

# Technical Specifications: K45 Range

## IP 66 Watertight floor box

<b>Document Type:</b> Technical specifications		
<b>Product:</b> <ul style="list-style-type: none"><li>IP 66 Watertight floor box</li></ul>	<b>References:</b> <b>Watertight box tray:</b> KGE170/23, KGE170TF/23. <b>Mechanism support units:</b> KSE0/23/71, KSE1/23/71, KSE2/23/71, KSE15U/23/71, KSE16U/23/71, KSE0SEC/23/71, KSE1SEC/23/71, KSE2SEC/23/71, KSE15USEC/23/71, KSE26U/23/71, KSE10U/23/71, KSE20U/23/71, KSE26USEC/23/71, KSE0/23/72, KSE1/23/72, KSE2/23/72, KSE15U/23/72, KSE16U/23/72, KSE0SEC/23/72, KSE1SEC/23/72, KSE2SEC/23/72, KSE15USEC/23/72, KSE20U/23/72, KSE26U/23/72, KSE10U/23/72, KSE26USEC/23/72. <b>Accessories :</b> ACSE, RKS005/71, RKS005/72.	
<b>Prepared by:</b> Marketing Department	<b>Version:</b> ver.4.0	<b>Total pages</b> 9

### CONTENTS:

- Description
- General characteristics
- Installation
- References
- Applications
- Product specifications.
- Compatibility table
- Technical information

## IP66 WATERTIGHT FLOOR BOX FOR INDOOR AND OUTDOOR USE

### Description:

Watertight Floor Box with IP66 protection level in closed position. Designed to be flush-mounted in paving or to be fitted in raised floors in both **indoor and outdoor installations**. Finishes available in brass or stainless steel.

### General characteristics:

- Fitted with 1 K45 format mechanism & 1 RJ45 connector in one box alone. (Depending on the version)
- Direct snap-fit mechanism assembly with no need for adapters.
- Draining system with tank for gathering any water that may enter the box when opening the cover, which is also prepared for installing an 8 mm minimum diameter drain pipe.
- Allows pipe inputs through 5 sides of the box. These pipe inputs are pre-marked to assist installation.
- Safety cover locking system to prevent it accidentally opening or closing and crushing the cables.
- Opening angle of the bottom lid of less than 90° to prevent it from remaining open accidentally.
- Supports use of straight and L-shaped plugs. The joint between the casing and the mechanism support unit is created using 4 Allen screws.
  
- A mechanism support with a security lock is available to avoid the box being opened by people other than who are supposed to. Ideal for places open to the public. The lid can only be opened with a half turn of a 6 mm Allen key.
- Withstands people walking over it.
- Brass or stainless steel finish.

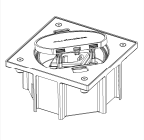
### Installation:

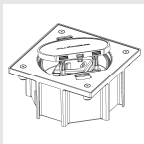
- In raised access floors:        -Raised floor minimum depth: 70 mm.  
     -Size of hole for assembly in raised floor: 145x145 mm.
- In paving:                                -Box assembly depth: 70 mm.  
     -Size of hole for assembly in paving: 135x135 mm.

### IP66 Watertight floor box, brass finish



References			
WATERTIGHT BOX TRAYS			
Embeddable tray for watertight floor box installed in paving floor, colour grey.	KGE170/23	Grey	
Embeddable tray for watertight floor box installed in raised floor, colour grey.	KGE170TF/23	Grey	

References			
MECHANISM SUPPORT UNIT WITH MANUAL LOCK			
Mechanism support unit with Schuko socket	KSE1/23/72	Stainless steel	
Mechanism support unit for 1 K <sub>45</sub> mechanism	KSE0/23/72		
Mechanism support unit with French socket	KSE2/23/72		
Mechanism support unit with Schuko socket and housing for 1 Keystone RJ45 connector	KSE10U/23/72		
Mechanism support unit with French socket and housing for 1 Keystone RJ45 connector	KSE20U/23/72		
Mechanism support unit with Schuko socket and 1 RJ45 connector for 6 UTP cable	KSE16U/23/72		
Mechanism support unit with French socket and 1 RJ45 connector for 6 UTP cable	KSE26U/23/72		
Mechanism support unit with Schuko socket and 1 RJ45 connector for 5e UTP cable	KSE15U/23/72		
Mechanism support unit with Schuko socket	KSE1/23/71	Brass	
Mechanism support unit for 1 K <sub>45</sub> mechanism	KSE0/23/71		
Mechanism support unit with French socket	KSE2/23/71		
Mechanism support unit with Schuko socket and housing for 1 Keystone RJ45 connector	KSE10U/23/71		
Mechanism support unit with French socket and housing for 1 Keystone RJ45 connector	KSE20U/23/71		
Mechanism support unit with Schuko socket and 1 RJ45 connector for 6 UTP cable	KSE16U/23/71		
Mechanism support unit with French socket and 1 RJ45 connector for 6 UTP cable	KSE26U/23/71		
Mechanism support unit with Schuko socket and 1 RJ45 connector for 5e UTP cable	KSE15U/23/71		

References			
MECHANISM SUPPORT UNIT WITH SECURITY LOCK			
Mechanism support unit with Schuko socket	KSE1SEC/23/72	Stainless steel	
Mechanism support unit for 1 K45 mechanism	KSE0SEC/23/72		
Mechanism support unit with French socket	KSESEC2/23/72		
Mechanism support unit with French socket and 1 RJ45 connector for 6 UTP cable	KSE26USEC/23/72		
Mechanism support unit with Schuko socket and 1 RJ45 connector for 5e UTP cable	KSE15USEC/23/72		
Mechanism support unit with Schuko socket	KSE1SEC/23/71	Brass	
Mechanism support unit for 1 K45 mechanism	KSE0SEC/23/71		
Mechanism support unit with French socket	KSE2SEC/23/71		
Mechanism support unit with French socket and 1 RJ45 connector for 6 UTP cable	KSE26USEC/23/71		
Mechanism support unit with Schuko socket and 1 RJ45 connector for 5e UTP cable	KSE15USEC/23/71		

References			
ACCESSORIES			
Connector accessory for 2 watertight floor boxes	ACSE	-	
Set of 4 screws in for fixing mechanism support	RKS005/71	Brass	
Set of 4 screws in for fixing mechanism support	RKS005/72	Stainless steel	

**Configuration example:**









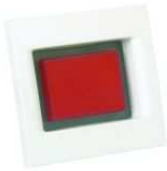
**KGE170/23:** 1 Flush-mount tray for watertight floor box  
**KSE1/23/72:** 1 Mechanism-holding unit with schuko socket

**Applications:**

- Highly recommended for installations where occasional mains connection points are required (vacuum cleaners, polishers, etc.) , where water is used for cleaning or there is a risk of the box getting wet (outdoor installations, bus and train stations, terraces, etc.) or areas with intense people traffic (airports, shopping centres, conference halls, hotels, sports centres, etc.).

TECHNICAL DATA	
In accordance with	UNE 20.451 IEC 60670
Installation	In flat ground surfaces, paving
Temperature range during installation	-25° C / +60° C
Max. temperature during construction work	+90° C
Ball pressure test	+70° C
Glow wire test	+650° C
IP (Box closed)	66
IP (Box open)	20
IK ( Box closed )	07
IK ( Box open )	06
Maximum load (Box closed)	1000 Kg
Maximum load ( Box open )	170 Kg
Resistance to insulation	5 M Ω a 500 V.
Without disruption or flash-over at 2000V, 50 Hz	1 min.
STANDARDS	
Spanish	UNE 20451:1997 – IEC 60670
	R.D. 842/2002 Low voltage electrotechnical regulations
International	IEC 60670
EEC standards relating to halogen materials DIN/VDE 0472 PART 815	
EC marking	
MANUFACTURING MATERIAL	
Thermoplastic, <b>fireproof, halogen-free</b> materials, which prevent the flame from spreading during a fire and guarantee low toxicity in the event of smoke.	
Protective/decorative top plates in brass or stainless steel (as chosen).	
INCLUDED WITH THE UNIT	
Tray: Casing for installation on-site	
Mechanism-holding unit: Mechanism holder and fold-down cover	
Instructions manual	
Nuts and bolts	
Minimum package order: 1 unit	
GENERAL CHARACTERISTICS OF THE K45 RANGE	
Ready for the future	It is possible to integrate electricity, voice, data, multimedia, switches and signalling in the same product
VDM concept	Solutions for audio, video and multimedia connections
Voice and data compatibility	Total guarantee of compatibility with all Voice and Data connectors (RJ45) as well as fiber optics connectors in the market
Safety	People: Halogen-free materials, fireproof, auto-extinguishable and do not propagate flames. Resistant to corrosion, overloads and temperature variations  Information: Voice, data and multimedia are constantly separated from electrical installation. Due to this fact, electromagnetic interferences in the transmission are minimized.
Modularity Flexible Useful	Installation is expandable and products can be configured depending on needs. Minimum space, maximum functionality
Design and integration	Maximum aesthetic integration with surroundings

<b>WATERTIGHT BOX CHARACTERISTICS</b>	
Installation	In the ground
Type of surface to be installed in	On-site paving or raised floor
Examples of locations	Shopping centres, airports, hotels, stations, hospitals, museums, terraces, gardens, etc. and generally any installation that requires a connection point, where the design and functionality of a watertight box are appreciated, both indoors and outdoors
Number of modules	1 K45 mechanism and possibility of 1 RJ45 connector (check reference list)
Supply	By means of corrugated pipe with gland seal
Product assembly	Direct Snap-fit/ assembly of its components
Expandable	Yes, through ACSE accessory
Assembly of sockets	Direct Snap-fit of K45 electrical sockets
Assembly of Voice and data connectors	Direct Snap-Fit of the connectors in the mechanism holder
Opening the lid	By using a 6 mm Allen key in the security lock version By hand in the manual open version,
Maintenance & desinstallation	The mechanism holder unit can be removed by using a 2,5 mm Allen key
Cleaning	Use a damp cloth to clean the surface of the box In case of using a cleaning product, avoid contact with live and metal parts Do not use abrasive products
KIT availability	-
<b>COMPATIBILITY WITH SIMON CONNECT PLATES AND MECHANISMS</b>	
Voice and Data Plates	Yes
Multimedia Plates	Yes
Electrical Sockets	Yes
Switching and Signalling mechanisms	Yes
<i>SAFETY</i> Range	Yes
<i>K45</i> Range	Yes
<b>COMPATIBILITY WITH PLATES AND MECHANISMS OF OTHER BRANDS</b>	
Consult our catalogue or our website for more information  In case of doubt, contact us.	
<b>COMPATIBILITY WITH RJ45 FEMALE CONNECTORS OF OTHER BRANDS</b>	
Voice, data and multimedia plates compatible with all connectors in the market. Consult our compatibility table in our catalogue or visit our website to obtain the latest version. In case of doubt contact us	

SIMON CONNECT COMPATIBILITIES	K45
<p><b>Electrical Sockets</b></p>	
<p><b>Voice and Data plates</b></p>	
<p><b>Multimedia plates</b></p>	
<p><b>Optical Fibre</b></p>	
<p><b>Quick-Connection connectors</b></p>	
<p><b>Cable outlet plate</b></p>	
<p><b>Switching and Beaconing plates</b></p>	



**Technical information:**

**K45 IP 66 WATERTIGHT FLOOR BOXES**

- Product designed according the Safety Requirements of Directive 2006/95/EC (Low Voltage) through compliance with harmonised standard UNE-EN-60.670.
- CE marked product.
- The recommended temperature range during installation is: -25°C to + 60°C.
- The maximum temperature during construction work is + 90°C.

**CLOSED BOX**

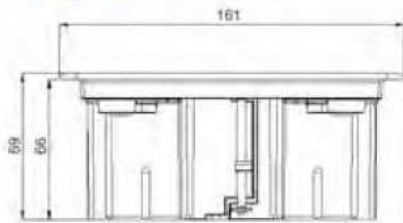
- IP66 protection level.
- Impact protection level IK07 (with IP66).
- Maximum load per unit of area: 12 kg/cm<sup>2</sup>.
- Total maximum load: 1000 Kg.

**OPEN BOX**

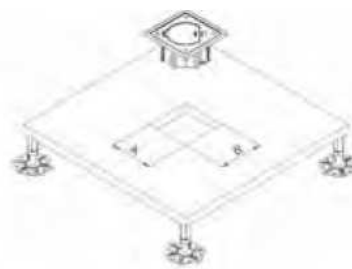
- IP20 protection level .
- Impact protection level IK0.
- Maximum load per unit of area: 4 kg/cm<sup>2</sup>.
- Total maximum load: 100 Kg.

**Raised floor tray**

Ref. [KGE170TF/23](#)



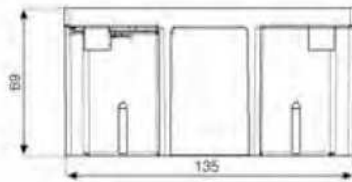
**Raised floor installation**



Dimensions AxB
145X145

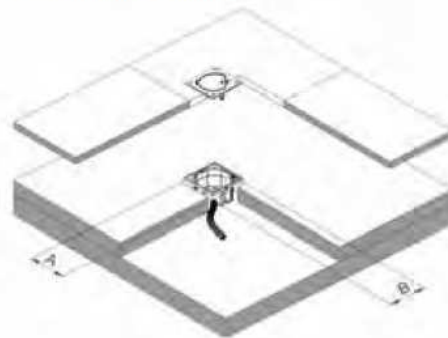
**Paved Floor Tray**

Ref. [KGE170/23](#)



Safety lock: Allen key 6mm.

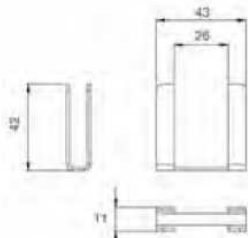
**Paved floor installation**



Dimensions AxB
135X135

**Connecting accessory**

Ref. [ACSE](#)



**Spare parts**

Ref. [RKS001/..](#)

Ref. [RKS003](#)

Ref. [RKS004](#)

