

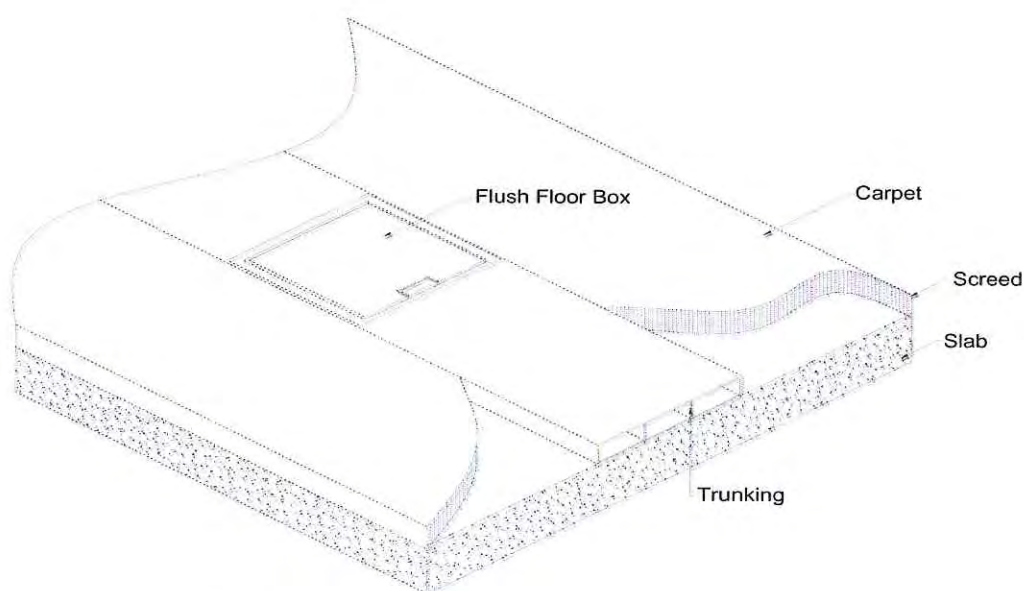
FLOOR TRUNKING SYSTEM

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 components 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

FLOOR TRUNKING SYSTEM

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.

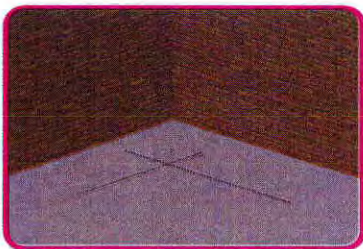
End Caps :- Closure caps at the end of trunking, which helps and protects the cables inside and also prevents from screed flowing inside.

Installation Methodology:-

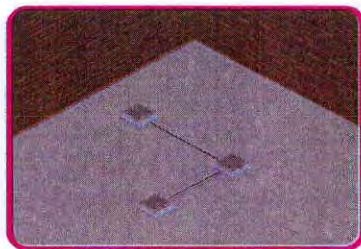
A • The slab / floor should be cleared, leveled and smooth surface should be created before the installation procedure. Having a 1 mm thick uniform ribbon screed is advisable for large installations to avoid air gaps and will also reduce the noise levels.

B • 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.

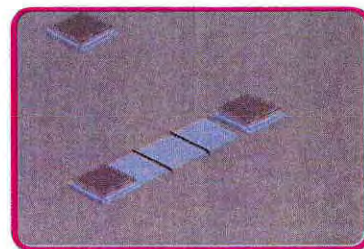
C • Mounting of Junction boxes: Place and align the boxes at the crossing points before the mass trunking routes are determined. Always the Junction boxes and Service outlet boxes are supplied with dummy covers which are to used while screed pouring and once the screed is poured, the same can be taken out. This is to prevent screed seeping into the boxes. Generally the box leveling is done with spirit leveler.



Design the layout by chalk / marker



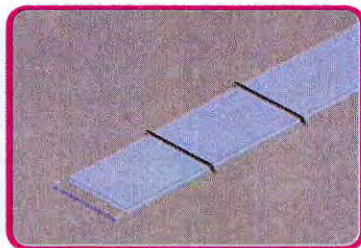
Placing of junction / branch boxes



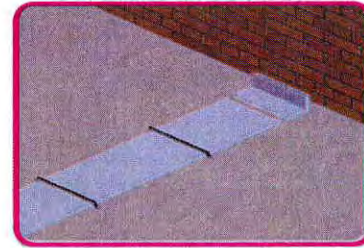
Connecting box with trunking



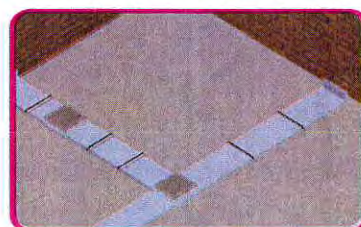
Trunking connection with coupler



Closing with end caps



Mounting Vertical Bend



Schematic layout

RAISED TRUNKING SYSTEM

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 300x200 – 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.

PART REF	OVERALL DEPTH
RFB 3055	55 mm
RFB 3065	65 mm
RFB 3075	75 mm
RFB 3085	85 mm



* Depth more than 85 mm can be offered as special

Four Compartment Raised Floor Box

Four 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 300x200 – 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

PART REF	OVERALL DEPTH
RFB 4055	55 mm
RFB 4065	65 mm
RFB 4075	75 mm
RFB 4085	85 mm



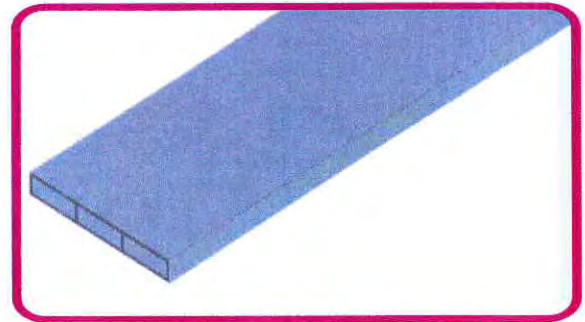
* Depth more than 85 mm can be offered as special

UNDER FLOOR TRUNKINGS

UNDER FLOOR TRUNKING

(In-screed type trunking)

Part Ref.	Trunking Size(WxH)mm	No.Of Compartments (Comp.size)mm
Branch Trunking		
UFT 225/28	225mmx28mm	3(75mmx75mmx75mm)
Header Trunking		
UFT 275/28	275mmx28mm	3(100mmx75mmx100mm)
UFT 300/38	300mmx38mm	3(100mmx100mmx100mm)



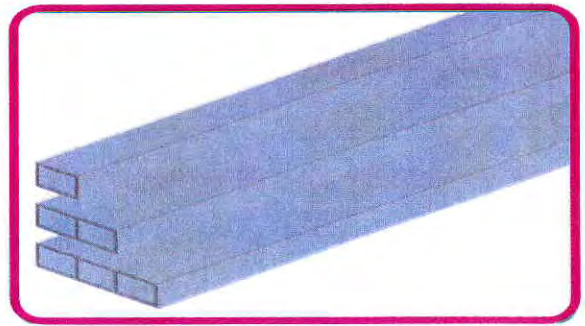
**Three Compartment
GI Trunking in 2.44 Meter**

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.

Length	Thickness	Components
2.44 M/ 3 M	1.2 mm / 1.6mm	Trunking body
2.44 M/ 3 M	1.2 mm / 1.6mm	Trunking cover
2.44 M/ 3 M	1.2 mm	Seperators

(Special thickness of 2 mm can be offered)

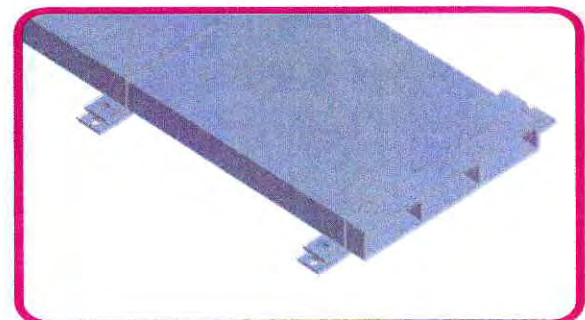


Standard Finish :Pre Galvanized sheet steel to BS EN10142: 1991 / BS4678

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.

Part Ref.	Trunking Size(WxH)mm	No.Of Compartments (Comp.size)mm
UFC 225/28	225mmx28mm	3(75mmx75mmx75mm)
UFC 275/28	275mmx28mm	3(100mmx75mmx100mm)
UFC 300/38	300mmx38mm	3(100mmx100mmx100mm)



COUPLER

*Other sizes are possible for special project requirements.

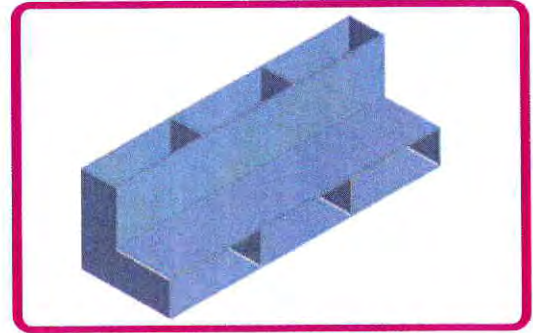
FLOOR TUNKING SYSTEM

VERTICAL RISER BEND

used for Connection between the feeding center/ distribution board.

Part Ref.	Trunking Size(WxH)mm	No.Of Compartments (Comp.size)mm
VR 225/28	225mmx28mm	3(75mmx75mmx75mm)
VR 275/28	275mmx28mm	3(100mmx75mmx100mm)
VR 300/38	300mmx38mm	3(100mmx100mmx100mm)

Thickness : 1.2 mm

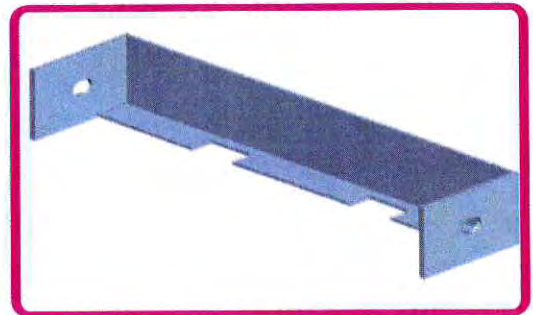


VERTICAL RISER BEND

END CAP

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

Part Ref.	Trunking Size(WxH)mm	No.Of Compartments (Comp.size)
EC 225/28	225mmx28mm	3(75mmx75mmx75mm)
EC 275/28	275mmx28mm	3(100mmx75mmx100mm)
EC 300/38	300mmx38mm	3(100mmx100mmx100mm)



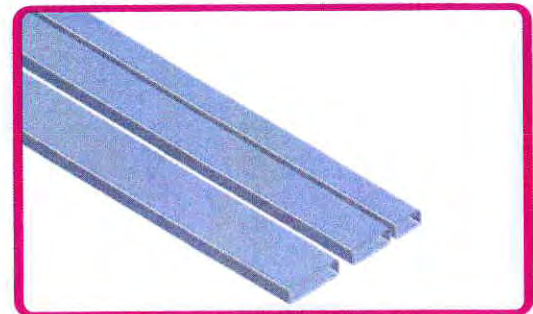
END CAP

uPVC Ducts (Trapezoidal shape for higher strength)

Material: High impact uPVC Plastics

Standard length is 2.9 m

Part Ref.	(WxHxT mm)	No.Of Compartments
UPVD 5025R	50mmx25mmx2.5mm	1
UPVD 7525R	75mmx25mmx2.5mm	1
UPVD 7525R1	75mmx25mmx3.2mm	1
UPVD 10025R	100mmx25mmx2.7mm	1
UPVD 10025R1	100mmx25mmx3.2mm	1



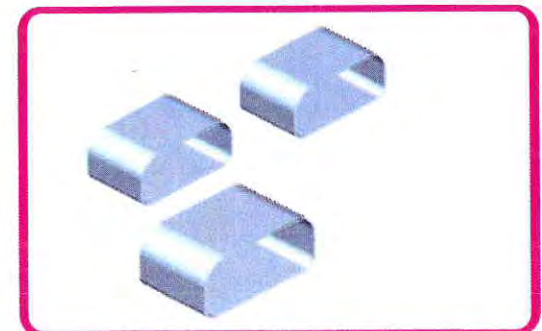
uPVC DUCT

JOINING SLEEVES

Joining Sleeves are used to connect the ducts.

Material: High impact uPVC plastics

Part Ref.	(WxHxT mm)	No.Of Compartments
UPVS5025C	50mmx25mmx2.5mm	1
UPVS7525C	75mmx25mmx2.5mm	1
UPVS7525C1	75mmx25mmx3.2mm	1
UPVS10025C	100mmx25mmx2.7mm	1
UPVS10025C1	100mmx25mmx3.2mm	1



JOINING SLEEVES

Other trunking sizes are also possible as specials.

UNDER FLOOR TRUNKING

JUNCTION BOXES

These boxes are for both Header and Branch Trunkings for having junctions in Crosses, Tee, L types. It comprises 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 conforming to BS 10142: 1991 (Z275NAC) or JIS G 3302: 1994 (Z27)

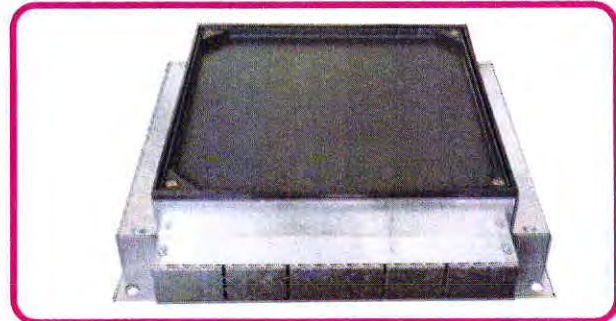
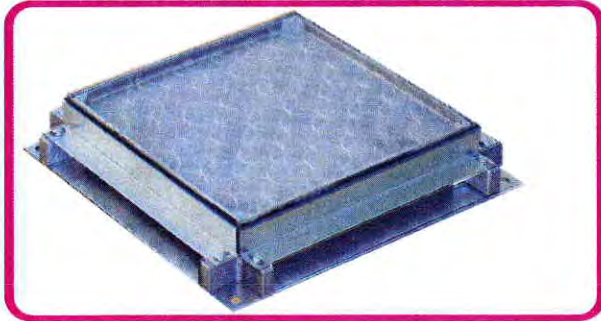
The box frame is made of high pressure die cast zinc alloy rust proof material.

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



Part Ref.	LxWxH mm	No.Of Compartments	Max.Trunking Entry (WxH)	Cover Recess In mm	Application
JB250/3/DA/6	250mmx250mmx75-90 mm	3	225mmx28/32mm	6	Dry Clean
JB250/3/WC/9	250mmx250mmx75-90 mm	3	225mmx28/32 mm	9	Wet Clean
JB300/3/DA/6	300mmx300mmx75-90 mm	3	275mmx28/32 mm	6	Dry Clean
JB300/3/WC/9	300mmx300mmx75-90 mm	3	275mmx28/32 mm	9	Wet Clean
JB325/3/DA/6	325mmx325mmx75-90 mm	3	300mmx38 mm	6	Dry Clean
JB325/3/WC/9	325mmx325mmx75-90 mm	3	300mmx38 mm	9	Wet Clean

DA – Dry Applications – Carpet

WC- Wet Clean applications – 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.

FLOOR TRUNKING SYSTEM

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 3 compartments and can be also in 2 or 4 compartments which are optional.

Under floor Service box required 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.

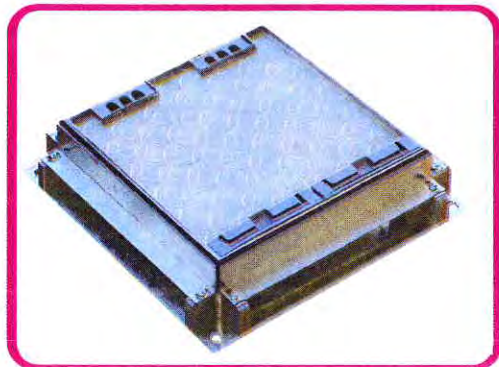
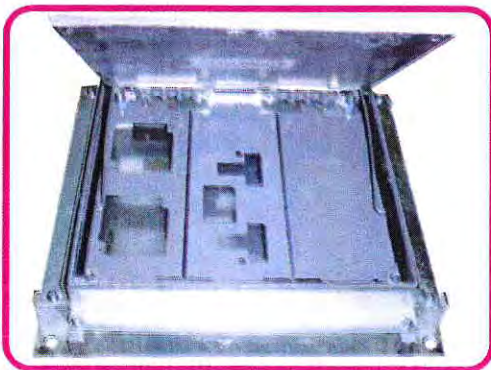
The base box to be of robust construction made with Pre-galvanized sheet steel to BSEN 10142 standards having the following composition:-

The box base frame trap frame, and outlet 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.

Part Ref.	LxWxH mm	No.Of Compartments	Max.Trunking Entry (WxH)	Cover Recess In mm	Application
SB250/3/DA/6	250mmx250mmx75-90mm	3	225mmx28/32mm	6	Dry Clean
SB250/3/WC/9	250mmx250mmx75-90mm	3	225mmx28/32mm	9	Wet Clean
SB300/3/DA/6	300mmx300mmx75-90mm	3	275mmx28/32mm	6	Dry Clean
SB300/3/WC/9	300mmx300mmx75-90 mm	3	275mmx28/32mm	9	Wet Clean

* Special boxes with special height adjustability can also be offered



UNDER FLOOR TRUNKINGS

UNDER FLOOR SERVICE OUTLET (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 moulded integral handle.



3 Compartment Box	
PART REF	OVERALL DEPTH
UFB 3065	65 mm
UFB 3075	75 mm
UFB 3085	85 mm

4 Compartment Box	
PART REF	OVERALL DEPTH
UFB 4065	65 mm
UFB 4075	75 mm



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

ACCESSORY MOUNTING PLATE

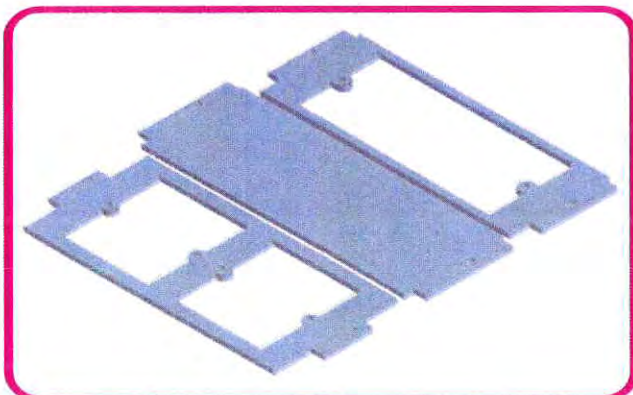
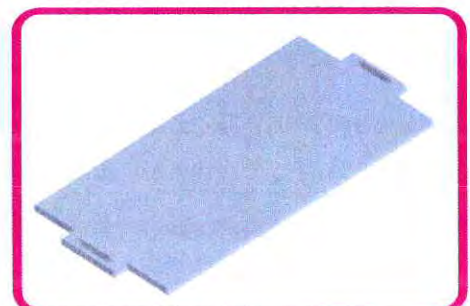
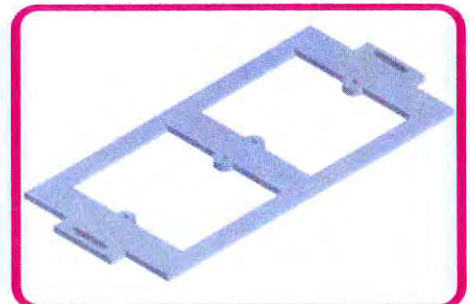
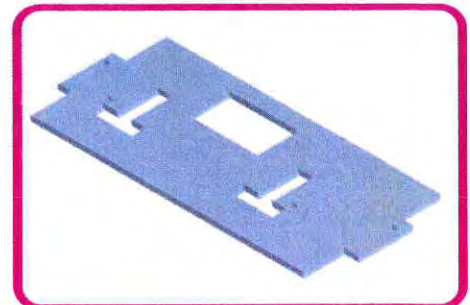
UFB-2GMSP – Mounting Plate for 2Gang Switched Socket (Special type for particular model)

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 LJU-6C RJ 45 Data Outlet.

* Special mounting plates can also be offered.



FLOOR TRUNKING SYSTEM

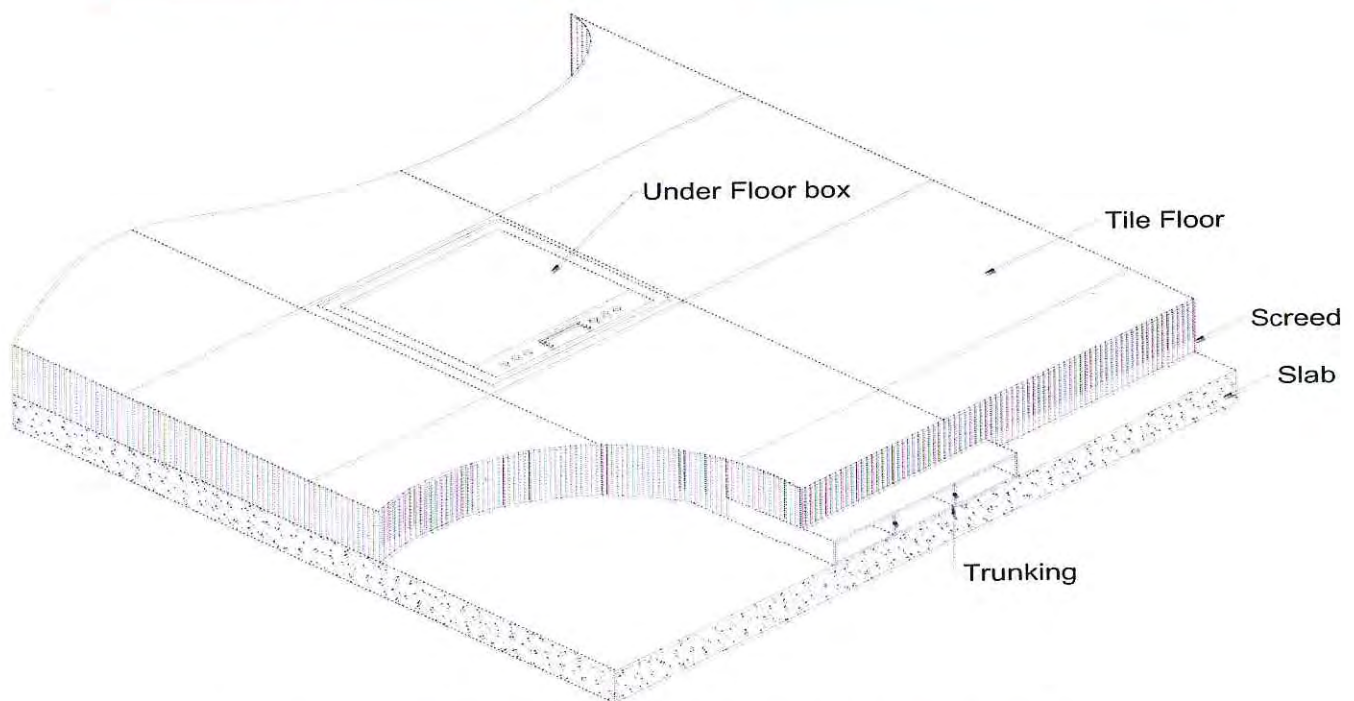
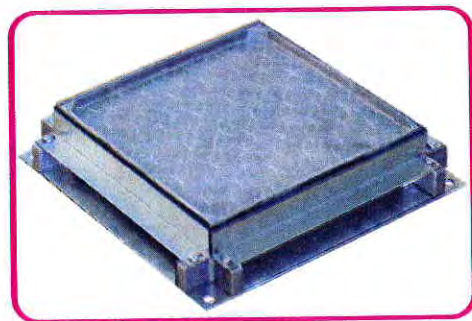
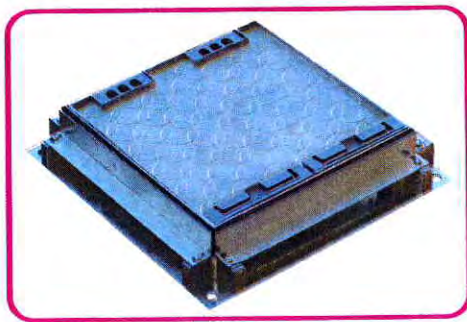
UNDER FLOOR CABLE MANAGEMENT SYSTEMS

Power Solution Industries 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.

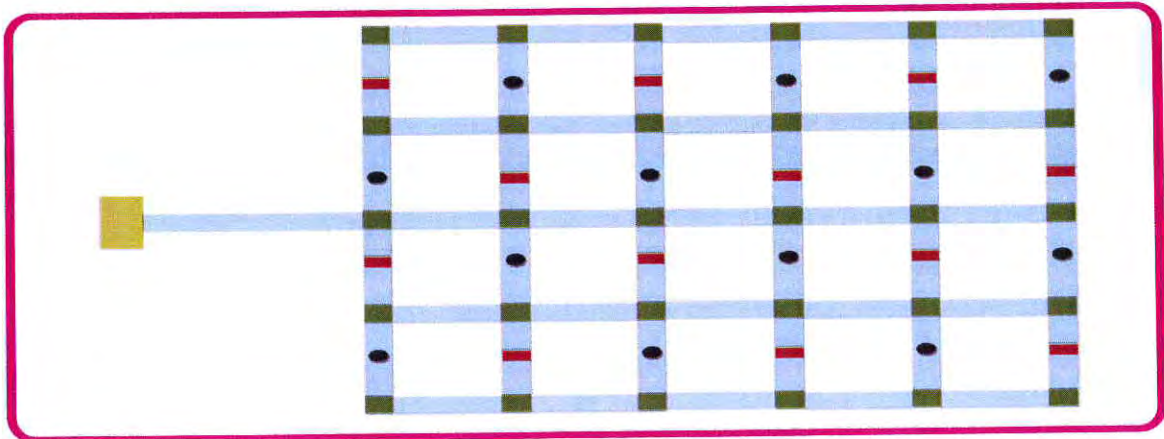


Typical layout of Underfloor Trunking system (Tiled Application)

FLOOR TRUNKING SYSTEM

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.



Typical Grid pattern



Typical in-screed type installation site

FLOOR TRUNKING SYSTEM

Vertical Access box: Are used for routing from the Distribution Area to the floor.

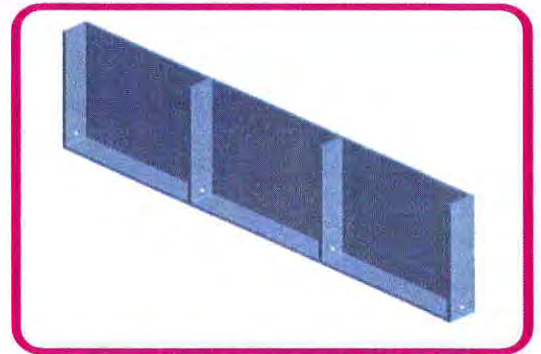
PART REF		TRUNKING
2 Comp.	3 Comp.	WxH
RFV250/40/2	RFV250/40/3	250mmx40mm
RFV350/40/2	RFV350/40/3	350mmx40mm
RFV450/40/2	RFV450/40/3	450mmx40mm
RFV250/50/2	RFV250/50/3	250mmx50mm
RFV350/50/2	RFV350/50/3	350mmx50mm
RFV450/50/2	RFV450/50/3	450mmx50mm

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

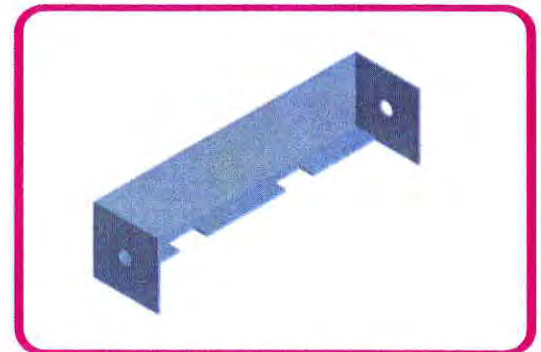
Part Nos. Prefix is RFEC along with trunking size / depth/ no. of compartments for End Caps

End caps: Provided at the end of the trunking.

PART REF		TRUNKING
2 Comp.	3 Comp.	WxH
RFEC250/40/2	RFEC250/40/3	250mmx40mm
RFEC350/40/2	RFEC350/40/3	350mmx40mm
RFEC450/40/2	RFEC450/40/3	450mmx40mm
RFEC250/50/2	RFEC250/50/3	250mmx50mm
RFEC350/50/2	RFEC350/50/3	350mmx50mm
RFEC450/50/2	RFEC450/50/3	450mmx50mm



Vertical Access Box



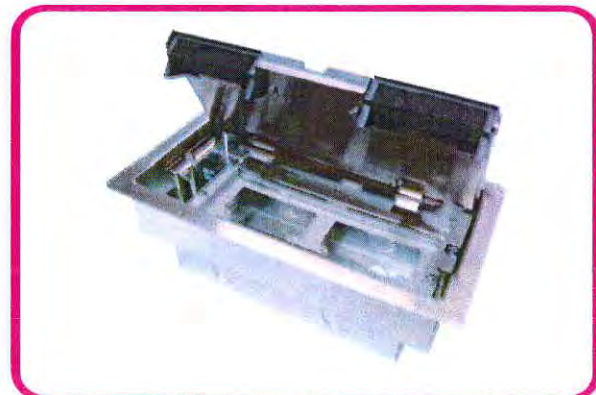
End Caps

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.

Available depth 75 and 85 mm

PART REF	OVERALL DEPTH
RFB 1075	75 mm
RFB 1085	85 mm

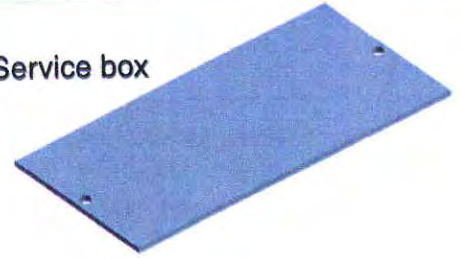


FLOOR TRUNKING SYSTEM

Accessory Mounting Plates

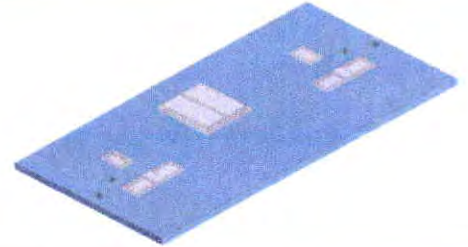
Blank Plate : Used for covering the un-used compartment inside a Service box
88 mm wide plate Surface Mounting.

PART REF	No.Comp.
BP1CS	1
BP3CS	3
BP4CS	4



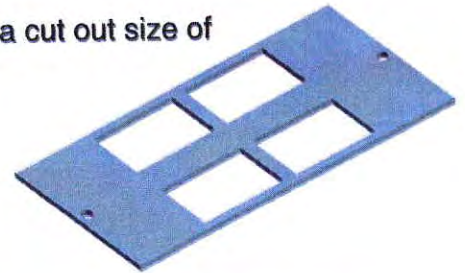
Mounting Plate For two Gang switched Socket Outlet.
(Flush Mounting type)

PART REF	No.Comp.
2GS1CF	1
2GS3CF	3
2GS4CF	4



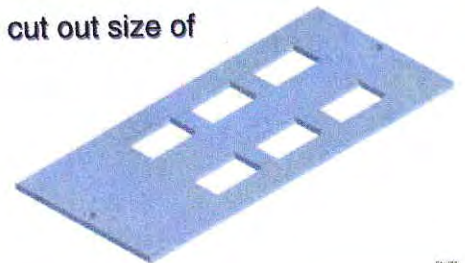
Mounting Plate For Four Nos : RJ-45/LJU6C Data Modules having a cut out size of
22x37 mm Surface mounting.

PART REF		No.Comp.
Surface Mounting	Flush Mounting	
4LJ1CS	4LJ1CF	1
4LJ3CS	4LJ3CF	3
4LJ4CS	4LJ4CF	4



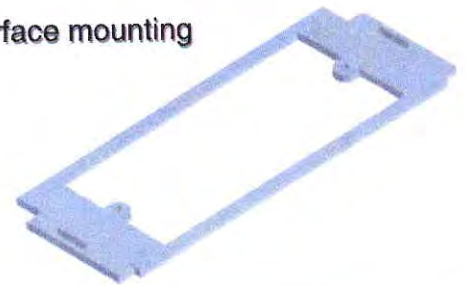
Mounting Plate For Six Nos : RJ-45/LJU6C Data Modules having a cut out size of
22x37 mm Surface mounting.

PART REF		No.Comp.
Surface Mounting	Flush Mounting	
6LJ1CS	6LJ1CF	1
6LJ3CS	6LJ3CF	3
6LJ4CS	6LJ4CF	4



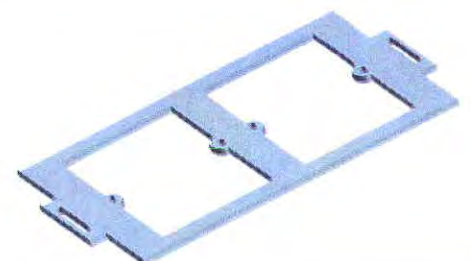
Mounting Plate For two Gang Accessory Outlet (Single Cutout) Surface mounting
and Flush Mounting.

PART REF		No.Comp.
Surface Mounting	Flush Mounting	
2G1CS	2G1CF	1
2G3CS	2G3CF	3
2G4CS	2G4CF	4



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

PART REF		No.Comp.
Surface Mounting	Flush Mounting	
1G1CS	1G1CF	1
1G3CS	1G3CF	3
1G4CS	1G4CF	4



FLUSH FLOOR TRUNKINGS

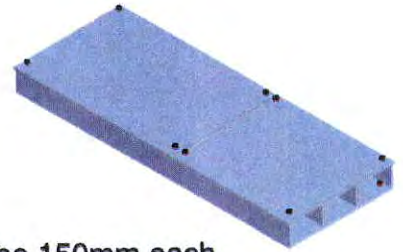
SYSTEM COMPONENTS

PART REF

FFT300-60/65

FFT450-60/65

- 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.

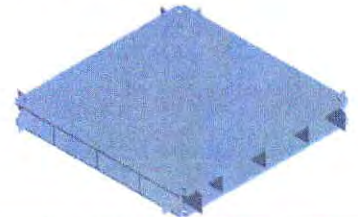


Junction Boxes :- for the trunking for routing cables. Junction box comprises of crossovers.

PART REF

FFJB 300-60/65

FFJB 450-60/65

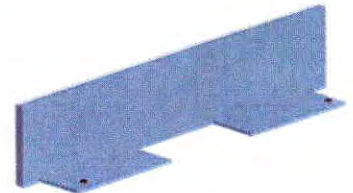


End Caps :- for the trunking at terminals.

PART REF

FFEC300-60/65

FFEC450-60/65

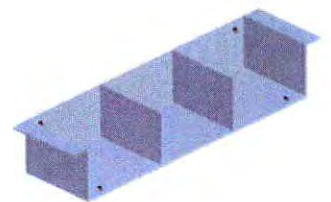


Vertical Riser Bend

PART REF

FFVB300-60/65

FFVB450-60/65



Service Outlet Box comprises of trap and frame and mounting tray for services installation.

PART REF

FFSB250/250

