Specialized/Sigma Factory for Steel Products (SFSP) was first established in KSA in 1989 and has been expanding ever since through a variety of products and through its geographical presence. Production at the factory is observed using modern practices of manufacturing methods in the steel construction industry with a definite compliance to international standards of fabrication.

SFSP has manufacturing facilities in KSA, UAE, Egypt, and Lebanon. SFSP adapts quickly and easily to market demands and requirements. The factory is operating a top of the line production machinery, fully automated with highest technology to ensure quality and maintain speed with delicacy.

Quality at SFSP is uncompromised; the factories have been able to acquire ISO 9001: 2008 Quality Management System, ISO 14001:2004 Environmental Management certified factory, and OHSAS 18001:2007 Occupational, Health and Safety Management factory.

HOT-DIP GALVANIZATION
SFSP has an in-house state of the art Hot-Dip Galvanization facility, which permits a full control of the quality of its finished products, offering better services to our clients globally.
Specialized Factory for Steel Products Co., Ltd, which is part of Isam Khairi Kabbani Group of companies is a leading fabricator of steel construction products serving the kingdom of Saudi Arabia since 1989.

The factory operates under TQM ISO modules, using the latest modern technology in the steel fabrication and manufacturing industry in conformity with International standards for safety and in compliance with the environmental regulations in the Kingdom.

The factory has inaugurated its new manufacturing facilities which is located in the 3rd Industrial Area of Jeddah with a total built facilities of 37,000 squared meters.

The facilities include two manufacturing areas, a hot dip galvanization advanced section, warehousing areas and administrative building. The project is an advanced environmental low emissions factory built with a definite consideration of the safety of its workers and visitors.
A crucial factor in the job of a factory is to provide continuous technical services and consultations. That's why SFSP has invested in a professional team of researchers and specialists.

SFSP has recruited brilliant graduates and experienced engineers having the appropriate knowhow on the on latest technology changes and development in the steel building materials industry.

The product range is developed and updated according to the relevant standards of fabrication across markets, whilst the business processes are evaluated to achieve maximum efficiency.

**SFSP R&D Core Objectives**
- Carry out responsibilities effectively in a safe and healthy work environment.
- Develop and implement research programs relevant to the products and solutions introduced and ensure that the results are communicated clearly in-house and among the clients, concisely and accurately.

**DESIGN AND ENGINEERING OFFICE - GERMANY**

Unitech Deutshland GmbH is the design office of Unitech for Building and Construction Materials and is situated in Stuttgart, Germany.
SOCIAL RESPONSIBILITY

Being socially responsible is a part of who we are and how we do our business. We aim to provide useful products and services, to provide jobs and development opportunities for our communities, and to gain satisfaction through meaningful work. We make a difference by acting on the values and principles of our societies and we inspire others to do so. At SFSP, we anticipate and reduce threats caused by environmental changes or natural disasters, and we are well adapted to significant social changes. We contribute to a more sustainable society by means of value and support to our consumers, supply chains, and stakeholders. We are keen to identify ways they can improve our impacts on the people and places we work and live in, and thereby become more valuable and valued members of society.

- Organizational governance: We promote accountability and transparency at all levels, thus, promoting responsibility
- Human care: We treat individuals with respect; and make efforts to help members of vulnerable groups
- Labor practices: We provide just, safe and favorable conditions to workers
- Environment: At SFSP, we identify and improve environmental impacts of our operations, including the resource use of natural resources and waste disposal.

- Fair operating practices: Practicing accountability and fairness in dealings with other businesses

At SFSP, we are committed to continuous improvement ongoing learning, process review and innovative thinking that foster new initiatives; and better practices. Our environmental programs evolve to meet today’s changing needs while; protecting resources for future; generations.

HEALTH AND SAFETY

The Factory Management regard the health and safety of the employees, clients and all others that may be affected by their operations to be of a major importance.

In support of this, the management promotes health and safety throughout the Factory’s operations and endeavour to engender a positive attitude in all employees towards the prevention of accidents and maintenance of healthy working arrangements.

The Factory satisfies the requirements of the Health, Safety and related legislation by setting out the responsibilities of all levels of staff and the arrangements for carrying out those responsibilities and in particular do what is reasonably practicable to:
1. Maintains safe & healthy working conditions.
2. Ensures that all facilities and equipment are safe and properly maintained.
3. Provides products that can be applied and used safely and without risk to health.
4. Provides and maintain working procedures, that are safe and without risk to health, throughout the its operations in respect of:
   - The use, handling, storage, transports and disposal of materials and substances.
   - The use of factory equipment.
   - Potential emergency situations, including first aid, fire and escape of substances.
5. Ensure the competence of employees.

The factory is an OHSAS 18001:2007 Occupational, Health and Safety Management certified Factory.
ENVIRONMENTAL AWARENESS

SFSP is committed to the following:
• Compliance with all statutory and regulatory requirements related to its activities, products and services and the environmental aspects.
• Identifying quality and environmental objectives by review and audit of the processes both in-house and on-site.
• Formally setting objectives based on the results of the process reviews and their significance in relation to their impact on the environment and the continual improvement of the quality and environmental management system.
• Implementing management programs to achieve these objectives.
• Investing in a well-trained and motivated workforce.
• Working closely with suppliers and customers to ensure mutual understanding and benefits of the environmental aspects consideration.
• Reviewing our policy and objectives as part of the Management Review Process.
• Communicating this policy to all persons working for or on behalf of the organization.
• Preventing and minimizing Pollution to the environment.

SFSP operates under environmental management system certification BS EN ISO 14001:2004 and maintain it through registration and annual review.

SFSP facilities are equipped with the most technologically advanced machinery amongst are Laser Cut Machines, Robot Bending Sets, Welding Robot Sets, sophisticated Cable Management Production Lines, as well as Specialized Industrial Sections for its Hot Dip Galvanization facilities.
CNC MACHINES

WELDING ROBOT SETS

CNC PUNCHING

FIBER LASER CUT

ROBOTIC BENDING CELL
This is to certify that

Sigma Factory for Steel Products
P.O. Box 37991
Sath Suhaib - 3, 4 Round About
Dubai Industrial City
Dubai
United Arab Emirates

has been audited and found to meet the requirements of standard ISO 14001:2015 Environmental Management System

Scope of certification
Trading and Manufacturing of all kinds of Steel related Construction Materials

Certificate number: 2524
Issue number: 2018-01
Certificate start date: 22 September 2015
Certificate expiry date: 21 September 2018
Date of initial certification: 22 September 2015

Karen Prendergast
Sector Director - Certification
Exova BM TRADA

Exova (UK) Ltd., (T/A Exova BM TRADA), Children’s House, Stocking Lane, High Wycombe, Buckinghamshire, HP11 3BF, Ltd

This certificate remains the property of Exova (UK) Ltd. This certificate and all copies or reproductions of the certificate shall be returned to Exova (UK) Ltd or destroyed if requested. Further clarification regarding the scope of this certificate and verification of the certificate is available through Exova BM TRADA or at the above address or at www.exovabmtrada.com

The use of the (UK) accreditation mark indicates accreditation in respect of those activities covered by the accreditation certificate C12.
This is to certify that

Sigma Factory for Steel Products
P.O. Box 37991
Dubai Industrial City
Dubai
United Arab Emirates

has been audited and found to meet the requirements of standard OHSAS 18001:2007 Health & Safety Management System.

Scope of certification
Trading and Manufacturing of All Kinds of Steel and Construction Materials.

Certificate number: 1006
Issue number: 2015-01
Certificate start date: 22 September 2015
Certificate expiry date: 21 September 2018
Date of initial certification: 22 September 2015

Signed on behalf of Tom Johnston
General Manager
Central Certification Services

BM TRADA
CERTIFICATE OF REGISTRATION

ISO 18001 Certified (Health & Safety Management system)
CSPF CERTIFICATION

ISO 9001 certified (Quality Management System)

CERTIFICATE OF REGISTRATION

This is to certify that

Sigma Factory for Steel Products
P.O. Box 37991
Sahh Suhaib - 3, 4 Round About
Dubai Industrial City
Dubai
United Arab Emirates

has been audited and found to meet the requirements of standard
ISO 9001:2015 Quality Management System

Scope of certification
Trading and Manufacturing of all kinds of Steel Related Construction Materials

Certificate number: 5965
Issue number: 2018-02
Certificate start date: 23 February 2018
Certificate expiry date: 22 February 2021
Date of initial certification: 23 February 2015

Karen Prendergast
Sector Director - Certification
Exova BM TRADA

Exova UK Ltd, (T/A Exova BM TRADA), Chiltern House, Stocking Lane, High Wycombe, Buckinghamshire, HP14 4ED, UK

This certificate remains the property of Exova UK Ltd. This certificate and any copies or reproductions of the certificate shall be returned to Exova UK Ltd or destroyed if requested. Further clarification regarding the scope of this certificate and verification of the certificate is available through Exova BM TRADA or at the above address or at www.exovabmtrada.com

The use of the UKAS accreditation mark indicates accreditation in respect of those activities covered by the accreditation certificate 812
CERTIFICATE

Issued to:
Applicant:
Isam Kabbani Trading Est. (Unitech)
Rashidiya
Dubai, United Arab Emirates

Manufacturer/Licensee:
Sigma Factory for Steel Products (SFSP)
Saif Shuaib 3, 4/R/A, Dubai Industrial City,
Dubai, United Arab Emirates

Product: Cable management system
Trade name: SFSP
Types: IE-CT-X-10, IE-CT-X-12, IE-CT-X-15, IE-CT-X-20

The product and any acceptable variation thereto is specified in the Annex to this certificate and the documents therein referred to.

DEKRA hereby declares that the above-mentioned product has been certified on the basis of:
- a type test according to the standard BS EN 61537:2007 based on IEC 61537:2006
- an inspection of the production location according to CENELEC Operational Document CIG 021
- a certification agreement with the number 2156954

DEKRA hereby grants the right to use the KEMA-KEUR BS certification mark.

The KEMA-KEUR BS certification mark may be applied to the product as specified in this certificate for the duration of the KEMA-KEUR BS certification agreement and under the conditions of the KEMA-KEUR BS certification agreement.

This certificate is issued on: 3 February, 2014 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 2156954.02

DEKRA Certification B.V.

drs. G.J. Zoetbrood
Managing Director

H.R.M. Berends
Certification Manager

© Integral publication of this certificate is allowed

ACCREDITED BY THE DUTCH ACCREDITATION COUNCIL

DEKRA Certification B.V. Meander 1051, 6825 MJ Arnhem P.O. Box 5165, 6802 ED Arnhem The Netherlands
T +31 88 96 83000 F +31 88 96 83100 www.dekra-certification.com Registered Arnhem B0025395
CERTIFICATE OF COMPLIANCE

Certificate Number: 20170811-R38825
Report Reference: R38825-20170811
Issue Date: 2017-AUGUST-11

Issued to: Sigma Factory for Steel Products
Sah Shuaib 3, 4 R/A Dubai Industrial City
Opposite DEWA Substation
Dubai UNITED ARAB EMIRATES

This is to certify that representative samples of CHUTE-TYPE FIRE DOORS
Chute-type fire door and frame assembly of the insulated type, rated up to and including 2 hr, 450°F Temperature Rise Rating.

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: ANSI/UL 10B, Fire Tests of Door Assemblies

Additional Information: See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL’s Certification and Follow-Up Service.

Look for the UL Certification Mark on the product.

* for SFSP UAE
SFSP PRODUCTS

SFSP produces a variety of products ranging from cable management systems; cable trays, cable ladders, basket trays, trunkings and support systems, to mechanical cladding fixations, steel lintels and block work accessories, plasterers’ beads, expanded metal and block work reinforcement, strut channel systems, pipe clamps & hangers, gypsum profiles as well as garbage and linen chutes. With the introduction of new machines and the enhancement of production methods, SFSP continues to develop its production methods systematically as well as thoroughly. Its design office in Stuttgart, Germany provides a comprehensive design and calculation case studies, enabling the factory to have the safety factors required for the usage of its products.

CABLE TRAYS & ACCESSORIES
Cable Trays are designed to meet most requirements of cable and electrical wire installations and comply to local and international standards of fabrications and finishes.

CABLE LADDERS (WELDED & SWAGED)
Cable Ladders of different side heights are available upon request.

BASKET TRAYS & ACCESSORIES
SFSP’s Basket Tray systems make connections fast and simple with limited need for tools. Its design allows for continuous airflow, and prevents heating up of cables. SFSP’s Basket Tray comes in a full range of sizes and is made with high-strength welded steel wires.

CABLE TRUNKINGS
Cable Trunkings and Accessories are offered in a comprehensive range. Mill galvanized, hot-dip galvanized, and powder coated are the various finishes produced in our factories.

UNDERFLOOR TRUNKING
Underfloor Trunking Systems solutions incorporate a range of products for the distribution of power and data services, it is a coordinated set of containments that protect, segregate, contain, and route cables within a given environment.
**EXPANDED METALS, PLASTERERS’ BEADS**
Expanded Metals help the formation of joints, protection of corners and resistance against cracks, chips and impact damage.

**BLOCK LADDER REINFORCEMENT**
SFSP ladder and truss types are used for the reinforcement of brick and block masonry to give improved tensile strength to walls subjected to lateral loading e.g. wind and seismic. SFSP block reinforcements reduces the risk of cracking either at stress concentration around opening.

**STEEL LINTELS & BLOCK WORK ACCESSORIES**
Steel Lintels provide a combination of strength and light weight, resulting in efficient load bearing performance and increased productivity on site. They are characterized by their ease of installation in addition to time as well as money saving.

**PIPE CLAMPS & HANGERS**
Pipe Clamps and Hangers from SFSP used in the support of pipes and equipments are manufactured according to the highest standards of fabrication. A diversified choice of Pipe Hangers, Pipe Clamps, EMT Straps, Omega Clamps, Beam Clamps, J and U-Bolts and Threaded Accessories.

**MARBLE & GRANITE FIXINGS**
Stangle Cladding Fixation includes design, calculation and production of several types of mechanical fixings and accessories used for cladding purposes. Stainless and galvanized steel are among the various materials used in the fabrication.

**DRY WALL & CEILING PROFILES**
SFSP provides a complete product range for dry wall and ceiling constructions. Studs, Runners, Furring Channels, Ceiling Channels and Wall Angles are among the range of products produced to service the dry wall installers.

**GARBAGE & LINEN CHUTES**
Chutes from SFSP are very convenient, simple and low cost method of controlling and disposing of refuse and linen. Chutes meet the most stringent requirements of environmental health and safety. Chutes are used as original equipment in new buildings, such as: Hotels, Hospitals, High Rises and Residential Towers.
SFSP Products are solely distributed by UNITECH for Building and Construction Materials

All Products Manufactured by SFSP are Solely Distributed by SFSP Sister Companies in the Following Countries

**KSA**
Isam Kabbani & Partners for Building and Construction Materials Co., Ltd.
 مؤسسة عصام قباني وشركاء للمواكنت العامة للعمارة والبناء

**BAHRAIN**
Isam Kabbani Trading Est.
 مؤسسة عصام قباني التجارية

**UAE**
Issam Kabbani Trading Est.
 مؤسسة عصام قباني التجارية

**KUWAIT**
Hassan Kabbani for General Contracting Est.
 مؤسسة حسان قباني للمقاولات العامة

**OMAN**
Isam Kabbani & Partners Trading Co.
 مؤسسة عصام قباني وشركاء للتجارة

**EGYPT**
UNITECH Egypt for Building Materials
 شركة يونيتك مصر لمواد البناء

**JORDAN**
Jordan Build Co. for Building & Construction Materials
 شركة بناء الأردن لمواد الإنشاء والتعمر والكهرباء

**LEBANON**
UNITECH ME s.a.r.l
 شركة يونيتك ميدل إيست ش.م.م

SFSP CUSTOMER SERVICE CALL CENTER

**KSA**
+966 13 8590097, Ext. 3214

**UAE**
+971 4 8181925, Ext. 4269
The IKK Group is a major business institution, serving most of the Arab World in the industrial, construction and trading fields, as well as in specialized maintenance and services.

Today, the IKK Group of Companies is a pioneer in waterproofing, weatherproofing, building material supplies, UPVC and CPVC and high density polyethylene pipes and fittings and several other products for the construction industry.

The Group is also represented in the sanitary products, steel production, kitchen manufacturing, telecommunications, food, decoration, re-insurance and real estate business domain.

Composed of 60 companies, the IKK Group operates through almost 200 divisions, branches and outlets, it is spread over 12 countries, covering all major cities in the region and employing around 13,000 employees.

Our vision is to maintain and improve our leading position as a contractor whose reputation is built on the ability to completely satisfy customers by providing high quality services. As specialists in their respective fields, our teams of professionals are dedicated to a standard of excellence for quality and performance, through continuous development, which will set standards in our industry. We are simply providing solutions for a future of success.

Our mission is to provide our part of the Arab World with local and reliable services in a variety of sectors and products.

To create employment to thousands of personnel and in-house training for hundreds of young Arab graduates in crucial sectors to the benefit of the IKK Group, the graduates themselves and their own communities.

To set a good example of our basic business philosophy: “Hire well, train well, pay well and treat well.”

Isam Kabbani & Partners for buildings & construction materials co. Ltd (UNITECH) which is part of the IKK group of companies is recognized and acknowledged for the quality and reliability of its products and services as well as for the commitment, professionalism and experience of its employees.

Isam Kabbani & partners for buildings & construction materials co. Ltd (UNITECH) core values are to offer value products and services to its clients, to work closely with them in a lasting business partnership that provides an outstanding performance.

A partnership based on trust, harmony, and a hard to beat services and solutions.

Our Factories have acquired, in addition to ISO 9001:2008 Quality Management System, the ISO 14001:2004 Environmental Management System.

Our care for the environment has been translated via Isam Kabbani & partners for buildings & construction materials co. Ltd (UNITECH)’s membership in the US Green Building Council as a Golden Member.

Our Vision
A solid, well-organized, specialized building materials company with large geographic coverage, where well-trained and well-motivated personnel have the role of the prime moving force.

Our Mission
To achieve unrivalled excellence in each of Isam Kabbani & partners for buildings & construction materials co. Ltd (UNITECH)’s activities which are measured by:

• Quality of customer service.
• Quality and variety of products’ range.
• Best team environment.
• Enhancement of the company’s image.
• Professionalism and consistency as the main yardstick for long-term success.
CABLE MANAGEMENT SYSTEMS

SFSP Cable Management Systems, fittings and accessories are manufactured in compliance with international standards. SFSP provides a wide range of products capable of providing the characteristics which respond to the proposed application, along with quality of assembly, speed of installation and cost-saving Cable Management Systems. Calculations are provided by our design office in Stuttgart, Germany.

SFSP Cable Management Systems are designed to meet most requirements of cable and electrical wire installations and comply to local and international standards of fabrication and finishing. Cable Management Systems are economical wire and cable management systems designed to support and protect electrical wires and cables.

National Electric Code (NEC) permits Cable Trays in a wide variety of indoor and outdoor applications. The NEC also permits Cable Trays for use as equipment ground conductor.

Cable Management Systems can provide significant advantages in cable filling over other wiring methods. This can provide savings in the size or number of raceways required, thereby, reducing both material and labor costs. In many cases, NEC permits greater conductor ampacities in Cable Tray Systems than for other wiring methods.

Under certain conditions, the NEC allows “Free Air” rating of large, single conductor power cables (4/0 & larger) in ventilated Cable Management Systems. This can provide significant savings in conductor costs. Cable Management Systems permit much greater spacing between support hangers than most other systems, providing savings in support costs and installation labor.

Cable Management Systems’ types fittings and accessories from SFSP are manufactured in compliance with:

- IEC 61537:2007
- BS EN 61537:2007
- SASO IEC (61537:2006)
- NEMA VE 1 - 2009
- NEMA VE 2 - 2006
- NEC (ANSI / NFPA 70)

International Electrotechnical Commission
(Cable management, Cable tray systems and cable ladder systems)

Saudi Standard
(Cable management, Cable tray systems and cable ladder systems)

National Electrical Manufacturers Association.
(Metal Cable Tray Systems)

National Electrical Manufacturers Association.
(Metal Cable Tray Installation Guide Lines)

National Electric Code
(Metal Cable Tray Guide Lines)
UNDERFLOOR TRUNKING
SFSP, Underfloor Trunking Systems solutions incorporate a range of products for the distribution of power and data services, it is a coordinated set of containments that protect, segregate, contain, and route cables within a given environment.

A. Protection
Cables and wires running within containment need to be protected from vermin, tripping, and accidental breakage. This can be achieved using appropriate cable management solutions.

B. Segregation
The cable containment provides the required segregation between services like power, data, telephone and any other ELV systems. Segregation is normally achieved using metal partitions to prevent interference.

C. Containment
Cluttered wires that are run loosely within an environment are an eyesore. This could be resolved by resorting to appropriate cable management schemes that contain the wires, and restore order in such environments.

D. Routing
Cable Management enables wires to be routed into inaccessible areas by innovative solutions such as the use of false floors. Open plan offices are serviced using floor distribution systems.

SFSP Flush Floor Trunking Systems, are more popular than inscreed floor systems in areas where flexibility is desired, with an increased demand on cable capacity. Office environment demands the usage of an increasing number of data and telephone cables. The advent of structured cabling has resulted in greater space requirements and therefore more constraints from the installation perspective. Additionally, there has been a call for flexibility within newly built open office plans. This flexibility is offered by SFSP’s Flush Floor Trunking Systems. Cables Containment for the Flush Floor System in comparison to raised floor trunking systems, the flexibility and cable capacity offered by a flush floor trunking system is lesser. Floor boxes within a flush floor system can be relocated along the run of the trunking, while raised floor boxes can be relocated anywhere on the floor area. Relative advantages of a flush floor trunking system over raised floor trunkings include accessibility and reduced overall system cost. SFSP Flush Floor Trunkings render flexibility to the end user in relocating floor boxes. The partitions are fully removable to accommodate service box modules.

The service box modules are fully reversible to enable repositioning of the floor boxes. The trap and frame of the SFSP service boxes can be positioned on all four sides, enabling easy access and cable exit in all directions.
SFSP offers a less expensive cable containment service for the open offices to ensure the cable outlets for the various services for the all stations.

Screed Floor System is a pre-cast cable containment service in position within the office premises. Running from the main distribution boards for electrical / data voice / CCMS services routed via the vertical elbow, junction boxes and ducting to the services outlet boxes underneath the work stations.

Junction Boxes are featured with slim trimming for the granite, marble or ceramic floor finishes with recess on the traps for various floor finishes embedding.

SFSP base boxes are die-cast in one piece to maintain the box uniformity on the tough floor surfaces. Base boxes, traps and frames are made of a non-corrosive die-cast alloy.

Raised Floor Trunking Systems are increasingly adopted in new commercial buildings. Cable containment services are in modular design for the day-to-day changes within the office premises, for the ease of cable termination for the various services, such as computer / data / voice and BMS / CCMS structured cabling, where the raised floor makes a new level for cables containment in the floor void.
FLUSH FLOOR TRUNKING SYSTEM
Flush floor trunking system combines robustness and reliability, allowing power and data distribution throughout concrete floors. The system facilitates frequent maintenance operations or eventual changes of floor box locations. Different accessories ensure quick installation and perfect integration into the concrete floor.

Flush floor trunking in screeded floor
A Flush Floor Trunking system has a lesser loading capacity than an inscreed system, as the entire trunking is fixed flush with the finished floor. As loads constantly impinge on the floor trunking, the load bearing capacity of the system is reduced.

In a raised floor trunking system the boxes are the only load carrying components within the floor system. The boxes are suspended within raised flooring, and are capable of carrying dynamic loads normally seen within floor spaces. The average design loads on floor distribution system are as shown below. As the traffic increases, the load expected to impinge on the floor boxes could increase, and increase the stress on the floor boxes. The system chosen should be capable of taking the following loads per square meter:

<table>
<thead>
<tr>
<th>Category</th>
<th>Load (kN)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commercial Office</td>
<td>-3kN</td>
</tr>
<tr>
<td>Shopping Mall</td>
<td>-6kN</td>
</tr>
<tr>
<td>Exhibition Halls</td>
<td>-6kN</td>
</tr>
<tr>
<td>Conference Rooms / Hotel</td>
<td>-3kN</td>
</tr>
<tr>
<td>Corridors</td>
<td>-5kN</td>
</tr>
</tbody>
</table>
Flush Trunking System

System overview

A Trunking
B End cap
C Junction box
D Coupler and leveling kit
E Fixing bracket and leveling for trunking
F Leveling for junction box
G Riser
H Floor box (support plate + lid and trim) Socket outlets and data sockets plates to be ordered separately

Standards

Metal trunking according to standards EN 60-670 and EN 50085-2.2 It ensures constant performance along the entire distribution up to the user connection point

<table>
<thead>
<tr>
<th>Classification for flush floor</th>
<th>Flush floor</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.2 Resistance to impact for installation and application</td>
<td>2.0 J</td>
</tr>
<tr>
<td>6.3 Minimum storage and transport temperature</td>
<td>-25 °C</td>
</tr>
<tr>
<td>6.3 Minimum installation and application temperature</td>
<td>-5 °C</td>
</tr>
<tr>
<td>6.3 Maximum application temperature</td>
<td>+60 °C</td>
</tr>
<tr>
<td>6.4 Resistance to flame propagation</td>
<td>Non-flame propagating</td>
</tr>
<tr>
<td>6.5 Electrical continuity characteristics</td>
<td>With electrical continuity characteristic (metal ducting &amp; accessories)</td>
</tr>
<tr>
<td>6.6 Electrical insulating characteristics</td>
<td>Without electrical insulating characteristic (metal ducting &amp; accessories)</td>
</tr>
<tr>
<td>6.7 Degree of protection provided by enclosure</td>
<td>IP 20</td>
</tr>
<tr>
<td>6.9 System access cover retention</td>
<td>With a tool</td>
</tr>
<tr>
<td>6.101 Floor treatment</td>
<td>For dry-treatment of floor</td>
</tr>
<tr>
<td>6.102 Resistance to a vertical load applied over a small surface area</td>
<td>1500 N(1)</td>
</tr>
<tr>
<td>6.103 Optional classification: resistance to vertical load applied through large surface area</td>
<td>3000 N</td>
</tr>
<tr>
<td>6.103 Rated voltage</td>
<td>500 V</td>
</tr>
<tr>
<td>6.103 Protection against mechanical impact</td>
<td>IK 08</td>
</tr>
</tbody>
</table>

(1) For 4 compartments, resistance to vertical load applied over a small surface area = 750 N
Flush Trunking and Accessories

Material: pre-galvanised steel sheet
Standard Length (L): 2440 / 3000 mm
Number of Compartments: 3 and 4 compartments
Standard Height (H): 65 mm
Standard Thickness: 1.5 mm for body/2.5 mm for covers/1 mm for dividers

Example of Layout

For optimal flexibility of the installation, the trunking is usually installed on either a Grid, Fishbone or a Comb Pattern of single, double or triple runs.

Grid Pattern

A Grid Pattern is widely used in areas where the occupants require the highest degree of flexibility in reconfiguring workspace. Capacity can be increased by returning individual ring mains through the different runs of trunking, which in itself allows easier installation.

Fishbone Pattern

The Fishbone Pattern is ideal for a medium sized area where fewer boxes are required.

Comb Pattern

The Comb Pattern is the most economical way of installation in which a minimum of trunking is used. The Comb Pattern is suited for small to medium office areas.

<table>
<thead>
<tr>
<th>Lid and trim for floor boxes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor box</td>
</tr>
<tr>
<td><img src="image" alt="Floor box" /></td>
</tr>
</tbody>
</table>
Composition and Functions of **Flush Trunking System**

Conforms with BS EN 50085-1: 2005 and EN 50085-2.2
Provides power and data distribution channels in concrete floors.
This robust system offers a high degree of flexibility for applications requiring frequent maintenance or frequent layout changes.

**Trunking**
Length : 2440 mm / 3000 mm
Height : 65 mm
3 and 4 compartments

<table>
<thead>
<tr>
<th>Item Number</th>
<th>W (mm)</th>
<th>H (mm)</th>
<th>L (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FTR 300</td>
<td>300</td>
<td>65</td>
<td>2440 / 3000</td>
</tr>
<tr>
<td>FTR 400</td>
<td>405</td>
<td>65</td>
<td>2440 / 3000</td>
</tr>
</tbody>
</table>

**Junction boxes**
Direct access to cables at the intersection of trunkings
For 300 x 65 mm trunking
For 405 x 65 mm trunking

<table>
<thead>
<tr>
<th>Item Number</th>
<th>W (mm)</th>
<th>H (mm)</th>
<th>L (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FJB 360</td>
<td>360</td>
<td>66.6</td>
<td>360</td>
</tr>
<tr>
<td>FJB 465</td>
<td>465</td>
<td>66.6</td>
<td>465</td>
</tr>
</tbody>
</table>

**Risers**
For 300 x 65 mm trunking
For 405 x 65 mm trunking

<table>
<thead>
<tr>
<th>Item Number</th>
<th>W (mm)</th>
<th>H (mm)</th>
<th>L (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRI 300</td>
<td>300</td>
<td>65</td>
<td>201</td>
</tr>
<tr>
<td>FRI 405</td>
<td>405</td>
<td>65</td>
<td>201</td>
</tr>
</tbody>
</table>
### Support plate for floor boxes
To be fitted with lid and trim, Integrating socket outlets or support plates

<table>
<thead>
<tr>
<th>Item Number</th>
<th>A (mm)</th>
<th>B (mm)</th>
<th>C (mm)</th>
<th>D (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6896 36</td>
<td>264</td>
<td>264</td>
<td>406.4</td>
<td>300</td>
</tr>
<tr>
<td>6896 37</td>
<td>264</td>
<td>264</td>
<td>406.5</td>
<td>405</td>
</tr>
<tr>
<td>6896 47</td>
<td>264</td>
<td>340</td>
<td>406.5</td>
<td>405</td>
</tr>
</tbody>
</table>

### Leveling kit for trunking
For raising trunking level up to 70 to 90 mm
For 300 x 65 mm trunking
For 405 x 65 mm trunking

### End caps
For 300 x 65 mm trunking
For 405 x 65 mm trunking

### Leveling kit for junction boxes
For raising junction box level up to 70 to 90 mm

### Coupler
For joining trunkings

### Fixing bracket (FB)
For fixing trunking on floor or on leveling bracket
Cable capacity guide
The number and location of boxes depend upon the end user’s requirement.
A floor box has to be considered for each workstation or desk with an average of 1 FB for every 10 m²

<table>
<thead>
<tr>
<th>Ducting</th>
<th>Compartment</th>
<th>Available section at 45% fill</th>
<th>1.5 Ø 3.3</th>
<th>1.5 Ø 4</th>
<th>2.5 Ø 6.7</th>
<th>2.5 Ø 8.7</th>
<th>4 Ø 10.5</th>
<th>4 Ø 11.2</th>
<th>6 Ø 13.3</th>
<th>cat. 5e UTP Ø 5.5</th>
<th>cat. 5e STP Ø 6.5</th>
<th>cat. 6 UTP Ø 7</th>
<th>cat. 6 STP Ø 7</th>
</tr>
</thead>
<tbody>
<tr>
<td>300 x 65</td>
<td>1</td>
<td>2992</td>
<td>348</td>
<td>237</td>
<td>180</td>
<td>141</td>
<td>85</td>
<td>63</td>
<td>40</td>
<td>35</td>
<td>30</td>
<td>20</td>
<td>99</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>2086</td>
<td>243</td>
<td>166</td>
<td>126</td>
<td>98</td>
<td>59</td>
<td>44</td>
<td>28</td>
<td>24</td>
<td>21</td>
<td>14</td>
<td>69</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>2992</td>
<td>348</td>
<td>237</td>
<td>180</td>
<td>141</td>
<td>85</td>
<td>63</td>
<td>40</td>
<td>35</td>
<td>30</td>
<td>20</td>
<td>99</td>
</tr>
<tr>
<td>405 x 65</td>
<td>1</td>
<td>3389</td>
<td>394</td>
<td>269</td>
<td>204</td>
<td>160</td>
<td>96</td>
<td>71</td>
<td>46</td>
<td>39</td>
<td>34</td>
<td>23</td>
<td>112</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>4200</td>
<td>488</td>
<td>333</td>
<td>253</td>
<td>198</td>
<td>119</td>
<td>88</td>
<td>57</td>
<td>49</td>
<td>42</td>
<td>28</td>
<td>139</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>3389</td>
<td>394</td>
<td>269</td>
<td>204</td>
<td>160</td>
<td>96</td>
<td>71</td>
<td>46</td>
<td>39</td>
<td>34</td>
<td>23</td>
<td>112</td>
</tr>
</tbody>
</table>

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

**Installation Principle**

The entire flush floor trunking system and accessories used shall be supplied and installed strictly according to the recommendations and instructions of the manufacturer.

1- Mark the pathway for trunking and junction boxes
2- Fix risers junction boxes on the Fix Trunking and all accessories with fixing brackets slab.
3- Fix trunking and all accessories with fixing brackets
4- If levelling is required, use levelling kits and do not exceed 1.2 m between levelling brackets
5- Pour concrete

6- Earth the system (minimum every 10 m)

7- Once the screed is dry, remove the covers and the cable trunking

8- To fit the floor box, remove cover and the rubber gasket. Remove the dividers, fix them up-side-down and reposition rubber gasket

9- To fit the floor box, remove cover and the rubber gasket. Remove the dividers, fix them up-side-down and reposition rubber gasket

10- Fix floor box support plate, and earth it

11- Connect wiring and fix the wiring accessory plates.

12- Fit the carpet and clip the lid and trim on the support plate (push and fit principle)
SCREED FLOOR TRUNKING SYSTEM
SCREED FLOOR TRUNKING SYSTEM

Screw metallic trunkings are a quick and easy way to install power and data distribution throughout screed floors. These systems are particularly robust and are designed to support superior loads. Junction boxes and risers allow easy access when installing cables or for extensions.
Screed Floor Trunking
Screed Trunking System

System overview

A Ducting
B Coupler
C junction box
D Fixing bracket
E Vertical trunking such as DLP
F Riser
G Floor box (back-box + lid and trim) Socket outlets and data socket plates to be ordered separately

Standards

Standard EN 60-670 and EN 50085-2-2 concerns systems for distributing currents in the floor (sunken or surface mounted).
It ensures constant performance along the entire distribution up to the user connection point.

<table>
<thead>
<tr>
<th>Classification for flush floor</th>
<th>Flush floor</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.2 Resistance to impact for installation and application</td>
<td>2.0 J</td>
</tr>
<tr>
<td>6.3 Minimum storage and transport temperature</td>
<td>- 25 °C</td>
</tr>
<tr>
<td>6.3 Minimum installation and application temperature</td>
<td>- 5 °C</td>
</tr>
<tr>
<td>6.3 Maximum application temperature</td>
<td>+ 60 °C</td>
</tr>
<tr>
<td>6.4 Resistance to flame propagation</td>
<td>Non-flame propagating</td>
</tr>
<tr>
<td>6.5 Electrical continuity characteristics</td>
<td>Without electrical continuity characteristic (PVC ducting) With electrical continuity characteristic (metal ducting &amp; accessories)</td>
</tr>
<tr>
<td>6.6 Electrical insulating characteristics</td>
<td>With electrical insulating characteristic (PVC ducting) Without electrical insulating characteristic (Metal ducting &amp; accessories)</td>
</tr>
<tr>
<td>6.7 Degree of protection provided by enclosure</td>
<td>IP 20</td>
</tr>
<tr>
<td>6.9 System access cover retention</td>
<td>With a tool</td>
</tr>
<tr>
<td>6.10I Floor treatment</td>
<td>For dry-treatment of floor</td>
</tr>
<tr>
<td>6.102 Resistance to vertical load applied through small surface area</td>
<td>1500 N (^{1})</td>
</tr>
<tr>
<td>6.103 Optional classification: resistance to vertical load applied through large surface area</td>
<td>3000 N</td>
</tr>
<tr>
<td>6.103 Rated voltage (PVC ducting)</td>
<td>500 V</td>
</tr>
<tr>
<td>Protection against mechanical impact</td>
<td>IK 08</td>
</tr>
</tbody>
</table>

(1) For 4 compartments, resistance to vertical load applied over a small surface area = 750 N
**Flush Trunking and Accessories**

**Material:** pre-galvanised steel sheet  
**Standard length:** 2440 / 3000 mm  
**Number of Compartments:** 3 and 4 compartments  
**Standard Height:** 25 mm and 38 mm  
**Standard Thickness:** 1.2 mm for body/1 mm for dividers

**Example of Layout**

For optimal flexibility of the installation, the trunking is usually installed on either a Grid, Fishbone or a Comb Pattern of single, double or triple runs.

**Grid Pattern**  
A Grid Pattern is widely used in areas where the occupants require the highest level of flexibility in reconfiguring workspace. Capacity can be increased by returning individual ring mains through the different runs of trunking, which in itself allows easier installation.

**Fishbone Pattern**  
The Fishbone Pattern is ideal for a medium sized area where fewer boxes are required.

**Comb Pattern**  
The Comb Pattern is the most economical way of installation in which a minimum of trunking is used. The Comb Pattern is suited for small to medium office areas.

### Lid and trim for floor boxes

<table>
<thead>
<tr>
<th>Floor box</th>
<th>Rigid cable exits</th>
<th>Flexible cable exits</th>
<th>Stainless steel insert</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Image" /></td>
<td><img src="image2.png" alt="Image" /></td>
<td><img src="image3.png" alt="Image" /></td>
<td><img src="image4.png" alt="Image" /></td>
</tr>
</tbody>
</table>
Composition and Functions for **Screed Trunking System**

**Material:** pre-galvanised sheet  
**Standard thickness:** 1.2 mm for body / 1 mm for dividers  
**Standard length:** 2440 / 3000 mm  
**Number of compartments:** 3 and 4 compartments  
**Standard depth:** 25 mm and 38 mm

---

**Trunking**

Trunking height 25 mm  
225 x 25 mm - 3 compartments  
300 x 25 mm - 3 compartments  

Trunking height 38 mm  
225 x 38 mm - 3 compartments  
300 x 38 mm - 3 compartments

<table>
<thead>
<tr>
<th>Item Number</th>
<th>W (mm)</th>
<th>H (mm)</th>
<th>L (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>STR 25</td>
<td>225</td>
<td>25</td>
<td>2440 / 3000</td>
</tr>
<tr>
<td>STR 38</td>
<td>225</td>
<td>38</td>
<td>2440 / 3000</td>
</tr>
<tr>
<td>STR 25-1</td>
<td>300</td>
<td>25</td>
<td>2440 / 3000</td>
</tr>
<tr>
<td>STR 38-1</td>
<td>300</td>
<td>38</td>
<td>2440 / 3000</td>
</tr>
</tbody>
</table>

---

**Junction boxes**

For direct access to cables at the intersection of floor ductings while maintaining perfect separation between ELV and LV cables, Supplied complete with base, cover fly-overs and site cover

<table>
<thead>
<tr>
<th>Item Number</th>
<th>W (mm)</th>
<th>H (mm)</th>
<th>L (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SJB 325</td>
<td>325</td>
<td>90</td>
<td>325</td>
</tr>
<tr>
<td>SJB 400</td>
<td>400</td>
<td>90</td>
<td>400</td>
</tr>
</tbody>
</table>

---

**Risers**

<table>
<thead>
<tr>
<th>Item Number</th>
<th>A (mm)</th>
<th>B (mm)</th>
<th>C (mm)</th>
<th>D (mm)</th>
<th>E (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRI 250</td>
<td>250</td>
<td>89</td>
<td>201</td>
<td>43</td>
<td>52</td>
</tr>
<tr>
<td>SRI 325</td>
<td>325</td>
<td>89</td>
<td>201</td>
<td>43</td>
<td>52</td>
</tr>
</tbody>
</table>
**Back-boxes**

To be fitted with lid and trim, integrating socket outlets or support plates. Accept screed floor ducting and conduits Ø20 and 25 mm Auto-adjustable to screed height 65 up to 90 mm

<table>
<thead>
<tr>
<th>Item Number</th>
<th>W (mm)</th>
<th>H (mm)</th>
<th>L (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6896 34</td>
<td>325</td>
<td>90</td>
<td>325</td>
</tr>
<tr>
<td>6896 35</td>
<td>400</td>
<td>90</td>
<td>400</td>
</tr>
<tr>
<td>6896 45</td>
<td>400</td>
<td>90</td>
<td>325</td>
</tr>
</tbody>
</table>

**Dimensions for carpet cut out on backbox support frame**

<table>
<thead>
<tr>
<th>Item Number</th>
<th>D (mm)</th>
<th>E (mm)</th>
<th>F (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6896 34</td>
<td>276</td>
<td>264</td>
<td>264</td>
</tr>
<tr>
<td>6896 35</td>
<td>276</td>
<td>264</td>
<td>264</td>
</tr>
<tr>
<td>6896 45</td>
<td>276</td>
<td>264</td>
<td>340</td>
</tr>
</tbody>
</table>

**Dimensions for carpet cut out on junction box lid**

<table>
<thead>
<tr>
<th>Item Number</th>
<th>D (mm)</th>
<th>E (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6897 22</td>
<td>260</td>
<td>260</td>
</tr>
<tr>
<td>6897 32</td>
<td>335</td>
<td>335</td>
</tr>
</tbody>
</table>

**End caps**

**Fixing Bracket (FB)**

**Coupler**
Cable capacity guide
The number and location of boxes depend upon the end user’s requirement. A floor box has to be considered for each workstation or desk with an average of 1 FB for every 10 m².

<table>
<thead>
<tr>
<th>Ducting</th>
<th>Compart-ment</th>
<th>Available section at 45% fill mm</th>
<th>Stranded</th>
<th>Twin &amp; earth</th>
<th>cat. 5e UTP Ø 5.5</th>
<th>cat. 5e STP Ø 6.5</th>
<th>cat. 6 UTP Ø 6.5</th>
<th>cat. 6 STP Ø 7</th>
</tr>
</thead>
<tbody>
<tr>
<td>225x25</td>
<td>1 2 3</td>
<td>739 86 59 45 35 21 15 10 9 7 5 24 21 18 15</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>225x38</td>
<td>1 2 3</td>
<td>1164 135 92 70 55 33 24 16 14 12 8 39 32 28 24</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>300x25</td>
<td>1 2 3</td>
<td>994 116 79 60 47 28 21 13 12 10 7 33 28 24</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>300x38</td>
<td>1 2 3</td>
<td>1566 182 124 94 74 44 33 21 18 16 11 52 43 37 32</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

Installation Principle

1-Mark pathway for trunking, junction boxes and backboxes

2-Fix risers, junction boxes and backboxes on the slab

3-Fix trunking with couplers and fixing brackets

4-Pour concrete

5-Remove disposable metal cover

6-Backbox: lift the frame (A) and retainers will automatically drop out (B). Lock the frame onto the backbox by pushing down clips onto the threaded rod. Junction box: adjust junction box to floor level.
Installation Principle

7- Cable ducting and earth junction boxes

8- Connect wiring and fix the wiring accessory plates onto the backbox. Earth the system

9- Fit carpet and clip the lid and trim onto the backbox (push and fit principle)
RAISED ACCESS FLOOR TRUNKING SYSTEM
This trunking system is compatible with any traditional raised access floor and has been especially designed to ensure fast installation, reliability, robustness and flexibility.

RAISED ACCESS FLOOR SYSTEM
Different solutions for all your projects integrating raised access floor allow you to make well organised and functional offices and save time and money during installation or future reconfiguration. Our solutions have been designed for reliability, ease of installation and maximum flexibility.
RAISED ACCESS FLOOR TRUNKING SYSTEM

- Lid and trim
- Stainless steel insert
- Module
- Metal trunking
- Support frame
- Junction box

Riser

Coupler

Leveling kit

Tap off unit

Basket Tray / Wire Mesh

Riser

Coupler

Leveling kit

Tap off unit

Basket Tray / Wire Mesh
Floor Boxes

Conforms to IEC 60670-23 and to BS EN 50 085-2.2
Compatible with dush door trunking systems, screed door systems and raised access door trunking systems.

For Carpet

3 and 4 compartment floor boxes

Lid and trims for carpet:
To be fitted on either:
- Modular backbox or full backbox for raised floor
- Support plate for flush floor trunking
- Screed floor backbox
To be equipped with dedicated socket outlets, Arteor wiring accessories or 6C modules

Stainless steel insert for lid
To be used instead of fitting carpet onto the lid.
For 3 and 4 compartments

For Tiles / Marble

Lid and trim for floor boxes:
To be installed in backbox for screed floor system.
To be equipped with dedicated socket outlets
- Specific backbox
For installation of floor boxes in screed floor systems.
Empty Wiring Accessories Plates

Support plates for Arteor mechanism
Support plates for integration of 6C modules
77 mm width plate
- Flat support plates
  2 modules (2 x 1 module)
  4 modules (4 x 1 module)
- Waved support plates
  2 modules (2 x 1 module)
  4 modules (4 x 1 module)

Support plates for Lexic DIN-rail equipment
Support plates for integration of DIN-rail equipment in floor boxes. 77 mm width plate supplied with transparent plastic cover to avoid accidental handling (1 or 2 modules)

Blank plates for floor boxes
To cover an unused compartment 77 mm and 154 mm width plate

Installation Guide

1- Cut a slot with template in the panel .
2- Fix base unit to the panel with countersunk screws
3- Install the accessories plates
4- Lay the carpet on the raised floor.
5- Mount trap and frames .
6- Lay the carpet in the recess of the trap.
Floor Boxes Installation

Installation Principle
Lid and trim can be used for all applications: screed, flush and raised access floor systems. They allow a uniform finish within the project.

Lid and trim is available in 2 different sizes (3 compartments or 4 compartments)

<table>
<thead>
<tr>
<th>Lid and trim for floor boxes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor box</td>
</tr>
</tbody>
</table>

Rigid and flexible cable exits
Rigid and flexible cable exits: maximum cable capacity 4 cables ø7 mm + 3 cables ø11 mm. Both systems provide maximum protection for cables. Flexible exit does not require closing when not in use.

Site protection cover
Lid and trim comes with a building site protection to avoid damages during installation. This site protection has to be removed to access the floor box and can be repositioned afterwards. Site protection cover has to remain on the floor box until hand-over of the project.
**Reversible Lid**

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

**Locking System**

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

**Installation process**

1. Fix the lid and trim directly onto the backbox, push and fit system. Lid and trim can be assembled with backbox even before carpet fitting.

2. To fit carpet, pull the levers on both sides to take out the lid and trim.

3. Fit the carpet to the backbox edge.

4. Push the lid and trim back on to the backbox. The trim will adjust to the carpet thickness.

5. Carpet thickness < 15 mm.

6. Stainless steel insert optional as an alternative to filling the lid with carpet. To fit the stainless steel insert on to the lid, use the double side tape supplied.

<table>
<thead>
<tr>
<th>Stainless steel insert</th>
<th>3 compartments</th>
<th>4 compartments</th>
</tr>
</thead>
<tbody>
<tr>
<td>6896 92</td>
<td>6896 93</td>
<td></td>
</tr>
</tbody>
</table>
Installation

1. Determine floor box location and then fasten with bolts and nuts.
2. Peel off the pre-punched knock-outs at the side blank plate before laying the ductings.
3. Fasten the side blank plate.
4. Lay the steel mesh at the blank.
5. Screeding.
6. After screeding has cured, use hammer to knock and loosen the disposable lid before hooking it out.

Service Box Installation Guide

7.1. Install accessore plates.
8.1. Mount trap frames and trap cover.
9. Finished floor with carpet

Junction Box Installation Guide

7.2. Mount the trap frame and trap cover.
8.2. Finished floor with carpet
1. To remove the lid from the trim, hold it under an angle of approximately 65° and pull it out.

2. Remove site cover protection from backbox.

3. Place the trim onto the threaded rods.

4. Make a rough adjustment to finished floor level by turning threaded rods in each corner with a screwdriver.

5. Cable the system.

6. Tiling should be carried out at this stage.

7. Make final adjustment to finished floor level by turning threaded rods in each corner with a screwdriver.

8. Push the lid back in place by holding it under an angle of approximately 65°.
OUTLETS

FACTORIES

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