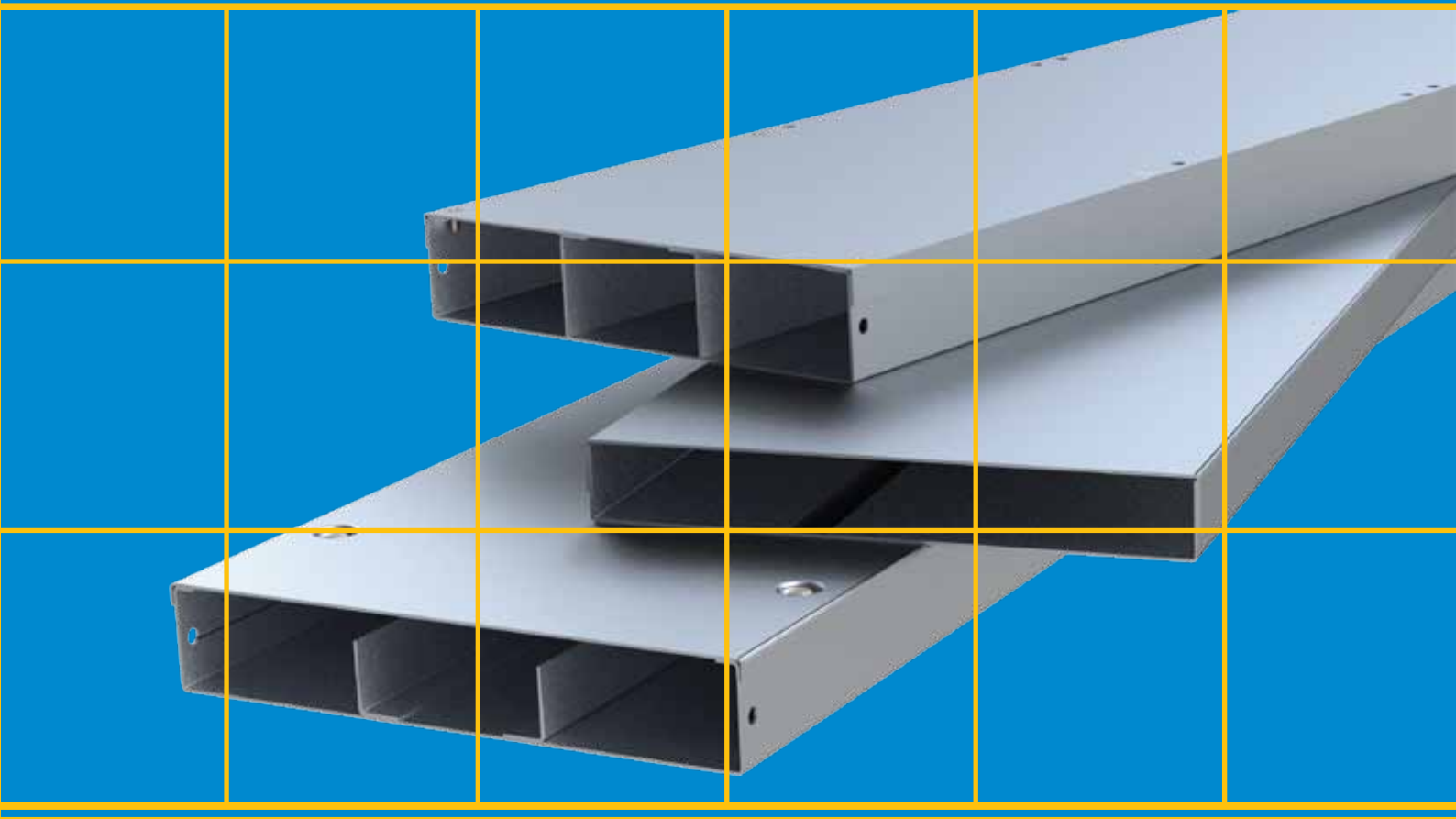
Power Solution Industries

DESIGN, ENGINEERING & MANUFACTURING COMPANY



PRODUCT CATALOGUE

BSI KITEMARK

ISO 9001 14001 45001 CERTIFIED

FLOOR TRUNKING SYSTEMS

CONTENTS

EDITION 2023

POWER SOLUTION® psi

Engineered to Excellence

bsi

BSI
KITEMARK

BSI KITEMARK CERTIFIED PRODUCTS

1ST CABLE MANAGEMENT MANUFACTURING COMPANY IN MIDDLE EAST AND AFRICA

Power Solution Industries quality plan conforms comprehensivily to ISO 9001:2015, ISO 45001: 2018, ISO14001: 2015. The quality assessment and reviews are carried out by DET NORSKE VERITAS. The organization defines its quality objectives at the various levels of the company in order to achieve continual improvement in quality management system.

FLOOR CABLE MANAGEMENT SYSTEMS

The infrastructure of Commercial, Industrial and Residential buildings worldwide have become complex in the modern era. The architectural designs of the past two decades have shown that more buildings were completed with “glass facades” whereby aiding natural lighting and natural heating / cooling, in turn reducing the energy costs. The concept of green buildings paved way for more stringent measures in energy conservation along with lesser carbon emissions and footprints. Modern buildings now have less retaining and separation walls therefore the only method for distributing power, data and voice is through the floor and roof.

Such new requirements of cable management require efficient and applicable methods of distribution and hence evolution of floor distribution systems came into practice. The different types of floor cable management systems are as follows.

UNDER FLOOR CABLE MANAGEMENT SYSTEM: Popularly known as the in-screed type, where the trunking will be will be submerged / buried within the screed or concrete and only the boxes (service outlets / junctions) are visible at the final finished floor level. It is one of the most widely used floor systems for public utility buildings such as airports, bus terminals, railway stations, shopping malls, hospital, schools, colleges and is more commonly used for floor finishes such as tiled, vinyl, marble or granite floors. Carpet application is also allowed with this type of floor cable management system.

RAISED FLOOR CABLE MANAGEMENT SYSTEM: Popularly known as cavity flooring, whereby there is a raised false floor above the slab. Raised floor trunking is on the slab level and cable distribution is carried through the trunkings, terminating in floor boxes which are mounted in to the raised false floor. This system is generaly followed for “dry clean” carpeted applications. The raised floor system is considered to be the most flexible mode of cable management as it allows service outlet relocation in any direction.

FLUSH FLOOR CABLE MANAGEMENT SYSTEM: A popular methodology adopted for commercial offices where the trunkings, as well as the boxes, are on finished floor level. This type is widely used in “shell & core” type of building where the tenants have their own power & data / voice distribution plans. In most of the cases, this is used for dry clean, carpeted floors, offering a better flexibility over the in-screed system.

GENERAL COMMENTS: Ideally the design engineers, architects, consultants, etc, choose the type of cable management modality depending on the type of building and its application.

Power Solution Industries offers all the three systems making us a complete solution provider in floor cable management system.

Combined with our technical and design capabilities, Power Solution industries are in a position to provide the solution to the most complex and demanding cable management requirement whilst complying to all renowned industry standards application in floor cable management distribution.

Our product are designed to be adapted for the entire cross section of the floor cable management options. All components of the system are manufactured to stringent quality procedure in our facilities located in Unites Arab Emirates and Saudi Arabia.

★ All our standard product are warranted for a period 12 months from date of installation or 18 months from date of procurement.

UNDER FLOOR CABLE MANAGEMENT SYSTEMS

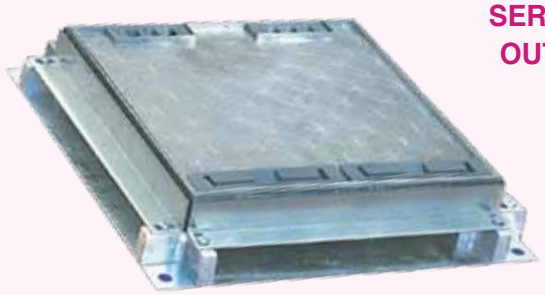
PSI branded under floor cable management systems are designed for distribution of power, data and voice services in floors where the trunkings are fully buried under the screed. These types of installations are also known as in-screed trunking systems.

Power Solution Industries under floor systems are designed to suit all types of in-screed floor cable management system requirements with complete accessories such as the couplers, end caps, vertical risers, junctions, service outlet boxes etc. whereby completing the entire range.

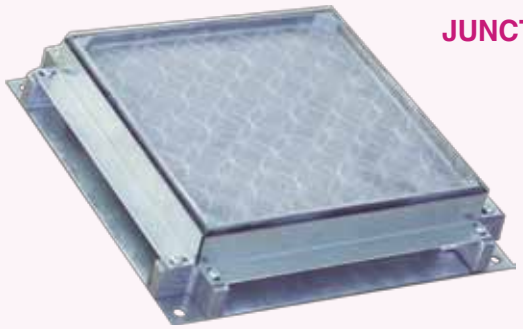
Under floor cable management systems are used in large public projects such as the airports, commercial offices, hospitals, stadiums, hotels, metro stations, large shopping malls, super markets, etc.

The applications are mostly for wet clean applications, where the floor finish will be either by tiles, granite, mosaic, marble etc. The system can be also used for dry clean applications, i.e. for carpet, vinyl, wood, parquet floorings, etc.

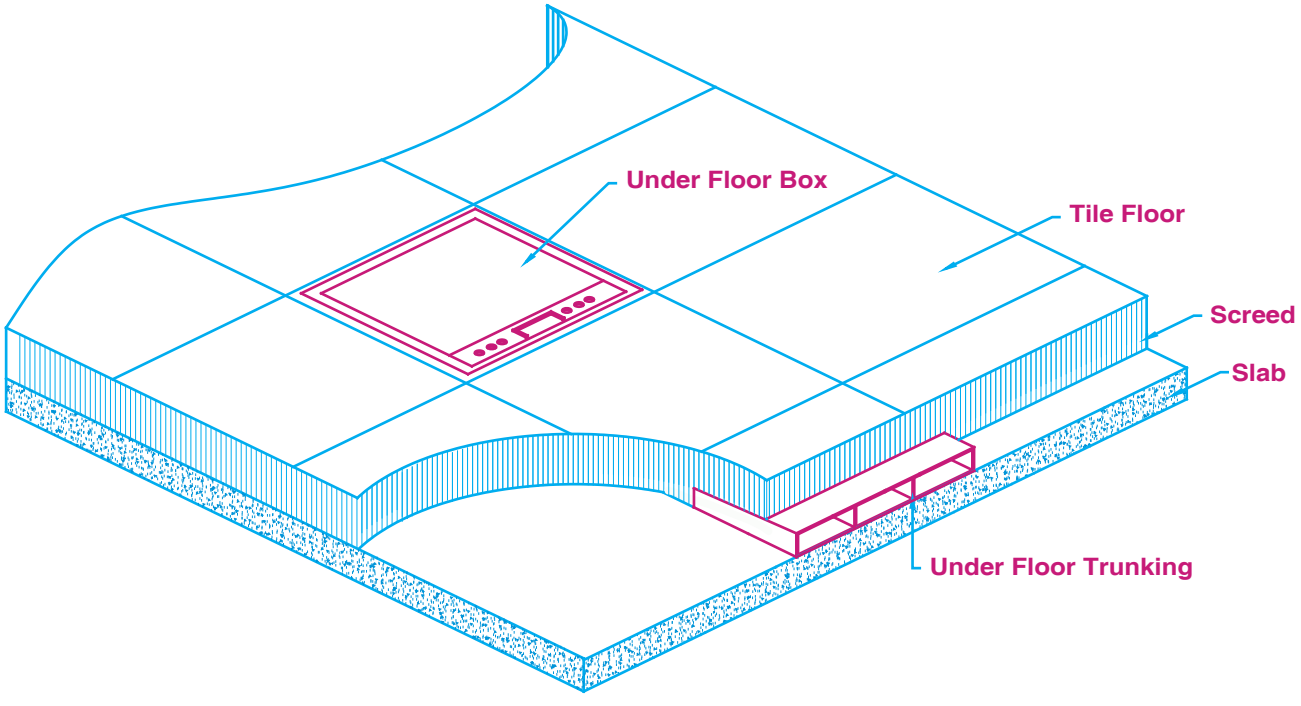
SERVICE OUTLET BOX



JUNCTION BOX



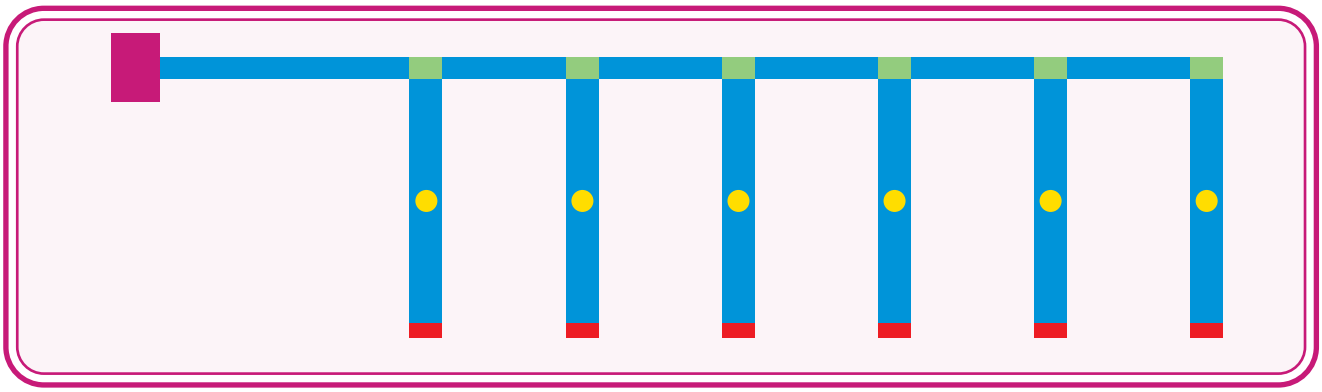
TYPICAL TILED APPLICATION OF UNDERFLOOR TRUNKING SYSTEM



UNDER FLOOR LAYOUT PATTERNS

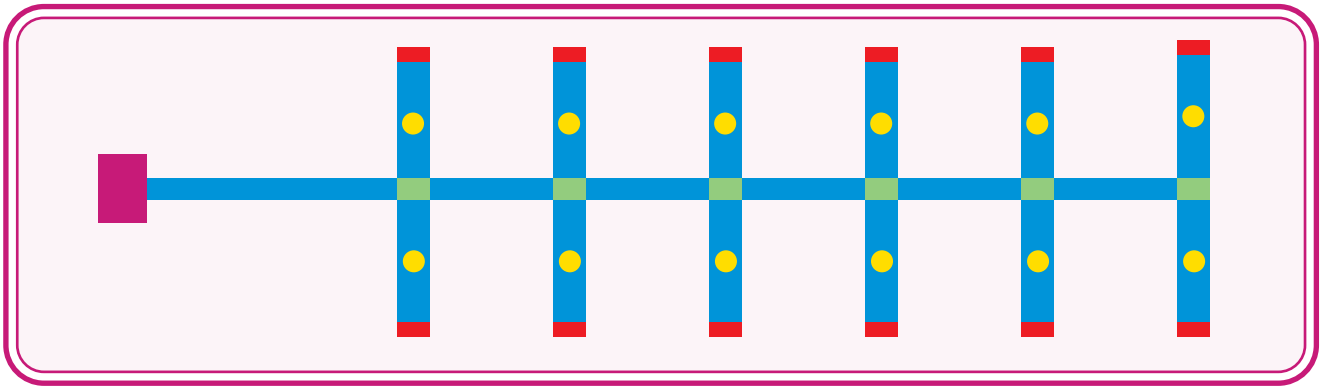
COMB DESIGN

Mostly suitable for low density service area. This is also the most cost effective solution for any type of floor trunking.



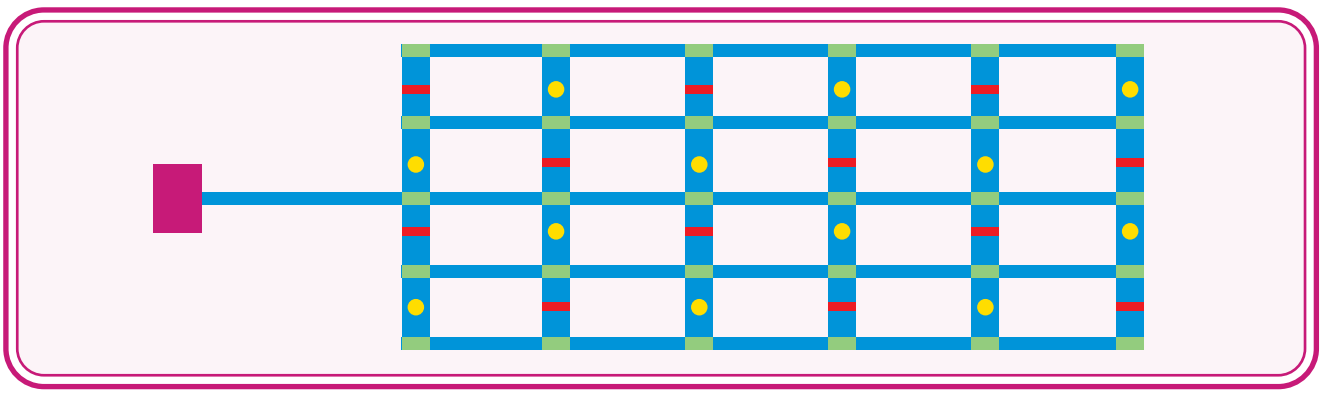
FISH BONE DESIGN

One of the most commonly followed designs which ensures maximum flexibility in terms of reorganizing the boxes as per the tenants requirements.



GRID PATTERN DESIGN

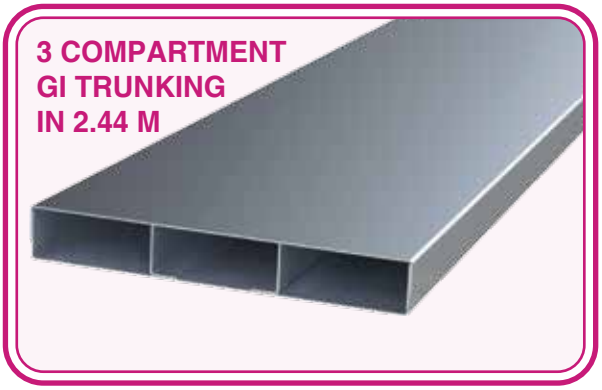
Most expensive compared to the other two designs, but highest in terms of flexibility. This design gives the tenant higher convenience in terms of re-organizing the work places when it comes to commercial establishments.



UNDER FLOOR TRUNKINGS

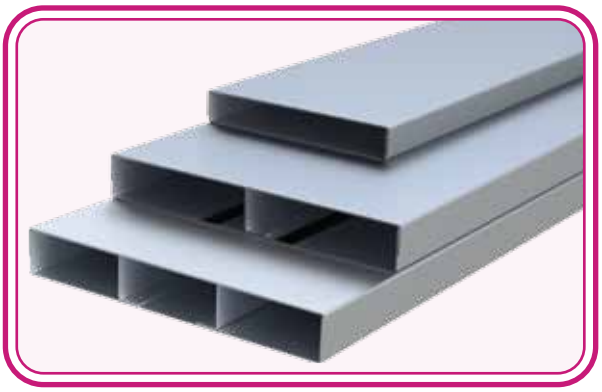
IN-SCREED TRUNKING

TYPE	TRUNKING SIZE (W x H) mm	NO.OF COMPARTMENTS (COMP.SIZE) mm
HEADER TRUNKING		
UFT / 275 / 28	275 x 28	3C (100 x 75 x 100)
UFT / 300 / 38	300 x 38	3C (100 x 100 x 100)
BRANCH TRUNKING		
UFT / 225 / 28	225 x 28	3C (75 x 75 x 75)



Power Solution Industries unique design formed by dual sections makes it's the most robust trunking available in the market and also has a high load bearing capacity.

Other sizes are possible on special project requirements in Header & Branch Trunking.



COMPONENTS	THICKNESS (mm)	LENGTH (m)
Trunking Body	1.2 / 1.6	2.44 / 3
Trunking Cover	1.2 / 1.6	2.44 / 3
Seperators	1.2	2.44 / 3

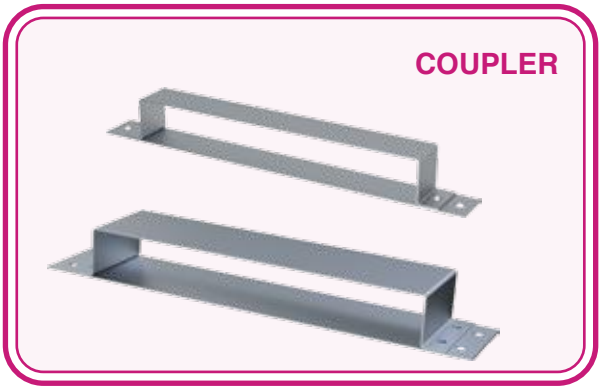
★ Special thickness of 2 mm can be offered.

STANDARD FINISHES

Pre-galvanized to BS EN 10346 : 2015

COUPLER

For Connections between the lengths and also for holding the trunking on the slab. Different sizes of the same are available along with different sizes of trunking.



TYPE	TRUNKING SIZE (W x H) mm	NO.OF COMPARTMENTS (COMP.SIZE) mm
UFC / 225 / 28	225 x 28	3C (75 x 75 x 75)
UFC / 275 / 28	275 x 28	3C (100 x 75 x 100)
UFC / 300 / 38	300 x 38	3C (100 x 100 x 100)

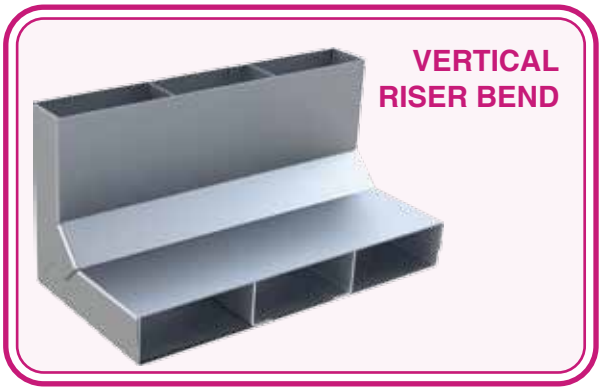
★ Customized sizes could be produced for special project requirements.

VERTICAL RISER BEND

Vertical riser bends are used for connection between the feeding center/ distribution board.

TYPE	TRUNKING SIZE (W x H) mm	COMPARTMENTS mm
UFT / VR / 225 / 28	225 x 28	3C (75 x 75 x 75)
UFT / VR / 275 / 28	275 x 28	3C (100 x 75 x 100)
UFT / VR / 300 / 38	300 x 38	3C (100 x 100 x 100)

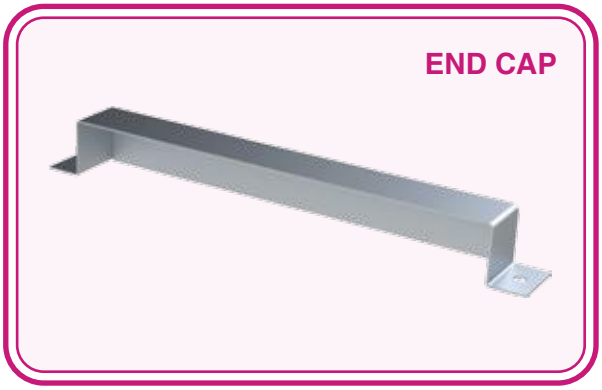
Vertical riser bends are produced in 1.2 mm thickness.



END CAP

End cap is the device used for closing the trunkings at end points.

TYPE	TRUNKING SIZE (W x H) mm	COMPARTMENTS mm
UFT / EC / 225 / 28	225 x 28	3C (75 x 75 x 75)
UFT / EC / 275 / 28	275 x 28	3C (100 x 75 x 100)
UFT / EC / 300 / 38	300 x 38	3C (100 x 100 x 100)



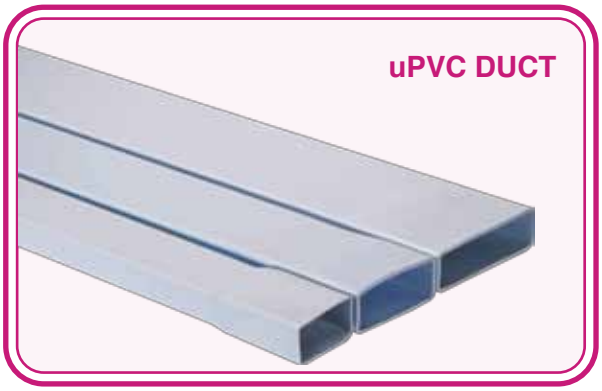
uPVC Ducts

Material: High impact uPVC Plastics.

Standard length is 2.9 m.

Trapezoidal shape for higher strength.

TYPE	DUCT SIZE (W x H) mm	THICKNESS mm	COMPARTMENTS
UPVD / 5025R / T	50 x 25	2.5	1
UPVD / 7525R / T	75 x 25	2.5	1
UPVD / 7525R1 / T	75 x 25	3.2	1
UPVD / 10025R / T	100 x 25	2.7	1
UPVD / 10025R1 / T	100 x 25	3.2	1

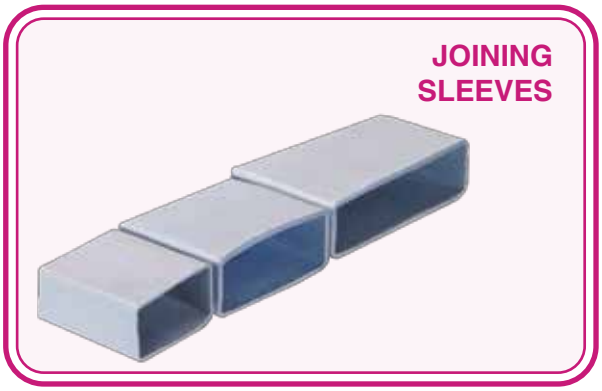


JOINING SLEEVES

Joining Sleeves are used to connect the ducts.
Material: High impact uPVC plastics.

TYPE	DUCT SIZE (W x H) mm	THICKNESS mm	COMPARTMENTS
UPVS / 5025C / T	50 x 25	2.5	1
UPVS / 7525C / T	75 x 25	2.5	1
UPVS / 7525C1 / T	75 x 25	3.2	1
UPVS / 10025C / T	100 x 25	2.7	1
UPVS / 10025C1 / T	100 x 25	3.2	1

★ Customized Trunking sizes could be produced for special project requirements.



JUNCTION BOXES

The Under Floor Junction Boxes for Header and Branch Trunkings are used in Cross, Tee, L Type and comprise of the following components

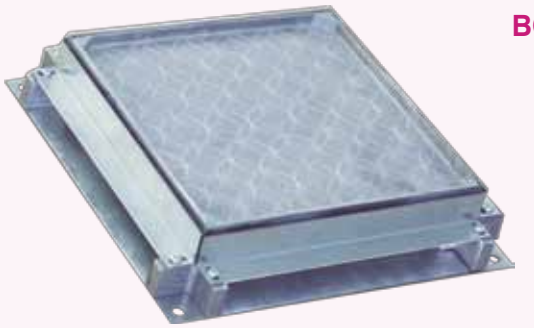
- ★ Base Box
- ★ Cross Over or Fly Over for changing the cable directions
- ★ Trap & Frame or Cassette

The base box is made in galvanized sheet steel with height adjustments from 56-90/95 mm & made from pre-galvanized sheet steel confirming to BS EN 10346 : 2015 (Z275)

- ★ The box frame is made of high pressure die cast zinc alloy rust proof material.
- ★ Pillar support with high pressure die cast zinc alloy, where height is adjustable.
- ★ Cross over / fly over constructed from pre-galvanized sheet steel complies to IEEE regulations.
- ★ Trap & Frame is available in two options with a recess of 6 mm for carpet application and 9 mm for tile /marble finish.

Junction boxes are available in three different sizes to suit the header and branch trunking.

JUNCTION BOX



JUNCTION BOX

TYPE	BOX SIZE (L x W x H) mm	COMPARTMENTS	MAX.TRUNKING ENTRY (W x H)	COVER RECESS mm	APPLICATION
JB / 250 / 3 / DA / 6	250 x 250 x 75 - 90	3	225 x 28 / 32	6	Dry Clean
JB / 250 / 3 / WC / 9	250 x 250 x 75 - 90	3	225 x 28 / 32	9	Wet Clean
JB / 300 / 3 / DA / 6	300 x 300 x 75 - 90	3	275 x 28 / 32	6	Dry Clean
JB 300 / 3 / WC / 9	300 x 300 x 75 - 90	3	275 x 28 / 32	9	Wet Clean
JB / 325 / 3 / DA / 6	325 x 325 x 75 - 90	3	300 x 38	6	Dry Clean
JB / 325 / 3 / WC / 9	325 x 325 x 75 - 90	3	300 x 38	9	Wet Clean

- ★ **DA** Dry Applications for Carpet
- ★ **WC** Wet Clean applications for Tile / Marble / Granite.

- ★ Junction Boxes are also available in 2 Compartments and special requirements can be made on request.
- ★ Special size Boxes can be offered on project requirement and technical data sheet can be provided.
- ★ Leveling depth from 56-130mm possible as special.

SERVICE OUTLET BOXES

The under floor service outlet boxes are meant for mounting the wiring devices such as power sockets, data & telephone outlets. These boxes are generally in 3 compartments and can be also in 2 or 4 compartments which are optional.

The Under Floor Service Outlet Boxes comprise of the following components

- ★ Base Box with adjustable depth from 56-90/95mm.
- ★ Epoxy Coated Service Outlet panel.
- ★ A cassette to carry the Tile /Granite /Marble for wet clean applications or a trap and frame for carpet application.

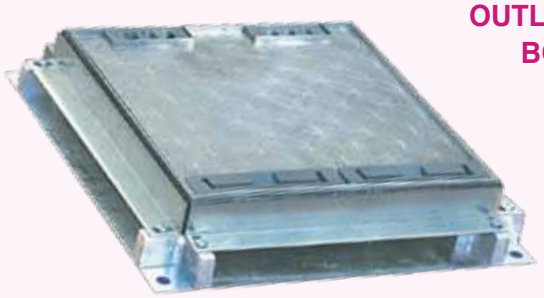
The base box to be of robust construction is made in galvanized sheet steel with height adjustments from 56-90/95 mm & made from pre-galvanized sheet steel confirming to BS EN 10346 : 2015 (Z275)

- ★ The box base frame trap frame, and out let panel are made of hot dipped galvanized steel sheet which to BS 2898.
- ★ The trap,frame and outlet panel are powder coated to provide a good finish and protection to visible parts.
- ★ The side plates of the box base are designed to be used for trunking and conduit entries,recessed 6mm and 9 mm to enable it to accept carpet or vinyl tile floor finishing.
- ★ Pillar support with high pressure die cast zinc alloy Height adjustability from or 56-90/95mm.

Service Outlet Boxes are available in 2 different sizes

SERVICE OUTLET BOX

SERVICE OUTLET BOX



TYPE	BOX SIZE (L x W x H) mm	COMPARTMENTS	MAX.TRUNKING ENTRY (W x H)	COVER RECESS mm	APPLICATION
SB / 250 / 3 / DA / 6	250 x 250 x 75 - 90	3	225 x 28 / 32	6	Dry Clean
SB / 250 / 3 / WC / 9	250 x 250 x 75 - 90	3	225 x 28 / 32	9	Wet Clean
SB / 300 / 3 / DA / 6	300 x 300 x 75 - 90	3	275 x 28 / 32	6	Dry Clean
SB 300 / 3 / WC / 9	300 x 300 x 75 - 90	3	275 x 28 / 32	9	Wet Clean

- ★ **DA** Dry Applications for Carpet
- ★ **WC** Wet Clean applications for Tile / Marble / Granite.

- ★ Special size Boxes can be offered on project requirement and technical data sheet can be provided.

UNDER FLOOR SERVICE OUTLET BOX

CARPET APPLICATION - CONDUIT ENTRY

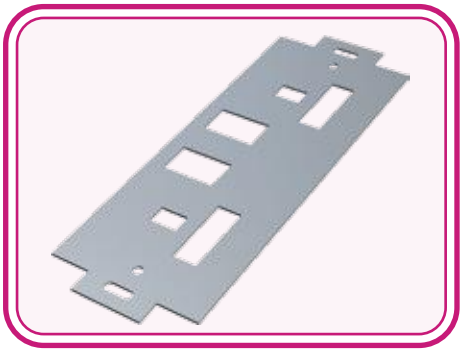
Three or Four Compartment in screed Floor Box designed for conduit entry application with polymide trap and frame. Floor box manufactured from galvanized steel 20 mm / 25 mm knockouts punched to accept PVC / GI conduits.

Designed to suit and accommodate BS plug top with 28 mm clearance. Trap & Frame (lid) made of high impact ABS. Dual Cable Exit flaps with tmoulded integral handle.

3 COMPARTMENT BOX	
TYPE	OVERALL DEPTH (mm)
UFB / 3065	65
UFB / 3075	75
UFB / 3085	85

4 COMPARTMENT BOX	
TYPE	OVERALL DEPTH (mm)
UFB / 4065	65
UFB / 4075	75

★ The above type of box can be made available in single compartment also



ACCESSORY MOUNTING PLATE

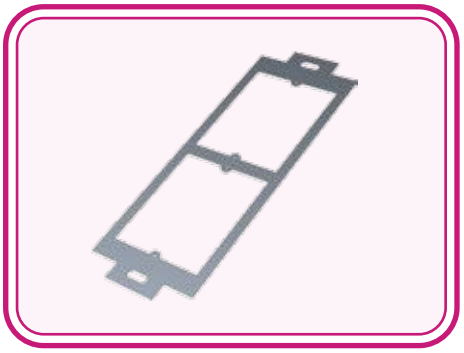
★ UFB-2GMSP — Mounting Plate for 2Gang Switched Socket (Special type for particular model)

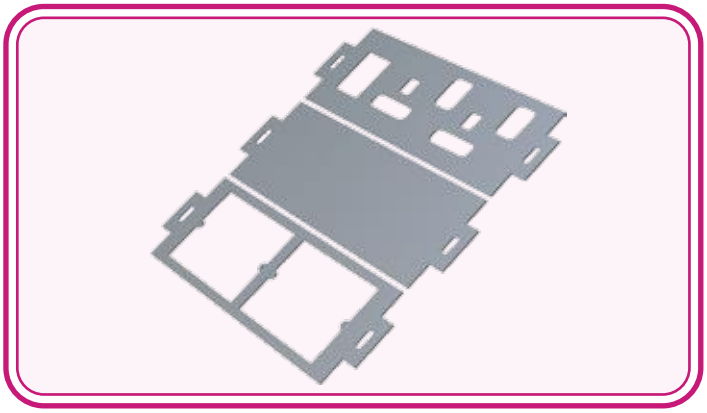
★ UFB-2GAS — Mounting for 2 Numbers of Single Gang Accessory (Surface Mounting)

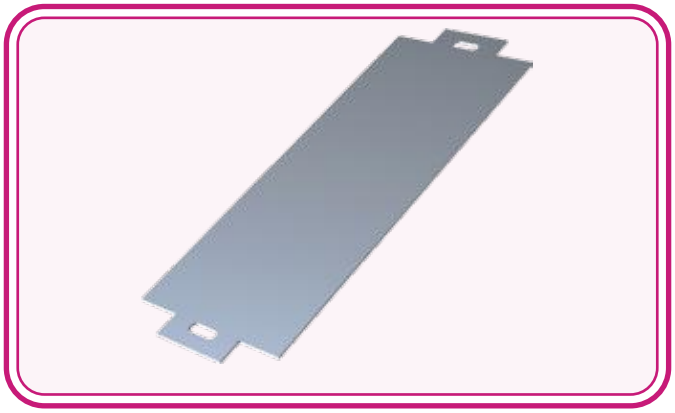
★ UFB-2GAF — Mounting for 2 Numbers of Single Gang Accessory (Flush Mounting)

★ UFB-4LJU6C — Mounting Plate for 4 numbers LJUU-6C RJ 45 Data Outlet.

★ Special mounting plates can also be offered.







INSTALLATION PROCEDURES FOR UNDER FLOOR DUCTING SYSTEM

Screed covered trunking systems are generally suited for all types of screed structures, cement screed, poured asphalt and floating screed. This type of ducting systems are used for large commercial areas /offices such as airports, shopping malls, hospital, universities, commercial establishments etc. The system comprises of the following components such as:

Trunking Lengths : Ducts of various sizes and depths which carry the power and data/voice distribution.

Couplers : For connection between the lengths and also for the ground / slab hold.

Riser Bends : For carrying the distribution from distribution centers or DB's on the vertical wall.

End Caps : Closure caps at the end of trunking, which helps and protects the cables inside and also prevents from screed flowing inside.

INSTALLATION METHODOLOGY

- ★ The slab / floor should be cleared, leveled and smooth surface should be created before the installation procedure. Having a 1 mm thick uniform ribbon screed is advisable for large installations to avoid air gaps and will also reduce the noise levels.
- ★ Draw mounting plan: To plan trunking routes, the crossing points ,positioning of junctions and service outlet boxes in advance and mark the same on the slab / floor using chalk line or marker.
- ★ Mounting of Junction boxes: Place and align the boxes at the crossing points before the mass trunking routes are determined. Always the Junction boxes and Service outlet boxes are supplied with dummy covers which are to used while screed pouring and once the screed is poured, the same can be taken out. This is to prevent screed seeping into the boxes. Generally the box leveling is done with spirit leveler.
- ★ Trunking installations: Lay the ducts in lengths according to the marked plan and use appropriate number of lengths to cover the distance and cut the lengths as per the requirement.
- ★ Duct Cutting: The simplest way to adjust the sheet steel is using a single handed angle grinder. After this, clean the cuts and subsequent smoothening of sharp edges are important as the cables are pulled in this type of installation.
- ★ Duct Couplers: Are positioned after the ducts have been cut to required size and length.
- ★ Equipotential bonding: All metallic parts of the trunking system must be included in the protective measure against indirect contacts with parts carrying voltage. The construction elements can be connected by soldering, welding, riveting or screwing.
- ★ Coupler & Trunking fixing: The fixing points of under floor ducts are pre-specified and fixing methods are determined according to substrate. Trunking and coupler are fixed using screws to the slab or floor.
- ★ Riser Bends are generally fixed from the wall to the floor for carrying the power or data from the distribution point. There are various methods of installing the riser bends, which can be either flush mounted to the wall or surface mounted, which needs to be decided by the designer or engineers. The riser bends to have a cover which to have cut outs for 20 and 25 mm conduit entry provision.

LAYOUT ASSEMBLY

RAISED FLOOR TRUNKING SYSTEMS

Power Solution Industries Raised Floor System has been specially designed for maximum flexibility in terms of services distribution. Power Solution Industries Raised Floor Systems are ideally suited for all types of commercial establishments, offices and shell and core building designs. This type also ensures maximum flexibility in terms of re-arranging the service outlet boxes with changing requirements of the tenants with out additional expenditure or inconvenience.

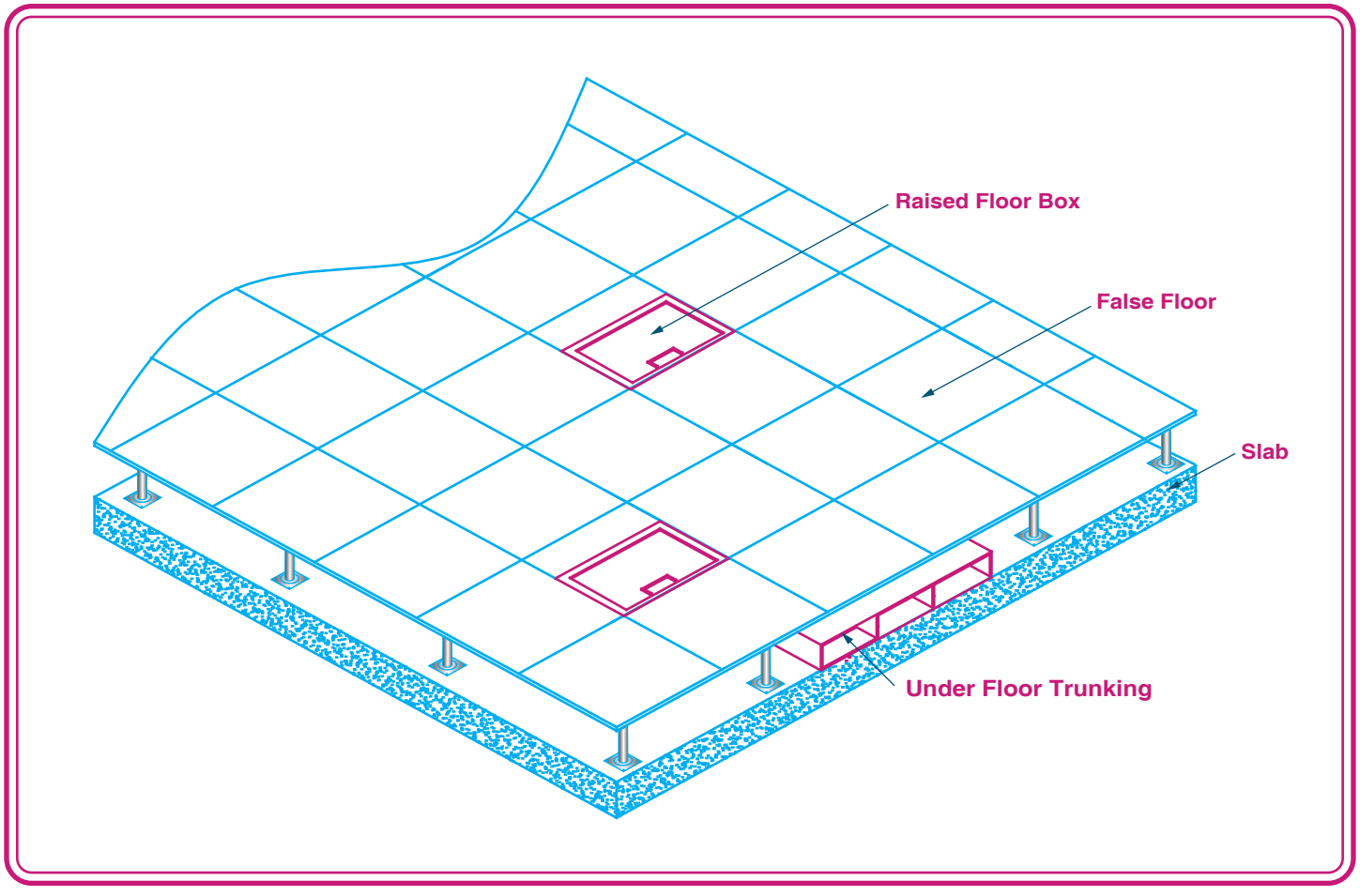
The trunkings run underneath the false floor, hence they do not bear any direct load and acts as containment services and boxes with clip on facility, fixed on to the false floor will carry the services such as power, data and voice.

The Power Solution Industries RF Systems comprises of the following components :

- ★ A Raised floor trunking with quick fix lid and bolt system to the slab.
- ★ Junction with cross over.
- ★ Service outlet boxes with 1 compartment, 2 compartment, 3 compartments or 4 compartments.
- ★ End caps, Vertical risers and other accessories.

The trunkings are made of pre galvanized sheet steel in accordance with BS4678. The trunking lengths are in 3 mtrs. Each length comes 3 covers of 1 meter each and the material thickness will be 1.2mm for body, cover and divider.

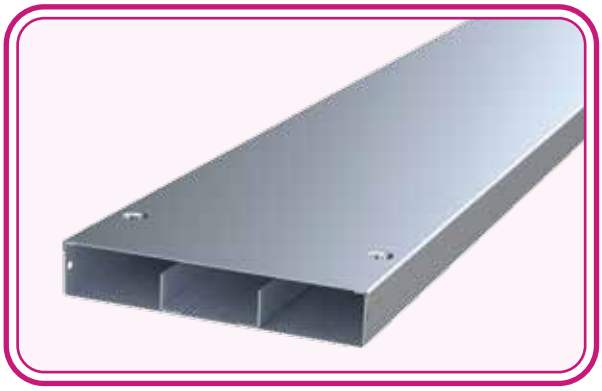
TYPICAL APPLICATION OF RAISED FLOOR TRUNKING SYSTEM



- ★ Epoxy coated & HDG trunking also can be offered on special project requirements.

RAISED FLOOR TRUNKINGS

PART REF		TRUNKING W x H (mm)
2 COMP.	3 COMP.	
RF / 250 / 40 / 2	RF / 250 / 40 / 3	250 x 40
RF / 350 / 40 / 2	RF / 350 / 40 / 3	350 x 40
RF / 450 / 40 / 2	RF / 450 / 40 / 3	450 x 40
RF / 250 / 50 / 2	RF / 250 / 50 / 3	250 x 50
RF / 350 / 50 / 2	RF / 350 / 50 / 3	350 x 50
RF / 450 / 50 / 2	RF / 450 / 50 / 3	450 x 50



Three Compartment GI Trunking in 2.44 Meter

Trunking length: 2.44 / 3 Meters , Trunking covers: 3 Nos per length

Base, Cover & Dividers : 1mm or 1.2mm

- ★ The standard lengths come in 3 Meters; however the same can be possible with 2.44 Meters too.
- ★ 20 & 25 mm punches are provided on every alternative covers for outlet connection through flexible conduits.
- ★ Part Ref, Nos. prefix is RF, along with trunking size/ depth/ no. of compartments.

STANDARD FINISHES

Pre Galvanized,Hot Dipped Galvanized,Epoxy / Power coated etc.

JUNCTION BOX

The junction boxes are used to form crosses, Tee, L- type in the layout. The boxes are built in with cross overs. Depending on the above type of formations, the other sides to be closed using end caps. Thickness: 1 mm or 1.2mm

PART REF		TRUNKING W x H (mm)
2 COMP.	3 COMP.	
RFJ / 250 / 40 / 2	RFJ / 250 / 40 / 3	250 x 40
RFJ / 350 / 40 / 2	RFJ / 350 / 40 / 3	350 x 40
RFJ / 450 / 40 / 2	RFJ / 450 / 40 / 3	450 x 40
RFJ / 250 / 50 / 2	RFJ / 250 / 50 / 3	250 x 50
RFJ / 350 / 50 / 2	RFJ / 350 / 50 / 3	350 x 50
RFJ / 450 / 50 / 2	RFJ / 450 / 50 / 3	450 x 50

Part Nos. Prefix is RFJ along with trunking size / depth / no. of compartments

STANDARD FINISHES

Pre Galvanized, Hot Dipped Galvanized, Epoxy / Power coated etc

- ★ Customized sizes could be produced for special project requirements.

VERTICAL ACCESS BOX

Are used for routing from the distribution area to the floor.

TYPE		TRUNKING W x H (mm)
2 COMP.	3 COMP.	
RFV / 250 / 40 / 2	RFV / 250 / 40 / 3	250 x 40
RFV / 350 / 40 / 2	RFV / 350 / 40 / 3	350 x 40
RFV / 450 / 40 / 2	RFV / 450 / 40 / 3	450 x 40
RFV / 250 / 50 / 2	RFV / 250 / 50 / 3	250 x 50
RFV / 350 / 50 / 2	RFV / 350 / 50 / 3	350 x 50
RFV / 450 / 50 / 2	RFV / 450 / 50 / 3	450 x 50

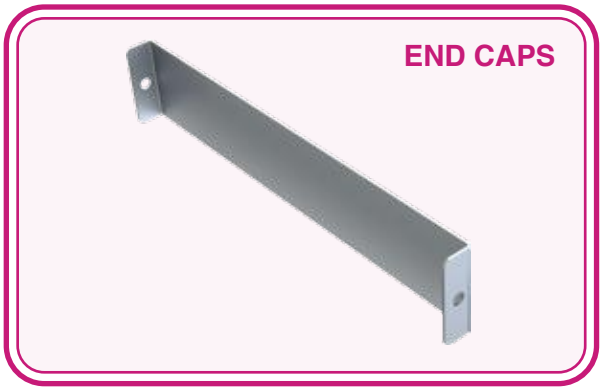
Part Nos. prefix is RFV along with trunking size / depth / no. of compartments for Vertical Access Box.

END CAPS

Provided at the end of the trunking.

TYPE		TRUNKING W x H (mm)
2 COMP.	3 COMP.	
RFEC / 250 / 40 / 2	RFEC / 250 / 40 / 3	250 x 40
RFEC / 350 / 40 / 2	RFEC / 350 / 40 / 3	350 x 40
RFEC / 450 / 40 / 2	RFEC / 450 / 40 / 3	450 x 40
RFEC / 250 / 50 / 2	RFEC / 250 / 50 / 3	250 x 50
RFEC / 350 / 50 / 2	RFEC / 350 / 50 / 3	350 x 50
RFEC / 450 / 50 / 2	RFEC / 450 / 50 / 3	450 x 50

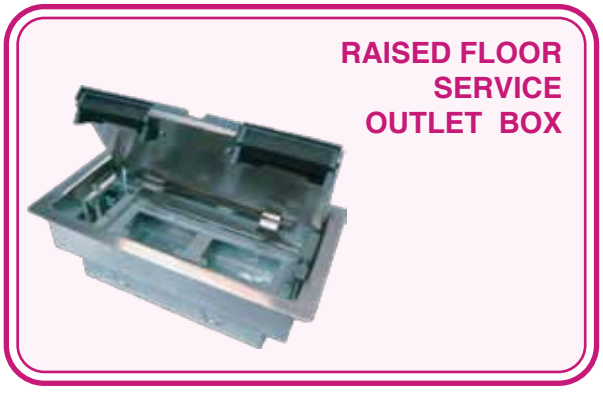
Part Nos. Prefix is RFEC along with trunking size / depth / no. of compartments for End Caps.



RAISED FLOOR SERVICE OUTLET BOX

- ★ Single compartment access floor box designed for raised access floor Installations.
- ★ Floor box manufactured from galvanized steel 20/25 mm knockouts punched to accept flexible conduit.
- ★ Designed to suit and accommodate BS plug top with 28 mm clearance. Trap & Frame (lid) made of high impact ABS and lid manufactured from stainless steel.
- ★ Dual Cable Exit flaps providing 60x150mm openings.
- ★ Integral moulded lifting handle.

TYPE	OVERALL DEPTH
RFB / 1075	75
RFB / 1085	85



THREE COMPARTMENT RAISED FLOOR BOX

- ★ Three Compartment Access Floor Box designed for Raised Access Floor Installations.
- ★ Floor box manufactured from galvanized steel 20 & 25mm knockouts punched to accept flexible conduit.
- ★ Panel size of 300 x 200 — 3 compartments.
- ★ Designed to suit and accommodate BS plug top with 28 mm clearance.

- ★ Trap & Frame made from flame retardant, high impact ABS lid manufactured from stainless steel
- ★ Dual Cable Exit flaps with moulded integral handle.
- ★ 4 Spring fixing clips for easy fixing.

TYPE	OVERALL DEPTH (mm)
RFB / 3055	55
RFB / 3065	65
RFB / 3075	75
RFB / 3085	85

- ★ Depth more than 85 mm can be produced.

3 COMP. RAISED FLOOR BOX

FOUR COMPARTMENT RAISED FLOOR BOX

- ★ Four Compartment Access Floor Box designed for Raised
- ★ Floor box manufactured from galvanized steel 20 & 25mm knockouts punched to accept flexible conduit.
- ★ Panel size of 300 x 200 - 4 compartments.
- ★ Designed to suit and accommodate BS plug top with 28 mm clearance.

- ★ Trap & Frame made from flame retardant, high impact ABS lid manufactured from stainless steel
- ★ Dual Cable Exit flaps with moulded integral handle.
- ★ 4 Spring fixing clips for easy fixing.

TYPE	OVERALL DEPTH (mm)
RFB / 4055	55
RFB / 4065	65
RFB / 4075	75
RFB / 4085	85

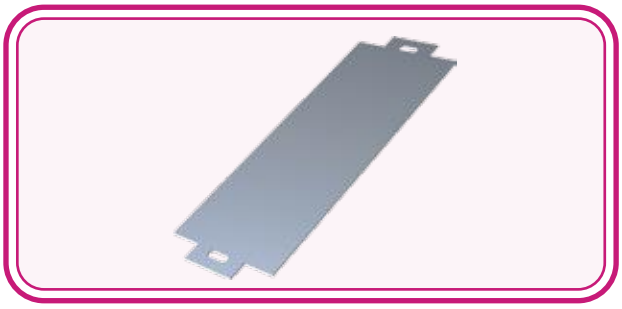
- ★ Depth more than 85 mm can be produced.

4 COMP. RAISED FLOOR BOX

ACCESSORY MOUNTING PLATES

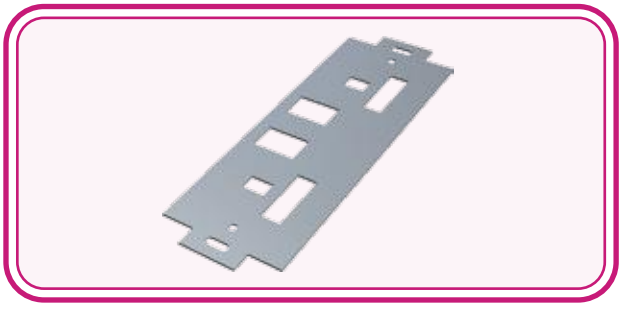
Blank Plate : Used for covering the un-used compartment inside a Service box 88 mm wide plate Surface Mounting.

TYPE	NO. OF COMP.
BP1CS	1
BP3CS	3
BP4CS	4



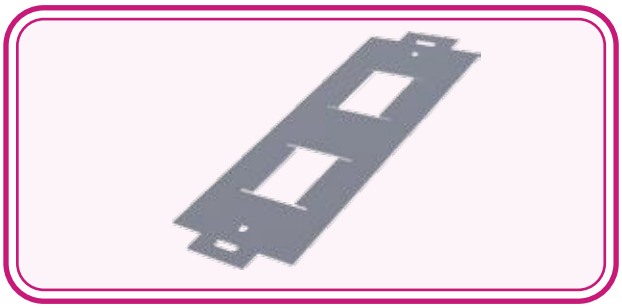
Mounting Plate for two Gang switched Socket Outlet. (Flush Mounting type)

TYPE	NO. OF COMP.
2GS1CF	1
2GS3CF	3
2GS4CF	4



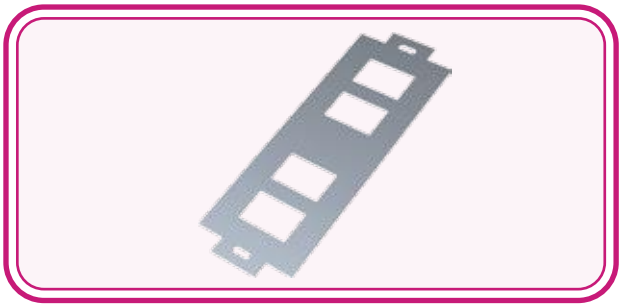
Mounting Plate for Four Nos : RJ-45/LUU6C Data Modules having a cut out size of 22x37 mm Surface mounting.

TYPE		NO. OF COMP.
SURFACE MOUNTING	FLUSH MOUNTING	
4LJ1CS	4LJ1CF	1
4LJ3CS	4LJ3CF	3
4LJ4CS	4LJ4CF	4



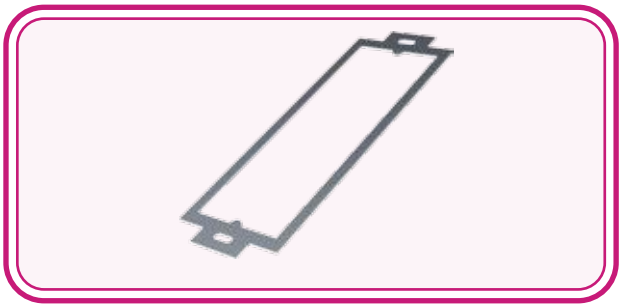
Mounting Plate for 6 Nos : RJ-45/LJUU6C Data Modules having a cut out size of 22x37 mm Surface mounting.

TYPE		NO. OF COMP.
SURFACE MOUNTING	FLUSH MOUNTING	
6LJ1CS	6LJ1CF	1
6LJ3CS	6LJ3CF	3
6LJ4CS	6LJ4CF	4



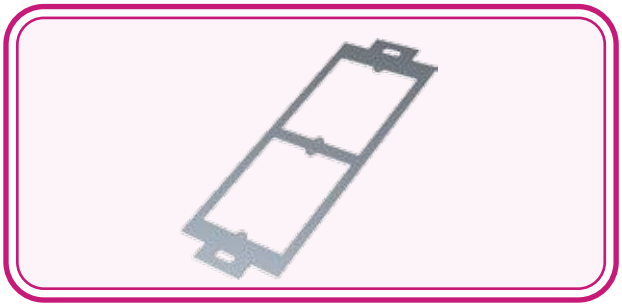
Mounting Plate for 2 Gang Accessory Outlet (Single Cutout) Surface mounting and Flush Mounting.

TYPE		NO. OF COMP.
SURFACE MOUNTING	FLUSH MOUNTING	
2G1CS	2G1CF	1
2G3CS	2G3CF	3
2G4CS	2G4CF	4



Mounting Plate For 2 Nos. (one Gang 3x3” accessory.) Surface mounting and Flush Mounting.

TYPE		NO. OF COMP.
SURFACE MOUNTING	FLUSH MOUNTING	
1G1CS	1G1CF	1
1G3CS	1G3CF	3
1G4CS	1G4CF	4



Special mounting plates are also possible, if required. The part reference nos. indicated above table will depict the following :

TYPE	DESCRIPTION
1G	1 Gang accessory
1C	Single compartment
2G	2 Gang accessory
GS	2 Gang Switched Socket outlet
6LG	6 cut outs for LJU6C type of RJ 45 data outlet
4LG	4 cut outs for LJU6C type of RJ 45 data outlet
BP	Prefix used for depicting blank plate.

INSTALLATION METHODOLOGY

Generally Raised floor trunking installations are carried out by specialized raised floor expert contractors.The installation procedures are simple, easy and the most flexible.

STEP 1 The supports of the raised floor must be positioned and fixed as decided in a space of 600 x 600mm before routing the trunking system.

STEP 2 The trunking routing to be finalized and the same to be laid out as per the design. Generally for main distribution trunking, called header trunking sizes are higher and branches will be of lower dimensions.

STEP 3 Initially the base of the trunking will be laid according to the design and the covers will be fixed after filling the cables.

STEP 4 Branches are from the junctions or crossovers and the all throughout the trunking bases are connected to the slab using nut and bolt. The trunking lengths are connected using couplers or connectors.

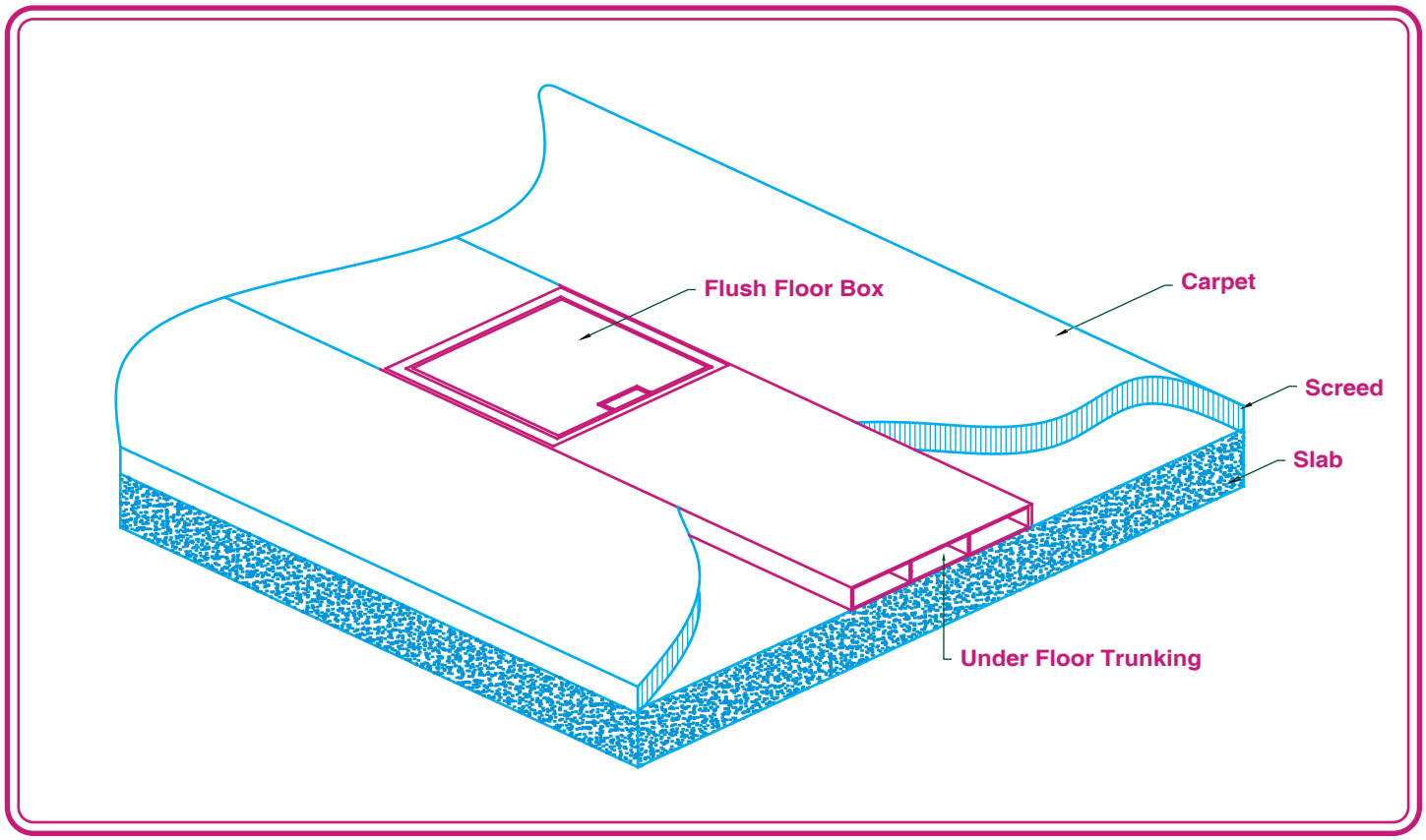
STEP 5 The trunking covers have cutout provisions (20 & 25mm) for carrying cables to the service outlet boxes.

FLUSH FLOOR TRUNKING SYSTEM

Generally these type of trunking are used for commercial offices and establishment and mostly are for dry cleaned (carpet finish) floors. Flush Floor trunking has more flexibility than that the under floor system in terms of relocation of service outlet boxes along the length in any particular direction. The trunking is always at the level of the finished floor and the service outlets are directly sits on the trunking The cable are laid in this type of trunking against pulling in the case of under floor installation.

Trunking forms the main componets of this type of system and boxes are on the trunking, primary advantages of the system includes snap-in partitions,on pre fabrication junction required, lid fixing at any point along the trunking route and floor service outlets at any points. This drastically reduces the installation time and costs.

TYPICAL LAYOUT OF FLUSHED FLOOR TRUNKING SYSTEM



SYSTEM COMPONENTS

TYPE
FFT / 300 - 60 / 65
FFT / 450 - 60 / 65

- ★ 300 / 450mm x 60 or 65 mm 3 Compartment Trunking with 2.5 mm base and 2.5 mm Cover plate in 2.44 meters.
- ★ Each Length will have three covers measuring 800mm each.
- ★ Compartment sizes for 300mm will be 100mm each and for 450mm will be 150mm each.
- ★ Cover plate can be at 3mm also.
- ★ The depth can be 60 or 65 mm (Any other sizes can be special).
- ★ 2 Numbers Snap fit partitions for compartments.
- ★ Cover can be either plain or punched for service outlet mounting.

JUNCTION BOXES

For the trunking for routing cables.
Junction box comprises of crossovers

TYPE
FFJB / 300 - 60 / 65
FFJB / 450 - 60 / 65

END CAPS

For the trunking at terminals.

TYPE
FFEC / 300 - 60 / 65
FFEC / 450 - 60 / 65

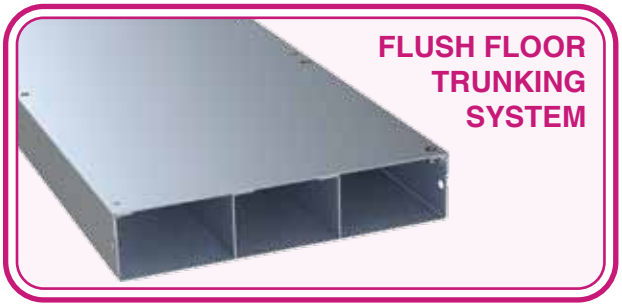
VERTICAL RISER BEND

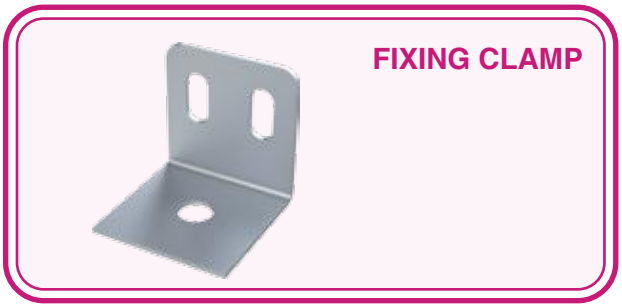
TYPE
FFVB / 300 - 60 / 65
FFVB / 450 - 60 / 65

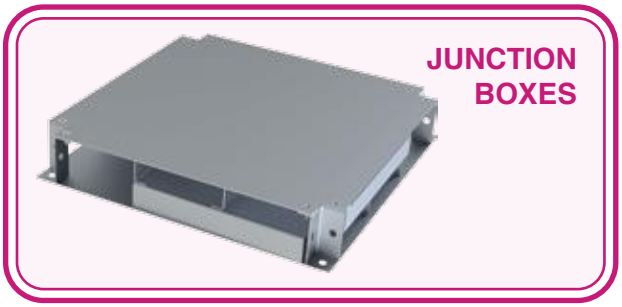
SERVICE OUTLET BOX

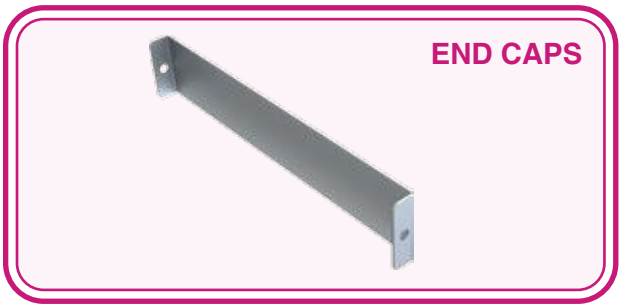
Comprises of trap and frame and mounting tray for services installation.

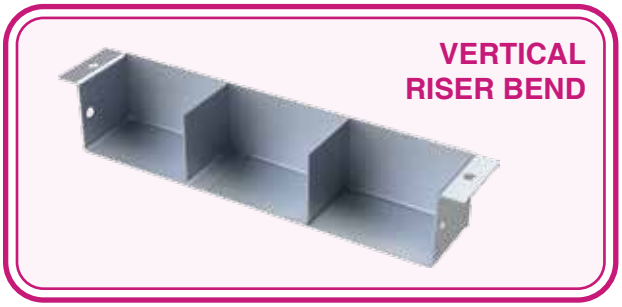
TYPE
FFSB / 250 / 250

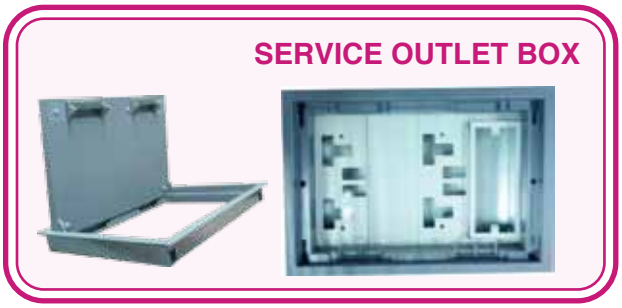












QUALITY CERTIFICATIONS

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Kitemark™ Certificate

This is to certify that:

Power Solution Industries L.L.C
D 13, D Block
Phase 3, Dubai Industrial City
P O BOX: 113403
Dubai
United Arab Emirates

Holds Certificate Number: KM 662960

In respect of:

Cable Management
Cable Management, Support and Containment Systems

This issues the right and licence to use the Kitemark in accordance with the Kitemark Terms and Conditions governing the use of the Kitemark, as may be updated from time to time by BSI Assurance UK Ltd (the "Conditions"). All defined terms in this Certificate shall have the same meaning as in the Conditions.

The use of the Kitemark is authorized in respect of the Product(s) detailed on this Certificate provided at or from the above address.

For and on behalf of BSI: Chris Lewis - Certification Director, Product Certification

First Issued: 2018-06-06
Latest Issue: 2020-12-21

Effective Date: 2020-12-21
Expiry Date: 2021-06-05

Page: 1 of 6

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Kitemark™ Certificate

This is to certify that:

Power Solution Industries Ltd
P.O. Box 245458
Obeikan Industrial City
Industrial Area 2
Riyadh 11312
Kingdom of Saudi Arabia

Holds Certificate Number: KM 695353

In respect of:

Cable Management
Cable Management, Support and Containment Systems

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DNV

MANAGEMENT SYSTEM CERTIFICATE

This is to certify that the management system of

Power Solution Industries LLC.
P. O. Box: 113403. D1-D5 and D13-D17, D Block, DI Phase 3, Dubai Industrial City, Dubai, United Arab Emirates

has been found to conform to the Quality Management System standard:
ISO 9001:2015

This certificate is valid for the following scope:
Manufacture and Supply of Cable Trays, Cable Ladders, Cable Trunking, Cable Support Accessories and Related Cable Management Systems for Engineering Projects. Design, Fabrication and Supply of Solar Panel Mounting Structures. Fabrication and Supply of Structural Steels.

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