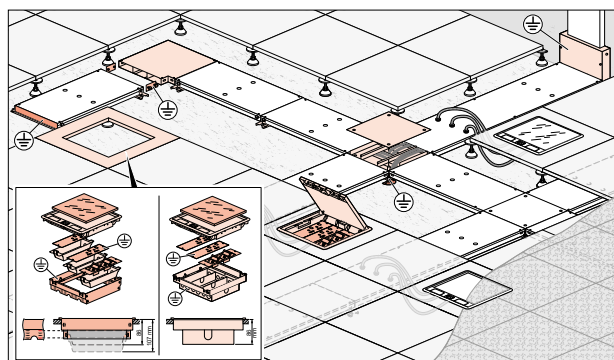


Raised Floor system

Cat. No(s) : 6 896 30/31/32/33/38/39/40/41/42/43/48/49/60/61/92/93 - 6 897 55/70/71/73/74/77/78/80/81/82/83/85/86/87/88/89



CONTENTS

Page

1. Use	1
2. Range	2
3. Dimensions	4
4. Installation	16
5. Technical characteristics	23

1. USE

Raised Floor box provides adaptable power and data distribution in raised floors.

The system ensures a fast and simple installation.

Designed to support Cat 6 structured cabling systems.

Lid & trim are IP20 rated in accordance with EN 50085-2-2 and EN 60670-23

Choice of 3 or 4 compartments lid & trim.

Self Closing lid in accordance with IEC 61534-22.

Lid & trim: plastic material ABS/PA 6.6 FV

Rigid & flexible exits: plastic material ABS/TPEE

Stainless steel insert: stainless steel material AISI 304

Raised Floor System:

Materials Pre-galvanised steel (DX51D Z275 MAC)

Fire: The outer casing of the floor outlet box is manufactured from metal and is no-combustible.

Chemical resistance: Non corrosive.

Water absorption: The floor outlet boxes are for use in situations where the cleaning method used does not result in the formation of pools of liquid or soaking of the floor surface.

Degree of protection: Enclosure classification of IP20 when installed in accordance with the instructions set out in the installation guide.

Ambient Temperature Range:

Handling and storage -25°C minimum

During installation -5°C 60°C

Application -5°C 40°C

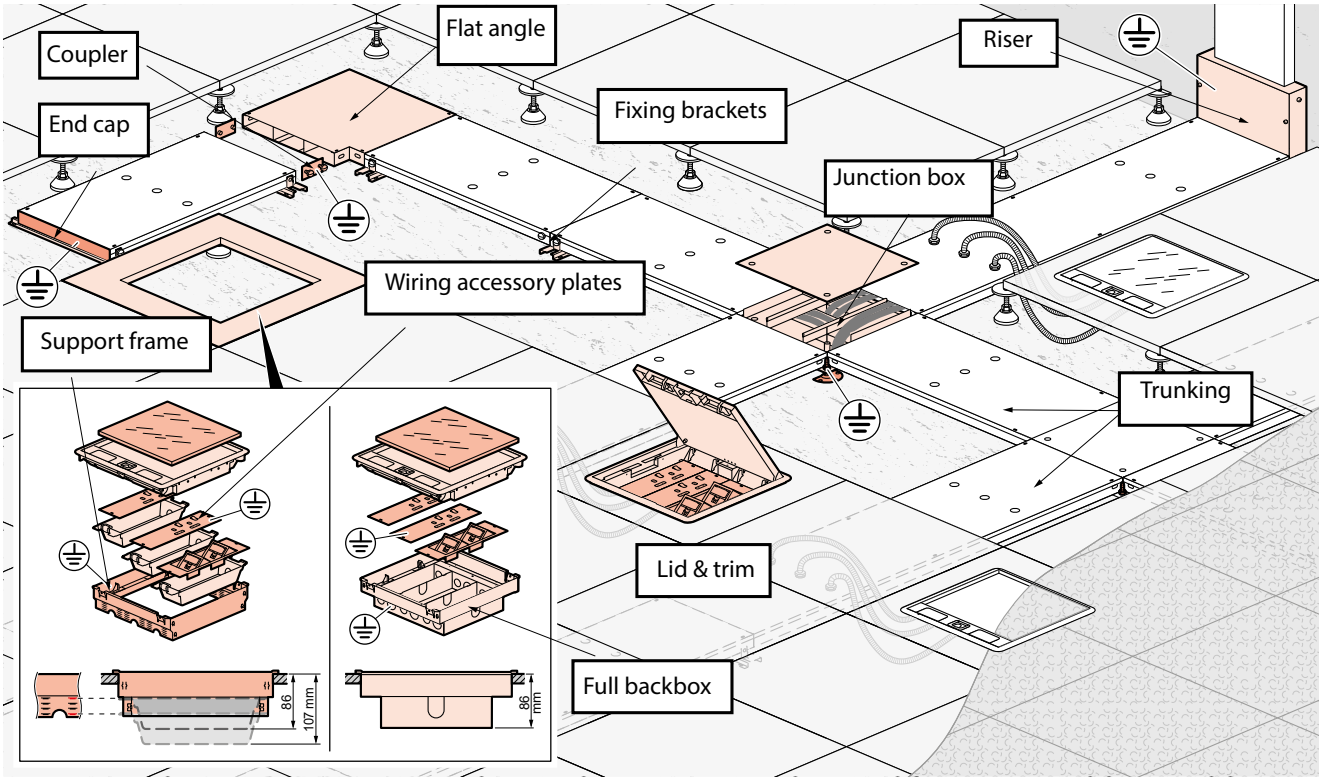
Metal trunking and Accessories:

Material Pre-galvanised sheet steel (DX51D Z275 MAC)

Cleaning:

The exterior should only be cleaned using a damp cloth.

2. RANGE



	Fixing brackets	Coupler	End cap	Leveling		Riser	Junction box	Flat angle	Full Backbox		Backbox - multibaskets			Lid & Trim	Stainless steel insert
					X 4				3 compt	4 compt	Support box	Single basket	Double basket		
225 x 38 (mm) Metal	6897 70		6897 85	6897 87		6897 82	6897 80 or 6897 78 or 6897 81	6897 73			3 compt	4 compt	6896 30	6896 31	6896 92
	6897 55	6897 77			6897 88				6896 38	6896 48	6896 39	6896 49	6896 60	6896 61	
300 x 38 (mm) Metal	6897 71		6897 86	6897 89		6897 83		6897 74							

	Rigid cable exits		Soft cable exits	6896 93
	3 compt	grey beige		
		6896 30 6896 32	6896 31 6896 33	
	4 compt	grey beige	6896 41 6896 43	

2. RANGE (CONT.)

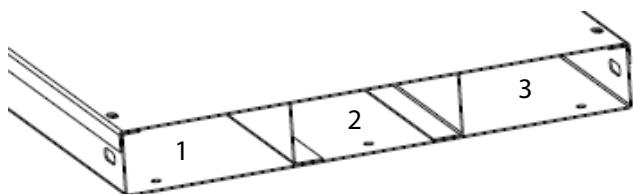
Cable capacity guide

The number and location of boxes will depend on the end user requirements.

If the furniture layout is available, a lid & trim should be considered for each workstation or desk.

If the final furniture layout is not available, the minimum recommended distribution is one lid & trim for every 10m², and the maximum being one lid & trim per 4m².

Compartment 1, 2 and 3 have the same capacity



45% available cross section

for power cables			Number of PVC stranded							Number of Twin & earth		
Metal trunking	Compt.	Section 45% Fill mm ²	1,5 ² Ø3.3 mm	2,5 ² Ø4mm	4 ² Ø4.6 mm	6 ² Ø5.2 mm	10 ² Ø6.7 mm	16 ² Ø7.8 mm	25 ² Ø9.7 mm	2,5 ² Ø10.7 mm	4 ² Ø11.2 mm	6 ² Ø13.7 mm
225x38	1/2/3	1134	132	90	68	53	32	24	15	13	11	8
300x38	1/2/3	1584	184	126	95	75	45	33	21	18	16	11

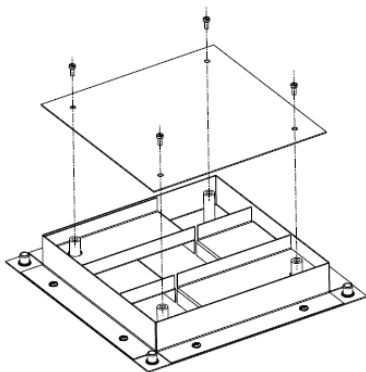
for data cables			Number of Data cables			
Metal trunking	Compart.	Section 45% Fill mm ²	cat 5E UTP Ø5.5	cat 5E STP Ø6	cat 6 UTP Ø6.5	cat 6 STP Ø7
225x38	1/2/3	1134	38	32	27	23
300x38	1/2/3	1584	52	44	38	32

Raised trunking system complies with EN50085-1: 2005 and draft EN50085 Part 2-2.

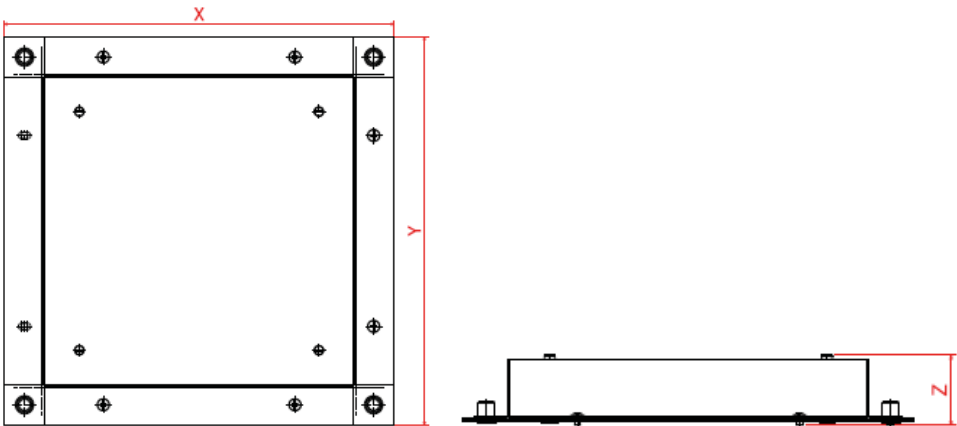
The above table gives the available capacity units on 45% factor, applied to the internal wiring area.

3. DIMENSIONS

3.1 Junction Box cat. nos 6 897 78/80/81



Cat. nos	To use with junction of
6 897 80	2 trunkings 225x38 mm
6 897 81	2 trunkings 300x38 mm
6 897 78	1 trunking 225x38 mm & 1 trunking 300x38 mm



Dimensions (mm)

Cat. nos	X	Y	Z
6 897 80	285	285	39.2
6 897 81	360	360	39.2
6 897 78	285	360	39.2

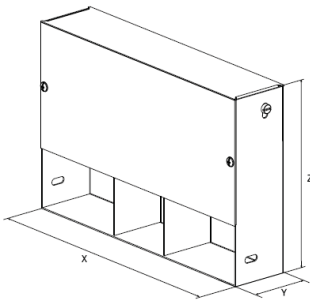
3. DIMENSIONS (CONT.)

■ 3.2 Riser cat. nos 6 897 82/83

The riser allows a change of direction (horizontal to vertical).
Conduit or ducting can be run vertically or horizontally from the riser.

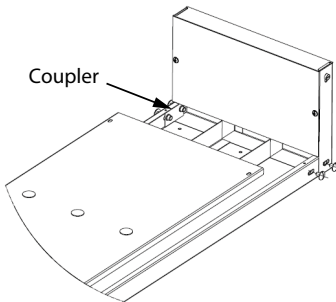
Allows the junction in interior angle (between the floor/wall) of two trunkings of the same section:

Cat. nos	Use for trunking
6 897 82	225x38mm metal
6 897 83	300x38mm metal



Dimensions (mm):

Cat. nos	X	Y	Z
6 897 23	225	38	201
6 897 33	300	38	201



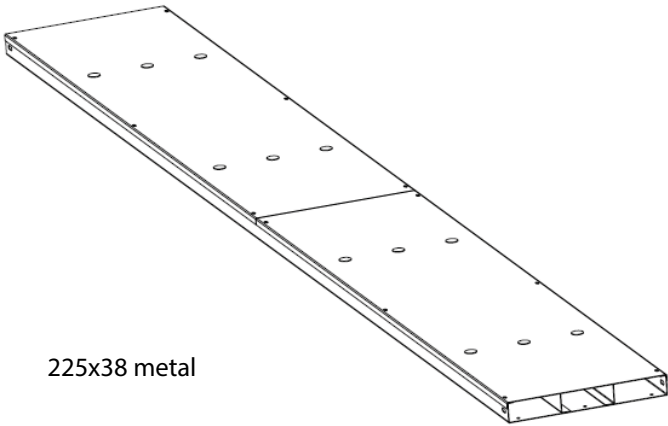
Installation of riser:

- 1- Fit the riser against the wall
- 2- Connect the trunking to the riser with the coupler

3. DIMENSIONS (CONT.)

3.3 Trunkings cat. nos 6 897 70/71

	Fixing brackets	Coupler
 225 x 38 (mm) Metal		
6897 70		
 300 x 38 (mm) Metal		
6897 71	6897 55	6897 77

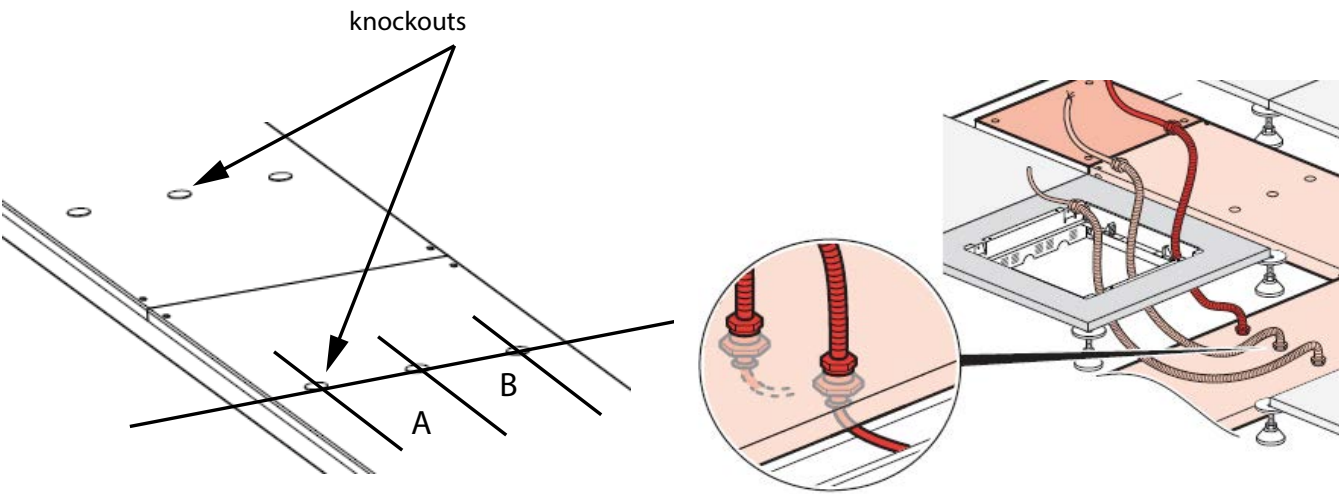


225x38 metal

Provides EMC Screening
Manufactured from pre-galvanised steel sheet
Delivered in standard length 2.44m
Standard thickness: 1mm for body/dividers/cover
Number of compartments: 3 compartments.
Standard depth: 38mm

Metal trunkings allows:
- distribution of power data underneath to the raised floor.

The trunking has 12 knockouts Ø 21mm (for connection of the flexible conduits) length of 2.44m

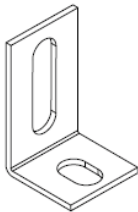


Center distance between knockouts

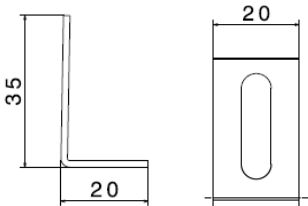
Metal trunking	A (mm)	B (mm)
225x38	74	74
330x38	100	100

3. DIMENSIONS (CONT.)

■ 3.4 Fixing bracket cat. no 6 897 55



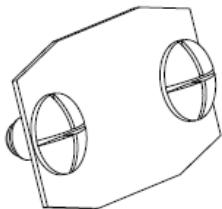
To fix trunking on the slab.



Thickness: 1.5mm

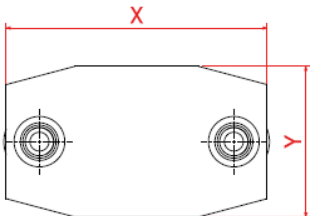
Cat. nos	Used with trunking
6 897 55	225/300x38 mm metal

■ 3.5 Coupler cat. no 6 897 77



Used to connect two trunking lengths.

Cat. nos	Used with trunking
6 897 77	225/300x38 mm metal



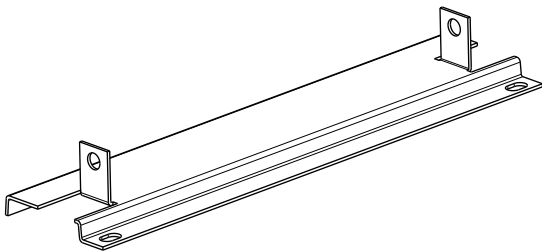
Dimensions (mm)

Cat. nos	X	Y
6 897 77	55	32

Thickness: 1mm
Supplied with 2 screws M6x10

3. DIMENSIONS (CONT.)

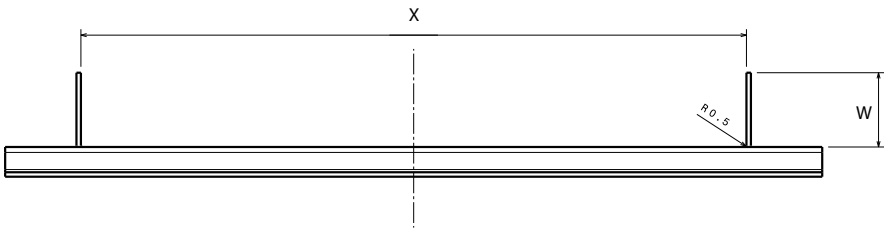
■ 3.6 Levelling brackets cat. nos 6 897 87/89



- To raise trunking level up to 10mm
- To connect two trunking lengths
- To fix the levelling brackets, please used the screws M6x10 delivered with the couplers

Cat. nos	Used with trunking
6 897 87	225x38 mm metal
6 897 89	300x38 mm metal

Dimensions (mm):



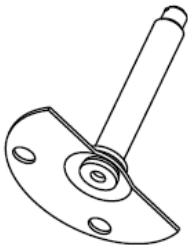
Cat. nos	X	W
6 897 87	225	25
6 897 89	300	25

Thickness: 1.5mm

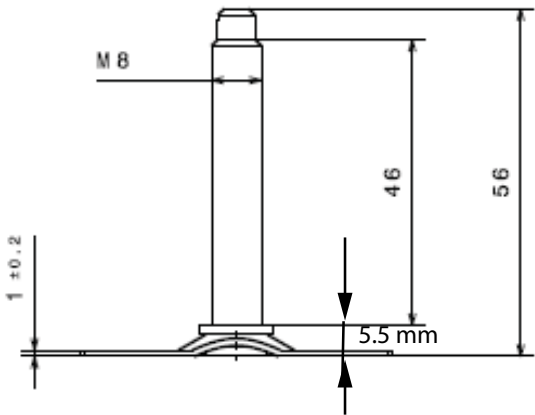
■ 3.7 Levelling brackets cat. nos 6 897 88

To raise junction box/backbox level up to 10mm

Dimensions (mm):

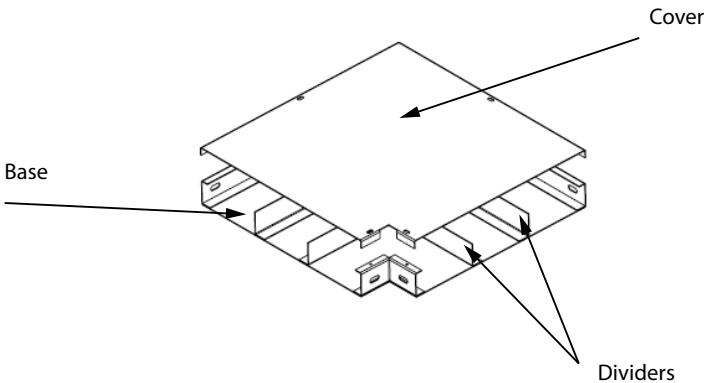


Delivered in set of 4



3. DIMENSIONS (CONT.)

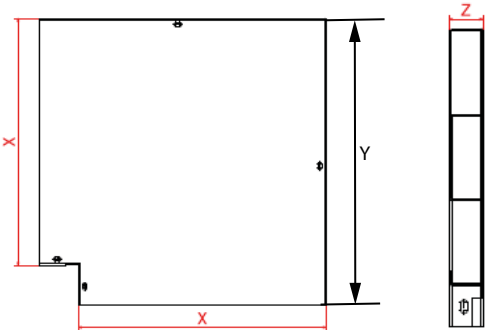
■ 3.8 Flat angle cat. nos 6 897 73/74



Allows the junction in a flat angle of two equal sized trunking:
- fix to the trunking by means of couplers
- flat angles are 90°
- flat angles are delivered with base, cover and partitions

Cat. nos	Used with trunking
6 897 73	225x38 mm metal
6 897 74	300x38 mm metal

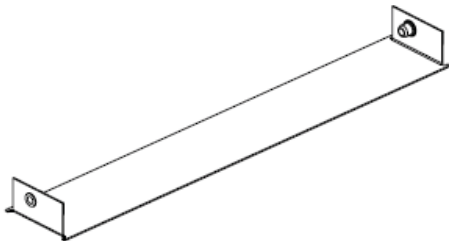
Dimensions (in mm)



Cat. nos	X	Y	Z
6 897 73	225	273	38
6 897 74	300	348	38

3. DIMENSIONS (CONT.)

■ 3.9 End cap cat. nos 6 897 85/86

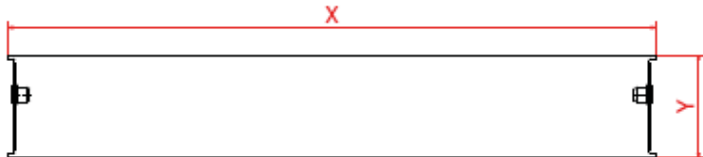


- For closing the end of the trunking
- To fix to the trunking by means of screws

Supplied with 2 screws M6x12

Cat. nos	Used with trunking
6 897 85	225x38 mm metal
6 897 86	300x38 mm metal

Dimensions (mm):



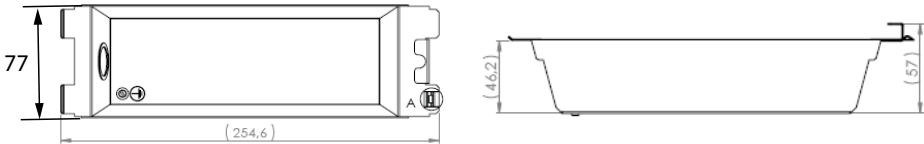
Cat. nos	X	Y
6 897 85	225	38
6 897 86	300	38

■ 3.10 Baskets cat. nos 6 896 60/61

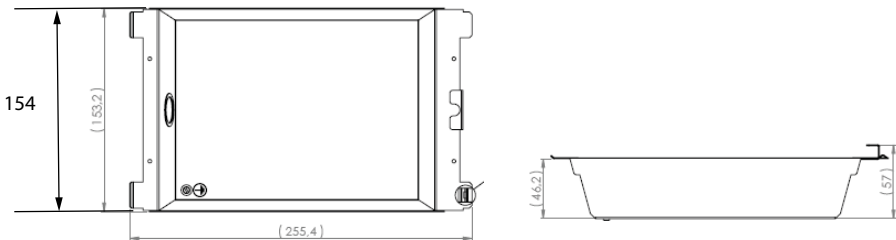
To install the wiring accessory plates onto the support frame.

Dimensions (mm):

Single basket cat. no 6 896 60:
Thickness 0.9mm

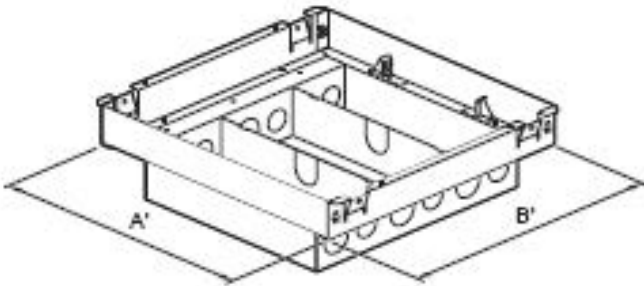


Double basket cat. no 6 896 61
Thickness 0.9mm



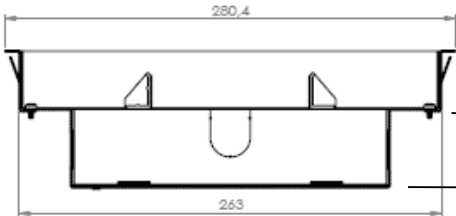
3. DIMENSIONS (CONT.)

■ 3.11 Full backbox cat. nos 6 896 38/48

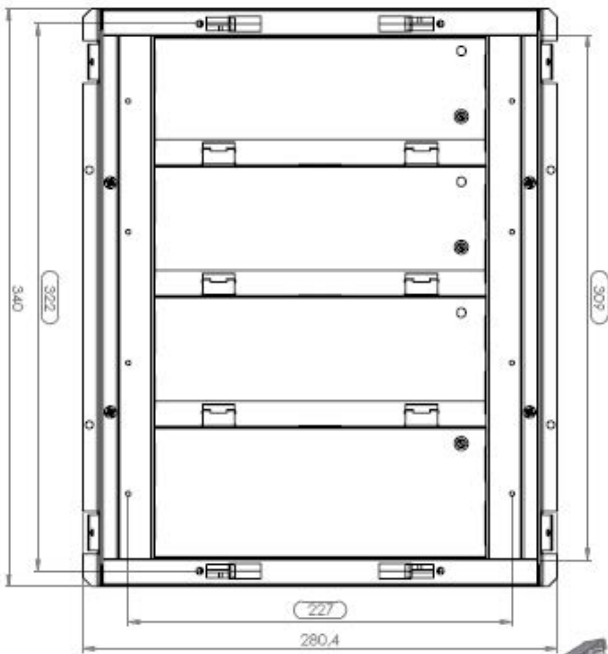
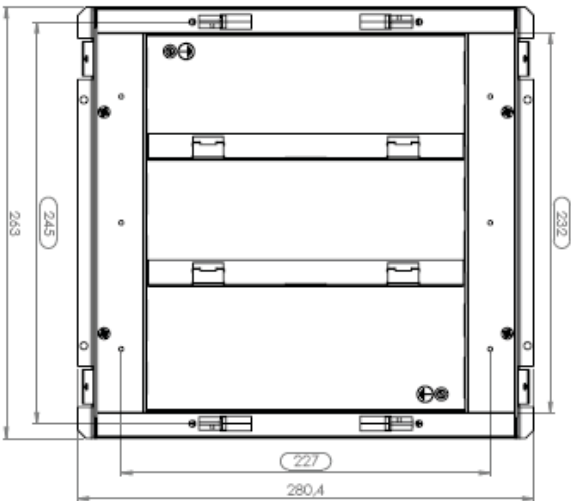
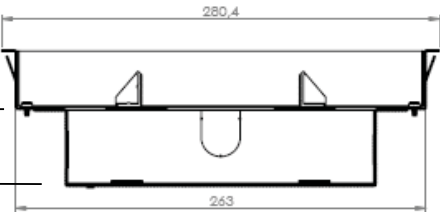


Dimensions (mm):

Full backbox square 3 modules



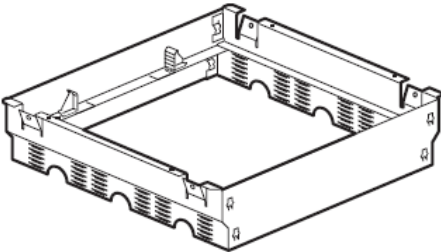
Full backbox rectangular 4 modules



3. DIMENSIONS (CONT.)

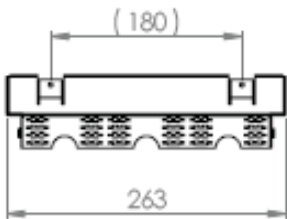
■ 3.12 Modular backbox cat. nos 6 896 39/49

Allow installation of power and data plates and fitting of a lid & trim :
Adjustable height of the modules to 4 positions on the support frame.

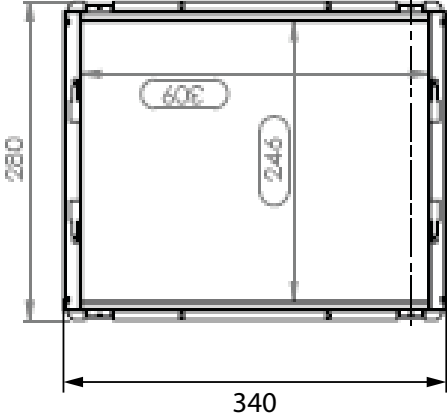
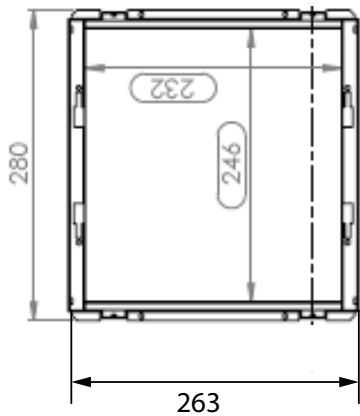
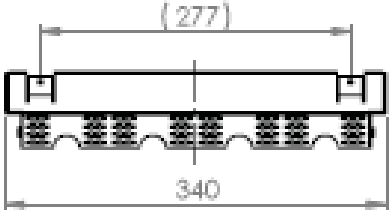


Dimensions (mm):

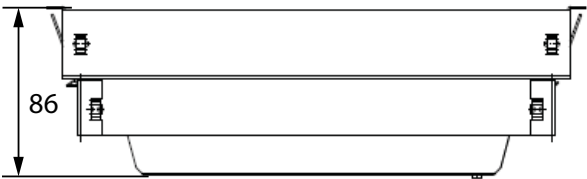
square 3 modules modular backbox



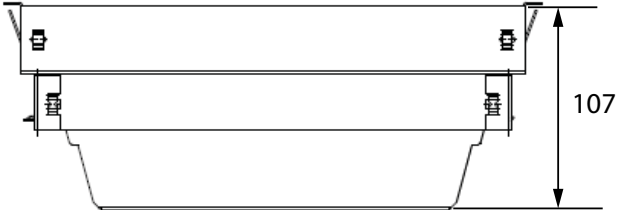
rectangular 4 modules modular backbox



Module in high position



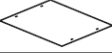
Module in low position



Note: dimensions of the different positions of the modules can be found on the page 23 (technical characteristics)

3. DIMENSIONS (CONT.)

■ 3.13 Wiring accessory plates

Cat. nos		Wiring accessory plate
6 896 62		77 mm blank
6 896 63		154 mm - double
6 896 65		77 mm twin unswitched socket 13A
6 896 66		77 mm twin switched socket double pole 13A
6 896 67		77 mm twin switched socket clean earth 13A
6 896 68		154 mm - 2 twin switched sockets double pole 13 A
6 896 69		77mm - twin switched socket staggered double pole
6 896 70		77mm - 2x6C knockouts
6 896 71		77mm - 4x6C knockouts
6 896 72		77mm - 2x1mod Arteur
6 896 73		77mm - 2x2mod Artéor
6 896 74		3x2mod Arteur
6 896 75		2x6C knockouts wave
6 896 76		77mm - 4x6C knockouts wave
6 896 77		2x3mod Arteur
6 896 78		2x2mod Arteur wave

Dimensions for wiring accessory plates:

- single plate 237 x 77mm,
- double plate 237 x 154mm

Single and double Plates are supplied with epoxy power coating Silver grey colour.

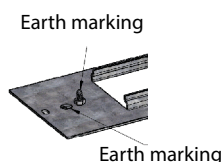
Wiring accessory plates are delivered with 2 screws M3x8.

Designed to be compatible with Cat 6 structured cabling systems.

Earth the wiring accessory plates by using the screw on bottom side.

Technical information sockets :

- Mechanism Synergy
- 250V
- Terminal screws
- Compact mechanism for easy fitting
- British standard 1363-2

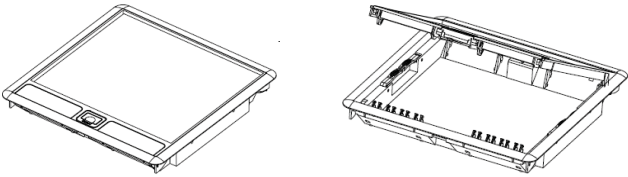


Note: Staggered Wiring Accessory Plate to avoid interference of plug cords.

3. DIMENSIONS (CONT.)

■ 3.14 Lid & trim cat. nos 6 896 30/31/32/33/40/41/42/43

The lid & trim can be locked (floor box should not be locked when in use)



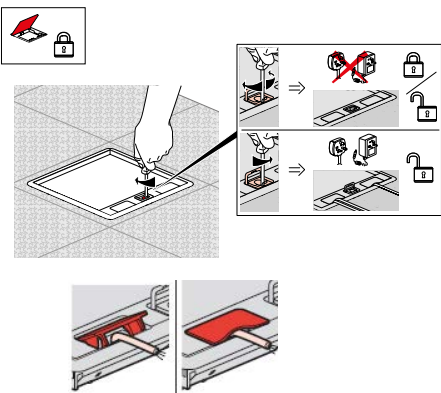
Lid & Trim

Stainless steel insert

Rigid cable exits

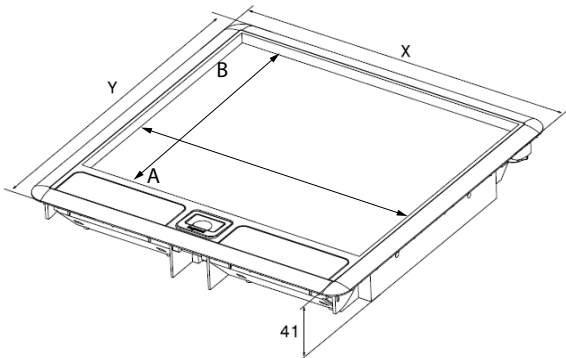
Soft cable exits

3 compt	grey	6 896 30	6 896 31	6 896 92
	beige	6 896 32	6 896 33	
4 compt	grey	6 896 40	6 896 41	6 896 93
	beige	6 896 42	6 896 43	



Rigid and flexible cable exits: maximum cable capacity 4 cables Ø 7mm + 3 cables Ø 11mm

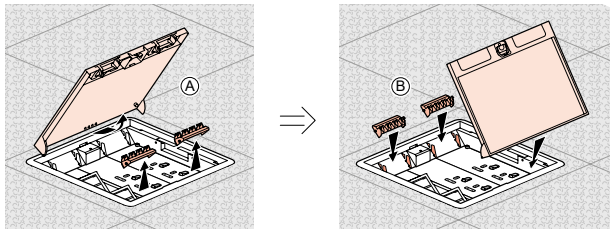
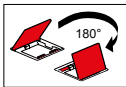
Lid & trim handle material = Zamak



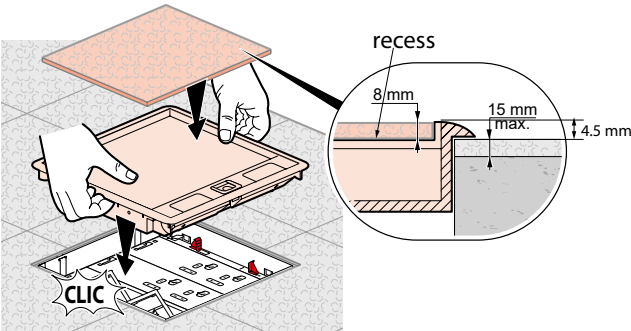
2 colours are available for lid & trim:

- Grey RAL 7031 (for cat nos 6 896 30/31/40/41)
- Beige RAL 1019 (for cat. nos 6 896 32/33/42/43)

The lid is reversible (180°) to adapt to office furniture reconfiguration.

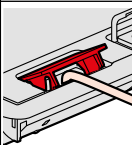
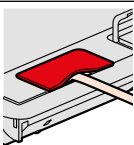


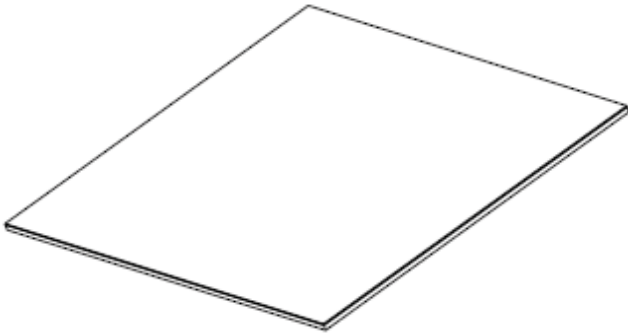
Cat. nos	X	Y	A	B
6 896 30/31/33/33	280	280	245.5	210
6 896 40/41/42/43	357	280	322	210



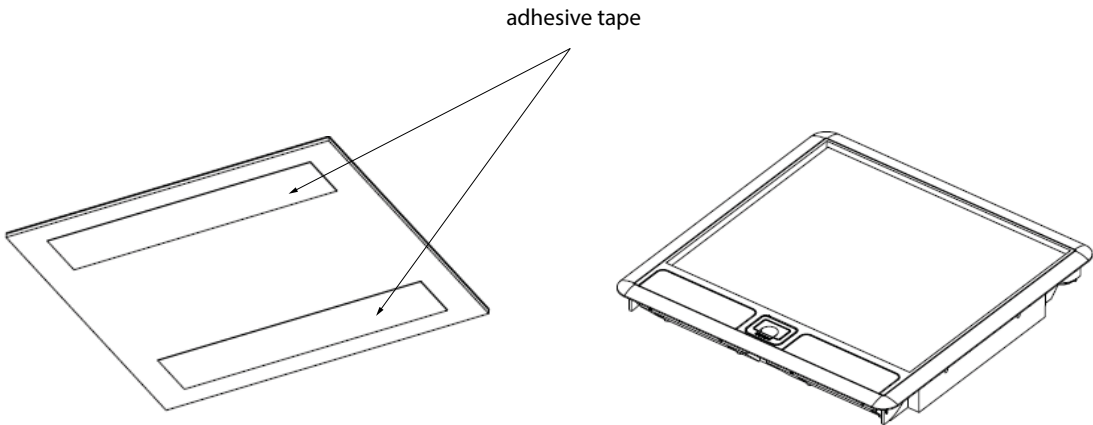
3. DIMENSIONS (CONT.)

■ 3.15 Insert for lid & trim cat. nos 6 896 92/93

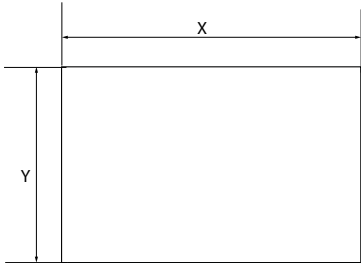
		Lid & Trim 		Stainless steel insert 	
		Rigid cable exits 	Soft cable exits 		
3 compt	grey	6 896 30	6 896 31	6 896 92	
	beige	6 896 32	6 896 33		
4 compt	grey	6 896 40	6 896 41	6 896 93	
	beige	6 896 42	6 896 43		



The stainless steel insert allows a perfect finishing of the lid & trim cover.
In order to fit the stainless steel insert onto the lid, use the double side (adhesive x2) tape provided.



Dimensions (mm):



Thickness: 7mm

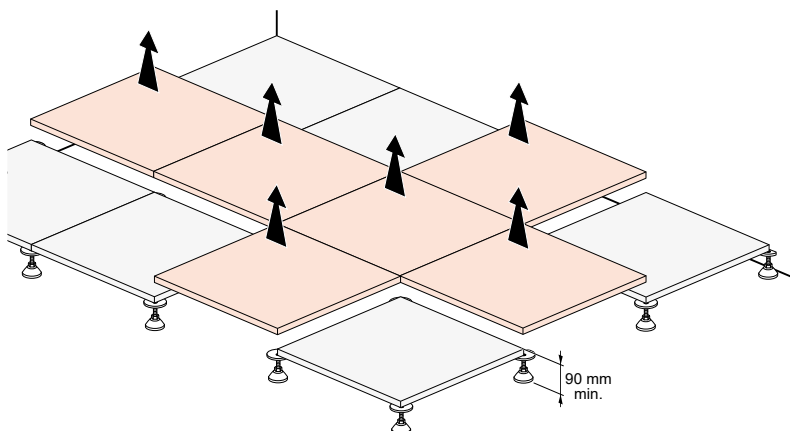
Lid & trim	X	Y
3 compartments	245.5	210
4 compartments	322	210

Cleaning:
The exterior should only be cleaned using a cleaner degreaser.

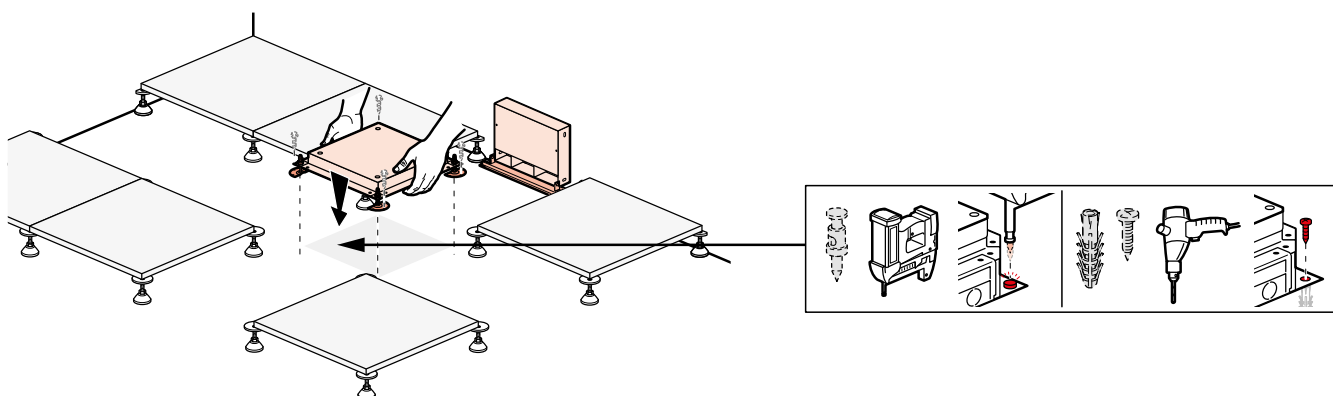
4. INSTALLATION

■ 4.1 Installation process

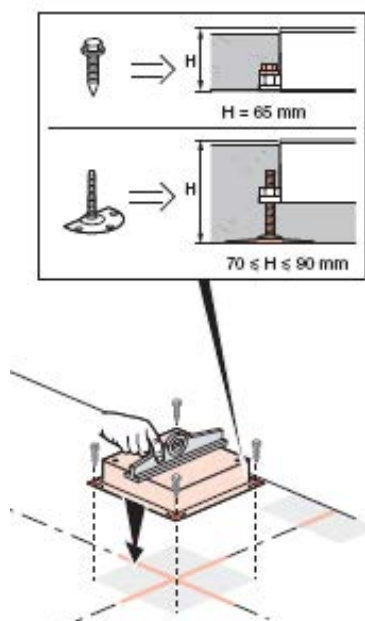
A - Remove the raised access floor tiles along the required pathway



Fix the junction boxes, risers and flat angles to the slab at the required location



(level if required, use leveling brackets cat. no 6 897 88)

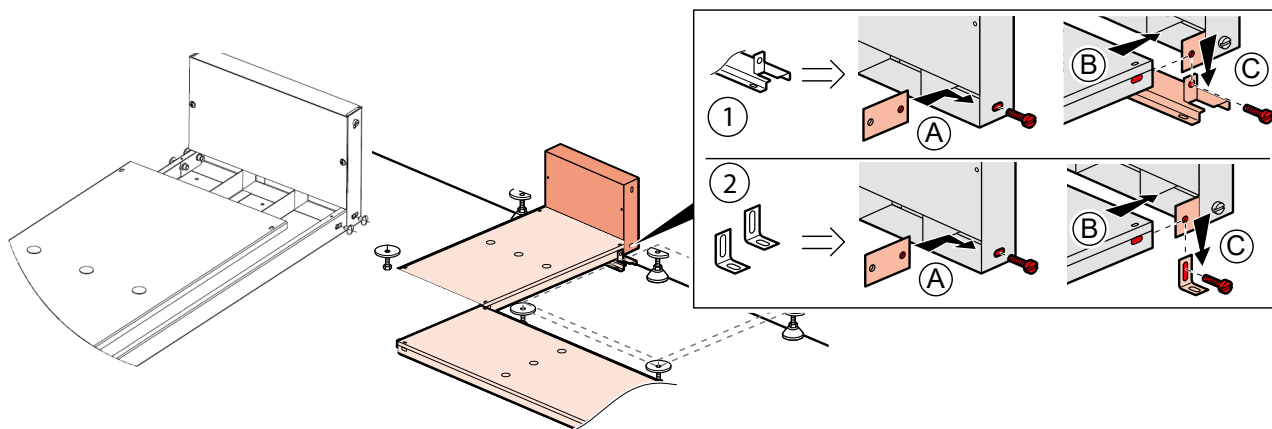


4. INSTALLATION (CONT.)

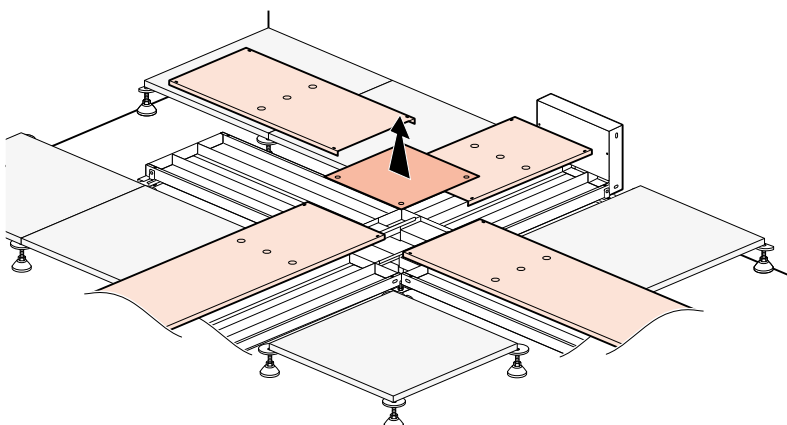
■ 4.1 Installation process (cont.)

B- Fix trunking and all accessories with fixing brackets to the slab:

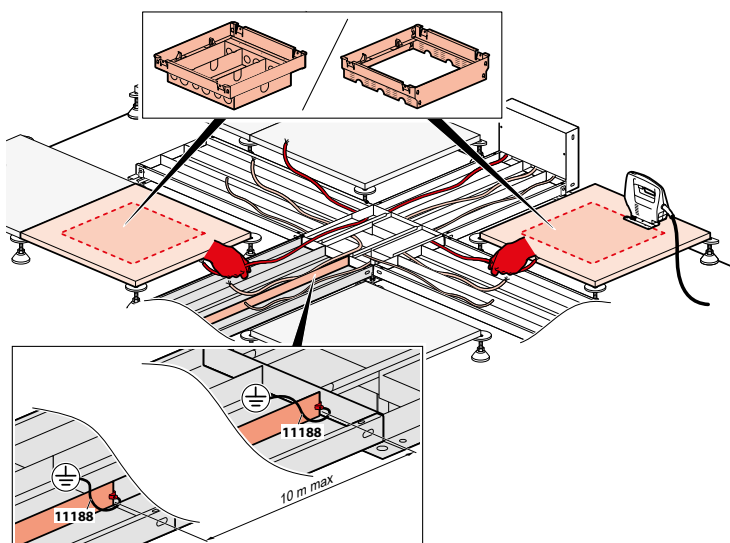
- 1- with levelling,
- 2- without levelling



C- Remove all covers for cabling

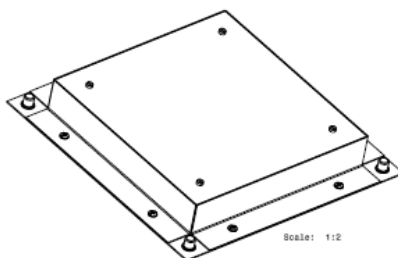


D- Cut raised access floor tiles according to backbox size and earth the system (maximum every 10meters)



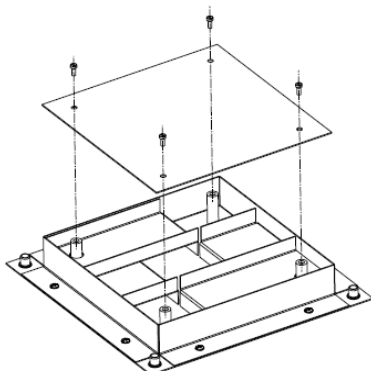
4. INSTALLATION (CONT.)

■ 4.2 Junction box cat. no 6 897 78/80/81 installation

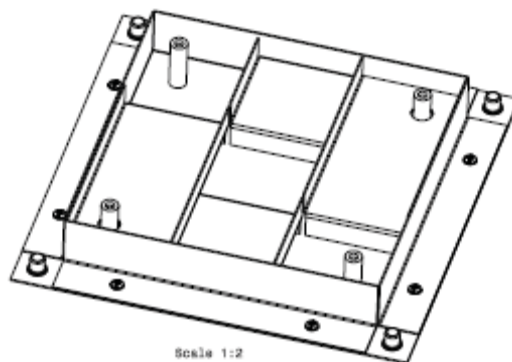


The junction box is used for simple junction or connection point. The junction box should be positioned directly on the slab and provides access to cables at the intersection of trunkings or changes of direction. The junction box allows deviation of power and data cable, adjustable height with 4 leveling brackets ref 6 897 88 (details on previous page). Junction Boxes are supplied as a base with a lid and flyovers.

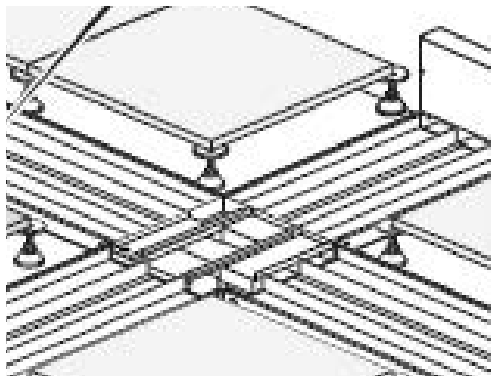
1- Fix the junction box on the slab and remove the lid



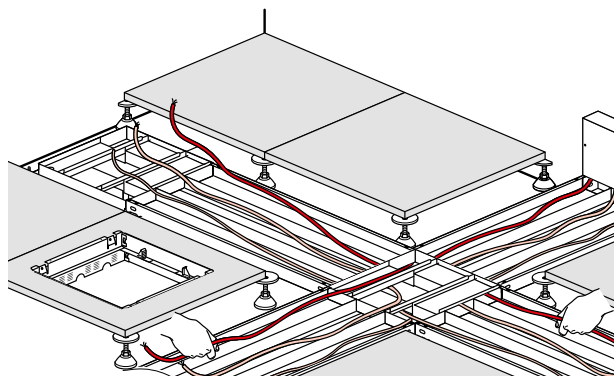
2- Pull the flyovers out of the junction



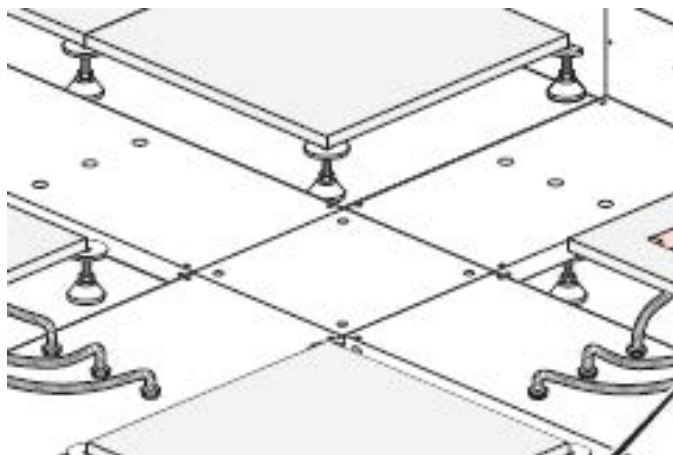
3- Connect to the trunking with screws and remove the covers



4- Cable the trunking

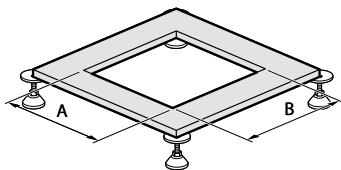
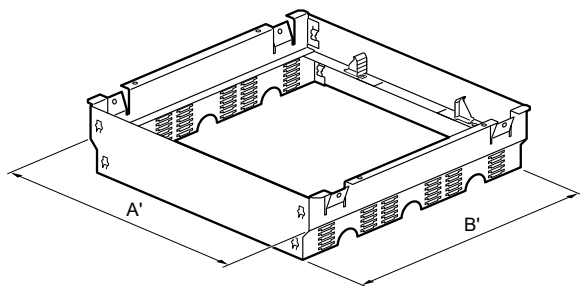


5- Put the lid and cover of the trunking back again



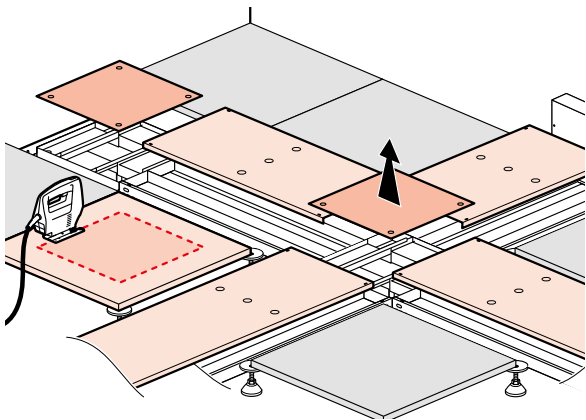
4. INSTALLATION (CONT.)

■ 4.3 Support frames cat. no 6 896 39/49 installation

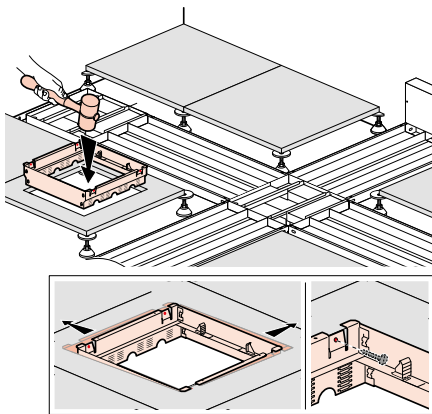


	A (mm)	B (mm)	6896 60	6896 61	6896 60 + 6896 61
6896 39	264	264	 x 3	—	 + 
6896 49	264	341	 x 4	 x 2	 x 2 + 

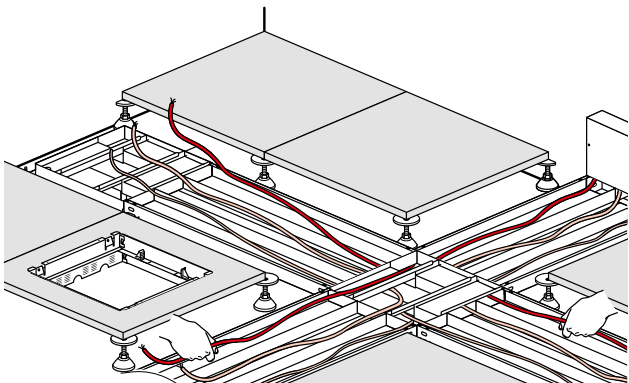
1- Remove all covers for cabling and cut raised floor tiles according to backbox size



2- Backbox installation in the raised access floor tile is a push and fit principle.



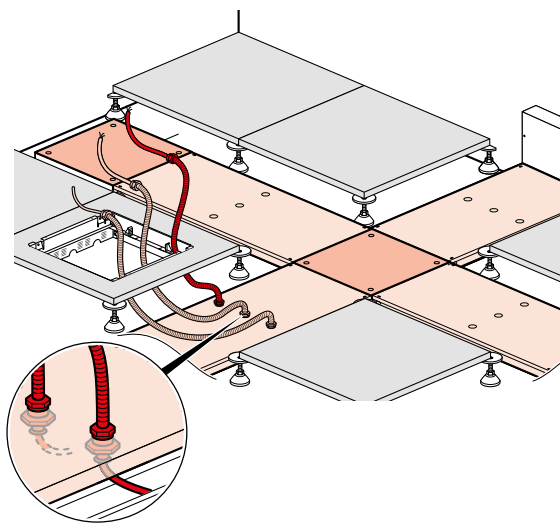
Fixing by screw also possible.
3- Cable the trunking



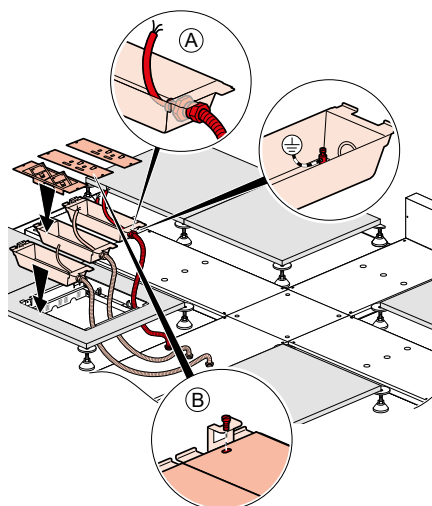
4. INSTALLATION (CONT.)

■ 4.3 Support frames cat. no 6 896 39/49 installation (cont.)

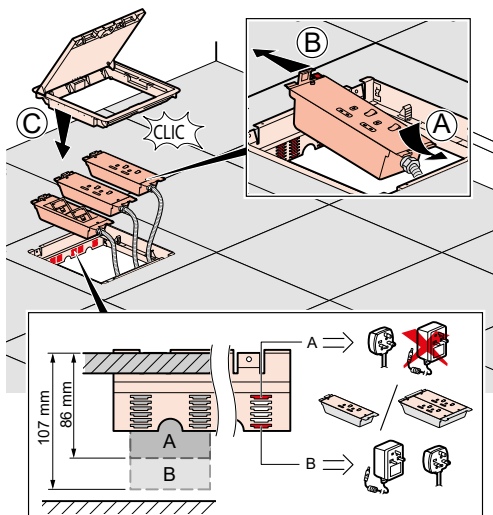
4 - On trunking, remove knockouts to fit flexible conduit (Ø21mm)



5- Fix the wiring accessory plates and earth the system

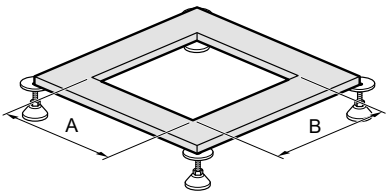
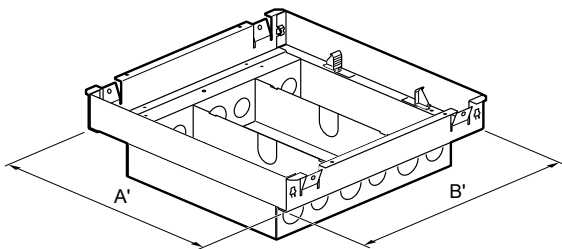


6- For the modular backbox, clip the individual modules to desired depth



4. INSTALLATION (CONT.)

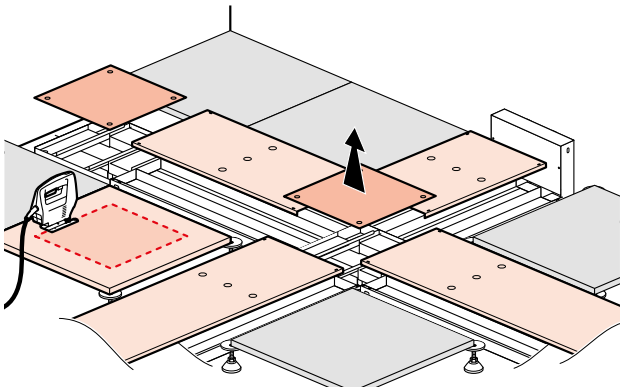
■ 4.4 Full backbox (frame+support) cat. no 6 896 38/48 installation



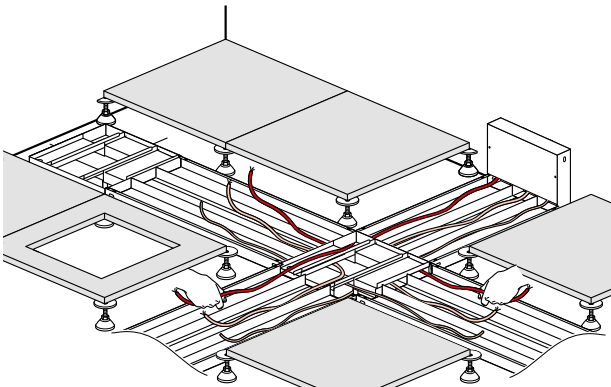
	A (mm)	B (mm)
6896 38	264	264
6896 48	264	341

Tolerance for dimensions A and B = 0 / +2mm

1- Remove all covers for cabling and cut raised floor tiles according to backbox size

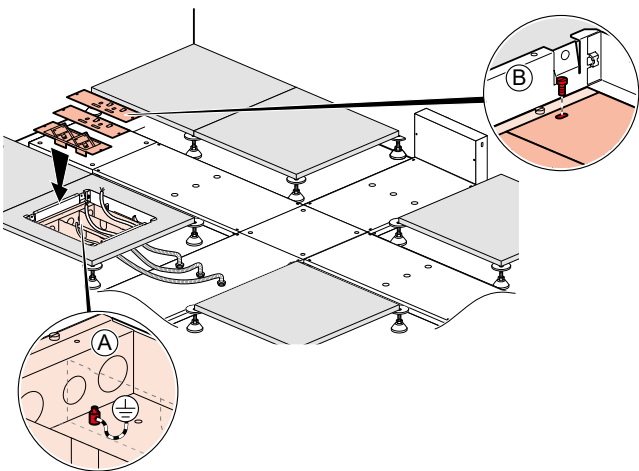
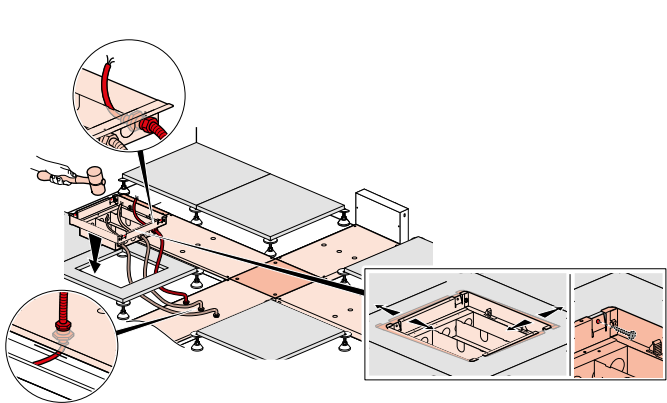


2- cable the trunking



3- Backbox installation in the raised access floor tile is a push and fit principle, on trunking, remove knockouts to fit flexible conduit.

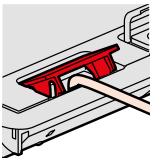
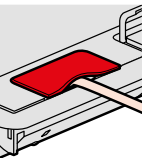
4 - Fix the wiring accessory plates and earth the system.



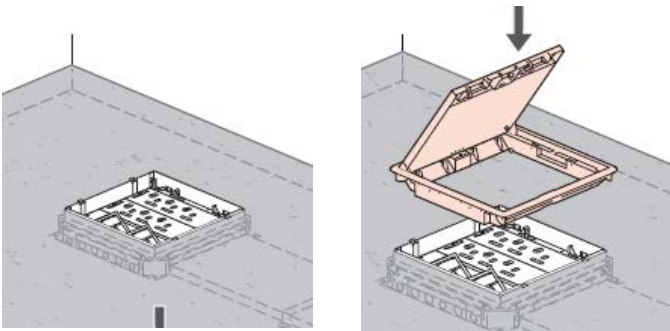
fixing by screw also possible.

4. INSTALLATION (CONT.)

■ 4.5 Lid & trim cat. nos 6 896 30/31/32/33/40/41/42/43

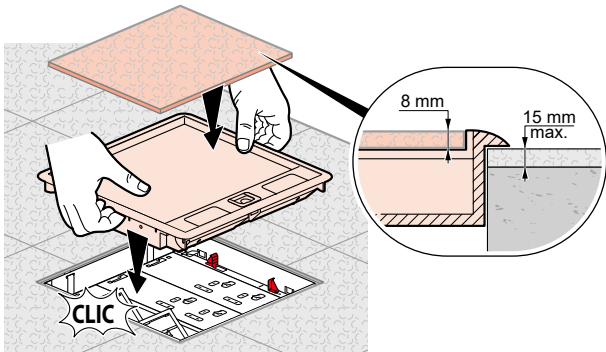
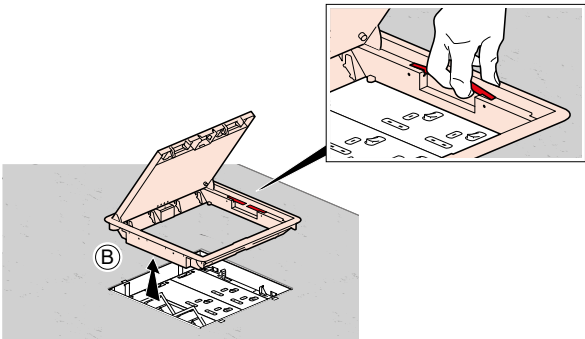
		Lid & Trim		Stainless steel insert	
					
					
		Rigid cable exits	Soft cable exits		
3 compt	grey	6 896 30	6 896 31	6 896 92	
	beige	6 896 32	6 896 33		
4 compt	grey	6 896 40	6 896 41	6 896 93	
	beige	6 896 42	6 896 43		

After installing the wiring accessory plates, push down the lid & trim onto the backbox.



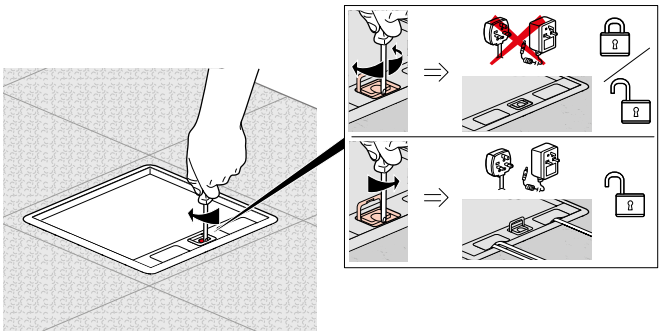
Finally, to install the finished floor:

- 1 – To fit carpet, pull the levers upwards on both sides to take out the lid and trim.
- 2 – Fit the carpet and push down the lid and trim on the backbox (push and fit principle)



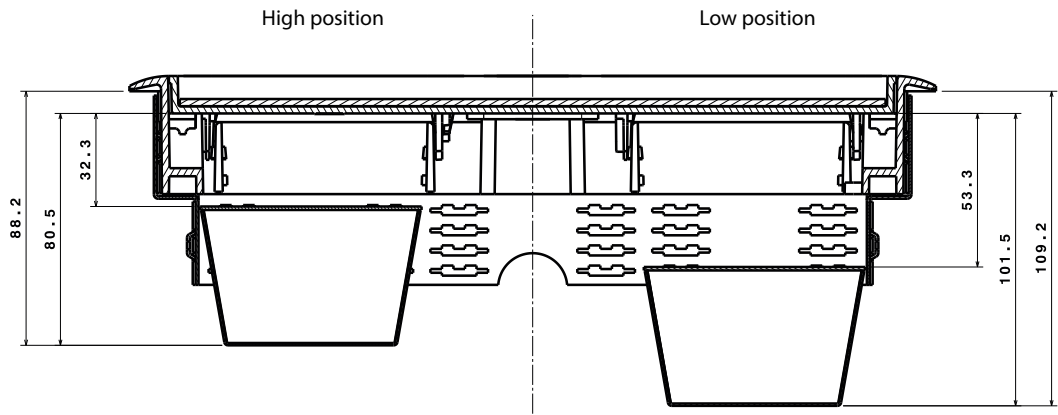
Locking system:

The floor box can be locked by means of a locking system (hidden under the opening handle); For safety reasons, floor box should not be locked when in use.

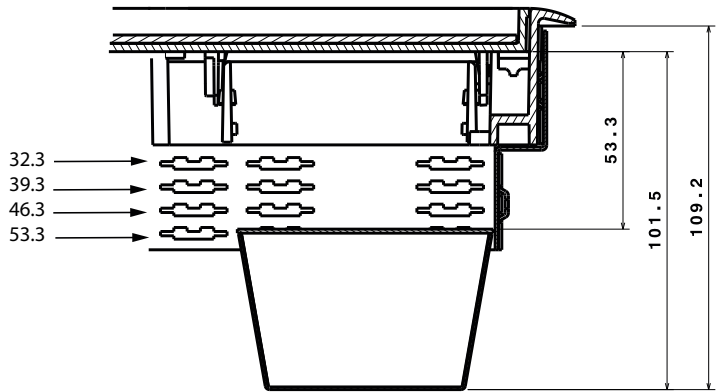


5. TECHNICAL CHARACTERISTICS

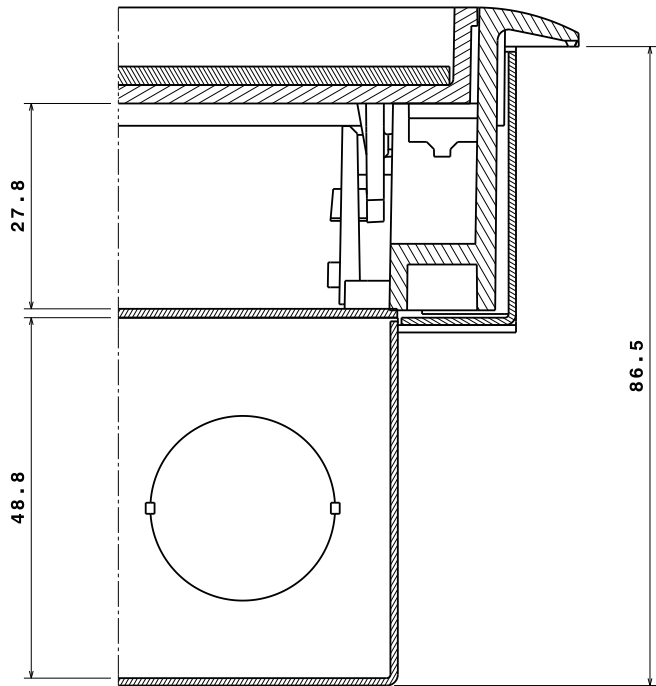
Assembly raised floor:



Dimensions (mm) of the different positions of the module:



Assembly full backbox and lid and trim:



Raised Floor system

Cat. No(s) : 6 896 30/31/32/33/38/39/40/41/42/43/48/49/60/61/92/93 - 6 897 55/70/71/73/74/77/78/80/81/82/83/85/86/87/88/89

5. TECHNICAL CHARACTERISTICS (CONT.)

Classification for raised floor (standard EN 50085-2-2)

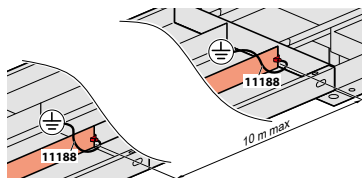
6.2 Resistance to impact for installation and application	2.0J
6.3 Minimum storage and transport temperature	- 25°C
6.3 Minimum installation and application temperature	- 5°C
6.3 Maximum application temperature	+ 60°C
6.4 Resistance to flame propagation	Non-flame propagating
6.5 Electrical continuity characteristic	Without electrical continuity characteristic (PVC ducting) With electrical continuity characteristic (Metal ducting & accessories)
6.6 Electrical insulating characteristic	With electrical insulating characteristic (PVC ducting) Without electrical insulating characteristic (Metal ducting & accessories)
6.7 Degrees of protection provided by enclosure	IP 20
6.9 The system access cover retention	With a tool
6.101 Floor treatment	for dry-treatment of floor
6.102 Resistance to vertical load applied through small surface area	1500 N*
6.103 Optional classification: resistance to vertical load applied through large surface area	3000 N
Rated voltage (PVC ducting)	500V
Protection against mechanical impact	IK08
Linear impedance in mΩ/m of metal ducting length	5 mΩ/m

* for 4 compartments, resistance to vertical load applied over a small surface area = 750N

Composition and functions for screed floor system:

		Fixing brackets	Coupler	End cap	Leveling	Riser	Junction box	Flat angle	Full Backbox	Backbox - multibaskets				Lid & Trim	Stainless steel insert	
					 X 4					Support box		Single basket	Double basket			
									3 compt	4 compt	3 compt	4 compt				
225 x 38 (mm)	6897 70			6897 85	6897 87		6897 82	6897 80 or 6897 78	6897 73					6896 30	6896 31	6896 92
Metal		6897 55	6897 77			6897 88		6897 83 or 6897 81		6896 38	6896 48	6896 39	6896 49		6896 60	
300 x 38 (mm)	6897 71			6897 86	6897 89				6897 74					6896 40	6896 41	6896 93
Metal															6896 42	

Important: Every 10meters maximum, earth the system (with ref 11188)



Metal trunking and Accessories

Cat. Nos	Designation	to earth the system
6 897 70	Trunking	Yes
6 897 71		
6 896 38	Full backbox 3 compartments	
6 896 48	Full backbox 4 compartments	
6 896 60	Single basket	
6 896 61	Double basket	

Note: earth the wiring accessory plates (by using the screw on bottom side) page 20