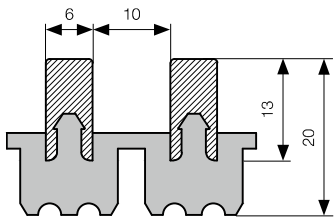


KORAFLEX grilles and frames

ALUMINIUM ELOX

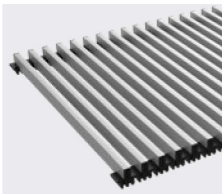
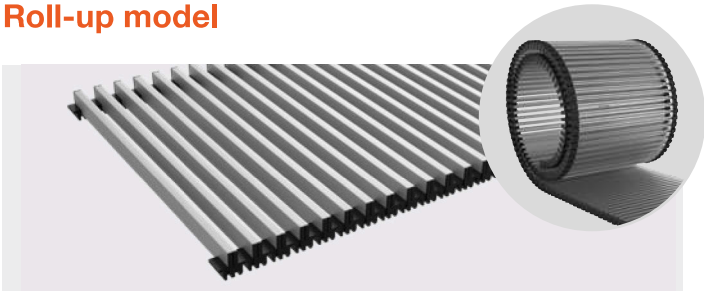


Aluminium elox grilles are suitable for dry and humid environments (where installed in humid environments, grilles must be cleaned regularly with clean water and thoroughly dried). They are available in roll-up and linear models. The standard finish for aluminium grilles is silver elox. Other models are available in dark and light bronze elox. Other RAL colour chart colours are available as powder coating. Both roll-up and linear grilles are supplied as a whole. Decorative frame covers may be chosen using the same colour scheme as grilles, and are supplied as a component of trench heaters.



Measurements shown in mm.

Roll-up model



alu/silver



alu/dark bronze

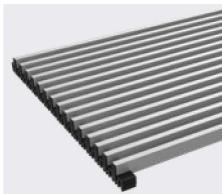
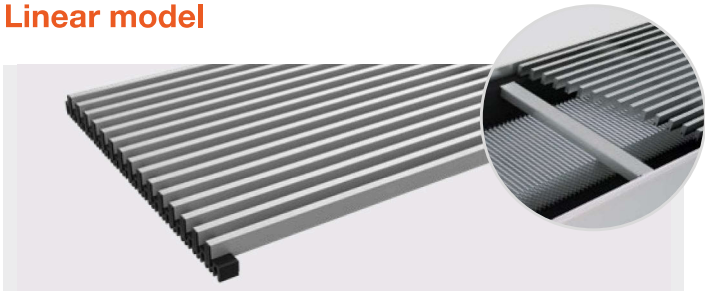


alu/light bronze



The grille can be rolled up for easier handling.

Linear model



alu/silver



alu/dark bronze



alu/light bronze



Linear grilles are supplied with supports as standard.

ORDER CODE



Where a linear grille is required, technical consultation is necessary, as the casing may need to undergo alteration. Note, please, that the linear grilles must be ordered together with trench heaters. For more info, see p. 126.

Floor	Grille	Length (cm)	Width (cm)	Grille material	Grille colour	Grille type	Grille ending type
P	M	-	...	/	...	-	A aluminium Y alu T-profile solely for curved models and series with curve. See p. 133
					1 silver elox 2 dark bronze elox 3 light bronze elox 9 other RAL colour	R roll-up L linear	0 grille for single trench heater 1 for multiple installations, grille ending type is equivalent to trench heaters on p. 49 or p. 101 2 3

Example order code: PM-100/26-A1R0

Floor grille, length 100 cm, width 26 cm, aluminium, silver elox, roll-up, for single trench heater without alteration. Grille measurement, given in the grille order code of the, corresponds with the measurement of the respective trench heater. Nett dimension of the grille is available upon request.

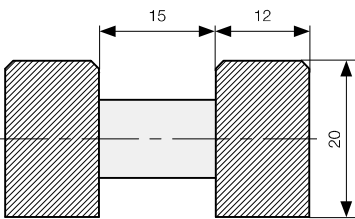


Grille with F-frame, aluminium, silver elox

WOOD



Wooden grilles are manufactured using natural wood – beech, oak and mahogany. For wooden roll-up models, each slat is connected by springs and spacers. Wooden grilles are suitable for rooms with laminate or solid wood flooring. Roll-up wooden grilles are supplied without surface treatment. Where lacquered wooden grilles are required, each slat is impregnated with semi-glass colourless alkyd urethane varnish, designed to give a durable gloss coating of wood and exterior wooden fittings.



Measurements shown in mm.

Roll-up model



Grilles are manufactured from natural materials and as such minor variations in colour are inevitable.



The grille can be rolled up for easier handling.

Mahogany grilles are available on special request.
Prices and delivery times specified on request.



beech



oak



mahogany

ORDER CODE

Floor	Grille	Length (cm)	Width (cm)	Grille material	Grille colour	Spacer type	Grille ending type
P	M	-	...	/	...	-	B beech D oak M mahogany (dark spacers only)
					0 natural 1 lacquered	4 light 2 dark (only mahogany)	0 grille for single trench heater 1 for multiple installations, 2 grille ending type is equivalent 3 to trench heater on p. 49 or p. 101

Example order code: PM-100/26-B040

Floor grille, length 100 cm, width 26 cm, natural beech with light spacers, for single trench heater without alteration. Grille measurement, given in the grille order code of the, corresponds with the measurement of the respective trench heater. Nett dimension of the grille is available upon request.



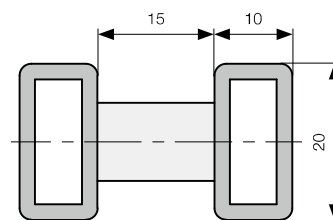
U-frame cover,
silver elox

NEW

STEEL

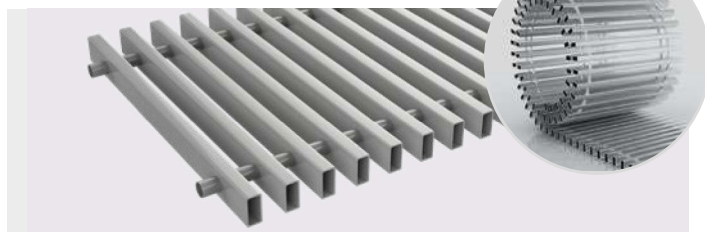


Steel profile grilles are available in roll-up and linear models, and feature high load bearing capacity. They are particularly suitable for public buildings, halls, car showrooms, corridors, etc. Each slat is separated by steel spacers and the entire product is lacquered in the same colour, as standard RAL 9006 (grey) powder coating. Other RAL colour chart colours are, however, available on request.



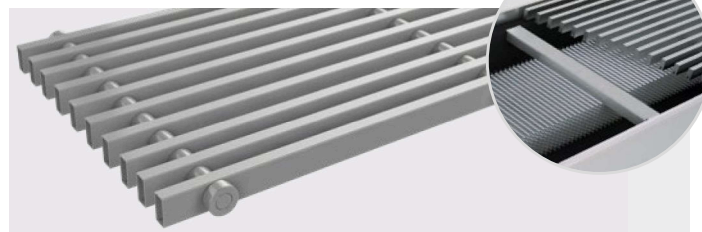
Measurements shown in mm.

Roll-up model



For steel **roll-up** grilles, each slat is connected by springs and spacers in the same colour as the grille.

Linear model



For **linear** grilles, each slat is connected by bolts and spacers in the same colour as the grille.



The grille can be rolled up for easier handling.



Linear steel grilles 400mm in width are supplied with supports as standard. Other widths are self-supporting.

ORDER CODE

Floor	Grille	Length (cm)	Width (cm)	Grille material	Grille colour	Grille type	Grille ending type
P	M	- ... /	.. -	S steel	6 RAL 9006 9 other RAL colour	R roll-up L linear	0 grille for single trench heater 1 for multiple installations, 2 grille ending type is equivalent 3 to trench heaters on p. 49 or p. 101

Example order code: PM-100/26-S6R0

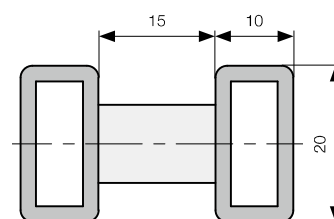
Floor grille length 100 cm, width 26 cm, steel model, RAL 9006 colour (grey) lacquered, roll-up, for single trench heater without alteration. Grille measurement, given in the grille order code of the, corresponds with the measurement of the respective trench heater. Nett dimension of the grille is available upon request.



Stainless steel roll-up grille,
silver elox F-frame

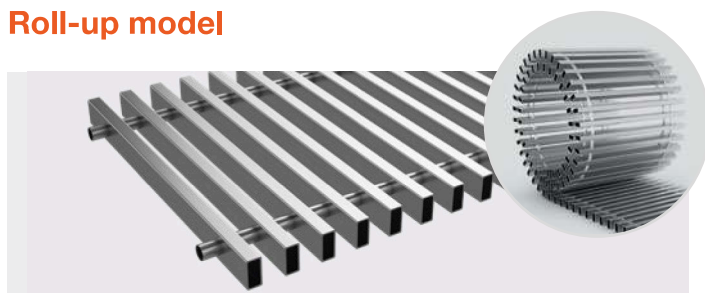
STAINLESS STEEL

Stainless steel floor grilles are manufactured from brushed AISI 304 stainless steel. Each slat is separated by brushed stainless steel spacers. Stainless steel grilles feature high load bearing capacity. They are particularly suited to luxury interiors, public buildings, art galleries, car showrooms, etc. Stainless steel grilles may only be used in dry environments, and are available in roll-up and linear models.



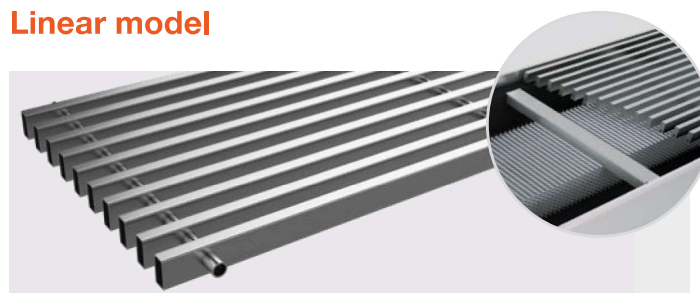
Measurements shown in mm.

Roll-up model



For stainless steel **roll-up** models, each slat is connected by stainless steel springs and spacers.

Linear model



For **linear** models, each slat is connected by bolts and stainless steel spacers.



The grille can be rolled up for easier handling.



Linear steel grilles 400mm in width are supplied with supports as standard. Other widths are self-supporting.

ORDER CODE

Floor	Grille	Length (cm)	Width (cm)	Grille material	Grille colour	Grille type	Grille ending type
P	M	-	...	/	..	-	R stainless steel
							O non-lacquered, brushed
							R roll-up
							L linear
							0 grille for single trench heater
							1 for multiple installations,
							2 grille ending type is equivalent
							3 to trench heater on p. 49 or p. 101

Example order code: **PM-100/26-R0R0**

Floor grille length 100 cm, width 26 cm, AISI 304 stainless steel, non-lacquered, brushed, roll-up, for single trench heater without alteration. Grille measurement, given in the grille order code of the, corresponds with the measurement of the respective trench heater. Nett dimension of the grille is available upon request.



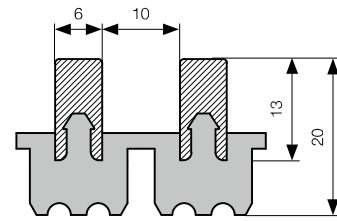
Linear RAL 9006 steel grille,
RAL 9006 lacquered U-frame

NEW

THIN



Thin grilles are manufactured from eloxed aluminium and are designed solely for Thin trench heaters. They are only available as a roll-up model. The standard finish for aluminium grilles is silver elox; in addition, dark and light bronze elox are available. Other RAL colour chart colours are available as powder coating. Decorative Thin frame covers may be chosen using the same colour scheme as grilles, and are supplied as a component of trench heaters. Due to space limitations, F-frames are not available for Thin grilles.



Measurements shown in mm.

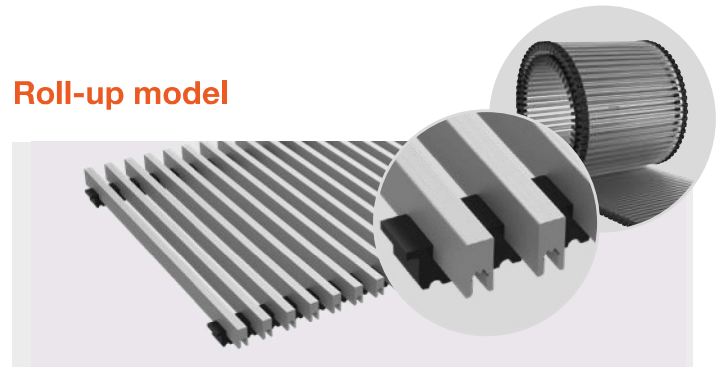
Roll-up model



alu/silver

alu/dark bronze

alu/light bronze



The grille can be rolled for easier handling.



F-frame can never be fitted with Thin grilles.

ORDER CODE

Floor	Grille	Length (cm)	Width (cm)	Grille material	Grille colour	Grille type	Grille ending type
P	M	-	...	/	..	-	T aluminium Thin
					1 silver elox 2 dark bronze elox 3 light bronze elox 9 other RAL colour	R roll-up	0 grille for single trench heater 1 for multiple installations, 2 grille ending type is equivalent 3 to trench heater on p. 49 or p. 101

Example order code: PM-100/26-T1R0

Floor grille length 100 cm, width 26 cm, aluminium Thin model, silver elox, roll-up, for single trench heater without alterations. Grille measurement, given in the grille order code of the, corresponds with the measurement of the respective trench heater. Nett dimension of the grille is available upon request.

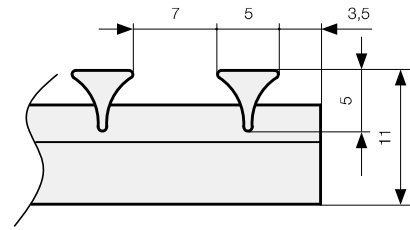


Thin light bronze grille,
Thin frame cover

CROSS

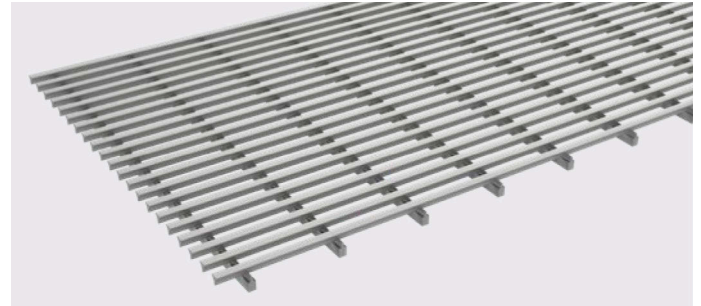


Cross grilles are manufactured from steel and are designed solely for dry environments. Due to their inherent strength and pencil profile design, they are suitable for trench heaters installed in restaurants, bars, lobbies and similar spaces, where a higher level of safety is required. Cross grilles are as standard lacquered with RAL 9006 (grey) powder coating; other RAL colour chart colours are available. **Cross grilles are rigid and supplied built-in to the trench heater. Due to their precise fit, Cross grilles must be ordered together with trench heaters.** Trench heaters casing must be adapted to fit the Cross grille and are finished with Cross frames (see picture on p. 127). Cross grilles are suitable for design solutions and cannot be combined with U, F or Thin frames.



Measurements shown in mm.

Linear model



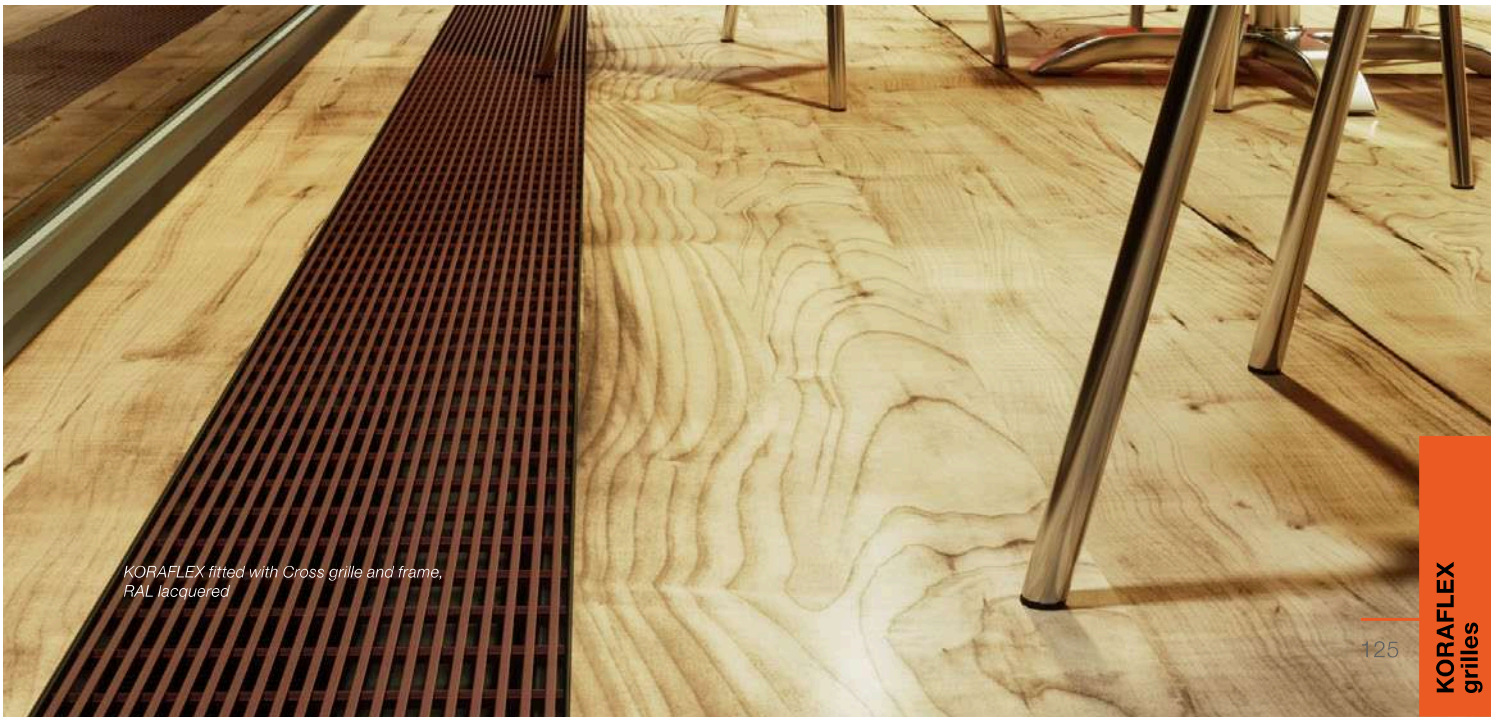
Cross grilles are ordered custom-made.
Prices and delivery times specified on request.

ORDER CODE

Floor	Grille	Length (cm)	Width (cm)	Grille material	Grille colour	Grille type	Grille ending type
P	M	-	...	/	..	-	C Cross
					6 RAL 9006 9 other RAL colour	L linear	0 grille for single trench heater 1 for multiple installations, 2 grille ending type is equivalent 3 to trench heaters on p. 49 or p. 101

Example order code: PM-100/26-C6L0

Floor grille length 100 cm, width 26 cm, steel Cross model, RAL 9006 colour (grey) lacquered, linear, for single trench heater without alterations. Grille measurement, given in the grille order code of the, corresponds with the measurement of the respective trench heater. Nett dimension of the grille is available upon request.



KORAFLEX fitted with Cross grille and frame,
 RAL lacquered

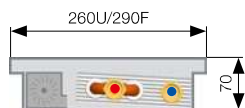
LINEAR GRILLE SUPPORTS

When using linear grilles, FV trench heater model casings must be raised by 20 mm to enable correct installation of supports for this type of grille. When ordering linear grilles for all types of trench heaters, the actual depth including the 20 mm increase must be entered as the 'depth' value in the order code. Supports are not necessary for steel and stainless steel grilles up to a width of 320 mm – these grilles are self-supporting. All other linear grilles require supports. Example trench heater measurements with linear grilles: FVO 200/70 with roll-up grille = FVO 200/90 with linear grille.

KORAFLEX Optimal-V FVO, Energy FVE



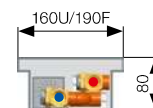
alu = supports + 20 mm*
steel, stainless, Cross = without supports



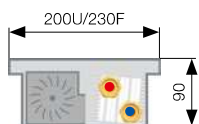
alu = supports + 20 mm*
steel, stainless, Cross = without supports



alu = supports + 20 mm*
steel, stainless, Cross = without supports



alu = supports + 20 mm*
steel, stainless, Cross = without supports



alu = supports + 20 mm*
steel, stainless, Cross = without supports



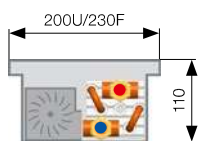
alu = supports + 20 mm*
steel, stainless, Cross = without supports



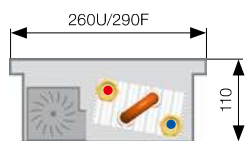
alu = supports + 20 mm*
steel, stainless, Cross = without supports



alu, steel, stainless = supports + 20 mm*
Cross = without supports



alu = supports + 20 mm*
steel, stainless, Cross = without supports



alu = supports + 20 mm*
steel, stainless, Cross = without supports



alu = supports + 20 mm*
steel, stainless, Cross = without supports



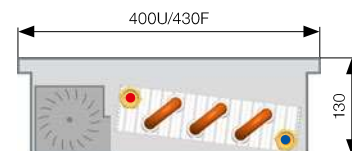
alu, steel, stainless = supports + 20 mm*
Cross = without supports



steel, stainless, Cross = without supports
alu = supports, casing not raised

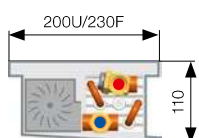


alu = supports + 20 mm*
steel, stainless, Cross = without supports



alu, steel, stainless = supports + 20 mm*
Cross = without supports

KORAFLEX Variant F2V



alu = supports + 20 mm*
steel, stainless, Cross = without supports



alu = supports + 20 mm*
steel, stainless, Cross = without supports



alu = supports + 20 mm*
steel, stainless, Cross = without supports

KORAFLEX Pool-V FVP



alu = supports + 20 mm*



* given trench heater casing heights must be raised by 20 mm.

GRILLES

Measurements

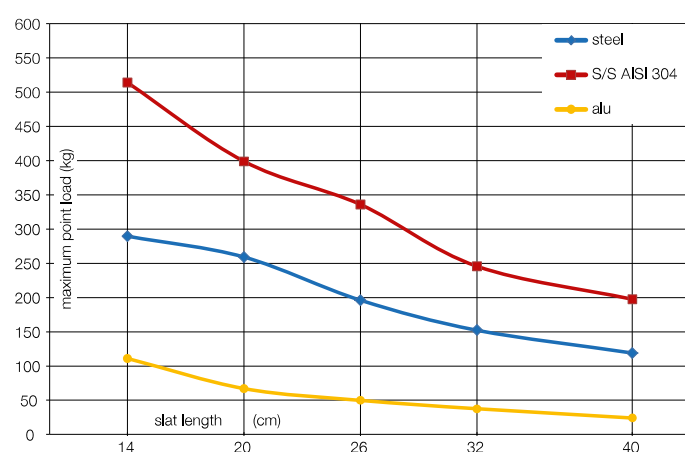
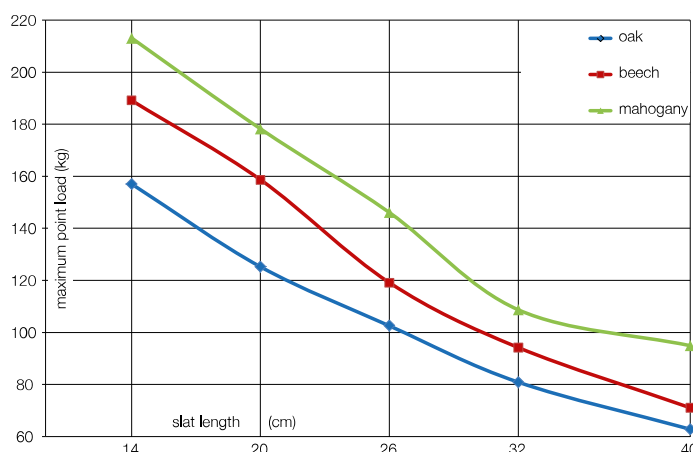
Code	PM-xx/ 14	PM-xx/ 16	PM-xx/ 20	PM-xx/ 26	PM-xx/ 32	PM-xx/ 34	PM-xx/ 40
Width - netto (mm)	128	148	188	248	308	328	388

Tolerance +0-1.5 mm. Code width is derived from trench heater width.

Grille airflow

alu	wood	steel	stain- less	Thin	Cross
63 %	55 %	60 %	60 %	63 %	58 %

Load bearing capacity



In load bearing capacity testing, grille slats are placed on two supports and weighed down in centre.

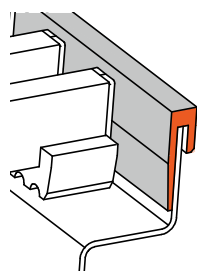
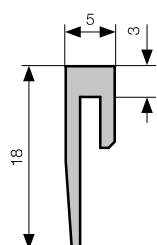
For wooden slats, values are given up to the fracture point of the first fibre. Metal slats are measured up to the point of irreversible deflection.

FRAMES

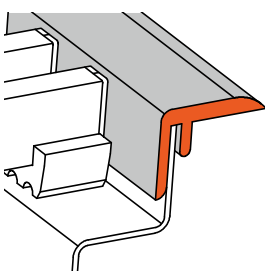
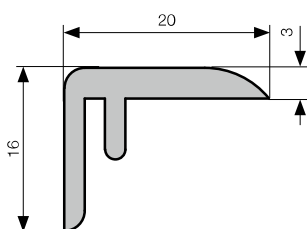


Decorative frames are available as standard in aluminium with silver, dark bronze or light bronze elox finishes. Frames may also be lacquered (powder coated) using colours from the RAL colour chart. Frames are in every case supplied as a component of trench heaters, and the type required must be specified when ordering in the Order Code. Where trench heaters are finished with a hem, the hem is of the same material as the casing.

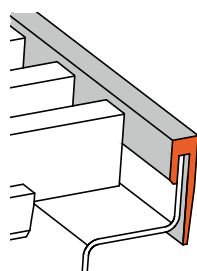
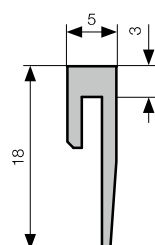
U-frame
Standard



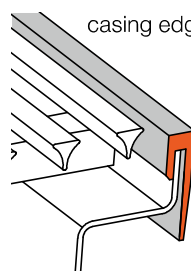
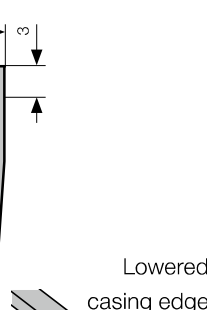
F-frame
Optional



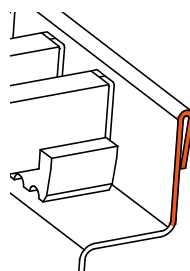
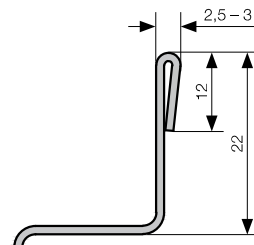
Thin frame



Cross frame



Hem



Measurements shown in mm.

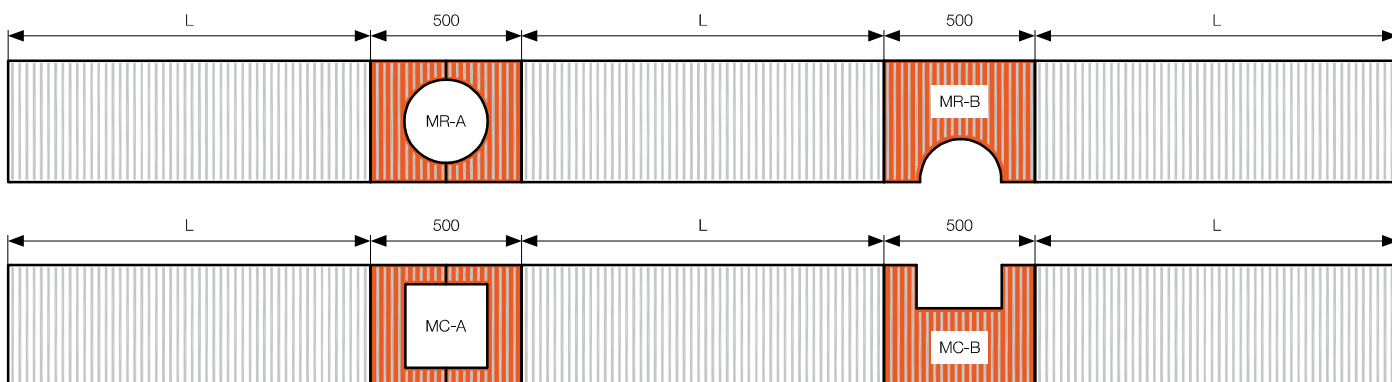
Design Solutions

DESIGN MODULES

Main advantages of design modules

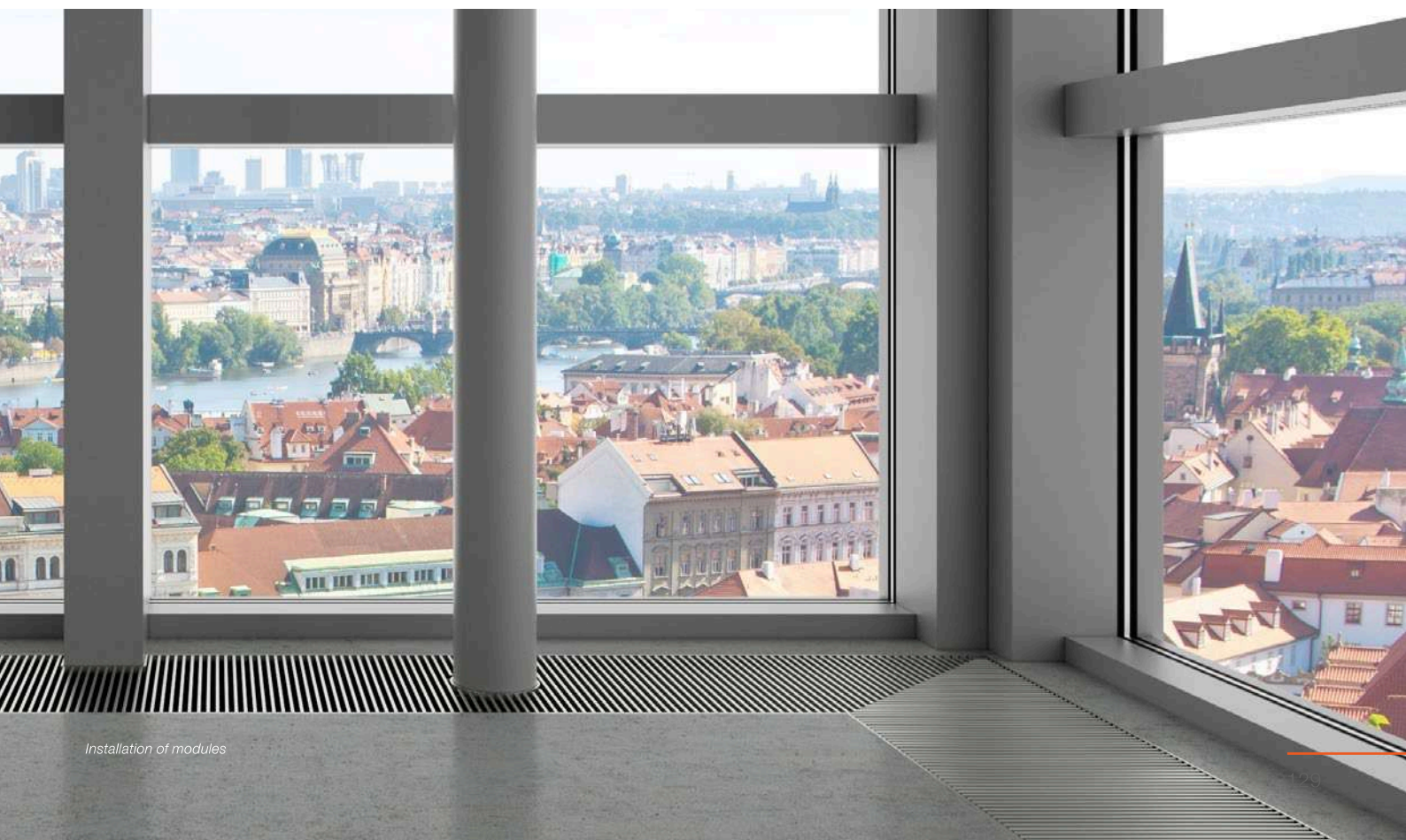
- **significant reduction in time** – from design to delivery
- **wide range** – specially designed shapes are available for the entire range of trench heaters
- **individual solutions** – design modules can be fitted with aluminium frames in the same colours as the grille
- **versatility** – for a diverse range of interior styles, easily adaptable to any kind of architectural space
- **design** – uniform styles and technical solutions for all kinds of interior. One elegant and continuous trench heater for the entire room
- **cost savings** – the price for the design and/or quotations can be calculated using the valid price list – no exact building surveys required

Our modular system was developed to simplify the installation of trench heaters in unusual interiors, and to enable rapid processing of orders and quotations for projects. **The wide range of design modules means quick and easy selection of trench heater systems made to suit your particular interior.** The extensive selection of models in each module simplifies the combination of technical requirements and interior design, even in challenging environments. The module range features high quality workmanship and an emphasis on detail.



L – the entire range of KORAFLEX trench heaters is available in unlimited lengths

Measurements shown in mm.



Installation of modules

DESIGN MODULES

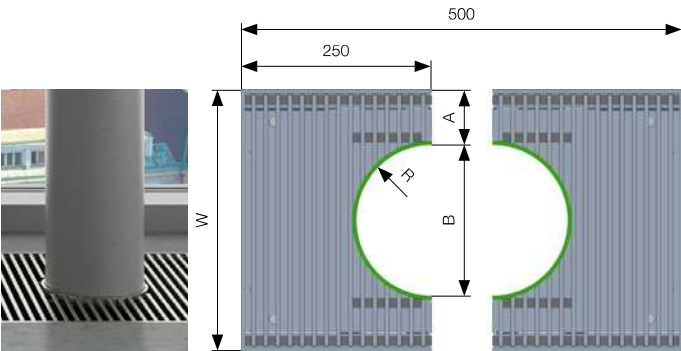
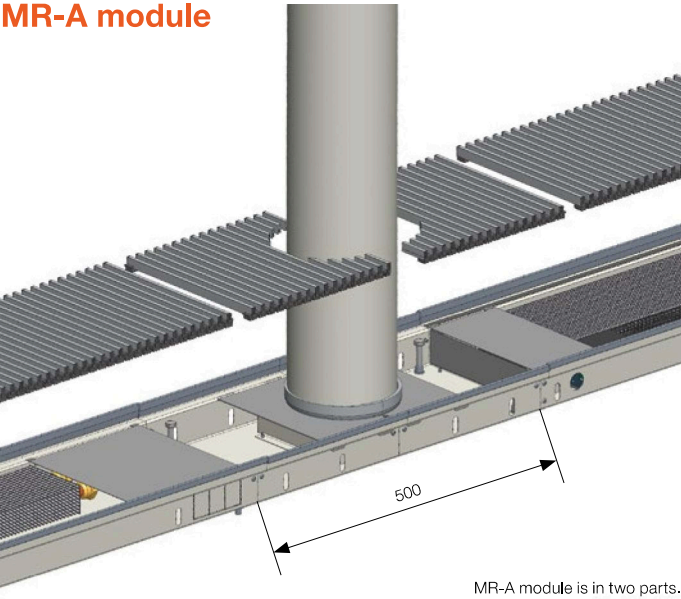
Specifications

Module length	always 500mm
Module depth	70mm
Casing material	Galvanized steel casing, RAL 9005 black lacquered

Frame	Aluminium U-frame (silver, light and dark bronze elox)
Grille	Roll-up, linear (silver, light and dark bronze elox)

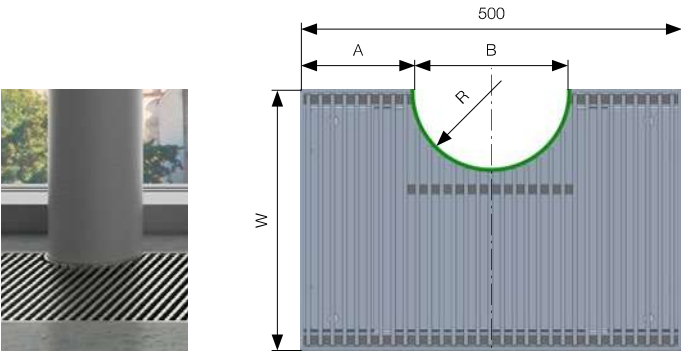
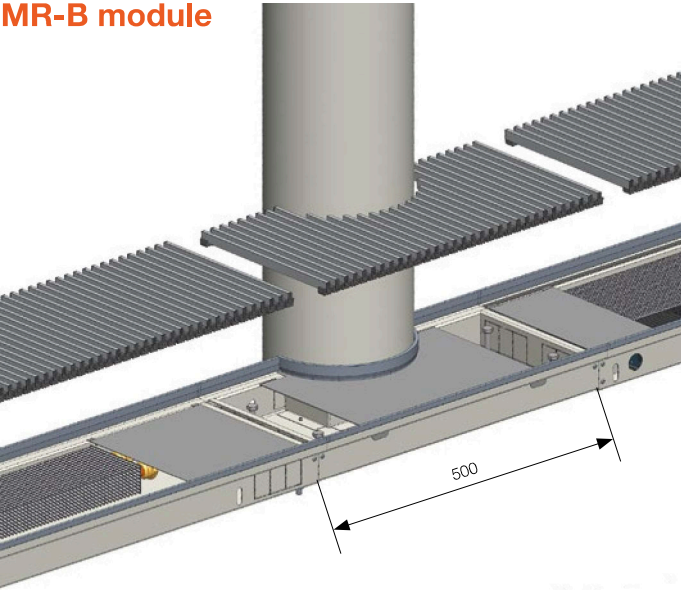
Trench heaters installed between modules are manufactured according to the required lengths in the design. Modules may be used for trench heaters with natural and forced convection. Modules are fitted as standard with aluminium grilles. Where other grille models are required – steel, stainless steel, or wood – installation can be assessed on request. Heat exchangers cannot be fitted into module components.

MR-A module



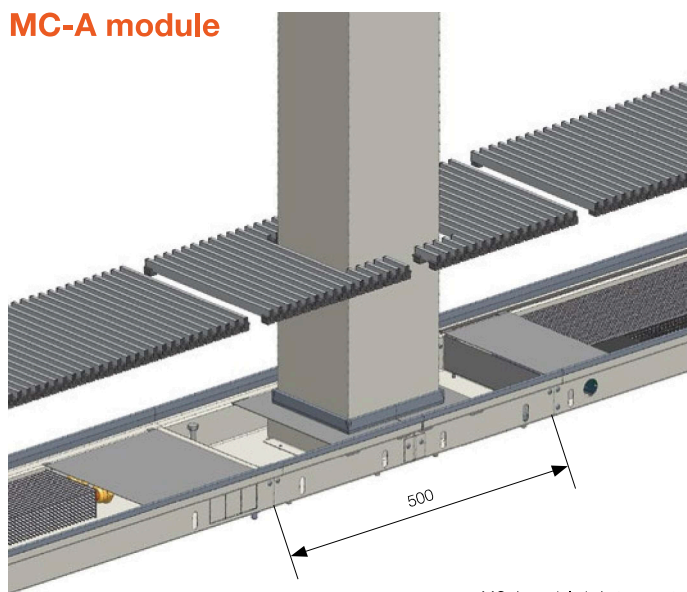
Size range	Width W (mm)				
	140 160	200	260	320 340	400
A min.–max.	–	60–65	60–95	60–125	60–165
B min.–max.	–	70–80	70–140	70–200	70–280
R min.	–	100	100	100	100

MR-B module

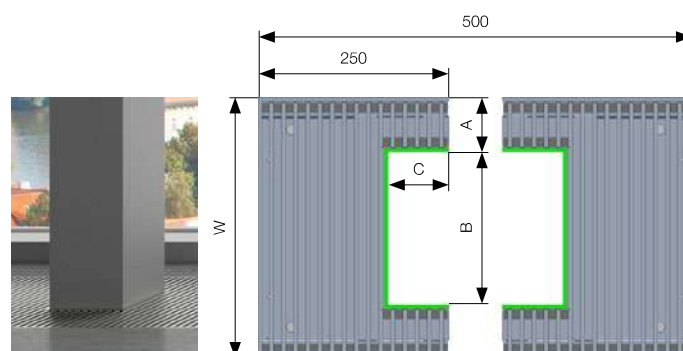


Size range	Width W (mm)				
	140 160	200	260	320 340	400
A min.–max.	80–370	80–370	80–370	80–370	80–370
B min.–max.	70–340	70–340	70–340	70–340	70–340
R min.	100	100	100	100	100

MC-A module

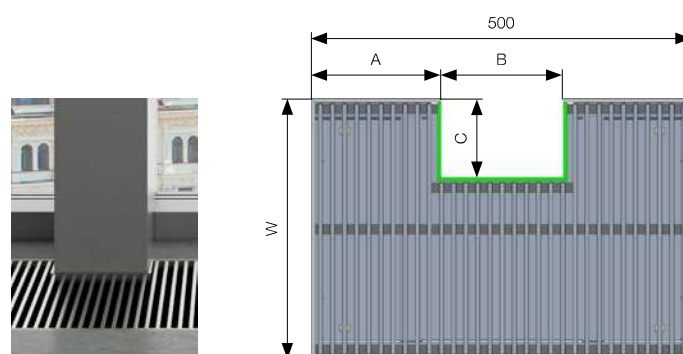
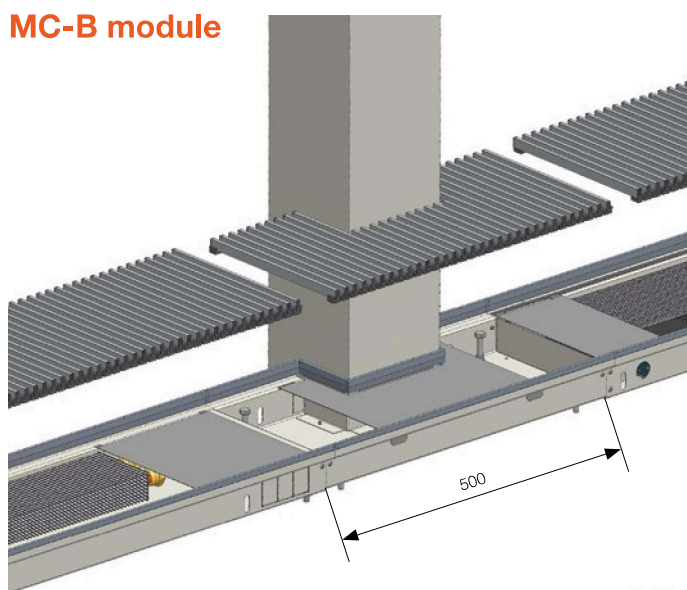


MC-A module is in two parts.



Size range	Width W (mm)				
	140 160	200	260	320 340	400
A min.-max.	–	60–90	60–150	60–210	60–290
B min.-max.	–	50–80	50–140	50–200	50–280
C min.-max.	–	20–250	20–250	20–250	20–250

MC-B module



Size range	Width W (mm)				
	140 160	200	260	320 340	400
A min.-max.	80–370	80–370	80–370	80–370	80–370
B min.-max.	50–340	50–340	50–340	50–340	50–340
C min.-max.	30–80	30–140	30–200	30–260	30–340

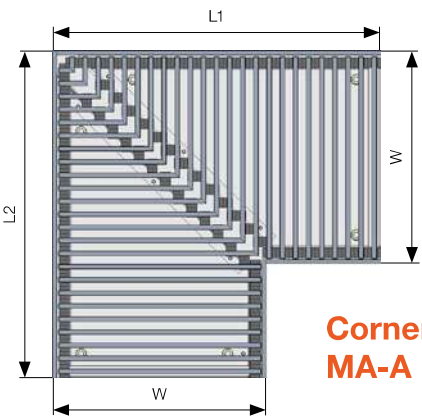
MODULE ORDER CODES

Module type	Length (cm)	Depth (cm)	Width (cm)	Frame type	Frame colour	Grille material	Grille colour	Grille type	Lowered face
MRA MRB MCA MCB	–050/07/	••	–	U U-frame 0 without frame	1 silver elox 2 dark bronze elox 3 light bronze elox 9 other RAL colour	A aluminium	1 silver elox 2 dark bronze elox 3 light bronze elox 9 other RAL colour	R roll-up L linear	0 without lowered face 1 lowered face: input side 2 lowered face: opposite input side 3 both faces lowered

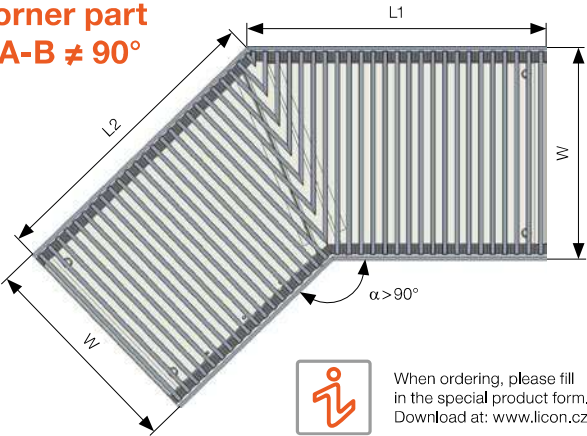
CORNER PARTS

Specifications

Length by design width	200–500 mm
Module depth	70 mm
Design width	140, 160, 200, 260, 320, 340, 400 mm
Casing material	Galvanized steel casing, RAL 9005 black lacquered
Frame	Alu U-frame or F-frame (silver, light and dark bronze elox)
Grille	Roll-up, linear (silver, light and dark bronze elox) + wood. Steel and stainless steel on request.



Corner part
MA-B ≠ 90°



Size range

Length L1, L2 (mm)	200	300	400	500	500
Trench heater width W (mm)	140 160	200	260	320 340	400

Corner parts are the ideal solution to ensure seamless connections of KORAFLEX trench heaters in the corners of rooms. Corner parts are supplied complete and can be fitted with all types of grille. Heat exchangers cannot be placed in corner parts – corner parts are optional decorative accessories and as such have no effect on heat output. Corner parts must be ordered together with the relevant trench heaters and grilles.

CORNER PART ORDER CODE

Module type	Length (cm)	Depth (cm)	Width (cm)	Frame type	Frame colour	Grille material	Grille colour	Grille type	Lowered face
MAA MAB	--- / 07 / --			U U-frame F F-frame 0 without frame	1 silver elox 2 dark bronze elox 3 light bronze elox 9 other RAL colour 0 without frame	A alu B beech D oak M mahogany S steel R stainless steel	1 silver elox 2 dark bronze elox 3 light bronze elox 9 other RAL colour 0 natural (wood, stainless steel) 1 lacquered wood 6 RAL 9006 (steel)	R roll-up L linear	0 without lowered face 1 lowered face: input side 2 lowered face: opposite input side 3 both faces lowered



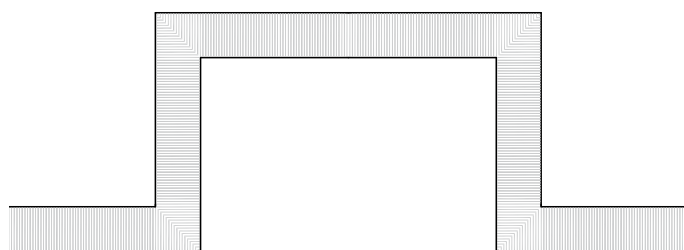
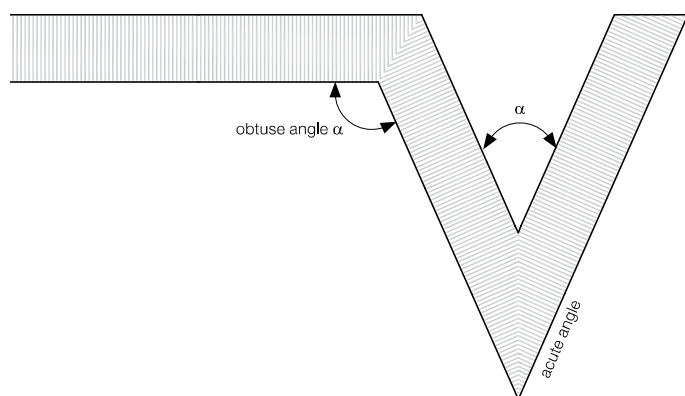
ANGLED AND CURVED DESIGNS

Specifications

Length	max. 3 000 mm
Module depth	70, 90, 110, 190, 130, 150 mm
Design width	140, 160, 200, 260, 320, 340, 400 mm
Casing material	Galvanized steel casing, RAL 9005 black lacquered
Frame	Alu U-frame (silver, light and dark bronze elox)
Grille	roll-up, aluminium (silver, light and dark bronze elox), wood, steel and stainless steel

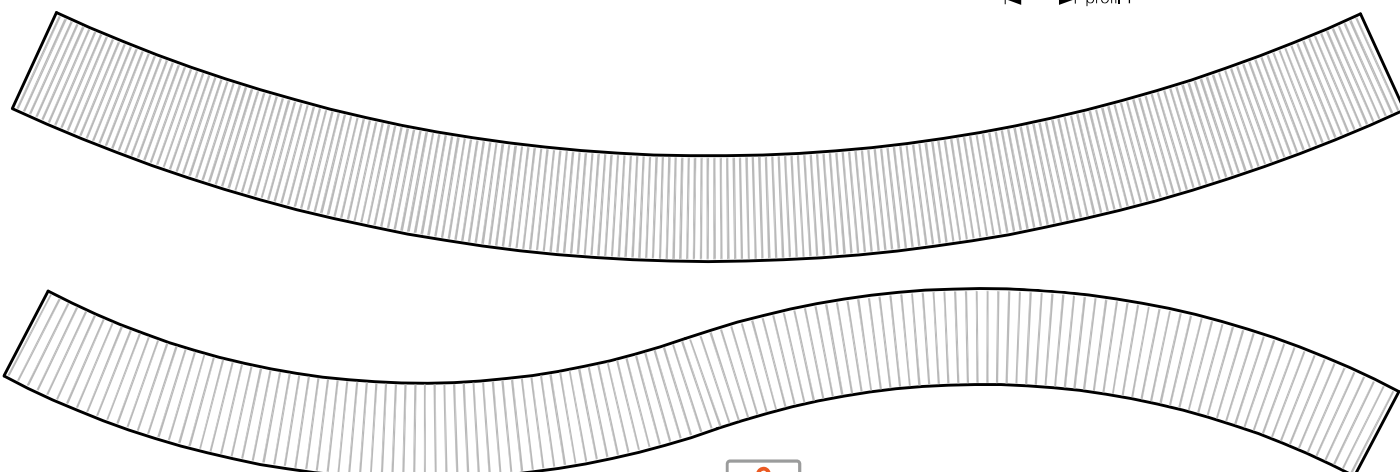
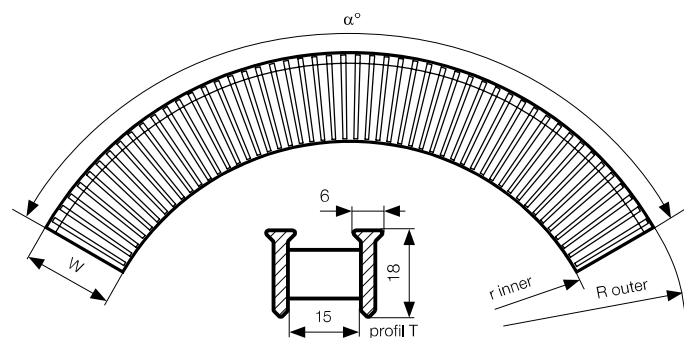
Angled design

Prior to accepting orders for design (atypical) trench heaters, the manufacturer must assess the feasibility of the project. Heat outputs cannot be guaranteed, but the manufacturer will carry out a professional heat output estimate on request. For all shapes, including curved designs, the following must be specified: angle (α), inner radius (r) or outer radius (R) and the total width (W) corresponding to trench heater widths manufactured. Grilles must be ordered together with design trench heaters.



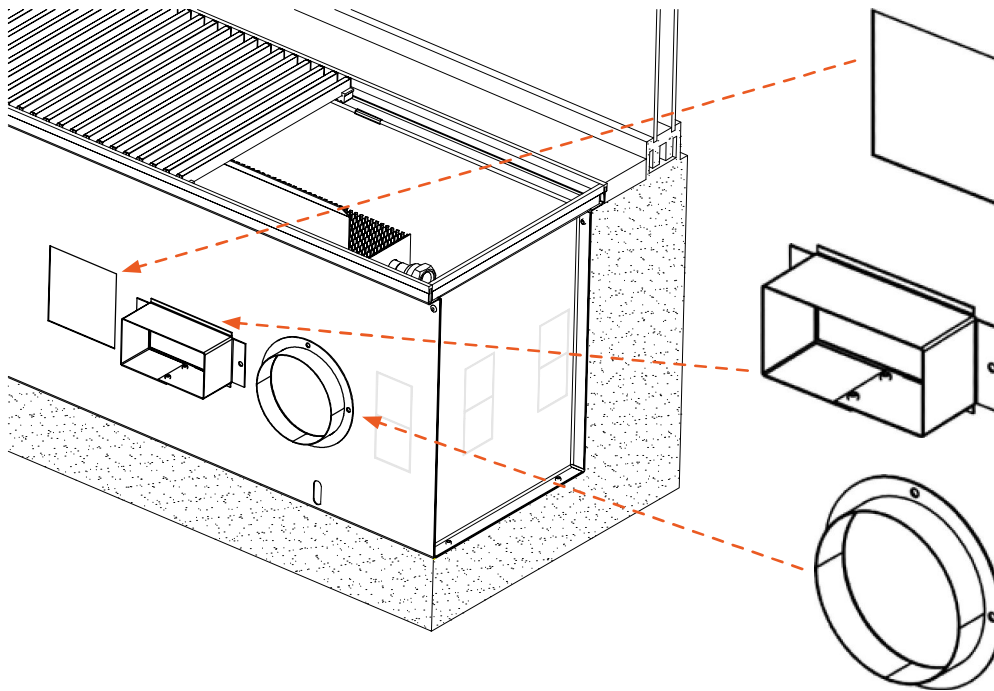
Curved parts

The minimum inner radius of curved parts must be greater than 2 000 mm. When fitting aluminium grilles to curved parts, the slats will be T-profiles set on springs (see picture) and using a U-frame. (Due to construction reasons, F-frames cannot be fitted to curved trench heaters.)



When ordering, please fill in the special product form.
Download at: www.ilcon.cz

AIR CONDITIONING CONNECTIONS



Opening for air conditioning connection

- optional alteration to construction
- measurements as per specifications
- quotation on request

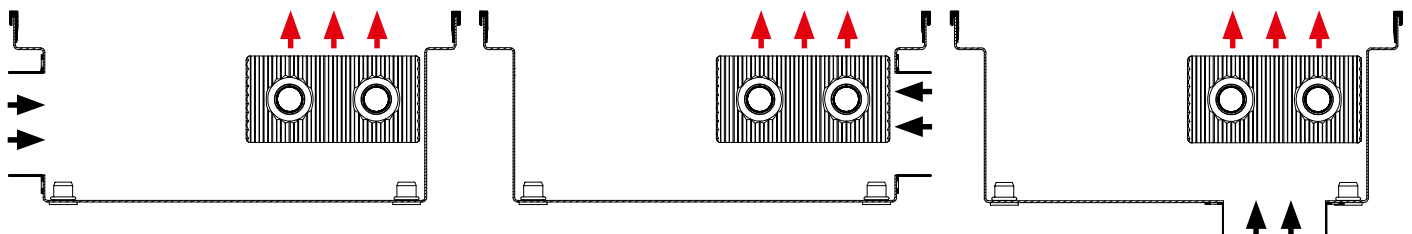
Rectangular flange

- optional accessory
- measurements as per specifications
- quotation on request

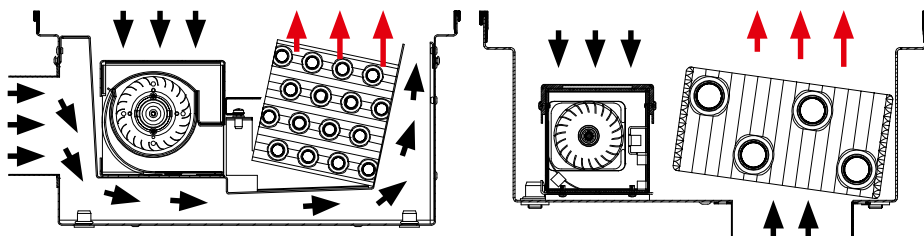
Circular flange

- optional accessory
- measurements as per specifications
- quotation on request

Natural convection (FK-models) - connection to airconditioning distribution system



Forced convection (FV-models) - connection to airconditioning distribution system



Details of proposals, prices and delivery times will be specified on request.