

Welcome, new HaloX®.

Free space for planning, installation
and ambience.



Service. The easy way.

Innovative brand-name products such as KAISER's new HaloX® system stand out thanks to the product-oriented service which accompanies them. This ensures that, right from the start, you can take advantage of all the advantages of the new HaloX® for yourselves and your customers.

By using clear and intuitive films we explain all the benefits of the products and processes. Check-lists, system overviews and a clever product filter in the online catalogue on kaiser-elektro.de help you to select the right products. Tender texts and specifications and BIM data make professional planning easy for you. In addition, large clear posters give employees the information that they need wherever the new HaloX® is being used – on the building site, or in the concrete plant. The easy way, with the new HaloX®.

For all products where you see this icon  you can find informative films showing function and fitting on our www.kaiser-elektro.de website and on our www.youtube.de/kaiserelektro youtube channel. The QR codes give you fast, easy access via your smartphone.



Product films on-site mixed concrete
www.kaiser-elektro.org/gb59



Product films precast concrete
www.kaiser-elektro.org/gb60



Online configurator



Suitable housings are recommended on the basis of the luminaire or loudspeaker dimensions.
www.kaiser-elektro.org/haloxconfigurator

Everything about the new HaloX®:
www.kaiser-elektro.de



BIM data for planning:
<https://kaiser.partcommunity.com>

Specification texts:
www.ausschreiben.de/katalog/Kaiser

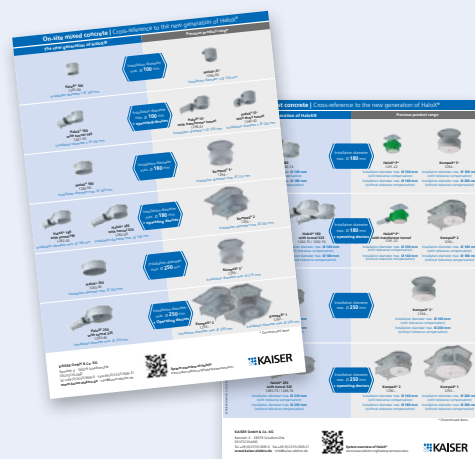


Poster on-site mixed concrete + precast concrete
www.kaiser-elektro.org/systemhaloxposter/en



◀ **System overviews**
Recoding list ▶

www.kaiser-elektro.org/haloxsystemoverviews



Installation housing for concrete construction



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HaloX®

Free space for planning, installation and ambience.



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HaloX® for on-site mixed concrete



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HaloX® for retrofitting in concrete ceilings



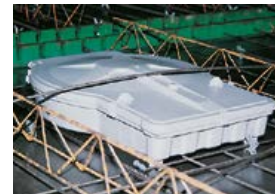
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HaloX® for precast concrete



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KompaX®



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KompaX® 1



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KompaX® 2



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KompaX® accessories



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Service

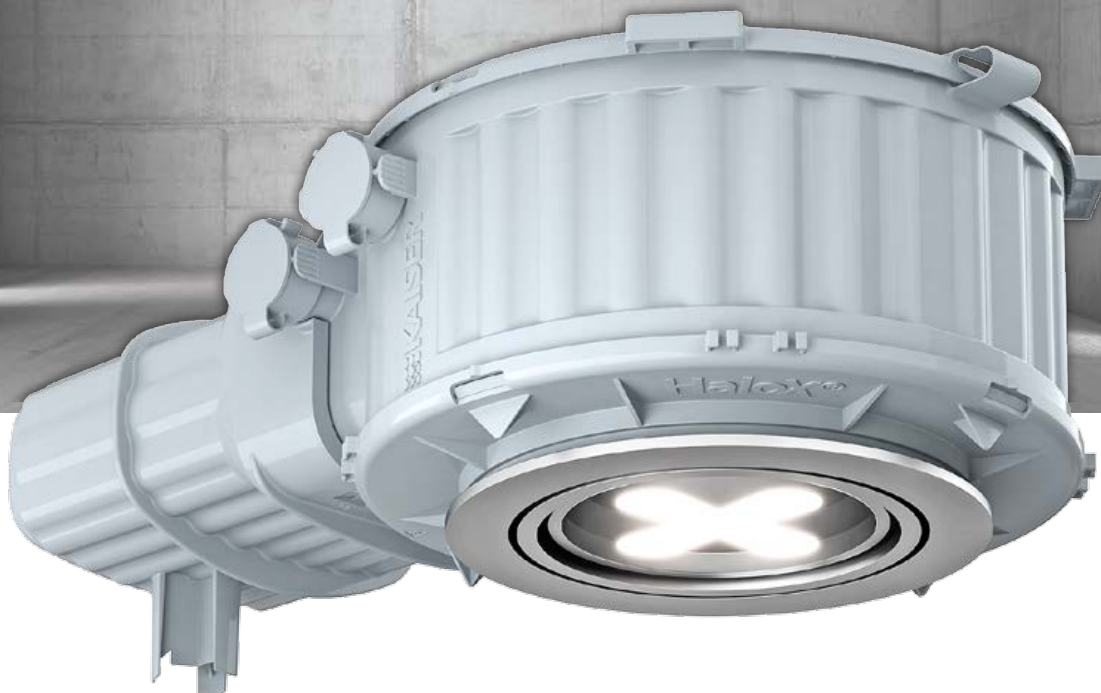
Technical information
Directories



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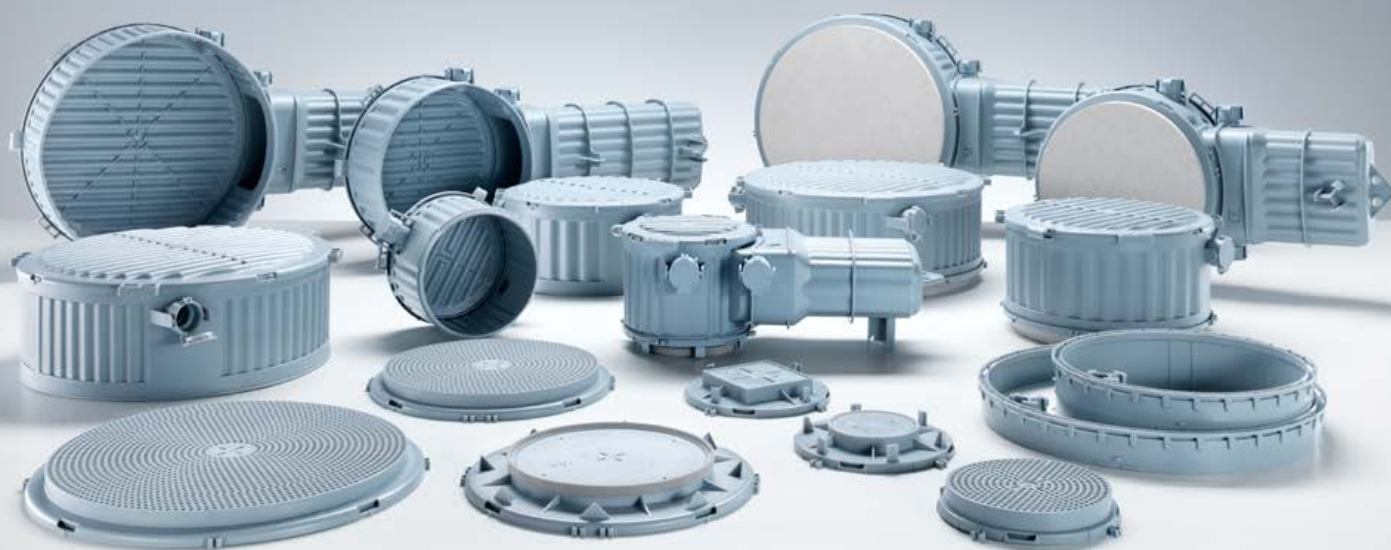
Welcome, new HaloX®!

For luminaires. For loudspeakers.



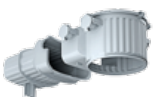
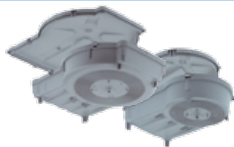
- Wave-shaped surface for optimal heat dissipation.
- Toolless conduit entry.
- For on-site mixed concrete and precast concrete.

Installation housings for concrete construction



Installation housings for concrete

- Free space for luminaires and loudspeakers in concrete ceilings and walls
- Modular and flexible for all installation diameters and depths
- For on-site mixed concrete and precast concrete
- Optionally for facing concrete
- Toolless combination entry for M20/M25 conduits – can also be closed again
- Maximum contact surface to the concrete ensures optimal thermal management
- Shape-retaining and loadable
- All housings are available with and without a tunnel
- Housings and front parts are sturdily latched together and can be aligned later as required

	 System HaloX® 100 For luminaires and loudspeakers p. 10	 System HaloX® 180 For luminaires and loudspeakers p. 10/23	 System HaloX® 250 For luminaires and loudspeakers p. 10/23	 System KompaX®1/ KompaX®2 For luminaires and loudspeakers p. 28
Installation dimensions for luminaire, loudspeaker				
max. installation diameter luminaire/loudspeaker	100 mm	180 mm	250 mm	300 mm
max. installation depth luminaire/loudspeaker	110 mm	110 mm	110 mm	110 mm
Use in facing concrete	•	•	•	•
For universal installation diameters	•	•	•	•
Installation option				
Ceiling installation	•	•	•	•
Wall installation	•	•	•	-
Concreting method				
On-site mixed concrete	p. 10	p. 10	p. 10	p. 28
Precast concrete	-	p. 23	p. 23	p. 28



HaloX®

Free space for planning, installation and ambience.

One system for all situations



HaloX® for on-site mixed concrete

The modular housing system for ceilings and walls is available in three housing sizes with fixed or variable installation diameters up to 250 mm.

p. 10



HaloX® for precast concrete

The modular housing system for walls and ceilings is available in two housing sizes with fixed or variable installation diameters up to 250 mm (up to 210 mm with tolerance compensation).

p. 23



HaloX® for retrofitting

HaloX® for the retrofitting of installation housings in slab ceilings and solid ceilings. After a core drilling has been made, the housings can be expanded in accordance with the ceiling thickness.

p. 20

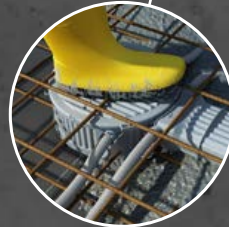
One system for all situations – for fitting in on-site mixed concrete, the front parts can be nailed to the working formwork. Prefix® installation sets are available for fixing to the opposing formwork. For precast concrete, the housings can be fitted using glue or a magnet.



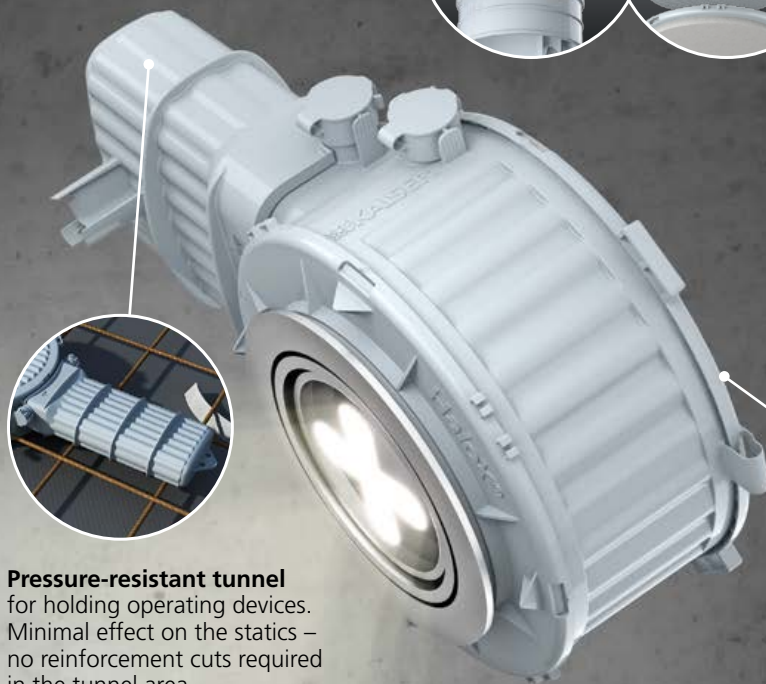
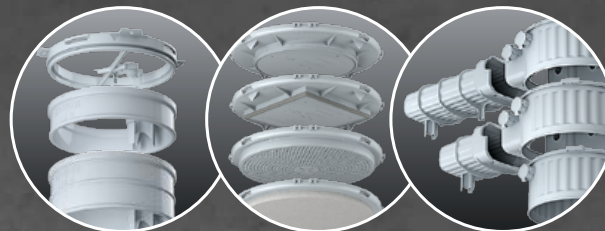
Combination entry for M20/M25 conduits – toolless opening technology with secure conduit retention and depth stop with no need for internal shortening of the conduits. Can be repopulated for later alterations or incorrect population.



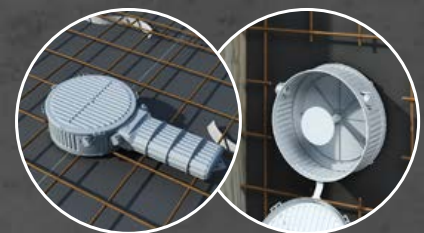
Shape-retaining and loadable. Compact housing with stabilising wave profile provides the necessary stability during concreting – even under extreme loads.



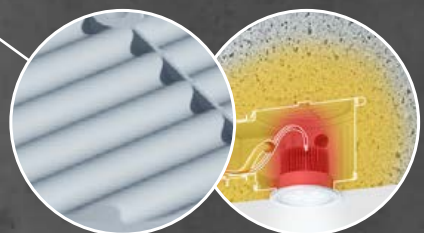
Continuous housing system – modular, flexible for luminaires and loudspeakers in all heights and with installation diameters up to 250 mm.



Pressure-resistant tunnel for holding operating devices. Minimal effect on the statics – no reinforcement cuts required in the tunnel area



For ceilings and walls



Wave-shaped surface profile ensures maximum housing surface for optimal heat dissipation via the concrete



HaloX® concrete installation housing

The new HaloX® housing system offers space for new light or sound in concrete ceilings and walls. Shape-retaining, loadable and in a modular design, the HaloX® system provides a secure installation compartment for loudspeakers and luminaires with LED, halogen or compact fluorescent lamps. Round, square or universal front parts ensure that any device up to a ceiling cut-out of 250 mm can be installed, even when facing concrete is required. Optional extension rings provide more space for greater installation depths. The toolless combination entry for M20/M25 conduits is easy to open and, even with incorrect occupancy, is easily closed again. It provides secure conduit retention with depth stop, so there is no need for later internal shortening of the conduits.

- For on-site mixed concrete and precast concrete - for wall and ceiling
- For luminaires and loudspeakers with installation diameters up to 250 mm
- All housings available with and without a tunnel
- Toolless opening technology for entries M20/M25
- Optimal thermal management on the basis of maximum surface contact to the concrete
- Minimal effect on the statics - no cuts to the reinforcement required in the tunnel area



Fitting



HaloX® with innovative toolless opening technology.



Toolless combination entry M20/M25 - secure with high retention force. No internal shortening of conduits is necessary.



HaloX® housings are available with and without a tunnel - in all sizes.



Shape-retaining, loadable and easily fitted. Safe place for new light or sound.



Shape-retaining, resilient and easy to install. HaloX® ensures a secure place for new light or the modern sound provision.



Minimal effect on statics because cuts to the reinforcement are only necessary in the area of the housing.



The high contact surface of the housings conducts the heat directly away via the concrete and in this way prevents excessively high temperatures in the housing.

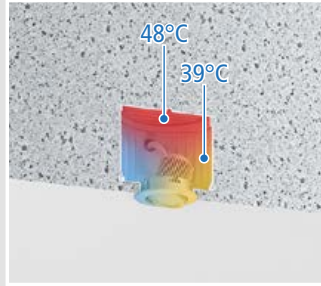


HaloX® creates a secure installation compartment for luminaires and loudspeakers in concrete ceilings and walls.

Temperature management for HV LED and LV LED luminaires



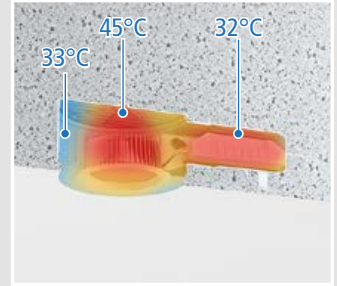
230V built-in LED luminaire with 68 mm installation diameter



Temperature profile 230V built-in LED luminaire max. 20 W



LV LED luminaire installation diameter 140 mm

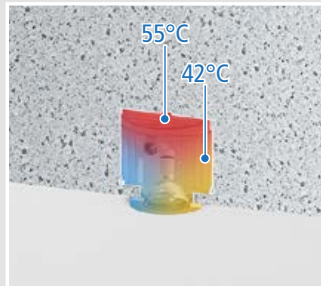


Temperature profile LV LED luminaire max. 35 W

Temperature management for HV halogen and TC luminaires



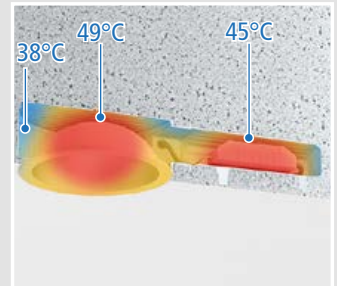
230V built-in luminaire with 100 mm installation diameter



Temperature profile HV halogen luminaire max. 75 W (230V)

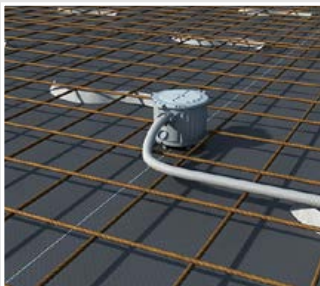


Installation downlight TC-TEL 2 x 26 W with installation diameter 215 mm



Temperature profile installation downlight TC-TEL with 2 x 26 W

Connection conditions and switching examples for LED and LV halogen luminaires



Connection and conduit entry for a 230V LED luminaire

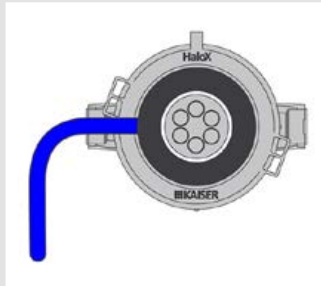
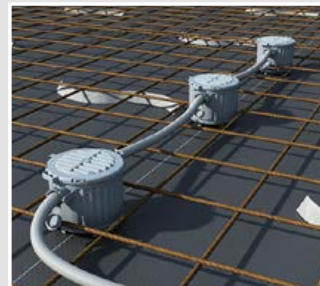
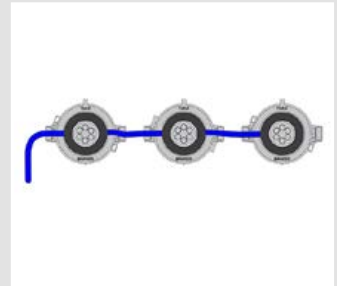


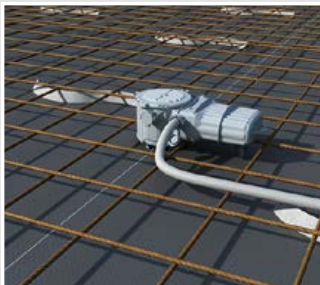
Diagram of single circuit



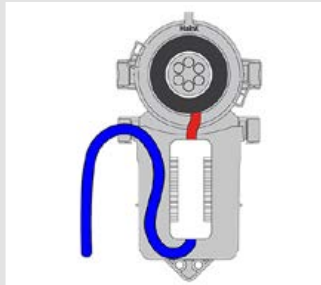
Group switching HV halogen luminaires



Schematic diagram of group switching



Connection and conduit entry LED luminaire with operating device



Schematic diagram of luminaire with operating device

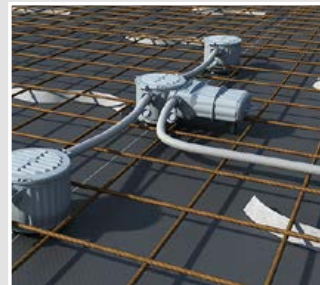
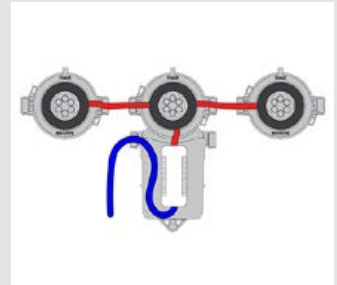


Diagram of group switching with one driver for more than one luminaire



Schematic diagram of group switching with an operating device

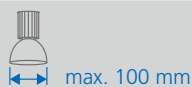
HaloX® system for on-site mixed concrete

For luminaires and loudspeakers

System overview of HaloX® for on-site mixed concrete

1 Installation space for luminaires / loudspeakers and operating devices

without additional space for operating devices



Additional space for operating devices



up to max. 150 x 90 x 50 mm



Additional space for larger operating devices

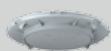


up to max. 280 x 90 x 50 mm



2 Installation diameter for luminaires/loudspeakers

round
Front parts round



Ø 68-100 mm
p. 15

Ø 100-180 mm
p. 17

Ø 180-250 mm
p. 18

square
Front parts square



68x68 - 75x75 mm
p. 16

—

—

Facing concrete: round
Front parts with elastomer seal for facing concrete



Ø 68-100 mm
p. 16

Ø 100-180 mm
p. 17

Ø 180-250 mm
p. 18

Facing concrete: square
Front parts square with elastomer seal for facing concrete



68x68 - 75x75 mm
p. 16

—

—

universal
Universal front part plastic (a) or mineral fibreboard (b)



Ø max. 100 mm
p. 16

Ø max. 180 mm
p. 17

Ø max. 250 mm
p. 18

specific
Individual Styrofoam moulded parts (optional for facing concrete)



p. 19

p. 19

p. 19

3 Installation depth



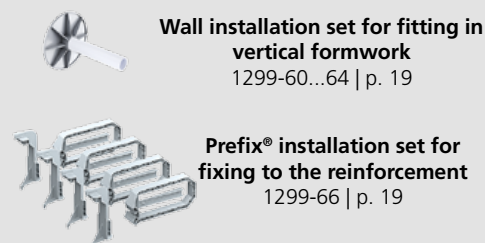
Installation height
> 110 mm



4 Accessories for wall installation



Wall installation in vertical formwork



Concrete installation housing HaloX® (on-site mixed concrete)

The shape-retaining HaloX® system has a modular design for fitting in on-site mixed concrete. Three housing diameters with a large number of round and square and universal front parts make possible integration of all built-in luminaires with LED, halogen or compact fluorescent lamps and loudspeakers up to a ceiling exit of 250 mm, including in facing concrete. With a tunnel, the system provides sufficient space for operating devices such as LED drivers. Optional intermediate frames to increase the installation depth can be mounted above or underneath the housing. All the front parts are moisture-repellent and can be positioned exactly and nailed on even before the first reinforcement is laid. This prevents any shifting of the front parts or housings when the reinforcement is laid. Housings with a tunnel are available for the installation of operating devices (e.g. LED drivers, ballast devices) and from which supply to luminaire or loudspeaker housings without a tunnel can be carried out. Toolless combination entry for M20/M25 conduits is easy to open and close again even in the event of incorrect occupancy. It offers secure conduit retention with depth stop, so there is no need for later internal shortening of the conduits. After pouring, the fixed front parts can be opened like a traditional concrete building box with a targeted blow of the hammer. The universal front parts have a honeycomb structure and are moisture-resistant, so if necessary plaster can be applied. Standard cutting tools e.g. MULTI 4000 can be used to create the installation opening.

- For walls and ceilings
- For luminaires and loudspeakers with installation diameters up to 250 mm
- Housings and front parts are latched together securely and sturdily and can also be aligned later as required
- All housing sizes are available with and without a tunnel
- Toolless opening technology for entries M20/M25
- Optimal thermal management on the basis of maximum surface contact to the concrete
- Minimal effect on the statics - no cuts to the reinforcement required in the tunnel area



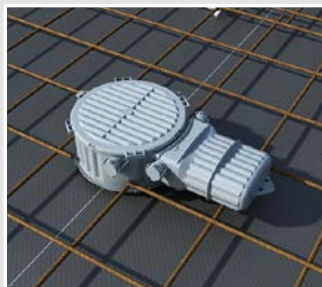
HaloX® system for on-site mixed concrete

For luminaires and loudspeakers

Ceiling installation



Nail the front part onto the formwork. After latching the housing on, it can be turned by 360° for alignment.



Minimal effect on the statics because cuts to the reinforcement are only necessary in the area of the housing.



By using an intermediate ring, the installation depth can be increased above or underneath the housing.



Toolless combination entry of M20/M25 conduits with conduit stop - no later shortening of the conduits.



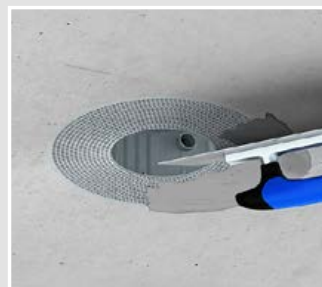
Sturdy and shape-retaining fitting.



After striking the formwork, open the front part with one hammer blow (e.g. 1282-65).

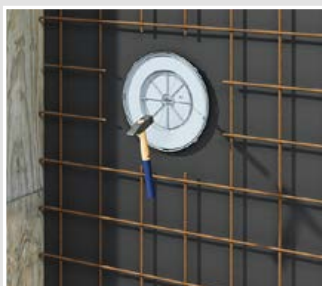


Easy and variable creation of the installation opening in the universal front part with e.g. 1083-10.



When the universal front part (e.g. 1281-10) is used, smooth the edge area if necessary.

Wall installation



Use nails to fasten the front part to the formwork.



When using the housing with a tunnel, align it vertically downwards.



When installing HaloX® 180/250, in addition use wall installation set 1299-xx.



Toolless combination entry for conduits M20/M25.

HaloX® system for on-site mixed concrete

For luminaires and loudspeakers

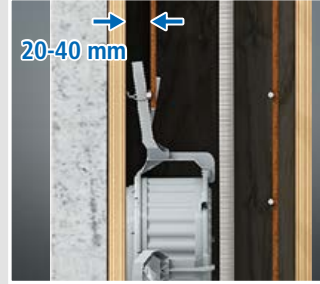
Wall installation fitting for opposing formwork



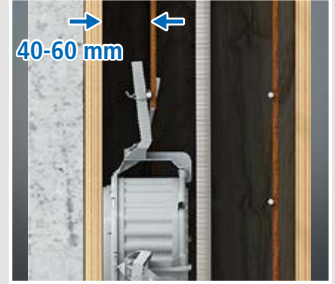
For fitting to the opposing formwork, Prefix® installation sets 1299-65 for HaloX® 100 and 1299-66 for HaloX® 180/250 are available as an option.



When fitting HaloX® 180/250, also use wall installation set 1299-60.



The Prefix® installation clamps can be latched-on on both sides and are suitable for concrete coverings of 20-40 mm...



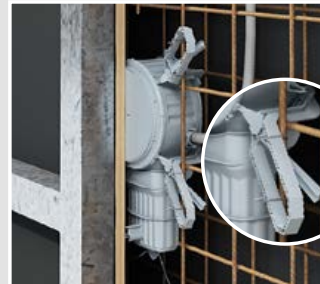
... and 40-60 mm.



Following pre-fixing by using Prefix® installation clamps, both your hands are free to carry out fast, secure fixing to the reinforcement with tie lugs.



Now the housing can be populated with M20/M25 conduits – no tools necessary.



Concrete cover after installation with catch mechanism Prefix® wing for 20-40 mm concrete covering.



Concrete covering after installation with catch mechanism Prefix® wing for concrete covering 40-60 mm.

Wall luminaire installation



The concreting process can start after positioning of the opposing formwork.



After striking the formwork, open the front part with one hammer blow (e.g. 1282-65).



Easy and variable cutting of the installation opening in the universal front part (e.g. with 1089-00).



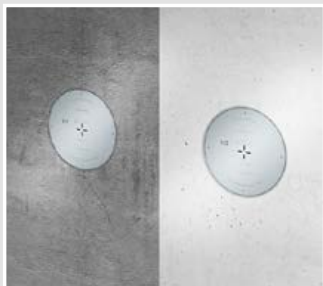
If the universal front part (e.g. 1281-10) is used, apply plaster as necessary.

HaloX® system for on-site mixed concrete

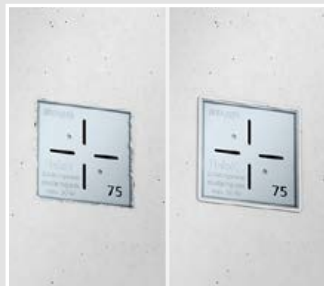
For luminaires and loudspeakers

Fitting information for front parts

Front parts with defined exit sizes are available for all housing sizes, including for facing concrete. Styrofoam mouldings are available for individual installation openings in almost any shape; universal mouldings are suitable for variable or as-yet-undefined ceiling exits.



Round front parts with and without elastomer seal.



Square front parts with and without elastomer seal.



Styrofoam mouldings for individual cut-outs in any shape and size (with and without elastomer seal).



Universal front parts for variable or as-yet-undefined ceiling cut-outs.

Position/alignment and wall installation



Position and aligning

The snap-in front parts permit a change to the position of the tunnel after nailing.



Wall installation

For wall installation (housing Ø 180 and Ø 250), use installation set for inner-side support in order to guarantee the secure installation compartment.

Extension rings

Intermediate rings are available to enlarge the installation compartment



HaloX® Ø 100: front extension 25 or 50 mm (Art. No. 1281-25, -50).



HaloX® Ø 180: front extension 25 or 50 mm (Art. No. 1282-25, -50)



HaloX® Ø 180: rear extension 25 or 50 (Art. No. 1282-25, -50)



HaloX® Ø 250: extension 25 or 50 mm front or rear (Art. No. 1283-25, -50)

HaloX® system for on-site mixed concrete

For luminaires and loudspeakers

HaloX® (on-site mixed concrete)

- toolless combination entry for M20/M25 conduits
- conduit entry limit to prevent the need for internal shortening of the conduit



HaloX®	HaloX® 100	HaloX® 180	HaloX® 250
Ceiling exit (CE) Ø	0-100 mm	0-180 mm	0-250 mm
max. installation depth luminaire / loudspeaker	110 mm	110 mm	110 mm
LED wattage max.	20 Watt	35 Watt	45 Watt
Lamp wattage max.	50 Watt	75 Watt	100 Watt
Housing diameter Ø	130 mm	210 mm	280 mm
Depth incl. front part	120 mm	120 mm	120 mm
Combination entry for M20/M25 conduits	2	2	2
Art. No.	1281-00	1282-00	1283-00
Inner packaging/shipping	- / 10	- / 10	- / 10
PG 150 Price in EUR/100			

HaloX® with transformer tunnel (on-site mixed concrete)

- toolless combination entry for M20/M25 conduits
- conduit entry limit to prevent the need for internal shortening of the conduit
- no reinforcement cuts in tunnel area



HaloX®	HaloX® 100	HaloX® 180	HaloX® 180	HaloX® 250
Ceiling exit (CE) Ø	0-100 mm	0-180 mm	0-180 mm	0-250 mm
max. installation depth luminaire / loudspeaker	110 mm	110 mm	110 mm	110 mm
LED wattage max.	20 Watt	35 Watt	35 Watt	45 Watt
Lamp wattage max.	50 Watt	75 Watt	75 Watt	100 Watt
Housing diameter Ø	130 mm	210 mm	210 mm	280 mm
Depth incl. front part	120 mm	120 mm	120 mm	120 mm
Tunnel length	190 mm	190 mm	325 mm	325 mm
Tunnel width	140 mm	140 mm	140 mm	140 mm
Tunnel height	85 mm	85 mm	85 mm	85 mm
Combination entry for M20/M25 conduits	4	4	4	4
Art. No.	1281-30	1282-30	1282-40	1283-40
Inner packaging/shipping	- / 10	- / 10	- / 10	- / 10
PG 150 Price in EUR/100				

HaloX® 100 front parts

- matches Art. No. 1281-XX and 1290-30 housing



Ceiling exit (CE) Ø	Min. luminaire covering Ø	Art. No.	Inner packaging/shipping	PG 150 Price in EUR/100
68 mm	75 mm	1281-01	- / 10	
75 mm	82 mm	1281-02	- / 10	
80 mm	87 mm	1281-03	- / 10	
85 mm	92 mm	1281-04	- / 10	
90 mm	97 mm	1281-05	- / 10	
95 mm	102 mm	1281-06	- / 10	
100 mm	107 mm	1281-07	- / 10	

HaloX® system for on-site mixed concrete

For luminaires and loudspeakers

HaloX® 100 front parts for facing concrete

- in facing concrete version
- elastomer seal with flexible sealing edge
- prevents ingress of concrete, discolouring and sand blast dust
- for exact flush finishes in facing concrete without additional reworking
- matches Art. No. 1281-XX and 1290-30 housing



Ceiling exit (CE) Ø	Min. luminaire covering Ø	Art. No.	Inner packaging/shipping	PG 150 Price in EUR/100
68 mm	80 mm	1281-61	- / 8	
75 mm	87 mm	1281-62	- / 8	
80 mm	92 mm	1281-63	- / 8	
85 mm	97 mm	1281-64	- / 8	
90 mm	102 mm	1281-65	- / 8	
95 mm	107 mm	1281-66	- / 8	
100 mm	112 mm	1281-67	- / 8	

HaloX® 100 front parts, square

- matches Art. No. 1281-XX and 1290-30 housing



Ceiling exit (CE) Ø	68 x 68 mm	75 x 75 mm
Min. luminaire covering	75 x 75 mm	82 x 82 mm
Art. No.	1281-08	1281-09
Inner packaging/shipping	- / 10	- / 10
PG 150 Price in EUR/100		

HaloX® 100 front parts, square for facing concrete

- in facing concrete version
- elastomer seal with flexible sealing edge
- prevents ingress of concrete, discolouring and sand blast dust
- matches Art. No. 1281-XX and 1290-30 housing



Ceiling exit (CE) Ø	68 x 68 mm	75 x 75 mm
Min. luminaire covering	75 x 75 mm	82 x 82 mm
Art. No.	1281-68	1281-69
Inner packaging/shipping	- / 8	- / 8
PG 150 Price in EUR/100		

HaloX® 100 universal front parts

- matches Art. No. 1281-XX and 1290-30 housing



Ceiling exit (CE) Ø	0-100 mm	0-100 mm
Universal mineral fibreboard	-	•
Universal plastic panel	•	-
Art. No.	1281-10	1281-11
Inner packaging/shipping	- / 10	- / 8
PG 150 Price in EUR/100		

HaloX® 180 front parts

· suitable for housings with Art. No. 1282-XX



Ceiling exit (CE) Ø	Min. luminaire covering Ø	Art. No.	Inner packaging/ shipping	PG 150 Price in EUR/100
100 mm	107 mm	1282-01	- / 10	
110 mm	117 mm	1282-02	- / 10	
125 mm	132 mm	1282-03	- / 10	
145 mm	152 mm	1282-04	- / 10	
160 mm	167 mm	1282-05	- / 10	
180 mm	187 mm	1282-06	- / 10	

HaloX® 180 front parts for facing concrete

· suitable for housings with Art. No. 1282-XX



Ceiling exit (CE) Ø	Min. luminaire covering Ø	Art. No.	Inner packaging/ shipping	PG 150 Price in EUR/100
100 mm	112 mm	1282-61	- / 10	
110 mm	122 mm	1282-62	- / 10	
125 mm	137 mm	1282-63	- / 10	
145 mm	157 mm	1282-64	- / 10	
160 mm	172 mm	1282-65	- / 10	
180 mm	192 mm	1282-66	- / 10	

HaloX® 180 universal front parts

· suitable for housings with Art. No. 1282-XX



Ceiling exit (CE) Ø	0-180 mm	0-180 mm
Universal mineral fibreboard	-	•
Universal plastic panel	•	-
Art. No.	1282-10	1282-11
Inner packaging/shipping	- / 10	- / 10
PG 150 Price in EUR/100		

HaloX® system for on-site mixed concrete

For luminaires and loudspeakers

HaloX® 250 front parts

· suitable for housings with Art. No. 1283-XX



Ceiling exit (CE) Ø	Min. luminaire covering Ø	Art. No.	Inner packaging/shipping	PG 150 Price in EUR/100
180 mm	187 mm	1283-01	- / 10	
190 mm	197 mm	1283-02	- / 10	
200 mm	207 mm	1283-03	- / 10	
215 mm	222 mm	1283-04	- / 10	
240 mm	247 mm	1283-05	- / 10	
250 mm	257 mm	1283-06	- / 10	

HaloX® 250 front parts for facing concrete

· suitable for housings with Art. No. 1283-XX



Ceiling exit (CE) Ø	Min. luminaire covering Ø	Art. No.	Inner packaging/shipping	PG 150 Price in EUR/100
180 mm	192 mm	1283-61	- / 10	
190 mm	202 mm	1283-62	- / 10	
200 mm	212 mm	1283-63	- / 10	
215 mm	227 mm	1283-64	- / 10	
240 mm	252 mm	1283-65	- / 10	
250 mm	262 mm	1283-66	- / 10	

HaloX® 250 universal front parts

· suitable for housings with Art. No. 1283-XX



Ceiling exit (CE) Ø	0-250 mm	0-250 mm
Universal mineral fibreboard	-	•
Universal plastic panel	•	-
Art. No.	1283-10	1283-11
Inner packaging/shipping	- / 10	- / 10
PG 150 Price in EUR/100		

Replacement mineral fibreboard for HaloX® Ø 100, 180 and HaloX® Ø 250

· for front parts with Art. Nos. 1281-11, 1282-11 and 1283-11



Art. No.	1281-27	1282-27	1283-27
Inner packaging/shipping	- / 10	- / 10	- / 10
PG 150 Price in EUR/100			

Styrofoam moulded parts

- for individual installation openings (round, square)
- with maximum diameter up to 300 mm and max. height up to 50 mm
- for facing concrete requirement with elastomer seal
- for all housings with Art. No. 12XX-XX



Art. No. 1292-90

Price in EUR/100

Extension rings HaloX

- to increase installation depth



HaloX®	Height	max. installation depth luminaire / loudspeaker	For Art. No.	Art. No.	Inner packaging/shipping	PG 150 Price in EUR/100
HaloX® 100	10 mm	+ 10 mm	1281-xx/1290-30	1281-21	- / 10	
HaloX® 100	25 mm	+ 25 mm	1281-xx/1290-30	1281-25	- / 10	
HaloX® 100	50 mm	+ 50 mm	1281-xx/1290-30	1281-50	- / 10	
HaloX® 180	25 mm	+ 25 mm	1282-xx	1282-25	- / 10	
HaloX® 180	50 mm	+ 50 mm	1282-xx	1282-50	- / 10	
HaloX® 250	25 mm	+ 25 mm	1283-xx	1283-25	- / 10	
HaloX® 250	50 mm	+ 50 mm	1283-xx	1283-50	- / 10	

Wall installation set

- installation set for wall installation in vertical formwork
- 2-piece, consists of support element and seating bearing
- for HaloX® Ø 210 (1282-XX) and HaloX® Ø 280 (1283-XX)



For luminaire or loudspeaker installation height	Art. No.	PG 150 Price in EUR/100
100 mm	1299-60	
125 mm	1299-61	
150 mm	1299-62	
175 mm	1299-63	
200 mm	1299-64	

Prefix installation set

- installation set for wall installation
- for fixing to the opposing formwork



for HaloX® 100	•	-
for HaloX® 180/250	-	•
Art. No.	1299-65	1299-66
Inner packaging/shipping	- / 1	- / 1
PG 150 Price in EUR/100		

Retrofitting in concrete ceilings

For luminaires and loudspeakers

System overview of HaloX® for retrofitting



Installation diameter for luminaire/
loudspeaker max. 100 mm

1 Installation space for luminaires / loudspeakers and operating devices

without additional space for operating devices



Slab ceiling

Solid ceiling



**HaloX® 100
installation set**
1281-20 | p. 21

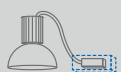


HaloX® 100
1281-00 | p. 15



**HaloX® housing for core drillings
in solid ceilings**
1290-30 | p. 22

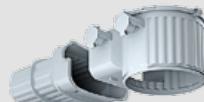
Additional space for operating devices



up to 150 x 90 x 50 mm



**HaloX® 100
installation set**
1281-20 | p. 21



**HaloX® 100
with tunnel 190**
1281-30 | p. 15

2 Thickness of the slab ceiling

Thickness of the slab ceiling > 50 mm



**Extension rings
10/25/50 mm**
1281-21/25/50 | p. 22

3 Installation diameters for luminaires/loudspeakers



round
Front parts round



Ø 68 - 100 mm
p. 15



square
Front parts square



68x68 - 75x75 mm
p. 16



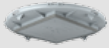
Facing concrete: round
Front parts round with elastomer
seal for facing concrete



Ø 68 - 100 mm
p. 16



Facing concrete: square
Front parts square with elastomer
seal for facing concrete



68x68 - 75x75 mm
p. 16

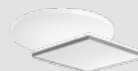


universal
Universal front part plastic (a)
or mineral fibreboard (b)



Ø max. 100 mm
p. 16

specific
Individual Styrofoam moulded parts
(optional for facing concrete)



p. 19

4 Installation depth



Installation height > 110 mm



**Extension rings
10/25/50 mm**
1281-21/25/50 | p. 22

HaloX®-O installation set

Retrofitting in slab ceilings

HaloX® 100 installation set can be retrofitted in existing slab ceilings (50 mm thickness and greater) with or without transformer tunnel.

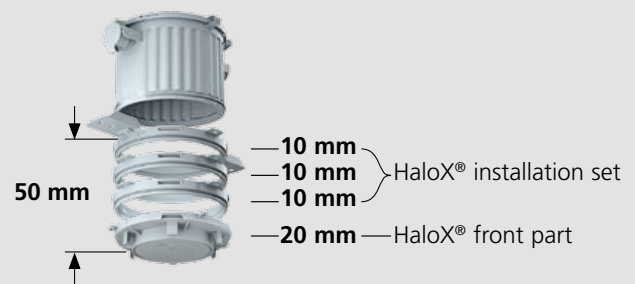
- For retrofitting in slab ceilings
- Minimal interference with statics
- Large selection of opening sizes up to Ø 100 mm
- Extension rings for bridging the slab ceiling element and for increasing the luminaire installation depth



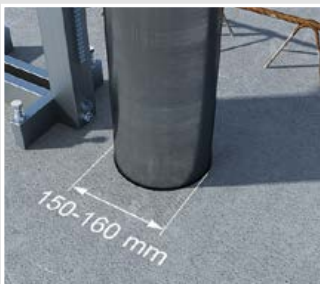
Note



For slabs thicker than 50 mm, the housing can be expanded in 10/25/50 mm steps using the extension rings.



HaloX®-O installation set assembly



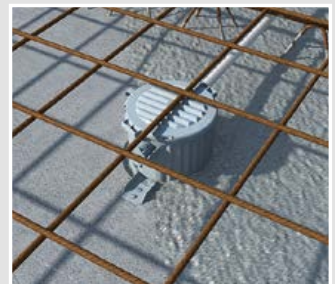
Cut drilling hole (Ø 150–160 mm) in the slab ceiling.



Combine the extension ring and front part to correspond to the ceiling thickness and installation depth.



Attach the housing and place in the drilling hole, mark and fasten. Install the conduit in the KSK entry.



If necessary, secure the fixed housing with wire to the reinforcement

HaloX®-O installation set

- for retrofitting of HaloX®-O housings into slab ceilings
- required hole size Ø 150–160 mm



HaloX®	HaloX® 100	HaloX® 100
Height	30 mm	10 mm
max. installation depth luminaire / loudspeaker	-	+ 10 mm
For Art. No.	1281-xx	1281-xx/1290-30
Art. No.	1281-20	1281-21
Inner packaging/shipping	- / 10	- / 10
PG 150 Price in EUR/100		

Order front part separately

Retrofitting in concrete ceilings

For luminaires and loudspeakers



For retrofitting

Retrofitting into solid ceilings

HaloX®-O concrete installation housing for solid concrete ceilings can be inserted into existing and retrofitted drilling holes.

- For retrofitting in solid ceilings
- Minimal effect on statics
- Quick installation with snap-in connections
- Robust construction, ideal for use on building sites
- Large selection of opening sizes up to Ø 100 mm



Installation



Use the universal opening cutter to make accurate conduit entries for the appropriate conduit sizes.



Join the housing components to correspond to the ceiling thickness and installation depth.



Now insert the complete housing, including the installation into the opening or drilling hole. Then ...



... fill the free space with concrete and compact it. A form-work board fitted underneath prevents the concrete from running out.

HaloX®-O housing for drilling holes in solid ceilings

- for retrofitting in solid ceilings
- required hole size Ø 150-160 mm
- take into consideration the ceiling thickness
 - at least 3 cm concrete cover is needed on top of the box



Diameter	130 mm
Ceiling exit (CE) Ø	0-100 mm
LED wattage max.	20 Watt
Lamp wattage max.	50 Watt
Art. No.	1290-30
Inner packaging/shipping	- / 10
PG 150 Price in EUR/100	

HaloX®-O extension rings

- for increasing luminaire fitting depth
- to be clipped between the front part and the housing
- multiple extensions possible



HaloX®	HaloX® 100	HaloX® 100	HaloX® 100
Height	10 mm	25 mm	50 mm
max. installation depth luminaire / loudspeaker	+ 10 mm	+ 25 mm	+ 50 mm
For Art. No.	1281-xx/1290-30	1281-xx/1290-30	1281-xx/1290-30
Art. No.	1281-21	1281-25	1281-50
Inner packaging/shipping	- / 10	- / 10	- / 10
PG 150 Price in EUR/100			

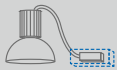
System overview of HaloX® for precast concrete

1 Installation compartment for luminaires / loudspeakers and operating devices

without additional space for operating devices

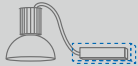


Additional space for operating devices



up to max. 150 x 90 x 50 mm

Additional space for larger operating devices



up to max. 280 x 90 x 50 mm



max. 140 mm
(with tolerance compensation)
max. 180 mm
(without tolerance compensation)

Adhesive attachment
one-piece housing with universal mineral fibre-board

Magnet attachment
one-piece housing with universal plastic plate for the magnet recess



max. 210 mm
(with tolerance compensation)
max. 250 mm
(without tolerance compensation)

Adhesive attachment
one-piece housing with universal mineral fibre-board

Magnet attachment
one-piece housing with universal plastic plate for the magnet recess

HaloX® magnet
1299-67 | p. 27

HaloX® magnet
1299-67 | p. 27



HaloX® 180
1282-71 | p. 25



HaloX® 180
1282-74 | p. 26



HaloX® 250
1283-71 | p. 25



HaloX® 250
1283-74 | p. 26



HaloX® 180 with tunnel 190
1282-72 | p. 25



HaloX® 180 with tunnel 190
1282-75 | p. 26



HaloX® 250 with tunnel 325
1283-73 | p. 25



HaloX® 250 with tunnel 325
1283-76 | p. 26

2 Installation depth



Installation height > 110 mm



Extension rings 25/50 mm
1282-25/50 | p. 26



Extension rings 25/50 mm
1283-25/50 | p. 26

3 Accessories for wall installation

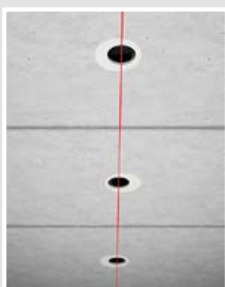


Wall installation in vertical formwork



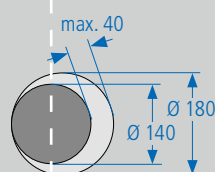
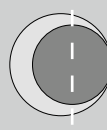
Wall installation set for fitting in vertical formwork
1299-60...64 | p. 19

Tolerance compensation

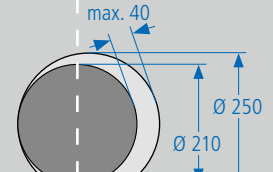
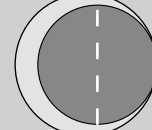


Depending on the installation diameter, at a later date you can correct inaccuracies which occurred during the laying of the slab ceilings. Use the KAISER VARIOCUT hole cutter to make accurate installation openings in the front parts.

HaloX® 180



HaloX® 250



HaloX® for precast concrete

For luminaires and loudspeakers



HaloX® concrete installation housing (precast concrete)

System HaloX® is designed as a single piece for fitting in precast concrete. The housings can easily be aligned on the formwork table by means of markings on the housings. The integrated mineral fibreboard allows easy glueing and the housings can be turned by 360° on the formwork table even after glueing. Housings with prefitted front parts to hold the magnet (Art. No. 1299-67) are available for magnet attachment. Laying tolerances which may occur during the fitting of panel elements are compensated for via the housing sizes in connection with a variable cut-out area. Because of the compact dimensions of the housings, the reinforcement can easily be placed around the housing. For luminaires or loudspeakers with installation depths equal to or greater than 110 mm, the installation compartment of the HaloX® housings can be increased on the on-site concrete building site by means of extension rings. The fitting of the conduits on-site takes place without the need for tools for M20/M25 conduits without any internal shortening of the conduits.

- For precast concrete slab ceilings and wall elements.
- 3 housing sizes with and without tunnel
- Single-part housings with integrated mineral fibreboard for easy adhesive fixing
- One-part housings with plastic panel for magnet attachment
- Toolless opening technology for entries M20/M25
- Compensation for laying tolerances on the concrete building site
- Optimal thermal management on the basis of maximum surface contact to the concrete



Installation



Mounting of the single-piece housing with mineral fibreboard.



Compact dimensions and the tunnel guarantee optimal concrete cover.



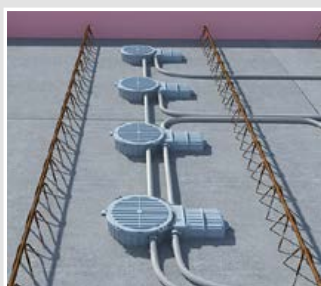
Prefabricated element with integrated HaloX® housings.



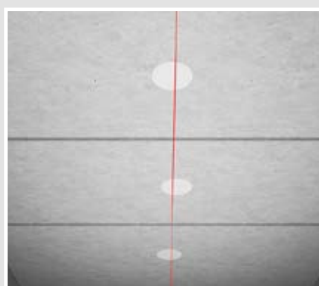
After drying, the prefabricated element is laid at the concrete building site.



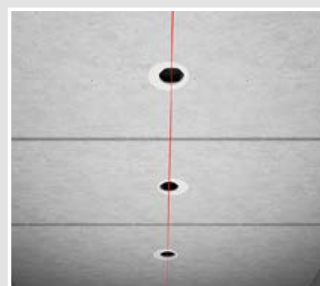
Toolless combination entry of M20/M25 conduits with conduit stop - no later shortening of the conduits.



After fitting of the conduits, concreting on the planned ceiling thickness takes place with the on-site mixed concrete process.



Panel element laying tolerances can be compensated for using the universal front parts (see system overview).



Create the installation opening of 68 mm e.g. with 1083-10.

HaloX® 180 / 250 for precast concrete for adhesive attachment

- one-part housing with integrated mineral fibreboard
- toolless combination entry for M20/M25 conduits
- conduit entry limit to prevent the need for inside shortening of the conduit



HaloX®	HaloX® 180	HaloX® 250
Ceiling exit (CE) Ø	0-180 mm	0-250 mm
max. installation depth luminaire / loudspeaker	110 mm	110 mm
LED wattage max.	35 Watt	45 Watt
Lamp wattage max.	75 Watt	100 Watt
Housing diameter Ø	210 mm	280 mm
Depth incl. front part	120 mm	120 mm
Combination entry for M20/M25 conduits	2	2
Art. No.	1282-71	1283-71
Inner packaging/shipping	- / 10	- / 10
PG 150 Price in EUR/100		

HaloX® with transformer tunnel (precast concrete)

- one-part housing with integrated mineral fibreboard
- toolless combination entry for M20/M25 conduits
- conduit entry limit to prevent the need for inside shortening of the conduit



HaloX®	HaloX® 180	HaloX® 180	HaloX® 250
Ceiling exit (CE) Ø	0-180 mm	0-180 mm	0-250 mm
max. installation depth luminaire / loudspeaker	110 mm	110 mm	110 mm
LED wattage max.	35 Watt	35 Watt	45 Watt
Lamp wattage max.	75 Watt	75 Watt	100 Watt
Housing diameter Ø	210 mm	210 mm	280 mm
Depth incl. front part	120 mm	120 mm	120 mm
Tunnel length	190 mm	325 mm	325 mm
Tunnel width	140 mm	140 mm	140 mm
Tunnel height	85 mm	85 mm	85 mm
Combination entry for M20/M25 conduits	4	4	4
Art. No.	1282-72	1282-73	1283-73
Inner packaging/shipping	- / 10	- / 10	- / 10
PG 150 Price in EUR/100			

HaloX® for precast concrete

For luminaires and loudspeakers

HaloX® 180 / 250 for precast concrete for magnet attachment

- one-part housing for containing the HaloX® magnet 1299-67
- toolless combination entry for M20/M25 conduits
- conduit entry limit to prevent the need for inside shortening of the conduit



HaloX®	HaloX® 180	HaloX® 250
Ceiling exit (CE) Ø	0-180 mm	0-250 mm
max. installation depth luminaire / loudspeaker	110 mm	110 mm
LED wattage max.	35 Watt	45 Watt
Lamp wattage max.	75 Watt	100 Watt
Housing diameter Ø	210 mm	280 mm
Depth incl. front part	120 mm	120 mm
Combination entry for M20/M25 conduits	2	2
Art. No.	1282-74	1283-74
Inner packaging/shipping	- / 10	- / 10
PG 150 Price in EUR/100		

HaloX® 180 / 250 with tunnel for precast concrete for magnet attachment

- one-part housing for containing the HaloX® magnet 1299-67
- toolless combination entry for M20/M25 conduits
- conduit entry limit to prevent the need for inside shortening of the conduit



HaloX®	HaloX® 180	HaloX® 180	HaloX® 250
Ceiling exit (CE) Ø	0-180 mm	0-180 mm	0-250 mm
max. installation depth luminaire / loudspeaker	110 mm	110 mm	110 mm
LED wattage max.	35 Watt	35 Watt	45 Watt
Lamp wattage max.	75 Watt	75 Watt	100 Watt
Housing diameter Ø	210 mm	210 mm	280 mm
Depth incl. front part	120 mm	120 mm	120 mm
Tunnel length	190 mm	325 mm	325 mm
Tunnel width	140 mm	140 mm	140 mm
Tunnel height	85 mm	85 mm	85 mm
Combination entry for M20/M25 conduits	4	4	4
Art. No.	1282-75	1282-76	1283-76
Inner packaging/shipping	- / 10	- / 10	- / 10
PG 150 Price in EUR/100			

Extension rings HaloX®

- to increase installation depth



HaloX®	HaloX® 180	HaloX® 180	HaloX® 250	HaloX® 250
Height	25 mm	50 mm	25 mm	50 mm
max. installation depth luminaire / loudspeaker	+ 25 mm	+ 50 mm	+ 25 mm	+ 50 mm
For Art. No.	1282-xx	1282-xx	1283-xx	1283-xx
Art. No.	1282-25	1282-50	1283-25	1283-50
Inner packaging/shipping	- / 10	- / 10	- / 10	- / 10
PG 150 Price in EUR/100				

HaloX® magnet

· for housings with Art. Nos. 1282-74/75/76 and 1283-74/76



Art. No. 1299-67

Inner packaging/shipping - / 10

PG 150 | Price in EUR/100

Replacement mineral fibreboard for HaloX® 180, HaloX® 250

· replacement mineral fibreboard 1282-27 for housings with Art. No. 1282-71/72/73

· replacement mineral fibreboard 1283-27 for housing with Art. No. 1283-71/73



Art. No. 1282-27

1283-27

Inner packaging/shipping - / 10

- / 10

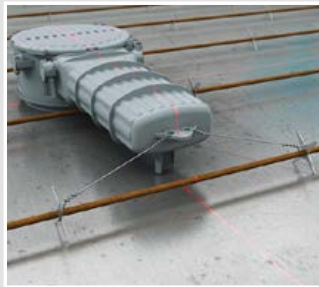
PG 150 | Price in EUR/100

Note

Housings with Art. Nos. 1282-76 and 1283-76 must be secured in the tunnel area against floating!



Peripheral bridges on the tunnel provide additional protection against possible floating. Rebars can be laid on these and tightened together with the reinforcement.



Alternatively, tie lugs fitted at the end of the tunnel provide additional protection against the possible floating of the tunnel in precast concrete.

KompaX® system for on-site mixed concrete and precast concrete

For luminaires and loudspeakers

KompaX® system overview

The KompaX® system is made up of various components which can be individually assembled according to use. Select the required components as follows:

1 Accessory type/ application



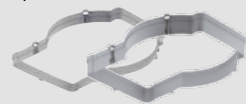
- Built-in luminaires or loudspeakers + additional components (e.g. ballast device)
- Ceiling exits Ø 160–300 mm



- Built-in luminaires or loudspeakers + additional components (e.g. ballast device)
- Ceiling exits Ø 100–200 mm

2 Installation depth

Optional:
increase in installation
depth to max. 200 mm*



Intermediate frame
25/50 mm

Optional:
increase in installation
depth to max. 200 mm*



Intermediate frame
25/50 mm

3 Ceiling type

**On-site mixed
concrete**

Slab ceilings
for installation in
concrete factories

**On-site mixed
concrete**

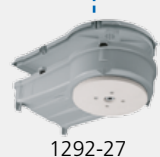
Slab ceilings
for installation in
concrete factories



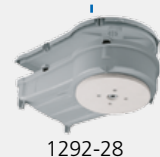
1293-27



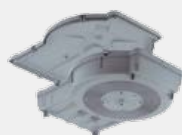
1293-28



1292-27



1292-28



1293-00



1292-00



KompaX®
front rings



KompaX®
front rings with
elastomer seal for
facing concrete



Individual
styrofoam
moulded parts



Individual styrofoam
moulded parts with
elastomer seal for
facing concrete



Replacement
mineral
fibreboards
for KompaX®

Variable opening
and
tolerance compen-
sation by means of
mineral
fibreboard

Variable opening
through the use of
individual front
parts

*) for 200 mm and greater, please contact us

KompaX® 1 concrete installation housing

for on-site mixed concrete and precast concrete (slab ceilings)

KompaX® 1 housing system for fitted downlights and loudspeakers in concrete ceilings with wide range of accessories for almost all applications. Height-adjustable with intermediate frames. The various front parts make it extremely practical.

- Housing system for fitted downlights and loudspeakers
- For on-site mixed concrete and precast concrete
- For precise installation openings from Ø 160–300 mm
- For device installation depths up to 200 mm*
- For ceiling thicknesses from 180–300 mm*
- Tolerance compensation during slab ceiling installation



LED



Luminaire selection

Built-in installation downlights with TC lamps, lamp output max. 90 W* (e.g. 3 x TC-D 26 W or 2 x TC-T 42 W). Use only built-in luminaires tested to EN 60598-1 suitable for installation on normally flammable building materials. Luminaire installation depth without intermediate frame max. 100 mm. Luminaire installation depth with intermediate frame max. 200 mm. (*Even higher system performance is possible with an intermediate frame)

Technical processing instructions/standards

- for ceiling thicknesses from 18 cm up to 30 cm. Please contact us if the ceiling thickness is greater than 30 cm.
- use only certified (EN 60598) luminaires which are suitable for direct installation on normally flammable materials
- luminaire installation heights up to 200 mm; please contact us for heights greater than 200 mm
- allows installation of additional lighting or loudspeaker accessories, EIB components, emergency supply units, etc.

Note

*For installation depths > 200 mm and ceiling thicknesses > 300 mm, please contact us. Telephone: +49 (0)2355.809.61

KompaX® 1 housing for on-site mixed concrete

- installation height for built-in luminaires or loudspeakers max. 100 mm
- consists of front and rear parts
- only in combination with front rings 1293-16 up to 1293-71, in facing concrete with front rings 1293-80 to 1293-87
- incl. support elements for installation heights 100/150/200 mm



3D animation



Length x Width x Depth	585 x 440 x 131 mm
Ceiling exit (CE) Ø	160-300 mm
LED wattage max.	45 Watt
Lamp wattage max.	90 Watt
Art. No.	1293-00
Inner packaging/shipping	- / 5
PG 150 Price in EUR/100	

KompaX® 1 system for concrete ceilings

For luminaires and loudspeakers

KompaX® 1 housing for on-site mixed concrete with mineral fibreboard

- for variable ceiling cut-outs up to 300 mm
- installation height for built-in luminaires or loudspeakers max. 100 mm
- consists of front ring, assembled mineral fibreboard and rear part
- incl. support elements for installation heights 100/150/200 mm



3D animation

Length x Width x Depth	585 x 440 x 131 mm
-------------------------------	---------------------------

Ceiling exit (CE) Ø	0-300 mm
---------------------	----------

LED wattage max.	45 Watt
------------------	---------

Lamp wattage max.	90 Watt
-------------------	---------

Art. No.	1293-27
-----------------	----------------

Inner packaging/shipping	- / 5
--------------------------	-------

PG 150 | Price in EUR/100

Accessories: Replacement mineral fibreboards for KompaX® 1,2,3, page 34

KompaX® 1 housing for slab ceilings

- for factory fitting
- installation height for built-in luminaires or loudspeakers max. 100 mm
- consists of front part, fitted mounting ring and rear part
- for ceilings of 18 cm total thickness and greater
- incl. support elements for installation heights 100/150/200 mm



Length x Width x Depth	585 x 440 x 131 mm
-------------------------------	---------------------------

Ceiling exit (CE) Ø	0-300 mm
---------------------	----------

LED wattage max.	45 Watt
------------------	---------

Lamp wattage max.	90 Watt
-------------------	---------

Art. No.	1293-15
-----------------	----------------

Inner packaging/shipping	- / 5
--------------------------	-------

PG 150 | Price in EUR/100

KompaX® 1 housing for slab ceilings with mineral fibreboard

- for factory fitting
- for variable ceiling cut-outs up to 300 mm
- installation height for built-in luminaires or loudspeakers max. 100 mm
- consists of front ring, assembled mineral fibreboard and rear part
- for ceilings of 18 cm total thickness and greater
- incl. support elements for installation heights 100/150/200 mm



Length x Width x Depth	585 x 440 x 131 mm
-------------------------------	---------------------------

Ceiling exit (CE) Ø	0-300 mm
---------------------	----------

LED wattage max.	45 Watt
------------------	---------

Lamp wattage max.	90 Watt
-------------------	---------

Art. No.	1293-28
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Inner packaging/shipping	- / 5
--------------------------	-------

PG 150 | Price in EUR/100

Accessories: Replacement mineral fibreboards for KompaX® 1,2,3, page 34

KompaX® 1 intermediate frame

- is clipped between the front and rear part of the KompaX® 1 housing



Increasing installation height	25 mm	50 mm
with support elements for installation heights of 125/175 mm	•	-
Art. No.	1293-13	1293-14
Inner packaging/shipping	5 / 10	5 / 10
PG 150 Price in EUR/100		

KompaX® 1 front parts

- other dimensions and shapes (for ceiling exit) are available for fast delivery in the form of Styrofoam moulded parts.



Ceiling exit (CE) Ø	Min. luminaire covering Ø	Height	Art. No.	Inner packaging/shipping	PG 150 Price in EUR/100
160 mm	167 mm	14 mm	1293-16	- / 10	
165 mm	172 mm	14 mm	1293-66	- / 10	
180 mm	187 mm	14 mm	1293-18	- / 10	
190 mm	197 mm	14 mm	1293-19	- / 10	
200 mm	207 mm	14 mm	1293-20	- / 10	
215 mm	222 mm	14 mm	1293-71	- / 10	
240 mm	247 mm	14 mm	1293-24	- / 10	
300 mm	307 mm	14 mm	1293-30	- / 10	

KompaX® 1 front rings in facing concrete version

- elastomer seal with flexible sealing edge
- prevents ingress of concrete, discolouring and sand blast dust
- for exact flush finishes in facing concrete without additional reworking



Ceiling exit (CE) Ø	Min. luminaire covering Ø	Height	Art. No.	Inner packaging/shipping	PG 150 Price in EUR/100
160 mm	172 mm	14 mm	1293-80	- / 10	
165 mm	177 mm	14 mm	1293-81	- / 10	
180 mm	192 mm	14 mm	1293-82	- / 10	
190 mm	202 mm	14 mm	1293-83	- / 10	
200 mm	212 mm	14 mm	1293-84	- / 10	
215 mm	227 mm	14 mm	1293-85	- / 10	
240 mm	252 mm	14 mm	1293-86	- / 10	
300 mm	312 mm	14 mm	1293-87	- / 10	

KompaX[®]2 system for concrete ceilings

For luminaires and loudspeakers



KompaX[®] 2 concrete installation housing for on-site mixed concrete and precast concrete (slab ceilings)

KompaX[®] 2 housing system for fitted downlights and loudspeakers in concrete ceilings with wide range of accessories for almost all applications. Height-adjustable with intermediate frames. The various front parts make it extremely practical.

- Housing system for fitted downlights and loudspeakers
- For on-site mixed concrete and precast concrete
- For precise installation openings from Ø 100–200 mm
- For device installation depths up to 200 mm*
- For ceiling thicknesses from 180–300 mm*
- Tolerance compensation during slab ceiling installation



LED

Luminaire selection

Built-in installation downlights with TC lamps, lamp output max. 90 W* (e.g. 3 x TC-D 26 W or 2 x TC-T 42 W). Use only built-in luminaires tested to EN 60598-1 suitable for installation on normally flammable building materials. Luminaire installation depth without intermediate frame max. 100 mm. Luminaire installation depth with intermediate frame max. 200 mm. (*Even higher system performance is possible with an intermediate frame)

Technical processing instructions/standards

- for ceiling thicknesses from 18 cm up to 30 cm. Please contact us if the ceiling thickness is greater than 30 cm.
- use only certified (EN 60598) luminaires which are suitable for direct installation on normally flammable materials
- luminaire installation heights up to 200 mm; please contact us for heights greater than 200 mm
- allows installation of additional lighting or loudspeaker accessories, EIB components, emergency supply units, etc.

Note

*For installation depths > 200 mm and ceiling thicknesses > 300 mm, please contact us. Telephone: +49 (0)2355.809.61

KompaX[®] 2 housing for on-site mixed concrete

- installation height for built-in luminaires or loudspeakers max. 100 mm
- consists of front and rear parts
- only in combination with front rings 1292-01 up to 1293-66, in facing concrete with front rings 1292-80 to 1293-84
- incl. support elements for installation heights 100/150/200 mm



3D animation



Length x Width x Depth	470 x 290 x 131 mm
Ceiling exit (CE) Ø	100-200 mm
LED wattage max.	45 Watt
Lamp wattage max.	52 Watt
Art. No.	1292-00
Inner packaging/shipping	- / 10
PG 150 Price in EUR/100	

KompaX® 2 housing for on-site mixed concrete with mineral fibreboard

- for variable ceiling cut-outs up to 180 mm
- installation height for built-in luminaires or loudspeakers max. 100 mm
- consists of front ring, assembled mineral fibreboard and rear part
- incl. support elements for installation heights 100/150/200 mm



3D animation

Length x Width x Depth 470 x 290 x 131 mm

Ceiling exit (CE) Ø 0-180 mm

LED wattage max. 45 Watt

Lamp wattage max. 52 Watt

Art. No. 1292-27

Inner packaging/shipping - / 10

PG 150 | Price in EUR/100

Accessories: Replacement mineral fibreboards for KompaX® 1,2,3, page 34

KompaX® 2 housing for slab ceilings

- for factory fitting
- installation height for built-in luminaires or loudspeakers max. 100 mm
- consists of front part, fitted mounting plate and rear part
- for ceilings of 18 cm total thickness and greater
- incl. support elements for installation heights 100/150/200 mm



Length x Width x Depth 470 x 290 x 131 mm

Ceiling exit (CE) Ø 0-200 mm

LED wattage max. 45 Watt

Lamp wattage max. 52 Watt

Art. No. 1292-35

Inner packaging/shipping - / 10

PG 150 | Price in EUR/100

KompaX® 2 housing for slab ceilings with mineral fibreboard

- for factory fitting
- for variable ceiling cut-outs up to 180 mm
- installation height for built-in luminaires or loudspeakers max. 100 mm
- consists of front ring, assembled mineral fibreboard and rear part
- for ceilings of 18 cm total thickness and greater
- incl. support elements for installation heights 100/150/200 mm



Length x Width x Depth 470 x 290 x 131 mm

Ceiling exit (CE) Ø 0-180 mm

LED wattage max. 45 Watt

Lamp wattage max. 52 Watt

Art. No. 1292-28

Inner packaging/shipping - / 10

PG 150 | Price in EUR/100

Accessories: Replacement mineral fibreboards for KompaX® 1,2,3, page 34

KompaX®2 system for concrete ceilings

For luminaires and loudspeakers

KompaX® 2 intermediate frame

- is clipped between the front and rear part of the KompaX® 2 housing



Increasing installation height	25 mm	50 mm
with support elements for installation heights of 125/175 mm	•	-
Art. No.	1292-13	1292-14
Inner packaging/shipping	5 / 10	5 / 10
PG 150 Price in EUR/100		

KompaX® 2 front rings

- other dimensions and shapes (for ceiling exit) are available for fast delivery in the form of Styrofoam moulded parts.



Ceiling exit (CE) Ø	Min. luminaire covering Ø	Height	Art. No.	Inner packaging/shipping	PG 150 Price in EUR/100
100 mm	107 mm	14 mm	1292-01	- / 10	
125 mm	132 mm	14 mm	1292-06	- / 10	
145 mm	152 mm	14 mm	1292-10	- / 10	
160 mm	167 mm	14 mm	1293-16	- / 10	
165 mm	172 mm	14 mm	1293-66	- / 10	
180 mm	187 mm	14 mm	1293-18	- / 10	
190 mm	197 mm	14 mm	1293-19	- / 10	
200 mm	207 mm	14 mm	1293-20	- / 10	

KompaX® 2 front rings in facing concrete version

- elastomer seal with flexible sealing edge
- prevents ingress of concrete, discolouring and sand blast dust
- for exact flush finishes in facing concrete without additional reworking



Ceiling exit (CE) Ø	Min. luminaire covering Ø	Height	Art. No.	Inner packaging/shipping	PG 150 Price in EUR/100
100 mm	112 mm	14 mm	1292-80	- / 10	
125 mm	137 mm	14 mm	1292-81	- / 10	
145 mm	157 mm	14 mm	1292-82	- / 10	
160 mm	172 mm	14 mm	1293-80	- / 10	
165 mm	177 mm	14 mm	1293-81	- / 10	
180 mm	192 mm	14 mm	1293-82	- / 10	
190 mm	202 mm	14 mm	1293-83	- / 10	
200 mm	212 mm	14 mm	1293-84	- / 10	

Replacement mineral fibreboards for KompaX® 1,2



For Art. No.	Art. No.	Inner packaging/shipping	PG 150 Price in EUR/100
1293-27	1293-97	- / 5	
1293-28	1293-98	- / 5	
1292-27	1292-97	- / 5	
1292-28	1292-98	- / 5	
1294-27	1294-97	- / 5	
1294-28	1294-98	- / 5	

Styrofoam moulded parts



KompaX® housing with Styrofoam moulded part for customised solutions. The mouldings are available in any shape (round, square, rectangular or triangular) and in various thicknesses or to suit your specific needs. They can be supplied ready-mounted to the housing or provided separately. A facing concrete version is also available. The Styrofoam moulded parts for facing concrete have an additional elastomer sheath, and its elasticity prevents the dry concrete from cracking.

- For individual installation openings
- Any shape possible (for round, square, rectangular and other installation openings)
- For on-site mixed concrete and precast concrete
- Prevents discolouring and sand blast dust in facing concrete version
- For exact flush finishes in facing concrete without reworking

Planning instruction

Almost every conceivable shape can be realised using the Styrofoam moulded parts. The maximum dimensions of the front parts (diameter/diagonals) result from the maximum dimensions of the respective housing front rings. Please note that the clamping range of luminaires and loudspeakers must be at least the thickness of the Styrofoam moulded parts plus 8 mm. In the case of Styrofoam moulded parts with a thickness of > 20 mm, take into account the support provided.



KompaX® Styrofoam moulded parts for ceiling exit (CE)

- all sizes and shapes which deviate from the existing KompaX® front rings for ceiling exits are available as Styrofoam moulded parts
- all Styrofoam facing concrete parts are also available in facing concrete design on request.
- the Styrofoam moulded parts can be attached to the housing before delivery or supplied separately with the housings
- Required ceiling cut-out up to max. Ø 300 mm and max. height 50 mm for round, square or rectangular installation openings. Other shapes possible on request.



Art. No.

1292-90

Price in EUR/100



Conduit stoppers

Conduit stoppers for secure, precise positioning of installation conduits in installation housings. They prevent conduits from being inserted too far and prevent them from falling out, even under extreme load.

- Guarantees concrete-tight connection of DIN EN conduits
- Prevents conduits from being inserted too far
- Prevents conduits from slipping out under high load
- Threaded connecting pieces for inch conduits in conduit stoppers



Installation



Use the universal opening cutter to make accurate conduit entries (Ø 21 mm).



Simply push flexible Ø 20 or Ø 25 mm DIN EN conduits into the conduit stopper.



This technology guarantees secure and tight conduit entry in all housings.



For Ø 5/8" or Ø 3/4" conduits, insert the threaded connecting piece into the conduit stopper.

Conduit stopper

- for luminaire or loudspeaker housings
- prevents conduits from being inserted too far
- secures conduit against falling out even under extreme load
- required opening Ø in the housing tunnel: 21 mm (created using universal opening cutter 1085-80)



For conduits to DIN EN outer Ø	20 mm	25 mm
Art. No.	1274-20	1274-25
Inner packaging/shipping	25 / 100	25 / 100
PG 130 Price in EUR/100		

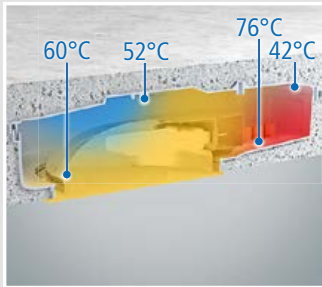
Threaded connecting pieces for inch conduits

- for insertion of smooth and corrugated 5/8" and 3/4" conduits
- in 1274-20 and 1274-25 conduit stoppers

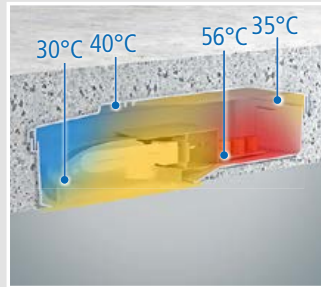


for inserting smooth and corrugated conduits	5/8", 3/4"
Art. No.	1074-04
Inner packaging/shipping	20 / 100
PG 130 Price in EUR/100	

Temperature profiles KompaX® 1, 2



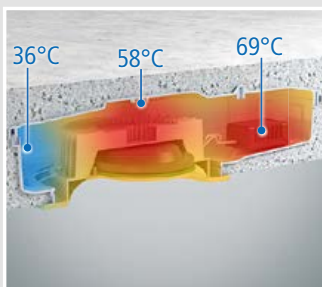
KompaX® 1
3 x TC-D 26 W, sealed version
of luminaires (matt safety glass
disc)



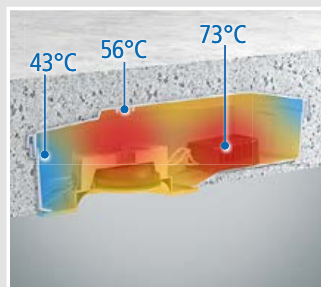
KompaX® 2
2 x TC-D 18 W, sealed version
of luminaires (matt safety glass
disc)



Temperature profiles KompaX® 1, 2



KompaX® 1
LED (45 W)



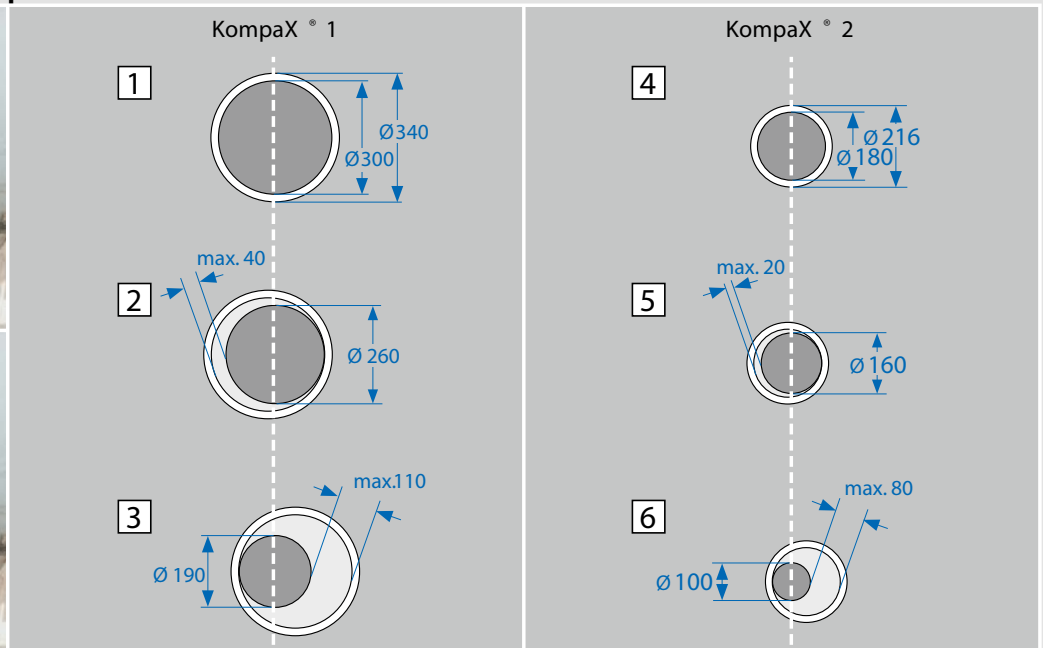
KompaX® 2
LED (41 W)



Note

Because of the considerable undershooting of the limit temperatures, higher system performances are possible. If you have questions, please contact our technical department (0049.2355.80961).

KompaX® tolerance compensation with mineral fibreboard

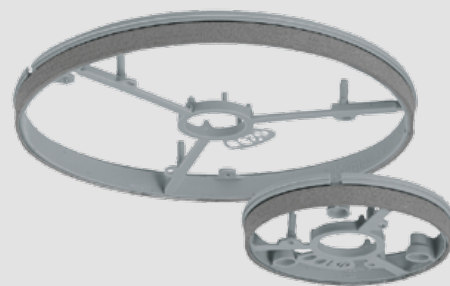


1 = CE max. 300 mm without tolerance compensation | 2 = CE max. 260 mm with 40 mm tolerance compensation (2 x 20 mm) | 3 = CE max. 190 mm with 110 mm tolerance compensation (2 x 55 mm) | 4 = CE max. 180 mm without tolerance compensation | 5 = CE max. 160 mm with 20 mm tolerance compensation (2 x 10 mm) | 6 = CE max. 100 mm with 80 mm tolerance compensation (2 x 40 mm)

Front rings for facing concrete

Front rings with elastomer sheathing for sharp outline ceiling cut-outs in facing concrete. The elasticity of the sheathing prevents the dry concrete from cracking.

- For exact flush finishes in facing concrete without reworking
- Prevents ingress of concrete
- Prevents discolouring and sand blast dust
- As a Styrofoam moulded part for round, square, rectangular and other installation openings



For perfect results, make sure the housing fits correctly, e.g. by bracing on the formwork and inserting an additional joist to restrict the formation of cracks.



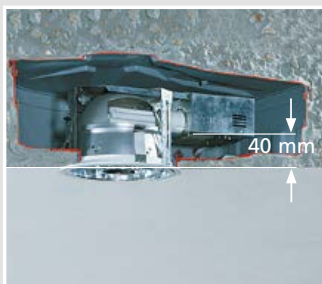
without elastomer seal



with elastomer seal

Installation notes

For installation of luminaires with an asymmetrical equipment carrier (e.g. for ballast devices) or loudspeakers with audio processors etc., the distance between the bottom edge of the accessory and the bottom edge of the concrete ceiling must be at least 40 mm.



Reducing the ceiling exit (CE) with front rings

If the required ceiling exit is smaller than the front ring used, please remove the cast-in front ring after removing the formwork, insert a smaller front ring or cut out the required dimension. Prime the remaining surface around the ceiling exit using for example thinned Styrofoam adhesive or Beto-Kontakt, and smooth it off.

KompaX® housing with mineral fibreboard

KompaX® housing with mineral fibreboard permits variable, neutral shape and accurate cut-outs for luminaires and loudspeakers. Inaccuracies arising during the installation of industrially prefabricated slab ceiling elements can be corrected using the mineral fibreboard. The mineral fibreboard always offers sufficient opportunities for adjustment. Depending on the installation diameter, you can retrospectively correct inaccuracies arising during the assembly or installation of slab ceilings.

- For luminaires and loudspeakers
- Accurate, variable installation openings
- Any cut-out shape possible
- Tolerance compensation during slab ceiling installation

Installation in on-site mixed concrete ceilings (KompaX® 1, 2)

Clip the front ring onto the housing and open the required conduit or cable entries. Position the prepared housing and fasten to the formwork using 4 nails. Feed in the conduits and insert the supplied support conduit (KompaX® 1 and 2 only). If necessary, mount the intermediate frame, then clip in the back part. To prevent upward movement, fasten the housing to the reinforcement using wires or cable ties. The ceiling can now be cast. After removing the formwork, use a fretsaw to saw into the visible front part to enable the luminaire or the loudspeaker to be mounted.



Clip the front ring onto the housing.



Attach the housing with 2 intermediate frames and a support conduit to the formwork.



Also secure the housing to the reinforcement.



Secure and firm seating of housings during concreting.



Open front part using a fretsaw.

Installation in slab ceilings

Pre-assembly in the concrete factory. Fasten the housing to the formwork table by applying at least four adhesive points to the housing (adhesive foil or hot glue). To prevent upward movement, fasten the housing to the reinforcement with wires or cable ties or by sliding steel bridges under the space frame. Then concrete up.



Final assembly on-site

After removing the installation instructions and the support element, make the required openings for cables and conduits. If the installation height needs to be increased, fit the intermediate frames. With KompaX® 1 and 2, insert the matching support element before re-closing the housing. Concreting can now take place.



Final assembly using mineral fibreboard

In the case of housings with mineral fibreboard, the ceiling cut-outs are marked out correctly aligned. Then cut installation openings through the mineral fibreboard and the housing base. Now fit the installation devices without any further reworking (smooth the surface if necessary).



Final assembly using mounting ring

For housings with installation rings, remove the formwork and all fixing screws and simply pull out the mounting rings or plates. Now mark the precise position of the installation openings so that the corresponding front rings can be inserted or screwed on. Prime the remaining surface between concrete edge and front ring using thinned Styrofoam adhesive, e.g. Betokontakt, and smooth it off. Use the fretsaw to cut the installation opening. After plastering and/or painting the ceiling, install the luminaires or loudspeakers.



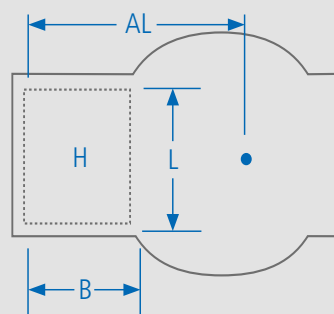
KompaX® for on-site mixed concrete and precast concrete (slab ceilings)



Installation dimensions of KompaX® 1 and 2

When installing luminaires, loudspeakers or electronic components in KompaX® housings, use the data provided by the luminaire or loudspeaker manufacturer to guide you. For the KompaX® housing, the following installation dimensions apply (excluding intermediate frame):

Housing	Installation depth	AL	L	B	H
KompaX® 1	100	330	270	160	60
KompaX® 2	100	290	190	160	60



Constructional information on concrete ceilings

To install KAISER installation housings in concrete, please refer to our work instructions and our installation instructions.

1. Statics

The dimensions of the universal housings ensure that they have only a small effect on the statics of concrete ceilings. However, when using this housing, always consider its effects on the static calculations. All values regarding number, size and distance between centres of the housings as well as the fire protection class of the ceiling must be agreed with the structural engineer.

Further points to be taken into account are:

- the housings must be arranged in line with the stress support axis of the reinforcement.
- the distance between centres of the housings must be at least 3 times the housing dimensions.
- supplementary reinforcement (joint beam) must be provided for all housings that break into the existing reinforcement if the statics calculations show that it is required.

2. Fire protection

Fire protection and the fire protection class of a concrete ceiling are only minimally affected by the fitting of luminaire and loudspeaker housings. From the technical fire protection viewpoint, no limitations are necessary on the axial spacing of HaloX® and KompaX® housings in F30 ceilings. In F90 ceilings the axial spacing of HaloX® housings should be at least 1 m and of KompaX® housings 1.3 m. Additional reinforcement must be put in place next to the housings.

The following table gives an overview of the necessary minimum thicknesses of ceilings and walls for fire protection classes F30 and F90.

All data is based on installation heights of the housing without intermediate frames or extension rings. Use float plaster or plaster of class A building materials. A technical fire protection certification can be provided on request.

3. Transmission of sound

KompaX® housings do not generally resonate since they are never fully open. The solid seating in the concrete ceiling does not amplify any vibrations which are registered. Please contact us if you require technical sound transmission certification.

4. Heat conduction/Heat protection

Heat from luminaires and loudspeakers built into HaloX® or KompaX® housings has little or no effect on the concrete and statics of a ceiling. Compared to metal concrete housings, the reflection of heat from the luminaires or loudspeakers is considerably lower. This improves the efficiency and working life of the luminaires and other operating components.

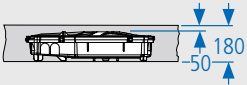
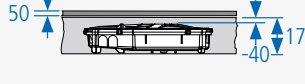
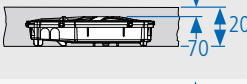
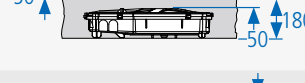
The creation of heat bridges leading to the 'dew point' being reached is avoided by the use of underfloor noise insulation panels and a top plaster layer or through heat insulating measures.

5. Electrical installation

In principle, only VDE approved luminaires and VDE approved fittings should be used; luminaires must conform to DIN VDE 0711/EN60598. The builder of the system retains responsibility for the selection of suitable equipment such as luminaires, ballast devices, loudspeakers or transformers, their materials and their correct installation according to the technical safety standards for installation, lighting and loudspeakers. The manufacturer reserves the right to make changes to the materials, design and product range.

Housing volume (dm³)					
	HaloX® 100	HaloX® 180	HaloX® 250	KompaX® 1	KompaX® 2
Housing	1.2	3.3	6.1	18	10
with tunnel 190	2.4	4.5	-	-	-
with tunnel 325	-	5.3	8.1	-	-
Volume increase with the use of extension rings/intermediate frames in dm³					
Extension ring/intermediate frame 10	0.11	-	-	-	-
Extension ring/intermediate frame 25	0.28	0.8	1.5	5	2.5
Extension ring/intermediate frame 50	0.56	1.6	3.0	10	5

Fire protection – minimum concrete covering according to fire resistance class

	KompaX® 1/2	HaloX® 100/180/250
EI 30 ceiling plastered		
EI 30 ceiling unplastered		
EI 60 ceiling plastered		
EI 60 ceiling unplastered		
EI 90 ceiling plastered		
EI 90 ceiling plastered		

Conduit stopper	36
Extension rings HaloX	19/26
HaloX® (on-site mixed concrete)	15
HaloX® with transformer tunnel (on-site mixed concrete)	15
HaloX® with transformer tunnel (precast concrete)	25
HaloX® 100 front parts	15
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Systems and solutions for the professional electrical installation.

Since 1904, KAISER has developed and manufactured systems and products as a basis for good installation. Planners and users benefit internationally from the practical solutions for their daily operations in all areas of installation.



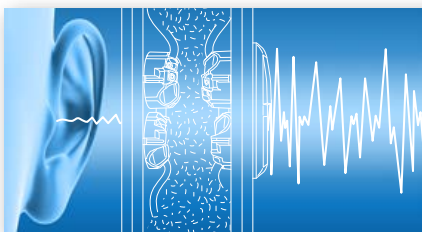
Energy efficiency

Innovative KAISER products support you in satisfying the requirements of the EU guidelines and the national regulations such as the Energy Conservation Regulations (EnEV).



Fire protection

KAISER fire protection systems offer you reliable protection for electrical installations in fire protection walls and ceilings.



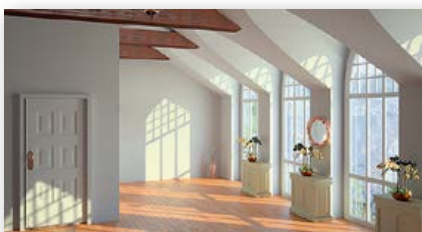
Sound insulation

KAISER's innovative sound insulation boxes ensure the structural requirements for sound insulation walls, even with pre-fitted installations.



Radiation protection

The use of the new radiation protection boxes maintains the wall's radiation protection without the need for any additional screening measures.



Refurbishment

KAISER has matching product system solutions which are used safely, consistently and in accordance with building-site practices for redeveloping, renovating and modernising work.

Technical information and advice

You will find more information about products, system solutions and communication media on our website:
www.kaiser-elektro.de

For additional questions or information, please contact our technical staff, who look forward to talking to you.
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