ ideal for noise-sensitive exhibition spaces





# Benefits for you!

Kampmann offers you the following service benefits:

- ▶ on-site consultation
- ▶ diverse sampling
- ▶ design support
- ▶ system solutions
- ▶ detailed discussions
- ▶ site-surveys
- ▶ individual training
- ▶ After Sales Service

Find your contact person here:

**[Kampmann.eu/contact](https://kampmann.eu/contact)**



Features



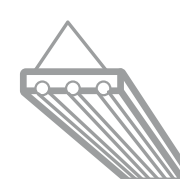
Details



Control



Data



Variants



Best solutions. Best support.

Kampmann.eu



## Kampmann GmbH

Friedrich-Ebert-Str. 128 – 130

49811 Lingen (Ems)

Germany

**T** +49 591 7108-660

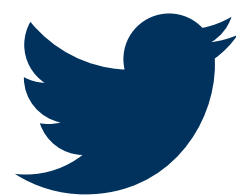
**T** +49 591 7108-173

**E** export@kampmann.de

**W** Kampmann.eu

You  
Tube

in



f



Features



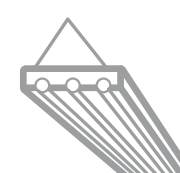
Details



Control



Data



Variants

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Genau mein Klima.