



Simon | K45

METAL FLOOR BOXES

simon





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Simon's new range of metal floor boxes has been developed for installation in spaces that **need to withstand heavy loads**, offering the possibility of configuration with power, voice, data and multimedia functions, while maintaining optimal performance.

The product design, the type of material used, and its thickness make it possible to achieve the heavy loads required in buildings for the tertiary sector, such as airports, offices, retail, train stations, museums, hotels, hospitals, car dealerships, and spaces with high foot traffic, such as universities, schools, shopping centres, etc.

With the Simon range of metal floor boxes, you get a **safe, robust, and solid installation**.

The new range of metal floor boxes is the result of actions carried out with architects, interior designers and similar professionals in response to the need for a specific product range for **environments that require a robust, durable product.**



/ ADAPTED DESIGN

Product design based on installations in **screed floors** in accordance with DIN EN 50085-2, UNE-EN IEC 60670-1 January 2022 for enclosures and UNE-EN 60670-23 June 2009 (floor boxes) with a varied range to accommodate different function capacities according to customer needs.

/ MAXIMUM STRENGTH AND QUALITY

The structural elements of the boxes are made of **galvanised steel**. The frame with lid is constructed of **stainless steel** as it is highly corrosion resistant, very hygienic heat resistant, as the material starts to become sensitised between 425° and 815°C, achieving an IK10 protection rating against impacts.

/ EASY MAINTENANCE

Due to the product design, the range of metal floor boxes is suitable for combination with **dry cleaning methods.**



/ READY FOR INSTALLATION

To complete installation of the product, once the wiring has been routed under the floor to the location where the product is to be affixed (by means of a tray, grid, corrugated tube, etc.), only the following components are needed:

- Screed box
- Floor box
- Required functions

The frame with lid reference **includes the accessories needed** for proper installation of functions (mechanism-holder frame, metal reinforcement, metal separator plate, earth connection, installation manual, etc.).

AND QUALITY ADJUSTED DEPTH

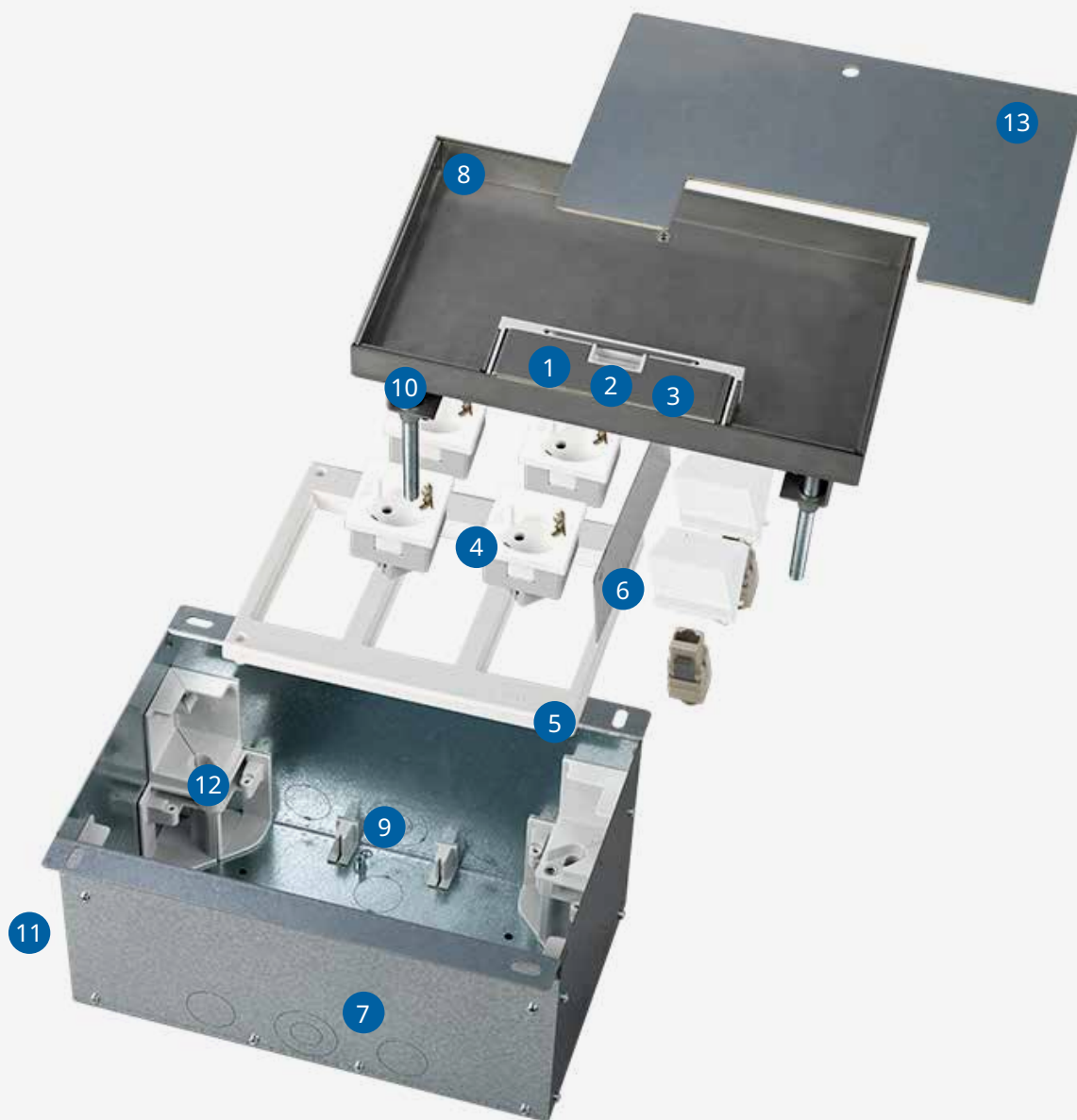
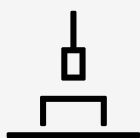
The design of the product allows you to reach **a depth of 123 mm between the slab and the floor**. If a greater depth is required, it is possible to remove the wood protection and use a 30 mm deep foam block, to achieve a total depth of 153 mm before installing the frame so that it is flush with the floor surface.

/ VERSATILE DESIGN

Product design that allows you to change the **lid opening direction** to adapt to furniture changes **without having to completely dismantle the floor box**.

/ MAXIMUM STRENGTH

INSTALLATION SYSTEMS EMBEDDED IN THE FLOOR



Offices



Meeting
rooms



Auditoriums



Universities



Museums



Hotels

1 / Window for cable routing

Protects and allows passage of connection cables.

2 / Opening system

Manual and protected (depending on model).

3 / Protective foam

Protects the inside of the box from dust and small objects.

4 / Maintenance

The cover plates can be removed to facilitate maintenance of the connections without having to completely dismantle the box.

5 / Bolted fixings

Maximum strength of the assembly.

6 / Metal separator plate

Guarantees the electromagnetic immunity of the Voice, Data and Multimedia (VDM) installation.

7 / 5 diameters of pre-cut openings for conduit entry (16, 20, 25, 32 and 40 mm)

Available all around the perimeter of the box.

8 / Space to install the floor finish.

The cover has a space of 20 mm to customise it with the floor finish (ceramic, parquet, carpet, other).

9 / Grounding of metal parts

Includes bonding elements between metal parts for proper grounding.

10 / Additional 30 mm frame adjustment

Possibility of obtaining a total depth of 153 mm.

11 / Square-shaped design

To facilitate cutting and laying of the floor

12 / With all the necessary equipment

Supplied with the necessary components for proper installation (screws, protective wood, metal spacer, metal reinforcement for grounding, etc.)

13 / Metal reinforcement

Allows a maximum load of 1,200 kilos. Supplied with frame with lid.

AN ADAPTABLE AND SAFE SYSTEM



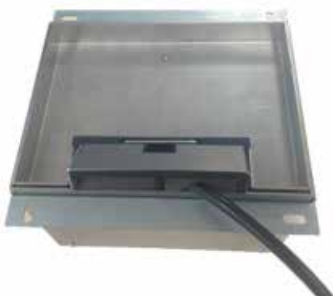
/ GREATER ROBUSTNESS

All structural elements of the product are made of steel to provide greater robustness, allowing a maximum total load of 1,200 kilos, with a point load of 300 kg. in the centre of the lid.



/ INCREASED INTEGRATION

The design of the box, with straight lines and no outer frame, enhances the integration of the box into the floor, as only the perimeter of the box is visible.



/ PRACTICALITY OF THE CABLE ACCESS WINDOW

Protects and allows the connection cables to pass through, ensuring that the lid is completely flush and comfortable when no cable is protruding.

It includes foam to protect the inside of the box from dust and small objects.



/ CONVENIENT OPENING SYSTEM

Manual opening of the box by pulling the handle. This element, like the rest of the components, is also made of metal to maintain the robustness and extend the useful life of the product.



/ GROUNDING OF METAL PARTS

All metal components are grounded, ensuring an absence of voltage in these components to protect people.



/ EASY MAINTENANCE

The design of the box allows for future maintenance without the need to completely dismantle the floor box.

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FLOOR BOXES

INSTALLATION IN SCREED - DEPTH FROM 123 MM TO 153 MM

FLOOR BOX FRAME WITH HINGED LID



REFERENCE	COLOURS	DESCRIPTION
KF470	/8	2 double modules
KF670	/8	3 double modules
KF870	/8	4 double modules

SCREED BOX



REFERENCE	COLOURS	DESCRIPTION
KGH401	/8	2 double modules
KGH601	/8	3 double modules
KGH801	/8	4 double modules

INSTALLATION ACCESSORIES



REFERENCE	COLOURS	DESCRIPTION
K11	/9 /6 /14	Schuko plug socket with quick connection



REFERENCE	COLOURS	DESCRIPTION
KB76	/9 /14 /8	Flat voice and data plate with dust cover for 2 RJ45 connectors with Keystone/Systimax® clipping



REFERENCE	COLOURS	DESCRIPTION
K106A	/9 /14 /8	Two-pole 10A circuit breaker with cover plate
K107A	/9 /14 /8	Circuit breaker-differential with 10 A and 10 mA sensitivity with cover plate



REFERENCE	COLOURS	DESCRIPTION
K105B	/9 /14 /8	3RCA connector for video and audio transmission



Example of configuration on screed



QTY.	REFERENCE	COLOURS	DESCRIPTION
1	KF470	/8	Floor box for 2 double modules, stainless steel
1	KGH401	/8	Floor box tray for 2 double modules, galvanised steel
4	K11	/9	Schuko plug socket with quick connection, white



TECHNICAL INFORMATION



Floor-
recessed

K45

/ METAL FLOOR BOXES

Product design carried out under the safety requirements of Directive 2006/95/EC (Low Voltage) by means of the UNE-EN 60.670-23 standard

CE marked product.

Product manufactured in AISI 430 stainless steel.

Temperature range during installation: -25° to +120°C.

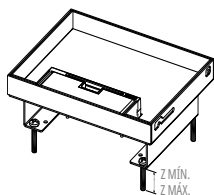
Maximum temperature during construction: +120°C.

Impact resistance grade IK: 10

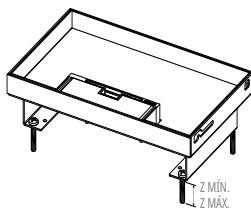
IP rating: 40

INSTALLATION ON SCREED

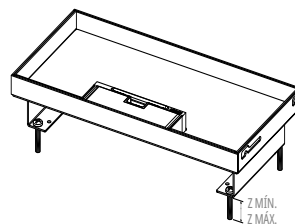
KF470/8



KF670/8

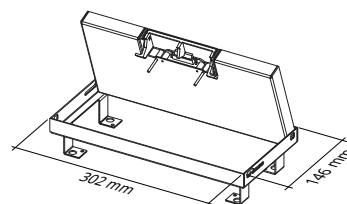
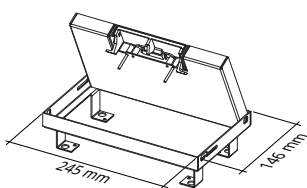
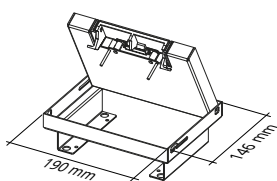


KF870/8

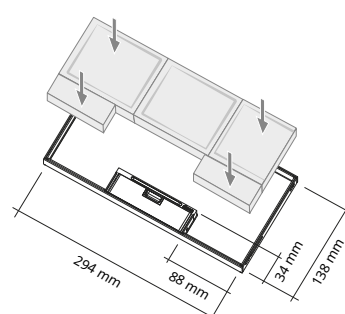
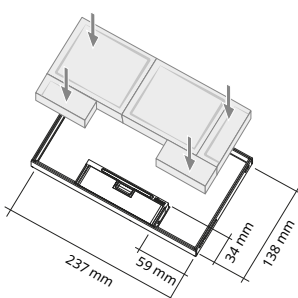
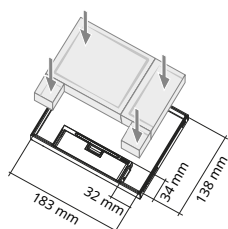


REFERENCES	NO. OF DOUBLE MODULES	METAL TRAY AXB	DEPTH X	MAXIMUM LOAD KG	MIN. Z ADJUSTMENT	MAX. Z ADJUSTMENT
KF470/8	2	146 x 193	Adjustable from 120 to 153 mm	1200	120	153
KF670/8	3	146 x 248		1200	120	153
KF870/8	4	146 x 305		1200	120	153

OPENING DIRECTION AND EXTERNAL DIMENSIONS OF THE BOXES



FLUSH LID



/ FLOOR JUNCTION BOX

Product design carried out under the safety requirements of Directive 2006/95/
EC (Low Voltage) by means of the UNE-EN 60.670-23 standard

CE marked product.

Product made of galvanised steel

Temperature range during installation: -25° to +120°C.

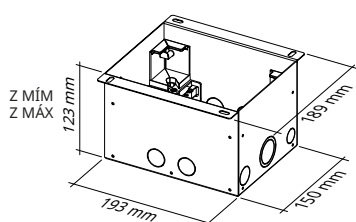
Maximum temperature during construction: +120°C.

Impact resistance grade IK: 10

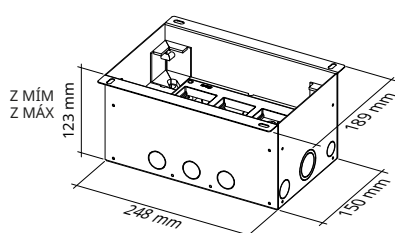
IP rating: 40

SCREED BOX

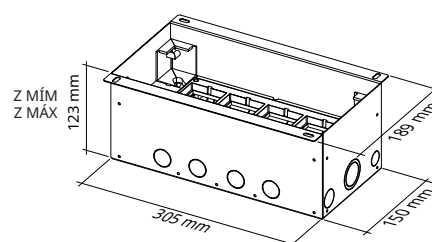
KGH401/8



KGH601/8



KGH801/8



REFERENCES	NO. OF DOUBLE MODULES	JUNCTION BOX OPENING DIMENSIONS AXB	DEPTH X	NO. OF CONDUIT ENTRY OPENINGS	MAXIMUM LOAD KG	MIN. Z ADJUSTMENT	MAX. Z ADJUSTMENT
KGH401/8	2	150x193		2Ø16 + 2Ø20 + 10Ø25 + 2Ø32 + 2Ø40	1200	123	123
KGH601/8	3	150x248	123	2Ø16 + 2Ø20 + 12Ø25 + 2Ø32 + 2Ø40	1200	123	123
KGH801/8	4	150x305		2Ø16 + 2Ø20 + 14Ø25 + 2Ø32 + 2Ø40	1200	123	123



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