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■ Description

The new range of metal floor boxes has been developed to be installed in spaces that require supporting heavy loads, offering the possibility of being configured with power, voice, data and multimedia functions while maintaining their optimal functioning.

With the new range of metal floor boxes, a safe, robust and solid installation is achieved on concrete floors installations allowing to close the lid with the connected equipment, hiding the connections and avoiding tripping hazards..

The product is made entirely of steel to achieve a maximum load of 1,200 kilos and an IK10 degree of protection against impacts, maintaining an IP40 degree of protection against dust and liquids when the lid is completely closed.

The frame and the folding lid are made of AISI 304 stainless steel due to its great resistance to corrosion and being a very hygienic and heat-resistant steel.

■ Applications

The product design, the type of raw material used and its thickness allow the heavy loads required in buildings for the tertiary sector to be achieved, such as offices, retail, museums, hotels, hospitals, airports, train stations, car dealers and spaces with high traffic of people, such as universities, schools, shopping centers...

■ Available versions

The range of floor boxes are available in versions for 2, 3 and 4 double modules.

The screed box and the frame with the hinged lid are supplied separately as both components are installed at two different times.

A metal reinforcement is supplied along with the frame with hinged lid to provide greater robustness to the assembly.

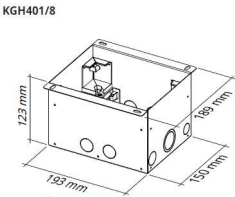
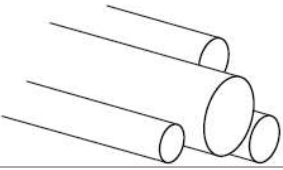
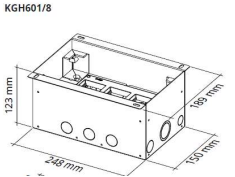
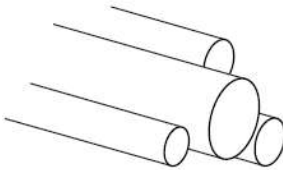
The product is supplied with all the necessary components to carry out a complete installation of the enclosure (metal reinforcement, mechanism-holder frame, metal divider plate, ground connections, installation manual...) requiring to acquire the functions to integrate into the floor box.

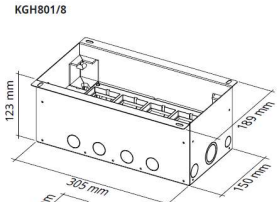
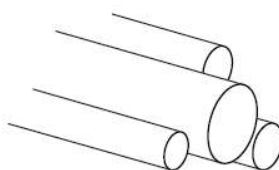
Screed box			
N° Modules	SKU	Finish	Image
2	KGH401/8	Steel	
3	KGH601/8	Steel	
4	KGH801/8	Steel	

Metal frame and lid			
N° Modules	SKU	Finish	Image
2	52050002-036	St.Steel	
3	52050003-036	St.Steel	
4	52050004-036	St.Steel	

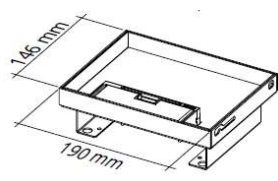
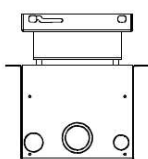
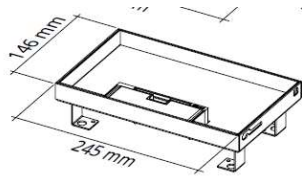
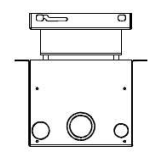
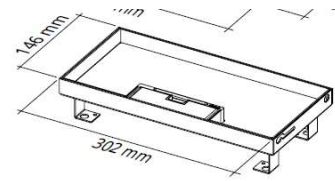
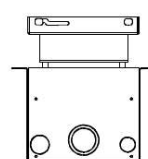
■ Dimensions

Screed boxes

2 Modules	 KGH401/8	 2x Ø16 mm 2x Ø20 mm 10x Ø25 mm 2x Ø32 mm 2x Ø40 mm
	 KGH601/8	 2x Ø16 mm 2x Ø20 mm 12x Ø25 mm 2x Ø32 mm 2x Ø40 mm

4 Modules	 KGH801/8	 2x Ø16 mm 2x Ø20 mm 14x Ø25 mm 2x Ø32 mm 2x Ø40 mm
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Frames with hinged lid

2 Modules		 0 - 30 mm
3 Modules		 0 - 30 mm
4 Modules		 0 - 30 mm

Dimensions and weights of the packagings

Screed boxes

2 Modules	3 Modules	4 Modules
370x245x145 (mm)	370x245x145 (mm)	370x245x145 (mm)
1,780 Kg	2,180 Kg	2,580 Kg

Frames with hinged lid

2 Modules	3 Modules	4 Modules
355x225x155 (mm)	355x225x155 (mm)	355x225x155 (mm)
1,900 Kg	2,300 Kg	2,700 Kg

■ Installation

Make holes in the screed box for wiring access and fix screed box to the floor slab using the supplied dowels and screws.

Insert corrugated tubes into the desired dies and ensure that the protective cover is correctly placed.

Due to screed box does not regulate, it is possible to replace the protective cover with a foam block to increase the soil depth by 30 mm.

Once the aggregate material has completely dried, the floor covering will be placed.

Next, the protective cover/foam block will be removed to proceed fastening the ground connections in the screed box.

Then, the connections of the functions to be housed in the floor box will be made and once completed, the mechanism-holder frame with the functions will be placed in its lodgement, screwing it with the provided screws and placing the rest of the plastic components to prevent the access to the area with the active parts of the wiring.

The next step will be to place the metal frame of the floor box and proceed to adjust it at the same level of the floor covering.

To guarantee a correct derivation of the ground connection, the ground connection of the frame, hinged lid and screed box will be wired between them into to the specific lodgements, placing the hinged lid in its housing to guarantee to close completely.

Once the lid is completely closed, the metal reinforcement will be fixed in the space provided inside the folding lid and the floor covering will be placed in the space provided into the lid to ensure the floor box is fully integrated into the floor.

In order to open and close the lid of the metal floor box, it is necessary to pull the handle.

Any patch-cord plugged to the floor box will be protected through the grommet of the floor box.

For more information download installation manuals 992269 and 992262 from our website.

■ Technical information

Compliance with Standard	UNE-EN IEC 60670-1 January 2022
Nature of the material	Composite
Embedded installation	Floor
Fastening system	Screws
Temperature range during installation	-5°C / +90°C
Screed box fastening	Floor box range design to be fasten with dowels and screws
Insulation resistance	> 5MΩ to 500V
Electrical rigidity	No drilling or contouring with 2000V, 50Hz / 1 minute

■ Directives and Standards

Directives	Directive 2006/95/CE
Standards	UNE-EN IEC 60670-1 January 2022 UNE-EN 60.670-23 June 2009 DIN EN 50085-2

■ Manufacturing material

Screed box	Galvanised steel
Frame with hinged lid	Stainless steel
Mechanism-holder frame	Polycarbonate
Metal divider plate	Galvanised steel

■ Included on the packaging

Screed boxes

Supplied with the product	Metal screed box
	Wooden protective cover
	4 Dowels and Screws
	Installation manual

Frames with hinged lids

Supplied with the product	Metal floor box frame
	Metal hinged lid
	Metal reinforcement (for hinged lid)
	Metal divider plate
	Ground-connection wires
	Mechanism-holder frame
	Inner trims for mechanism-holder frame
	Screws for height adjustment of the frame
	Screws for mechanism-holder frame fastening and decorative caps (to hide fastening screws)
	Grounding clamp for metal divider plate
	Installation manual

■ Compatibility

Socket-outlets	Compatible with Simon 500 Cima
USB chargers	Compatible with Simon K45 range through adapter
Switching mechanisms and beaconing	Compatible with Simon K45 range through adapter
Multimedia connectors and plates	Compatible with Simon K45 range through adapter
QUICK POWER-CONNECTION range	Compatible