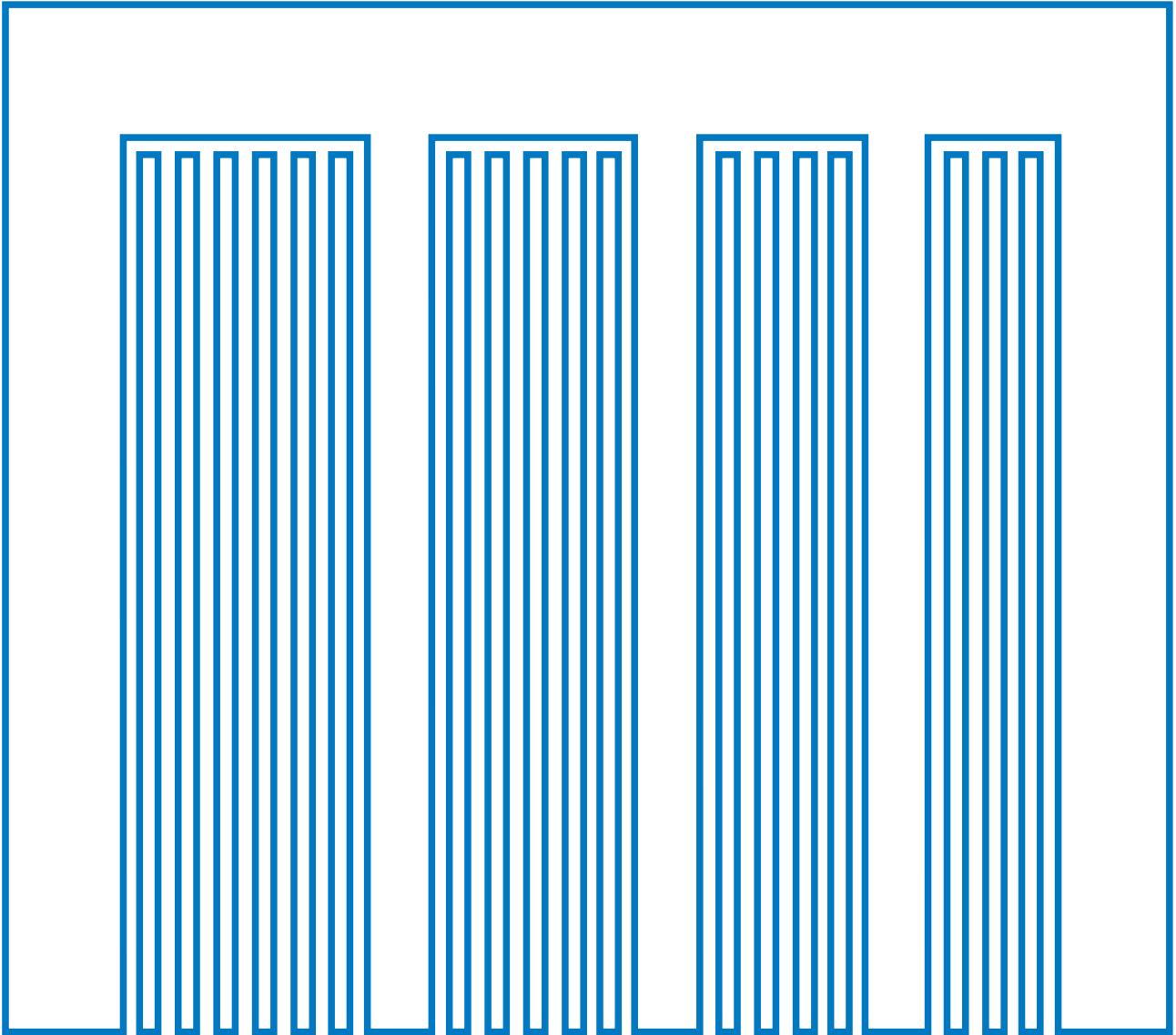


Meinertz ProLine Convection Grilles



Contents

Product description	2
Type designations and minimum widths	4
Installation possibilities	5
Thermal performance	6
Sockets	8
Installation	9
Steel channels / Outlet box	10
SkyLine Facade Convectors / Bar Radiators ..	11
Ordering information	12



ProLine Convection Grilles for buildings with glass facades

ProLine (PL)

Meinertz ProLine is a convection grille consisting of an integrated convection unit and 1 or 2 side grilles.

Application

Facade sections in

- Offices
- Show rooms with or without door profiles
- Residential buildings
- As additional heating in front of glass facades for floor heating installations

Function and advantages

In multi-story buildings with large glass facades where the falling cold air needs to be countered by means of channel mounted convectors there was - until today - the problem of achieving the necessary channel depth.

This problem has been solved with Meinertz ProLine Convection Grilles, as this integrated convector / grille solution requires a channel depth of only 100 mm.

Construction

The convection unit consists of minimum 3 and maximum 14 water-carrying steel tubes.

Meinertz ProLine can be supplied with side grilles on one side or on both sides of the convection unit.

If the mounting of a valve is required, the relevant side grille should have at least 5 hollow profiles and each side grill may consist of up to 14 hollow profiles.

ProLine Grilles

Meinertz ProLine can be supplied without the convection unit, i.e. only the grille. For continuous facade profiles where heating is not required over the whole length this can be an advantageous optical solution.

ProLine-Power (PP)

The Meinertz ProLine Convection unit can be supplied with welded fins, which will give an increase in thermal performance. Please contact us for advice and information about the design possibilities.

SkyLine (SL)

Meinertz SkyLine is a ProLine for mounting in front of facades. Meinertz SkyLine can also be delivered with fins, which will give an increase in thermal performance. This solution will be an advantage when the number of convector tubes should be kept to a minimum.

Natural ventilation

Meinertz Convection Grilles give the possibility for establishing natural ventilation through ventilation channels to the outside facade. The natural ventilation is created through a filtered air intake which is lead under the convection unit.

It would be desirable that the air intake can be adjusted either manually or automatically, in order to secure an optimum indoor climate under all circumstances.

ProLine in existing buildings

Because of the low mounting height of 100 mm ProLine is also well suited for installing on top of floors where a lowered channel is not possible.

Floor heating

In buildings with floor heating there are generally problems getting enough heat at the windows due to the incidence of cold. Supplementary heating can be achieved by installing Meinertz ProLine Convection Grilles in front of the windows.

Special Designs

The construction of Meinertz ProLine Convection Grilles offers a variety of possibilities for the adaptation to the different building projects. An early participation in the planning of your building project would enable us together with you to carry out product adaptations and to conceive special solutions.

Examples of produced special solutions can be seen on the inside of the cover. Those include special designs with integrated outlet boxes and built-in roll-curtains as protection against insolation.

Connection

Meinertz ProLine Convection Grilles are supplied as standard with welded 3/8" connection sockets and air vent socket with integrated vent spout. The connections are placed as shown on page 8, where we draw your attention to the different connection possibilities with either 1 or 2 side grilles.

The desired position of the sockets should be stated in the order. If the position is not stated, the standard placement AA with 1 side grille and AC with 2 side grilles will be delivered.

If thermostatic radiator valves are used, these should be equipped with a remote sensor, and should be placed where the remote sensor can measure the room temperature.

Channel

For optical reasons it is recommended that the width and length dimensions of the channel are 2 x 13 mm larger than the actual dimensions of the Meinertz ProLine Convection Grilles. The ProLine dimensions can also be adapted to special installation conditions (see page 5).

The channel depth of 100 mm should have a maximum tolerance of -0/+10 mm.

The sides and bottom of the convector channels should be as smooth as possible in order to reduce air friction and to facilitate cleaning. For optical reasons it is recommended to paint them in a dark colour.

Installation

The convection unit is fixed on the bottom of channel using the screws supplied with the convector components. The adjusting screws are adjusted to the actual channel depth. Subsequently the side grilles are placed on the angle brackets that are welded to the convection unit. Afterwards the adjusting screws can be readjusted from above using a hexagon key.

Loading capacity

Due to the stable steel profiles and the supports Meinertz ProLine can withstand loads up to 250 kg.

In the case of extremely high loading, such as in automobile show rooms, an additional support can be provided. If it is required that show vehicles pass over the convection grilles, this can best be achieved by providing additional covers. As regards possible wear, see section "Surface treatment".

Operating conditions

Meinertz ProLine Convection Grilles are used in heating installations with a maximum water temperature of 80° C and a maximum operating pressure of 10 bars.

In order to avoid too high a surface temperature of the convector unit, under certain installation conditions for safety reasons it is recommended to use a low flow pipe temperature.

The test pressure is 1.3 x operating pressure.

The thermal expansion is calculated according to the following formula:

$$\Delta L = L \times 0.000012 \times (t_m - 10)^\circ C$$

L = Convection unit length in mm
 t_m = Mean water temperature in °C

Manufacture

Meinertz ProLine Convection Grilles are manufactured from pressure-stable rectangular precision steel tubes 70 x 11 x 2.0 mm with welded tie-bars for fixing to the channel floor. The side grilles are manufactured from hollow steel profiles 20 x 11 x 1.25 mm. The side grilles are equipped with welded supports from 16 x 16 x 1.5 mm hollow profiles.

Both the convection unit and the side grille have a profile spacing of 13 mm giving 54% free cross section.

Performance test

Meinertz ProLine Convection Grilles have undergone a performance test in an open test room at the:
 HLK Test Site of the University of Stuttgart according to DIN 4704-2, 4, 5.

Surface treatment

Meinertz ProLine Convection Grilles are supplied as standard in a powder-coated finish in RAL colour 7024 (Graphite Grey) or RAL 9007 (Grey Aluminium) according to the following procedure:

1. Degreasing
2. Phosphatising
3. Passivation
4. Oven drying at 185° C
5. Powder coating
6. Baking at 185° C
7. Special packing

Meinertz ProLine Convection Grilles can be supplied in other RAL colours or galvanized for an additional cost.

If Meinertz ProLine Convection Grilles are to be used for traffic areas with its resulting wear, the convection grilles can be supplied with a particularly wear-resistant coating quality.

Form of supply

Meinertz ProLine Convection Grilles are supplied cut to length up to 6 m with manufacturing tolerances of +/- 5 mm. The side grilles have adjusting screws with maximum 600 mm fixing centres.

Packaging

Meinertz ProLine are carefully packaged in strong cardboard on a pallet and the the pallet is wrapped in PE sheeting.

Type codification

Meinertz ProLine Convection Grille
 Type PL 07 04 8/5

- PL 07 = General designation
- 04 = Convection unit with 4 water-carrying steel tubes
- 8 = Side grille with 8 hollow profiles
- 5 = Second side grille with 5 hollow profiles

Meinertz ProLine Grille
 Type PL 00 12

- PL 00 = General designation
- 12 = Side grille with 12 hollow profiles

Weight

- Convection unit: 2.31 kg/m steel tube
- Side grille: 0.55 kg/m hollow profile

Example for the weight calculation:

Meinertz ProLine Convection Grille
 type PL 07 04 8/5 x 3 m:

- Convection unit:
 4 x 3 x 2.31 = 27.7 kg
- Side grille:
 (8 + 5) x 3 x 0.55 = 21.5 kg
- Weight (empty) = 49.2 kg

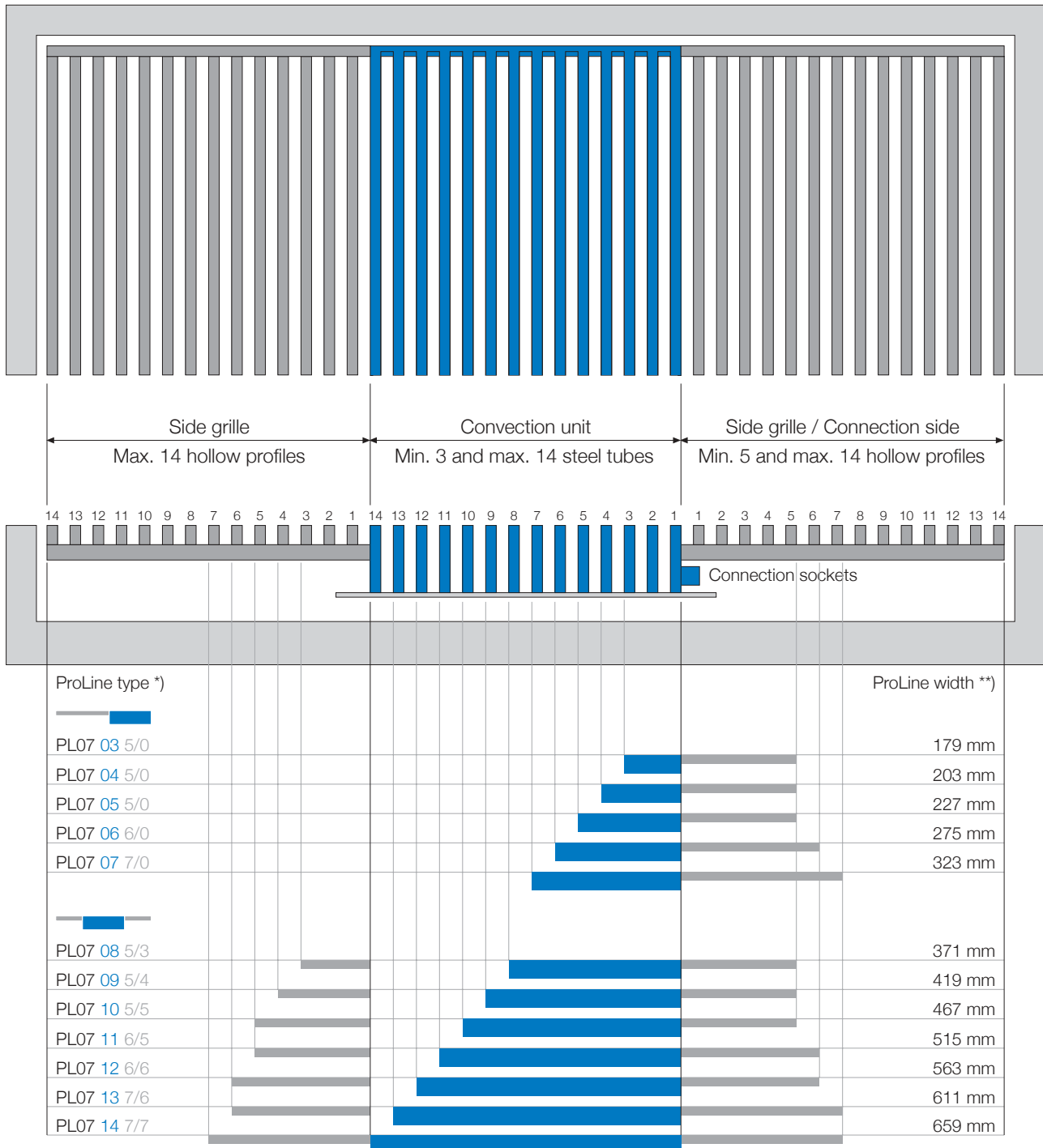
Construction project planning

Meinertz Danica will be pleased to be of assistance from the start of the planning to the final installation.

Warranty

Approved installations are protected by a 5-year warranty covering manufacturing and material defects.

Type designations and minimum widths



*) The type designations indicate the minimum number of side grille profiles in relation to the number of convection tubes.

Due to heat engineering reasons we recommend the use of 2 side grilles, when ever possible.

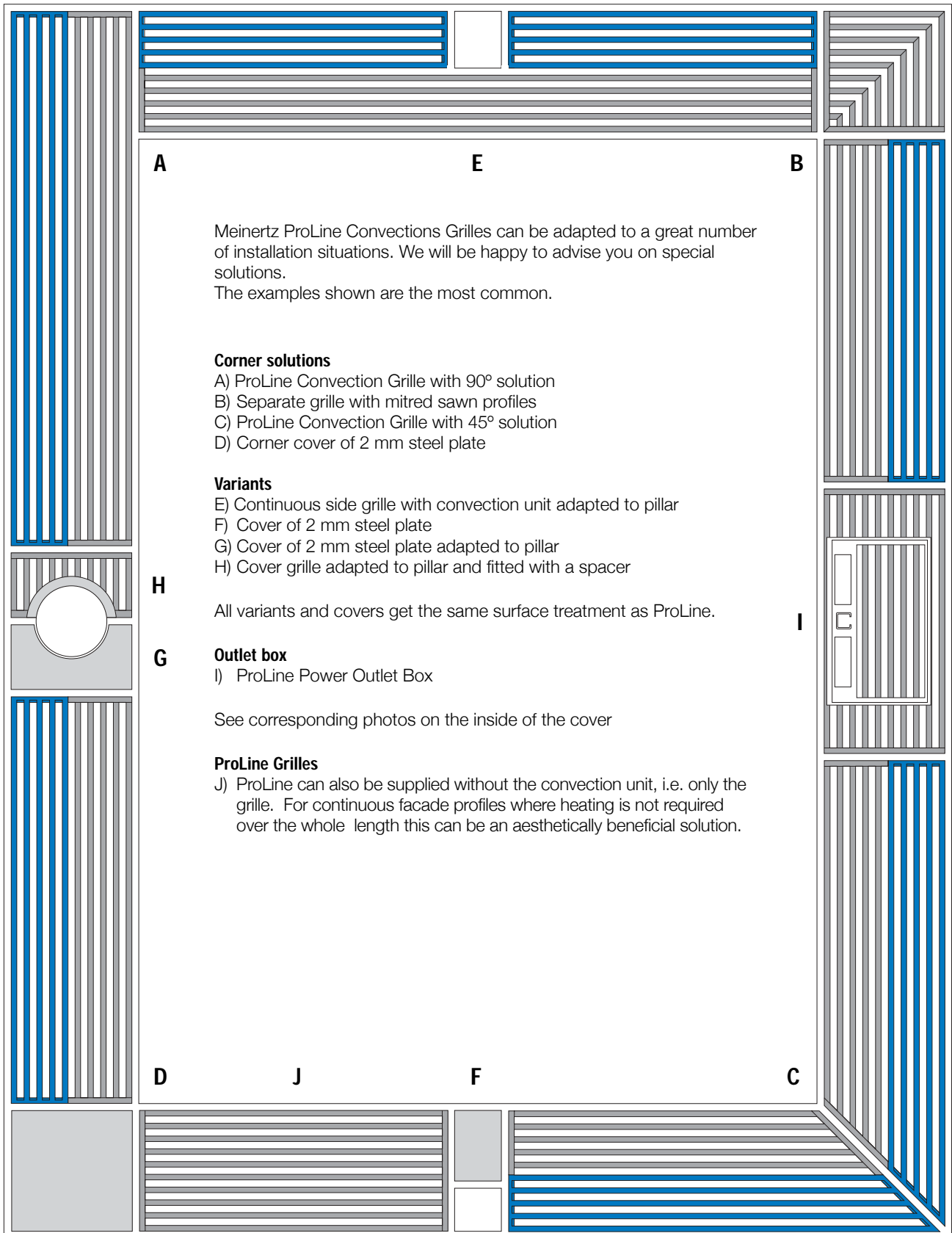
**) The width dimensions are the minimum dimensions for the different ProLine models.

A greater number of side grille profiles can freely be chosen.

Width of Meinertz ProLine Convection Grilles =
 Number of profiles x (13+11)-13

- Channel depth min. 100 mm
- ProLine max. length 6000 mm
- ProLine profile width 11 mm
- ProLine profile distance 13 mm
- Free distance to the channel sides 13 mm

Installation possibilities for ProLine Convection Grilles and ProLine Side Grilles



— Convection unit

— Side grille

— Cover plates

Thermal performance in watts/meter for 20°C room temperature and various temperature sets. Type PL07 03 5/5 ~ PL07 08 5/3

Flow pipe temp.	Type	Return pipe temperature °C								
		30°C	35°C	40°C	45°C	50°C	55°C	60°C	65°C	Exponent
75°C	PL 07 03 5/5	113	135	154	172	189	205	221	236	1,1591
	PL 07 04 5/5	150	178	203	227	248	269	289	308	1,1348
	PL 07 05 5/5	182	216	246	273	299	323	346	369	1,1104
	PL 07 06 6/5	206	245	279	310	339	367	394	420	1,1212
	PL 07 07 7/7	225	268	306	340	373	404	433	462	1,1320
	PL 07 08 5/3	245	294	338	378	416	453	488	521	1,1870
70°C	PL 07 03 5/5	105	126	145	162	178	194	208	223	1,1591
	PL 07 04 5/5	140	167	191	213	234	254	273	292	1,1348
	PL 07 05 5/5	170	203	231	258	282	305	328	351	1,1104
	PL 07 06 6/5	192	229	262	292	320	347	373	400	1,1212
	PL 07 07 7/7	210	251	287	320	351	381	409	438	1,1320
	PL 07 08 5/3	228	275	317	355	392	426	460	495	1,1870
65°C	PL 07 03 5/5	97	117	135	151	167	182	197	212	1,1591
	PL 07 04 5/5	130	156	178	200	220	238	256	274	1,1348
	PL 07 05 5/5	158	189	216	241	265	287	308	329	1,1104
	PL 07 06 6/5	179	214	245	274	300	326	351	376	1,1212
	PL 07 07 7/7	195	234	268	300	330	358	386	414	1,1320
	PL 07 08 5/3	211	255	295	331	366	399	432	465	1,1870
60°C	PL 07 03 5/5	90	108	125	141	155	170	184	198	1,1591
	PL 07 04 5/5	119	144	166	186	205	224	242	260	1,1348
	PL 07 05 5/5	146	175	201	225	247	268	288	308	1,1104
	PL 07 06 6/5	165	198	227	255	280	304	327	350	1,1212
	PL 07 07 7/7	180	216	249	279	307	334	360	386	1,1320
	PL 07 08 5/3	194	235	273	307	340	371	401	430	1,1870
55°C	PL 07 03 5/5	82	99	115	129	143	157	171	185	1,1591
	PL 07 04 5/5	109	132	152	171	189	207	224	241	1,1348
	PL 07 05 5/5	133	161	185	208	229	249	268	286	1,1104
	PL 07 06 6/5	150	182	209	235	259	281	302	322	1,1212
	PL 07 07 7/7	164	198	229	257	283	307	329	350	1,1320
	PL 07 08 5/3	176	215	250	282	311	338	363	387	1,1870
50°C	PL 07 03 5/5	73	90	104	118	131	144	157	170	1,1591
	PL 07 04 5/5	98	119	139	158	176	193	210	226	1,1348
	PL 07 05 5/5	121	146	169	191	211	229	246	262	1,1104
	PL 07 06 6/5	136	165	191	215	236	254	271	287	1,1212
	PL 07 07 7/7	148	180	208	233	256	276	294	311	1,1320
	PL 07 08 5/3	158	194	226	256	283	308	331	353	1,1870
45°C	PL 07 03 5/5	65	80	94	108	121	134	147	160	1,1591
	PL 07 04 5/5	87	107	127	146	163	179	194	209	1,1348
	PL 07 05 5/5	107	131	154	176	195	212	228	243	1,1104
	PL 07 06 6/5	120	147	173	197	217	234	250	265	1,1212
	PL 07 07 7/7	131	160	188	213	234	252	269	285	1,1320
	PL 07 08 5/3	139	172	204	230	253	272	289	305	1,1870
40°C	PL 07 03 5/5	56	70	84	98	111	124	137	150	1,1591
	PL 07 04 5/5	75	95	115	134	151	167	182	197	1,1348
	PL 07 05 5/5	93	117	141	163	182	199	215	230	1,1104
	PL 07 06 6/5	105	131	157	181	199	216	232	247	1,1212
	PL 07 07 7/7	113	142	170	195	214	231	247	262	1,1320
	PL 07 08 5/3	120	154	186	212	233	251	267	282	1,1870

Meinertz ProLine Convection Grilles have undergone a performance test in an open test room at the HLK Test Site of the University of Stuttgart according to DIN 4704-2, 4, 5.

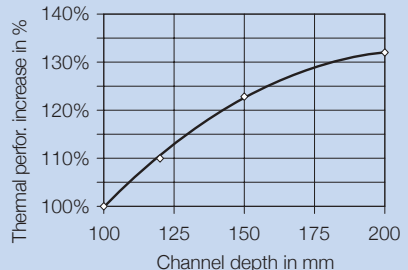
In order to avoid too high a surface temperature of the convector unit, under certain installation conditions for safety reasons it is recommended to use a low flow pipe temperature.

Please contact Meinertz Danica A/S for the heat output of Meinertz Pro-Line Convection Grilles with 1 side grill.

Thermal performance in watts/meter for 20°C room temperature and various temperature sets. Type PL07 09 5/4 ~ PL07 14 7/7

Flow pipe temp.	Type	Return pipe temperature °C								
		30°C	35°C	40°C	45°C	50°C	55°C	60°C	65°C	Exponent
75°C	PL 07 09 5/4	261	314	362	406	448	488	526	563	1,2097
	PL 07 10 5/5	275	333	384	432	477	520	562	602	1,2323
	PL 07 11 6/5	293	354	409	459	507	553	597	640	1,2285
	PL 07 12 6/6	310	375	432	486	536	584	631	676	1,2246
	PL 07 13 7/6	326	393	454	510	563	614	663	710	1,2256
	PL 07 14 7/7	341	411	475	533	589	642	693	743	1,2266
70°C	PL 07 09 5/4	243	293	339	381	421	459	495	529	1,2097
	PL 07 10 5/5	256	310	359	405	448	489	529	562	1,2323
	PL 07 11 6/5	272	330	382	430	476	520	562	593	1,2285
	PL 07 12 6/6	288	349	404	455	503	549	593	623	1,2246
	PL 07 13 7/6	303	367	424	478	528	577	623	652	1,2256
	PL 07 14 7/7	316	383	444	500	552	603	652	693	1,2266
65°C	PL 07 09 5/4	224	272	315	355	393	429	457	485	1,2097
	PL 07 10 5/5	236	287	333	376	417	457	485	513	1,2323
	PL 07 11 6/5	251	306	355	401	444	485	513	539	1,2285
	PL 07 12 6/6	266	323	375	423	469	513	539	563	1,2246
	PL 07 13 7/6	279	340	394	445	493	539	563	593	1,2256
	PL 07 14 7/7	292	355	412	465	515	563	593	623	1,2266
60°C	PL 07 09 5/4	205	250	291	328	364	393	417	435	1,2097
	PL 07 10 5/5	216	264	307	348	387	417	435	457	1,2323
	PL 07 11 6/5	230	281	327	370	411	444	457	476	1,2285
	PL 07 12 6/6	243	297	346	392	435	469	485	503	1,2246
	PL 07 13 7/6	255	312	363	411	457	493	513	529	1,2256
	PL 07 14 7/7	267	326	380	430	477	515	539	556	1,2266
55°C	PL 07 09 5/4	186	228	266	301	331	355	371	381	1,2097
	PL 07 10 5/5	195	240	281	319	349	371	381	393	1,2323
	PL 07 11 6/5	208	256	299	339	369	381	393	405	1,2285
	PL 07 12 6/6	220	271	316	359	389	405	417	429	1,2246
	PL 07 13 7/6	231	284	332	377	407	429	441	453	1,2256
	PL 07 14 7/7	242	297	347	394	424	441	453	465	1,2266
50°C	PL 07 09 5/4	167	205	240	270	294	311	321	326	1,2097
	PL 07 10 5/5	174	216	253	283	307	321	326	331	1,2323
	PL 07 11 6/5	186	230	270	300	324	331	336	341	1,2285
	PL 07 12 6/6	197	243	286	316	340	341	346	351	1,2246
	PL 07 13 7/6	207	255	300	330	354	355	360	365	1,2256
	PL 07 14 7/7	216	267	313	343	367	369	374	379	1,2266
45°C	PL 07 09 5/4	146	182	215	245	269	286	296	301	1,2097
	PL 07 10 5/5	153	191	224	254	278	286	291	296	1,2323
	PL 07 11 6/5	163	203	236	266	290	296	301	306	1,2285
	PL 07 12 6/6	173	215	248	278	302	307	312	317	1,2246
	PL 07 13 7/6	181	226	259	289	313	318	323	328	1,2256
	PL 07 14 7/7	190	236	269	299	323	328	333	338	1,2266
40°C	PL 07 09 5/4	126	158	187	212	231	241	246	246	1,2097
	PL 07 10 5/5	131	166	195	220	239	246	251	251	1,2323
	PL 07 11 6/5	140	175	204	229	248	251	256	256	1,2285
	PL 07 12 6/6	148	184	213	238	257	257	262	262	1,2246
	PL 07 13 7/6	155	193	222	247	266	266	271	271	1,2256
	PL 07 14 7/7	162	202	231	256	275	275	280	280	1,2266

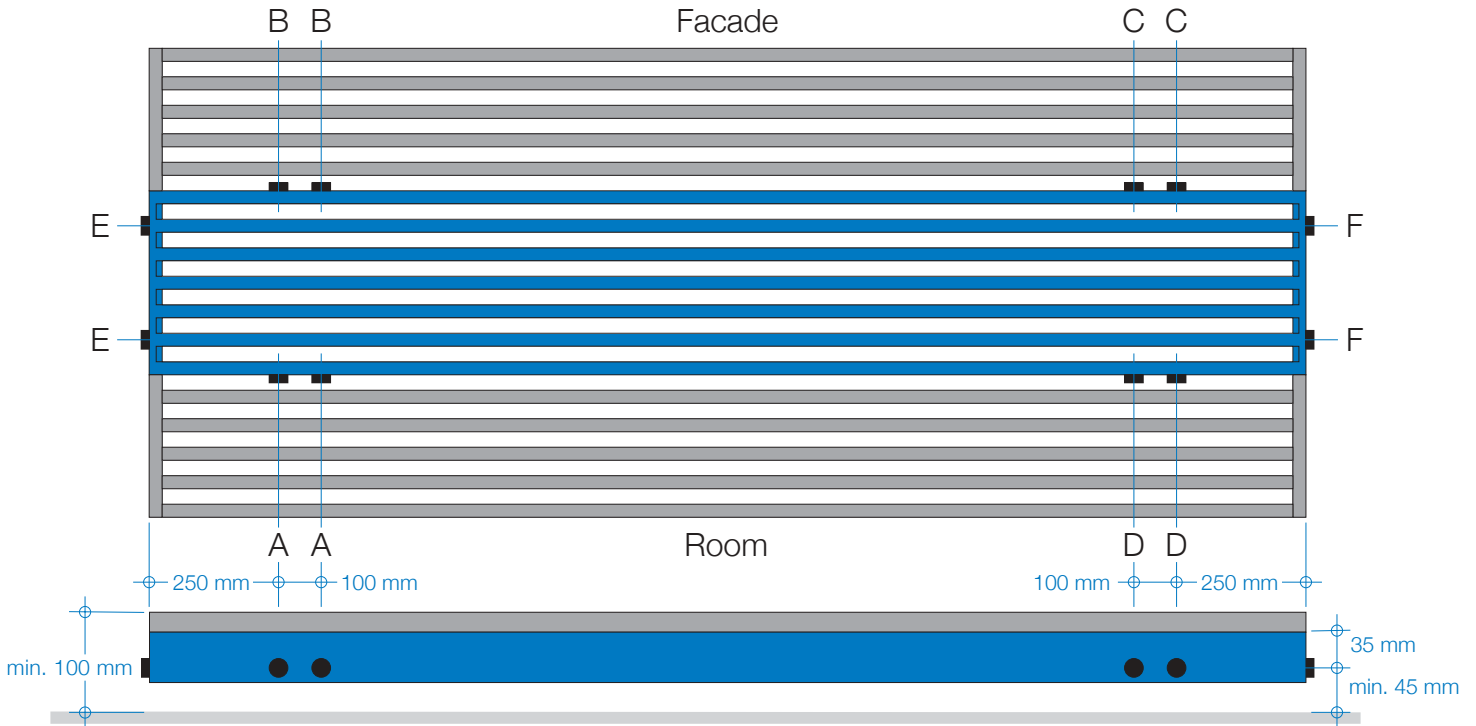
Thermal performance for channel depths of 100 - 200 mm



Tests carried out by the HLK Test Site of the University of Stuttgart with Meinertz ProLine Convection Grille type PL 07 05 0/5 at a temperature set of Δt 42.5 K (70/55/20) °C, illustrated by the graph, show the influence of the channel depth on the thermal performance. This performance increase is dependent on the width of the convection grille.

Please contact Meinertz Danica A/S for further information.

Socket connections



Connection possibilities with 1 side grille						
Return						
Supply	A	B	C	D	E	F
A	▲	●	●	○	●	●
B	●	●	○	●	●	●
C	●	○	●	●	●	●
D	○	●	●	●	●	●
E	●	●	●	●	●	●
F	●	●	●	●	●	●

Connection possibilities with 2 side grilles						
Return						
Supply	A	B	C	D	E	F
A	●	●	▲	○	●	●
B	●	●	○	●	●	●
C	●	○	●	●	●	●
D	○	●	●	●	●	●
E	●	●	●	●	●	●
F	●	●	●	●	●	●

Standard socket size 3/8"

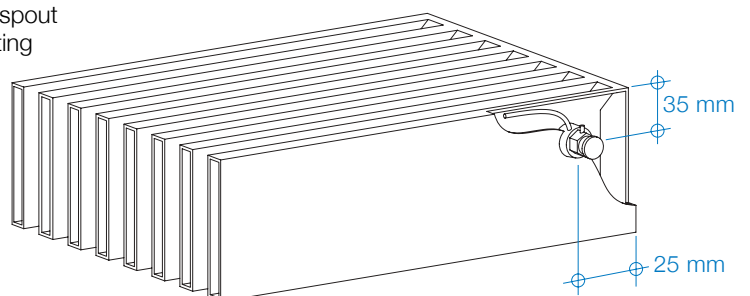
- ▲ Standard socket position
- Possible socket positions
- This option cannot be recommended due to undesirable water flow

Thermal performance increase

Under certain circumstances it will be possible to increase the thermal performance of Meinertz ProLine Convection Grilles by adding welded dividing plates in order to force the direct flow of water and thereby effecting an increase in performance. This possibility is dependent on the width and length of the convection unit, but also on the number of side grilles and position of sockets. Please contact Meinertz Danica A/S for further information.

Air vent screw

Meinertz ProLine Convection Grilles have the air vent screw placed below the level of the side grille. The integrated vent spout assures correct venting from the top of the convection unit.



Installation

The convection unit is fixed on the channel floor using the screws supplied with the convector components. The adjusting screws are adjusted to the actual channel depth. Subsequently the side grilles are placed on the angle brackets that

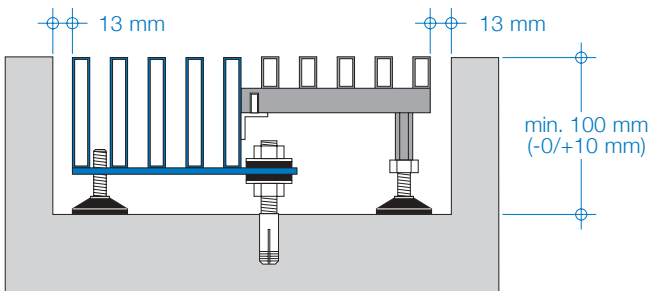
are welded to the convection unit. Afterwards the adjusting screws can be readjusted from above using a hexagon key.

For convection grilles with one side grille, fixing screws are only required

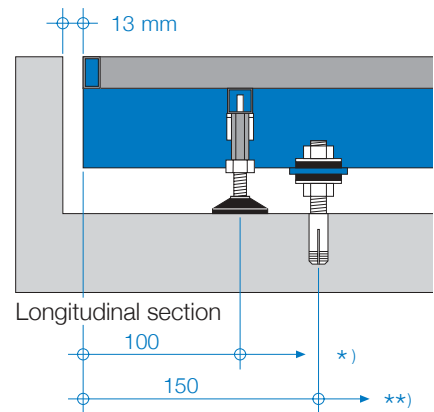
on the side towards the side grille and the adjusting screws are installed between the last and the second last convection tube.

Channel depth minimum 100 mm
Channel depth tolerance $-0/+10$ mm

Fixing and support with 1 side grille

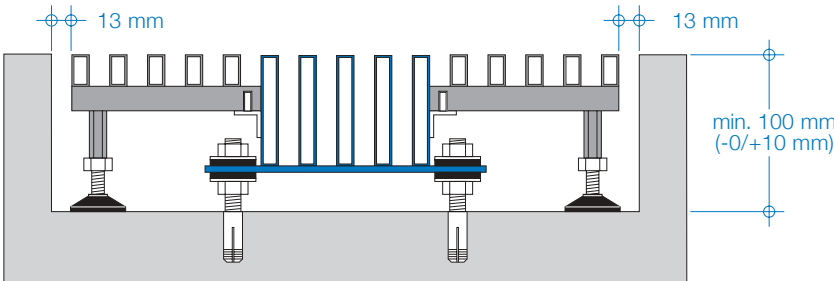


Cross section

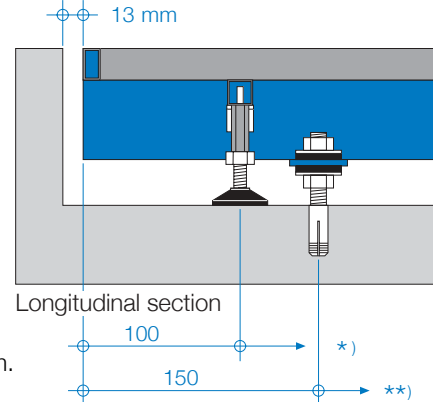


Longitudinal section

Fixing and support with 2 side grilles



Cross section



Longitudinal section

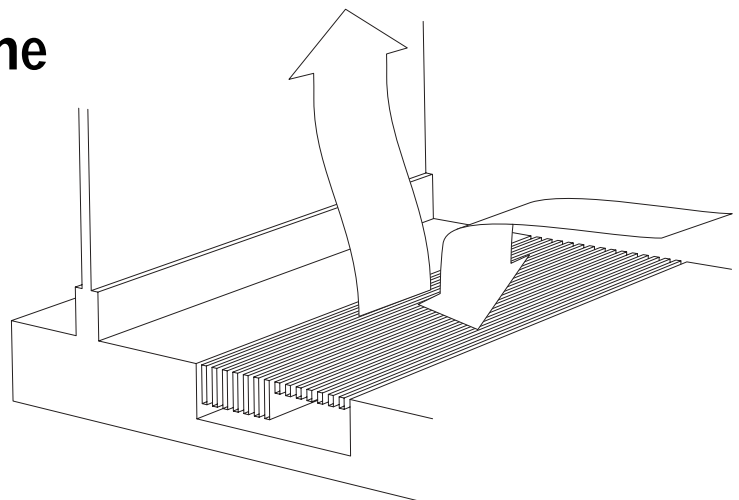
*) The supports on the side grilles are placed evenly at a distance of max. 600 mm.

***) The fixing points on the convection unit are placed evenly at a distance of max. 2500 mm.

Placement of the ProLine Convection unit

Tests carried out by the HLK Test Site of the University of Stuttgart have shown that the most effective performance for thermal engineering reasons is obtained when, in the case of one side grille, the convection unit is placed towards the facade side of the channel.

This has also been confirmed by the Technical Department of the University of Eindhoven, NL, where the same tests have been carried out.



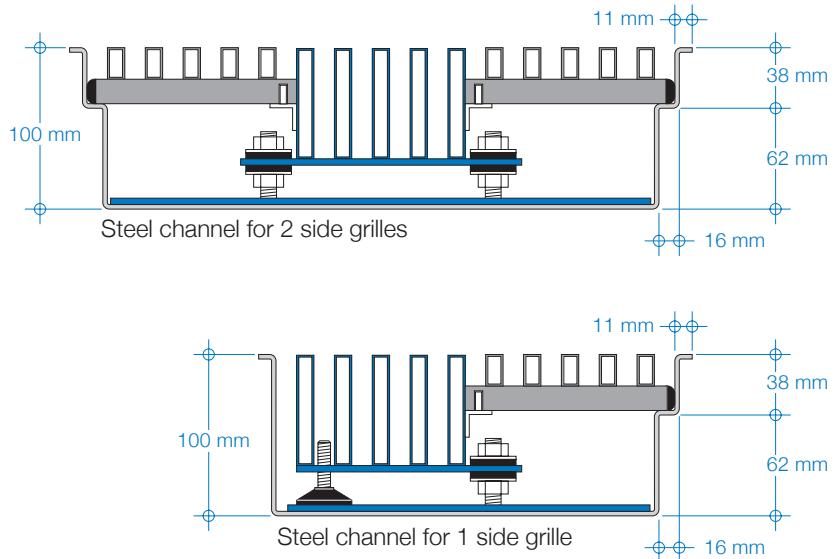
Installation in steel channels

Meinertz ProLine in steel channels

On account of the construction of the building it can occasionally be desirable to place Meinertz ProLine Convection Grilles in a steel channel. The steel channels are made of 1,5 mm steel plate with the bending edge to be placed below or above the final floor covering.

The steel channel and the convection grille are surface treated in the same RAL colour.

It is possible to supply the steel channels with adjusting screws in the base for height adjustment during the installation.



ProLine Power Outlet box

Meinertz ProLine Outlet box

The Meinertz ProLine Power Outlet Box is an installation kit with cover, which is adapted to the Thorsman Wibe FrontLine Electro Box Type UFB 900/700 (not part of the standard package).

The outlet box is used in connection with ProLine Convection Grilles, if the Primary Distribution System (PDS) needs to be installed alongside the glass facades.

Channel

Unlike convection grilles with a channel depth of 100 mm, installations with outlet boxes require a minimum channel depth of 110 mm. If it is not possible to arrange for a channel depth of 110 mm over the total length, it is necessary to provide for corresponding chases at those points where the outlet box is to be mounted.

For optical reasons we recommend to paint the convector channel and possibly the cable channel in a dark colour.

Feed lines

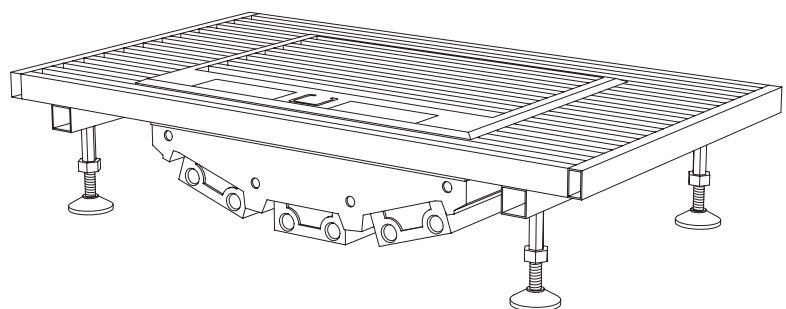
The feed lines to the relevant outlet boxes can usually be fed under the floor.

As an alternative, the feed lines can also be installed in the convection grille channel and fed through a cable channel having a maximum height of 60 mm. In this case it is necessary to enlarge the relevant side grille by the chosen cable channel width.

Mounting

The electro frame is fastened in the channel using the factory-supplied fixing elements. The electro frame is adapted to the actual channel depth by means of adjusting screws.

During mounting it must be ensured that the distance to the ends of the convection grilles is 13 mm.



SkyLine Facade Convectors

Meinertz SkyLine Facade Convectors

Meinertz SkyLine are heating elements for the horizontal and vertical installation in alcoves.

With its low construction height of 70 mm and its small depth, Meinertz SkyLine represents an ideal solution as an integrated facade convector.

Meinertz SkyLine can be powder coated in the same colour as the facade alcoves. In addition to mounting on the facade alcoves Meinertz Skyline can also be installed on the intermediate buttresses.

Meinertz SkyLine is constructed from pressure-stable, rectangular steel tubes 70 x 11 x 2.0 mm and is manufactured with 2, 3, 4 or 5 convector tubes in lengths of 6000 mm with 3/8" flow and return pipe connections at the same end or at the opposite ends.

Types

SkyLine can be supplied in 2 variants

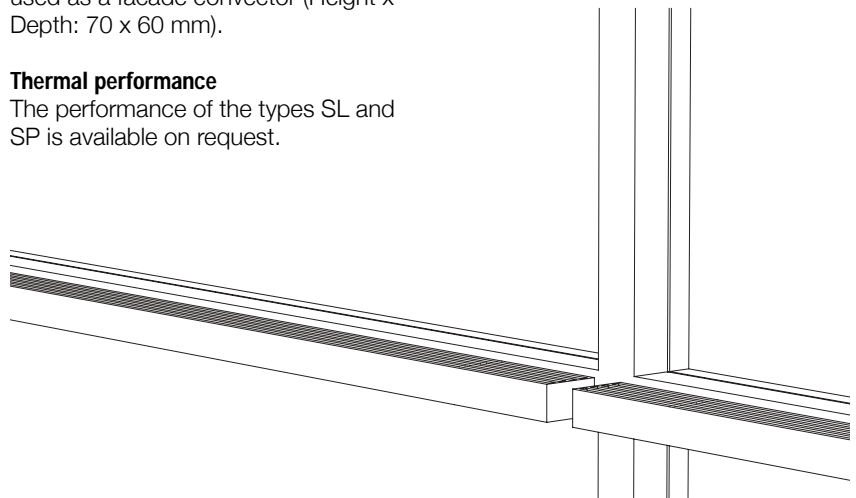
- Type SL For horizontal and vertical installation
- Type SP For horizontal installation with welded fins between the individual convector tubes

Furthermore, the Meinertz TopLine Convector type TS 072S can be used as a facade convector (Height x Depth: 70 x 60 mm).

Thermal performance

The performance of the types SL and SP is available on request.

Meinertz SkyLine Facade Convectors		
Type		Depth
SL 02		35 mm
SL 03	SP 03	59 mm
SL 04		83 mm
SL 05	SP 05	107 mm



ProLine Bar Radiators

Meinertz ProLine Bar Radiator

The Meinertz ProLine Bar Radiator is a radiator constructed from vertically arranged steel tubes. The bar radiator with a depth of only 70 mm is ideally suited for the installation in alcoves, however it can also be mounted on a wall or as a stand-alone room divider. The bar radiator as a decorative heat source with its pure style and its rustic appearance is ideally adapted to today's architecture.

Dimensions

The bar radiator is manufactured from pressure-stable, rectangular precision steel tubes 70 x 11 x 2.0 mm with a free distance of 27 mm between the tubes.

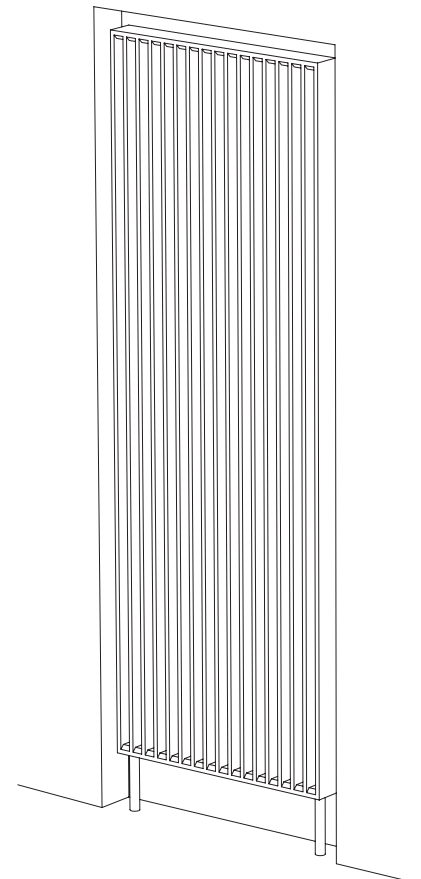
The width of the bar radiator is calculated according to the following formula:

$$\text{Width of the bar radiator} = \text{Number of tubes} \times (27 + 11) - 27 \text{ mm}$$

The bar radiator can be supplied, dependent on the width, in heights of up to 6 m.

Surface treatment

Meinertz ProLine Bar Radiators are supplied in a powder coated finish in RAL colour 7024 (Graphite Grey) or RAL 9007 (Grey Aluminium). At extra cost the bar radiators can be supplied with powder coating in other RAL colours.



Ordering information

For correct processing and execution of your order, please let us have the information detailed on the check list opposite.

Meinertz Danica A/S will be pleased to receive your order.

Should you have further questions or require further information, please contact us on:

Tel. +45 86 52 18 11
Fax +45 86 52 15 15
E-mail meinertz@meinertz.com

You can also visit us on our homepage, where references, with e.g. special custom-made solutions, are illustrated:

www.meinertz.com

Further Meinertz Products

Please, ask for our special leaflets or call us, if you require more information on the following products:

- Meinertz Finned Tubes
- Meinertz ConLine Convector
- Meinertz TopLine Convector

We reserve the right of design and dimensional changes for the purpose of technical progress.

When ordering, please let us have the following information:

1. **Company and department**
2. **Name of contact**
3. **Purchase order No. / Material requisition No.**
4. **Designation of installation or project, if applicable**
5. **Delivery address**
6. **Requested delivery week**
7. **ProLine model and type, e. g. PL07 09 5/4**
8. **ProLine length in mm**
9. **Socket positioning**
10. **Channel depth**
11. **RAL colour**

