

SFSP

Specialized Factory for Steel Products

PRODUCT PROFILE



SFSP PRODUCT PROFILE



SFSP Product Profile

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ABOUT UNITECH



Unitech Introduction

Unitech is a proud Saudi company providing building and construction solutions that empowers the regions construction industry for the past 40+ years. We have been successfully providing solutions through mastering our main business activities:

**Design:**

Provide Design & Engineering Solution to the construction sector, complying with international & local standards.

**Manufacture:**

Operating with Global Standards, we are widely recognized for our advanced light steel solutions and Hot-Dip Galvanization Facility.

**Trade:**

We are one of the region's largest Importer/Exporter of Building & Construction Materials.

Unitech is an **ISO QMS 9001:2015** certified company and is a member of the US Green Building Council. Our experienced teams and operations are present across the Middle-East North Africa regions (MENA) and Pakistan, giving us an extensive regional network that benefits our clients and partners. We are also present in Europe via our design and engineering office in Stuttgart.

For more information, please visit: www.unitech-ikk.com

Mission & Vision

Our Vision

To be the Customer's First Choice...

Our Mission

We have the conviction to be the leader in building & construction industry through:

- A- Providing Excellence in services with Passionate & Educated sales force
- B- Strengthen culture through Unified Sense Of Purpose
- C- Developing Innovative Product Range which is Customer Centric
- D- Constantly providing Reputable and Quality services to the construction industry
- E- Attracting, Engaging, Retaining and Continuously Developing Talent

Our Strategy

Unitech's strategy continues to focus on accelerating its business throughout the region, to service the construction sector via superior products & solutions, backed up by a group of highly experienced people in the field. Unitech also aims to enhance its geographical presence in its areas of interest and where opportunities exist.

We combine a deep understanding of building and construction materials markets with a successful history of upgrading our products and developing our processes.

We have the qualified employees, the know-how and the products to service major construction projects, medium sized to mega projects taking in care our positive contribution to our societies.

We thrive towards excellence by acknowledging:



Customer Satisfaction



Partner and Supplier Relations



Employee Retention



Positive Influence on Society and Environment

Our Employees

We are a company that prides itself on its 'family' culture and we seek out high-caliber people. We are a company that has, at its core, a team philosophy that is clearly apparent each and every day - there is a real sense of being there for one another.

We believe in nurturing the skills of our team members and providing growing levels of responsibility. Our people bring unique skills, energy, expertise, experience and perspectives to our workforce.

Unitech's family of employees consists of experienced, well-motivated and dedicated team of engineers, technicians, sales executives and management staff. This team is committed to serve our customers, with the best solutions available in the market.

Our Journey

40+ Years of Excellence

Since 1979, having been set to become an independent company under the framework developed by Sheikh Isam Kabbani, Unitech started its journey of success with confidence and enthusiasm, hard work and care to detail and a commitment to become the best within its industry.

Its dedicated people could only imagine what the future could bring to this newly established entity. Unitech's journey of success has been marked with outstanding achievements and superior accomplishments. Year by year, Unitech has been acknowledged as the "First Choice for Building & Construction Material" by major construction consultants in the region, governmental authorities, well-known contracting and project development corporations.

We have obtained invaluable knowledge about the construction industry in general, providing specialized solutions to construction projects throughout MENA region. From a couple of outlets in Saudi Arabia, Unitech today is present all over the Kingdom and in several countries throughout the region providing its products and solution to various locations worldwide.



Est. 1979

THE BEGINNING

Unitech was established in the Western Region of KSA as a Sales Company selling basic construction material.

During the same year, another branch was established in the heart of the kingdoms capital, Riyadh.



1980 to 1989

AGE OF GREAT RISK

Unitech Dammam was open for business in the oil-rich eastern coast of Saudi Arabia.

Within these 10 years the idea of in-house manufacturing facility was born and Specialized Factory for Steel Products (SFSP) was established in Riyadh.



1990 to 1999

AGE OF GROWTH

Branches of Unitech were established in Makkah, Madina, Khamis Mushayt and Jubail.

The need to increase its range of products and the necessity to have production lines for mass production lead to the decision to move the SFSP Factory from Riyadh to Jeddah.

Pioneering Construction Since 1979

We are constantly evolving in order to become more flexible in our operations, more sustainable in our societies, and more innovative in conducting our business.

By delivering superior products tailored to the specific construction needs, ambitious solutions, and an outstanding customer service, we serve today's needs through developing tomorrow's markets.

Helping construction projects experience success is what fueled its days. Unitech is keen to continue offering superior products, a wide spectrum of solutions, governed by our top-notch management style.

Such aspirations require trust in our responsibilities. Our Responsibilities for the future and with this in mind we continue to target excellence with committed efforts.



2000 to 2015

AGE OF CONSTRUCTION BOOM

Qassim, Hofuf and Yanbu Branches were inaugurated in KSA and branches outside KSA were established in UAE, Egypt, Lebanon, Oman, Jordan and Germany in order to facilitate the construction boom in the Middle East.

During this period SFSP state of the art facilities were launched in DIC UAE and Unitech thrived, marking some of the best years in business.



2016 to 2019

AGE OF GREAT CHANGE

This period, marked the age of great change in order to align with the economic shift in the GCC and the world in general.

Company wide right sizing initiatives were taken especially in KSA to align with the kingdom's ambitious vision 2030 and during this period the upgraded SFSP state of the art facilities were launched in JIC 3 KSA.



2020 & Beyond

NEW FRONTIER

This period marks the expansion of Unitech into the South and Central Asian territories. We aim to cater these markets and play an active role in these countries development.

During 2020, Unitech Pakistan was officially inaugurated and marked the entrance of Unitech into Asian Market.

Our Manufacturing Arm

SFSP

SFSP is a leading manufacturer and fabricator of light steel construction products in the region, servicing the construction sector through its state of the art facilities which are spread all over the MENA region. Products of SFSP are manufactured from quality raw material according to the relevant international standards to meet all kinds of construction projects requirements, such as MEP, façade, blockwork & waste management systems.

Commitment to Quality

Our commitment to quality is clearly revealed in the way we do our business; our processes, our close interaction with our clients as well as the strict product inspection procedures. To achieve this, we have implemented quality systems & processes that are continually being improved to satisfy our customer's needs.

Product Development

Product development process is substantial to the success of our business. We leverage all resources to provide up-to-date reliable products, environmentally friendly, durable to withstand the toughest weather conditions. Our engineers are constantly testing the products, seeking to present a combination of performance and quality across all our product ranges.

For more information, please visit:
www.sfsp-ikk.com

Value Chain

Our value chain starts up with the quality of the raw materials and ends up in client satisfaction. Our business practices backed up by all technologically essential business elements are supported by an efficient logistics, warehousing and delivery system that maintains a valuable supply chain for products.

The value chain is integrated in our business module, giving us strength and preserving our good reputation gained through the past 4 decades.

Engineering Specialty

Our products development engineers integrate their vast knowledge to provide the perfect solution to projects within the required specifications and time-frame.

The products development department maintains highly skilled calibers with a dedication towards efficient and reliable solutions even in the most complicated cases where delicacy and skillful approaches are indispensable.

Design and Product Safety

Our design and engineering office in Stuttgart ensures our products comply with relevant European and international standards of fabrication, taking into attention the safety factors which govern the public safety of projects.

Sustainability and Responsibility

We are constantly working hard to reduce our environmental footprints while maintaining the high quality and safety standards. We have set our targets to become three times more efficient in the next 10 years. Our responsibility towards our stakeholders is valued through our positive contributions towards our colleagues, our business partners and our communities as well.

Our Design Office



UNITECH DEUTSCHLAND is a "Design & Engineering" Office. Unitech Germany support Unitech & SFSP operations through well-informed cadre of engineers. They help our customers from conception to the completion by delivering design, engineering and project management services.

Thanks to our multidisciplinary team in Unitech Germany and their expertise, we assist you in your ambition to develop your innovation, your engineering and your organization. Our goal is to serve our clients through these elements:

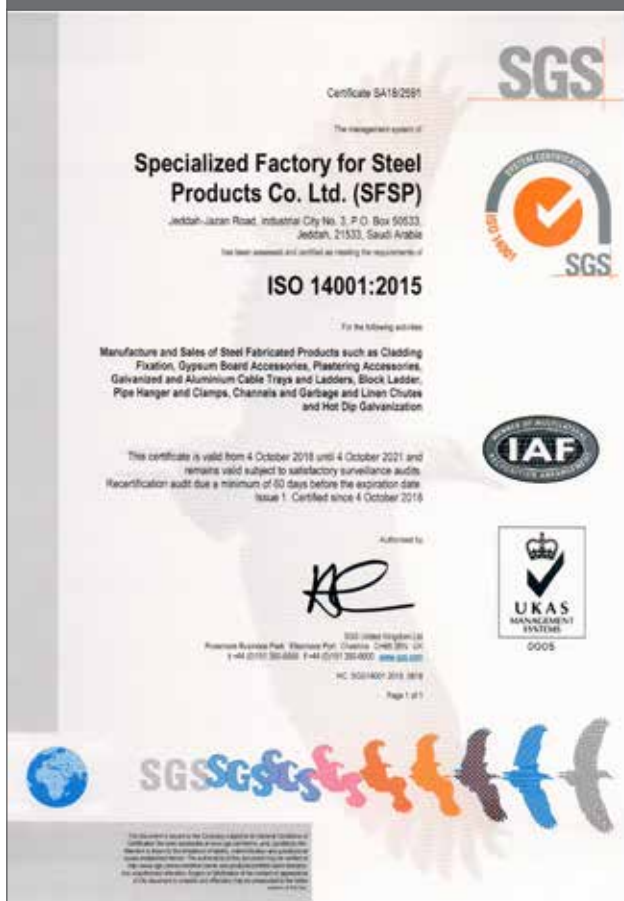
- Excellent in engineering ideas and solutions
- High quality in performance
- Firmness on meeting deadlines

SFSP Certifications

ISO 45001 : 2018 (Occupational Health & Safety)



14001 : 2015 (Environmental Management System)



ISO 9001 : 2015 (Quality Management Systems)



STD 096 (Q-Mark Certificate)



ISO 14001 : 2015
(Environmental Management System)



CERTIFICATE OF REGISTRATION

This is to certify that

Sigma Factory for Steel Products
P.O. Box 37991
Saih 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

Karen Prendergast
Karen Prendergast
Sector Director - Certification

Certificate number: 2524

ISO 9001 : 2015
(Quality Management System)



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Saih 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

Karen Prendergast
Karen Prendergast
Sector Director - Certification
Exova BM TRADA

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

Exova (UK) Ltd, 17/18 Exova BM TRADA, Chiltern Road, Stocking Lane, High Wycombe, Buckinghamshire, HP14 4ND, UK
Registered Office: Exova (UK) Ltd, Lochend Industrial Estate, Handridge, Wetherham EN8 8PL, United Kingdom. Reg No. SC070429.
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 on demand if requested. Further clarification regarding the scope of this certificate and verification of the certificate is
available through Exova BM TRADA or at the same address or via certification@exova.co.uk
The use of the UKAS accreditation mark indicates accreditation in respect of those activities covered by the accreditation certification 012

OHSAS 18001 : 2018
(Health & Safety Management System)



CERTIFICATE OF REGISTRATION

This is to certify that

Sigma Factory for Steel Products
P.O. Box 37991
Saih Suhaib - 3, 4 Round About
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 related Construction
Materials

Karen Prendergast
Karen Prendergast
Sector Director - Certification

Certificate number: 1006

**BS EN 61537:2007 (KEMA - KEUR Certified For Cable
Management Products)**

CERTIFICATE

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

Manufacturer/Licensee:
Sigma Factory for Steel Products (SFSP)
Saih Shualb 3, 4R/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 IEC 61537:2006 and EN 61537:2007
- 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 certification mark.

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

This certificate is issued on: 20 January, 2014 and expires upon withdrawal of one of the above mentioned
standards.

Certificate number: 2156954.01

DEKRA Certification B.V.

G.J. Zoetbrood
drs. G.J. Zoetbrood
Managing Director

H.R.M. Barends
H.R.M. Barends
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 5185, 6802 ED Arnhem The Netherlands
T +31 88 96 83000 F +31 88 96 83100 www.dekra-certification.com Registered Arnhem 09085396

SFSP Certifications

UL Certification*
(Cable Trays)

CERTIFICATE OF COMPLIANCE

Certificate Number	20160816-E483358
Report Reference	E483358-20160816
Issue Date	2016-AUGUST-16

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

CABLE TRAYS
Steel Channel Cable Tray, Ventilated, Heavy Duty (HCT),
Very Heavy Duty (VCT) cable trays.

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

Standard(s) for Safety: ANSI/NFPA 70, "National Electrical Code" (NEC)
Additional Information: See the ULC Online Certification Directory at www.ulc.ca
for additional information

Only those products bearing the ULC Listing Mark should be considered as being covered by ULC's Listing and Follow-Up Service.

The ULC Listing Mark generally includes the following elements: the symbol ULC in a circle, with the word "LISTED"; a control number (may be alphanumeric) assigned by ULC; and the product category name (product identifier) as indicated in the appropriate ULC Directory.

To confirm the status, validate the above information via the online directory.

Look for the ULC Listing Mark on the product.

John H. King
John H. King, General Manager, Director of Sales - Finance
International, American Express Co. (AmEx-Int)

Any information and documentation including this sheet remains the property of AIAA. For questions, please contact a local AIAA Customer Service Rep.

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UL Certification*
(Chute Type Fire Doors)

CERTIFICATE OF COMPLIANCE

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

Issued to: Sigma Factory for Steel Products
Saih 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.

UL Certification*
(Fire Barrier)

CERTIFICATE OF COMPLIANCE

Certificate Number R40146
Report Reference R40146-20220524
Date 2022-May-25

Issued to: Sigma Factory for Steel Products
Saii Shuaib 3, 4 R/A Dubai Industrial City
Opposite DEWA Substation
Dubai AE

**This is to certify that
representative samples of**

MECHANICAL JOINT ASSEMBLIES

The products covered by this Section are mechanical joint assemblies designated Nexus Fire Barrier (NFB) for use in various joint systems described in the Fire Resistance Directory.

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

Standard(s) for Safety: UL 2079, Tests for Fire Resistance of Building Joint Systems

Additional Information: See the UL Online Certifications Directory at <https://iq.ulprospector.com> for additional information

This Certificate of Compliance does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

B. Mahoney
Bruce Mahoney, Director North American Certification Program

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/photo/locations>.

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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.



MEP Solutions

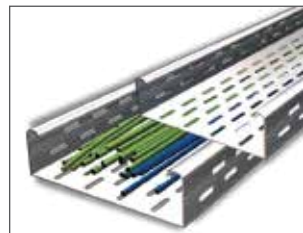
Cable Management Systems

Cable Management Systems are economical and designed to meet most requirements of cable and electrical wire installations and comply to international standards of fabrication and finishing.



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.



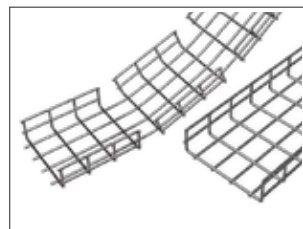
Cable Ladders (Welded & Swaged)

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.



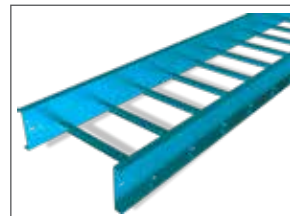
Underfloor Trunking

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.



Fiberglass Reinforced Plastic (FRP) Cable Tray / Ladder

SFSP Fiberglass Reinforced Plastic (FRP) Cable Management Systems are designed, manufactured, and tested to be installed in most harsh environmental conditions of onshore and offshore facilities for several industries including Oil and Gas, Petrochemicals, Manufacturing, Mining and others.



Cable Management Support Systems

Cable Support Systems are well designed to provide necessary support for cable trays, cable ladders and trunkings. Cable supports are manufactured according to common standards from high quality raw materials.



C-Channel Strut Systems

SFSP's Metal Framing Systems provide an economical solution for electrical, mechanical and industrial supports with a wide variety of applications in the construction industry.

Applications: - Pipe and Conduit Supports - Tunnel Pipe Stanchions - Racks and Shelvings - Wall Framings.



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.



Galvanized Threaded Rods and Accessories

Threaded rod, often referred to as a stud, is a rod of varying length that is threaded in a helical structure. Similar in appearance to a screw, the threading extends around and along the rod to cause rotational movements when in use.





Architectural & Finishing Solutions

Mechanical Cladding Fixation (Stangle)

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.



Aluminium System for Stone Cladding

SFSP aluminum systems are designed and calculated to provide a practical & safe solutions of stone cladding. Wide range of aluminum profiles with different shapes to support different types of stone cladding.



Waste Management Sys. (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.



Dry Wall & Ceiling Profiles

Gypsum Boards are considered among the most economic and ideal way for wall partitioning. Easy to install, saves time and money, gypsum boards can be used as a backing for wall treatments such as wall paper, fabric, tile and wood paneling or it can simply be painted.



Metal Ceiling Grid Systems

SFSP Ceiling Grid System is a practical, convenient ceiling system. It has a complete range of main c-channel sections and complementary parts so that you can adapt the modules to suit your design needs and load requirements.



Expansion Joint System by Nexus

Our variety of expansion joints includes profiles for walls and floors, profiles for seismic movements, watertight profiles. Our products suit pedestrian as well as heavy load traffic areas.



Entrance Matting System by Nexus

Nexus Entrance matting systems provides heavy duty entrance mats, composed of aluminium profiles with carpet, brushes or rubber inserts. For any design of any shape, being round, square, oval, or any other symmetrical or asymmetrical shape, Nexus offers a variety of entrance matting profiles



Profiles by Nexus

Nexus offer comprehensive solutions for the construction industry ranging from Expansion Joint Covers and Fire Barriers to Entrance Matting Systems, Wall and Floor Profiles, Tactile Solutions, etc... NEXUS range of products is manufactured according to most common international standards to meet the requirements of commercial, residential, governmental, transportation, healthcare and educational projects.



Phenolic Compartment by CUBIX

CUBIX phenolic compartment and partition systems are manufactured and customized to meet the precise needs of simple to complicated projects with its top-notch finish, quality of material and within a timely delivery. A complete solution with a wide selection of colors and textures are available.



Raised Access Flooring by PIXEL

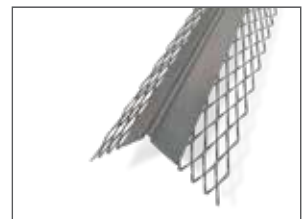
PIXEL Raised Access Flooring offers comprehensive solutions of High Tech Raised Access Flooring Systems for the construction industry. PIXEL Raised Access Flooring are manufactured according to most common international standards to meet the requirements of commercial, residential, governmental, transportation, healthcare, and educational projects.



Civil Solutions

Expanded Metals, Plasterers' Beads

Expanded Metals help the formation of joints, protection of corners and resistance against cracks, chips and impact damage. SFSP manufactures in accordance with BS EN 13658 - 2, ASTM C847-18, BS EN 845-3:2003+A1:2008, ASTM A 951/A 951M - 2016 standards.



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. SFSP manufactures Steel Lintel in accordance with BS EN 845-2:2013+A1:2016 and according to relevant standards BS 5977 Part 2:1983.



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.

شركة عصام قباني وشركاه لمواد البناء والتعمير المحدودة

BAHRAIN

Isam Kabbani Trading Est.

مؤسسة عصام قباني التجارية

UAE

Issam Kabbani Trading Company LL

يونيتك عصام قباني للتجارة

EGYPT

Unitech Egypt for Building Materials

شركة يونيتك مصر لمواد البناء

OMAN

Isam Kabbani & Partners Trading Co.

شركة عصام قباني وشركاه للتجارة

QATAR

Unitech Qatar for Building & Construction Materials Ltd., W.L.L

شركة يونيتك قطر لمواد البناء والتعمير المحدودة

KUWAIT

Hassan Kabbani for General Contracting Est.

مؤسسة حسان قباني للمقاولات العامة للمباني

LEBANON

Unitech ME s.a.r.l

شركة يونيتك ميدل إيست ش.م.م

PAKISTAN

Unitech IKK Pakistan (PVT.) LTD.

شركة يونيتك ميدل إيست ش.م.م

SFSP CUSTOMER SERVICE CALL CENTER

KSA

+966 13 8590097, Ext. 3214

UAE

+971 4 8181925, Ext. 4269



MEP Solutions



Cable Management System with Accessories

- Cable Trays & Accessories
- Cable Ladders (Welded & Swaged)
- Basket Trays & Accessories
- Cable Trunkings
- Underfloor Trunkings
- Fiberglass Reinforced Plastic (FRP) Cable Tray / Ladder
- Cable Management Support Systems

C-Channels Strut Systems with Accessories

Pipe Clamps and Hangers with Accessories

Galvanized Threaded Rods and Accessories

Cable Management Systems

Cable Management Systems are economical and designed to meet most requirements of cable and electrical wire installations and comply to international standards of fabrication and finishing. The Cable Management System types, fittings and accessories from our factory (SFSP) are manufactured in compliance with:

IEC 61537:2006

BS EN 61537:2007 International Electrotechnical Commission
(Cable Management, Cable Tray Systems and Cable Ladder Systems)

SASO IEC (61537:2006) Saudi Standard
(Cable Management, Cable Tray Systems and Cable Ladder Systems)

NEMA VE 1 - 2017 National Electrical Manufacturers Association
(Metal Cable Tray Systems)

NEMA VE 2 - 2013 National Electrical Manufacturers Association
(Metal Cable Tray Installation Guide Lines)

NEC (ANSI / NFPA 70) National Electric Code
(Metal Cable Tray Guide Lines)



Cable Trays & Accessories

SFSP cable trays and accessories from SFSP are manufactured in compliance with BS EN 61537:2007/BS EN 10130/BS EN 10131/ BS EN 10051 and NEMA standards. And, as per cabling standards CENELEC EN 50173-1; EIA/ITA 568 A; ISO/IEC 11801-1:2017.

We manufacture 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 trays.

MATERIALS

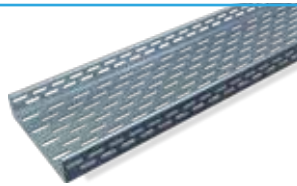
Pre-Galvanized, Hot-Dip Galvanized, and Stainless Steel

MATERIAL THICKNESS

1.00 mm | 1.20 mm | 1.50 mm | 2.00 mm
* Other Thickness Available Under Request

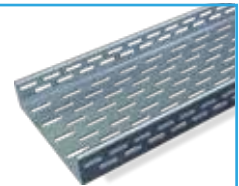
Light Duty - LCT - 100

Thickness : 1.00 mm
Side Height : 50 mm
Length : 2440 mm / 3000 mm
Width : 50 - 1000 mm



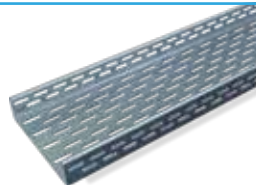
Medium Duty - MCT - 120

Thickness : 1.20 mm
Side Height : 50 ,75 and 100 mm
Length : 2440 mm / 3000 mm
Width : 50 - 1000 mm



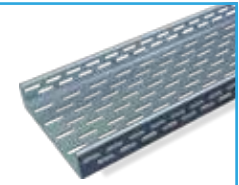
Heavy Duty - HCT - 150

Thickness : 1.50 mm
Side Height : 50 ,75 and 100 mm
Length : 2440 mm / 3000 mm
Width : 50 - 1000 mm



Very Heavy Duty - VCT - 200

Thickness : 2.00 mm
Side Height : 50 ,75 and 100 mm
Length : 2440 mm / 3000 mm
Width : 50 - 1000 mm



TYPES OF SIDE HEIGHTS

STR

Straight

RFI

Return Flange
Inside

RFO

Return Flange
Outside

CTI

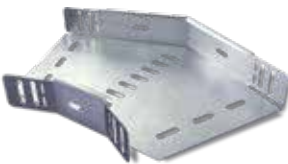
C-Type Inside

CTO

C-Type Outside

FITTINGS

BEND 45°



BEND 90°



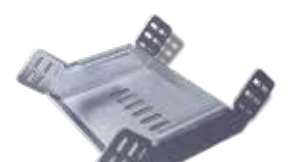
INTERSECTION



OUTSIDE RISER BEND 45°



INSIDE RISER BEND 45°



OUTSIDE RISER BEND 90°



INSIDE RISER BEND 90°



REDUCER



TEE BRANCH



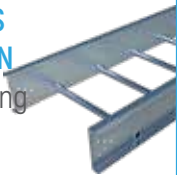
Cable Ladders (Welded & Swaged)

Cable Ladder Trays, are designed to meet most requirements of cable and electrical wire installations and comply to local and international standards of fabrication and finishing. Cable Ladder Trays consist of two longitudinal side rails connected by rungs. SFSP designs are very popular due to their versatility and low costs. They also provide: maximum ventilation for conductor cooling, smooth edges on side rails and rungs to protect cables and slots for easy cable fastening when required. Various rung spacings are available to provide support for most cables, from small flexible cables to the most rigid interlocked armor power cable

LADDER TYPE RUNS ALUMINUM SECTION

Swaged Tubular Rung

ALUMINUM 6063 T6

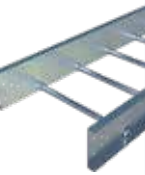


Thickness : 2.00 and 2.5 mm
Height : 110, 136, 162 AND 188 mm
Load Depth : 80, 106, 132 and 158 mm
Width: 150, 225, 300, 450, 600, 750, 900 mm

STEEL LADDER TYPE RUNS STEEL SECTION

Swaged Tubular Rung

STEEL S235 JRG2



Thickness : 2.00 and 2.5 mm
Height : 105, 130, 155 mm
Load Depth : 75, 100, 125 mm
Width: 150, 225, 300, 450, 600, 750, 900 mm

WELDED C-CHANNEL LADDER TYPE RUNS SECTION

Welded C-Channel

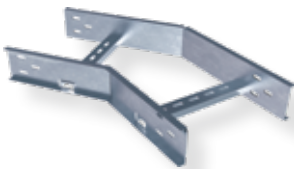
STEEL S235 JRG2



Thickness : 2.00 and 2.5 mm
Height : 105, 130, 155 mm
Load Depth : 75, 100, 125 mm
Width: 150, 225, 300, 450, 600, 750, 900 mm

FITTINGS

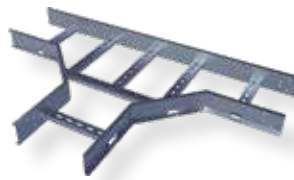
BEND 45° CORNERED



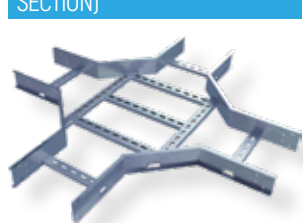
BEND 90° CORNERED



TEE BRANCH



HORIZONTAL CROSS (INTER-SECTION)



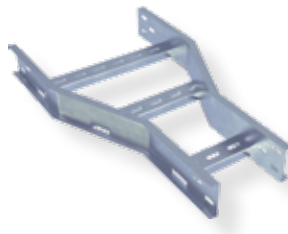
INSIDE VERTICAL ELBOW (INSIDE RISER)



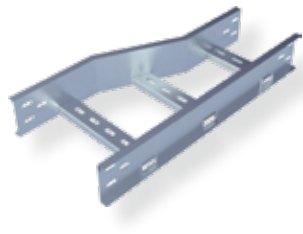
OUTSIDE VERTICAL ELBOW (OUTSIDE RISER)



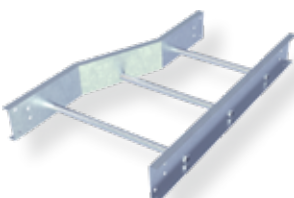
STRAIGHT CENTRAL REDUCERS



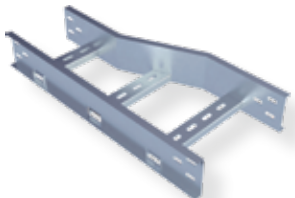
RIGHT HAND REDUCERS



RIGHT HAND REDUCERS



LEFT HAND REDUCERS



Basket Trays Systems

SFSP's Basket Tray Systems enable fast and simple connections with limited need for tools. SFSP's design allows continuous airflow, and prevents the buildup of dust, contaminants and bacterial proliferation. Strong, flexible and adaptable, SFSP's Basket Trays come in a full range of sizes and is made with high-strength welded steel wires. Support accessories for any application or situation are available. Basket Tray is produced by first welding a net, forming the channel and then finishing after fabrication.

System Overview

BASKET TRAYS

Side Height: 55 mm, 80 mm, 105 mm and 150 mm

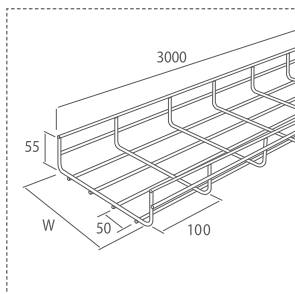
Widths: From 50 to 800 mm

Materials: Stainless steel, hot-dip galvanized to DIN EN ISO 1461

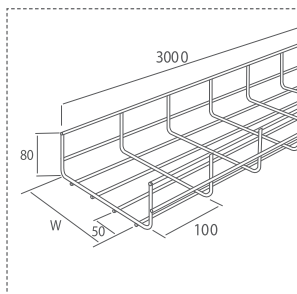
Wire Ø: 4mm

Basket Trays and accessories are also available in other dimensions and additional plastic coating upon request.

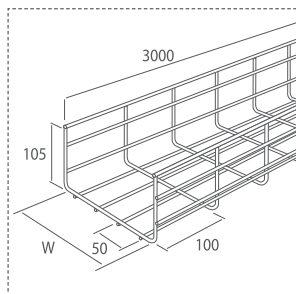
BT 55 | Height 55 mm



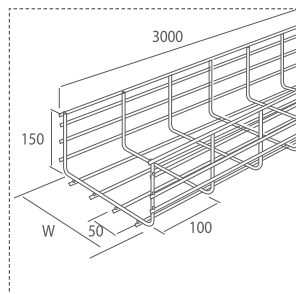
BT 80 | Height 80 mm



BT 105 | Height 105 mm

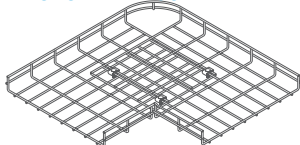


BT 150 | Height 150 mm

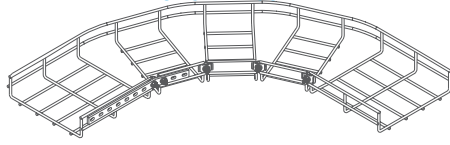


90° HORIZONTAL BENDS

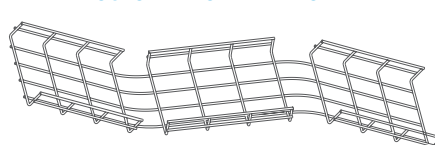
SHORT RADIUS



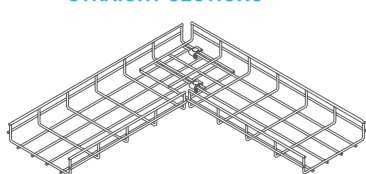
LONG RADIUS



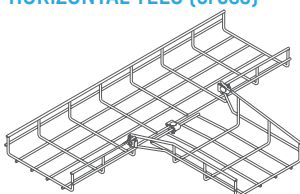
OUTSIDE INSIDE BENDS



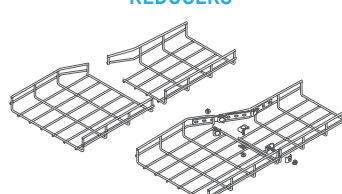
STRAIGHT SECTIONS



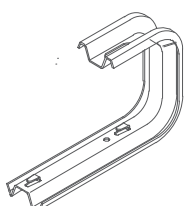
HORIZONTAL TEES (cross)



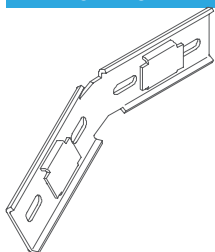
REDUCERS



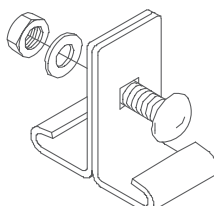
BRACKETS



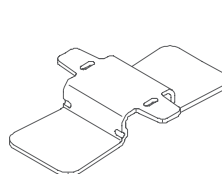
MOUNTING BRACKETS



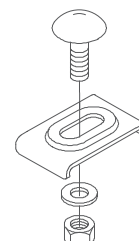
CENTRAL HANGER



CONNECTORS



CLAMPS



Cable Trunkings

Cable Trunkings are designed to meet most requirements of cable and electrical wire installations and comply to local and international standards of fabrication and finishing.

Cable Trunkings and Accessories are offered in a comprehensive range, also available within various thicknesses from 0.9 mm to 2 mm according to the specific projects' specifications and as per customers' request.

- BS EN 50085-1 -2005

Cable trunking systems and cable ducting systems for electrical installations
(General requirements)

- BS EN 50085-2 -2006

Cable trunking systems and cable ducting systems for electrical installations
(Particular requirements)

- SASO IEC [61084/2008]

Saudi Standard
(Cable trunking systems and cable ducting systems for electrical installations)

- NEC (ANSI / NFPA 70)

National Electric Code
(Metal cable tray guidelines)

- CSI Code 26 05 33

Raceway and Boxes for Electrical Systems

* BS 4678-1 is replaced by BS EN 50085-1 :2005 and BS EN 50085-2 :2006

TECHNICAL INFORMATION

Thicknesses:

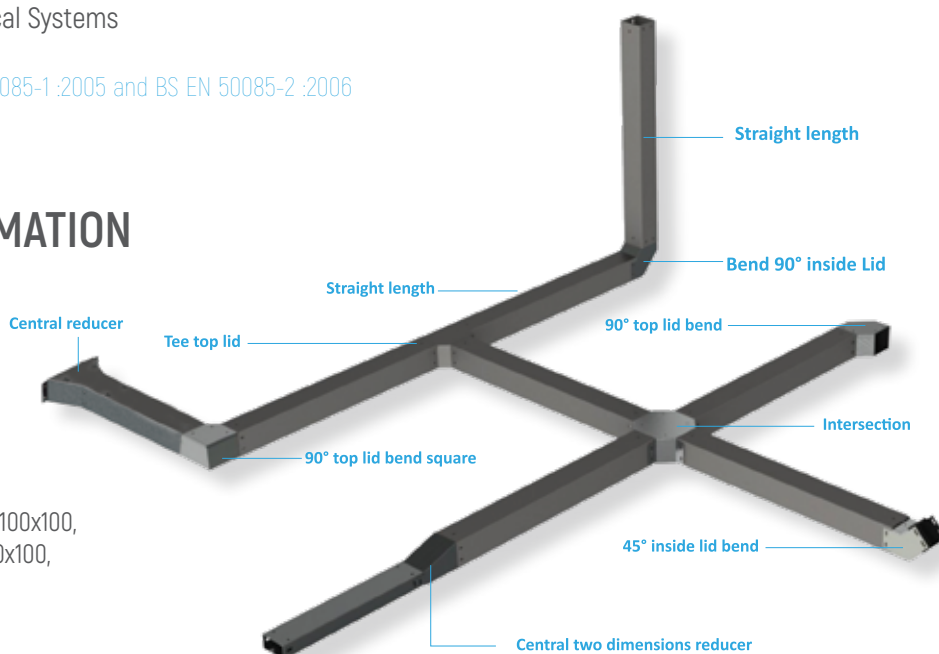
1 mm - 1.2 mm - 1.5 mm

Available trunkings' lengths are:

2440 mm / 3000 mm

Dimensions:

50x50, 75x50, 75x75, 100x50, 100x75, 100x100,
150x50, 150x75, 150x100, 150x150, 200x100,
300x100, 450x100, 600x100 mm



SINGLE COMPARTMENT



DOUBLE COMPARTMENT



TRIPLE COMPARTMENT



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. 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.

1- 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 Trunking and Accessories

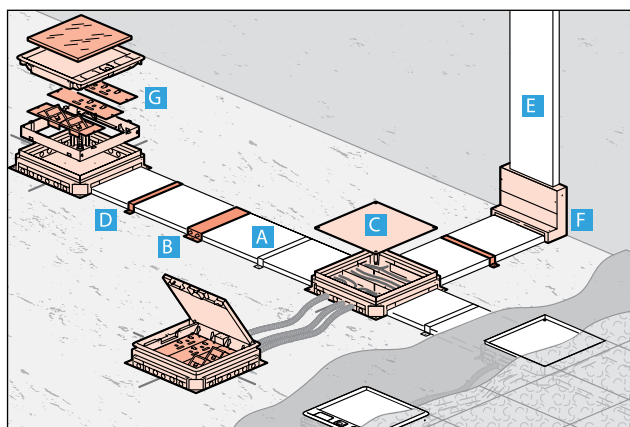
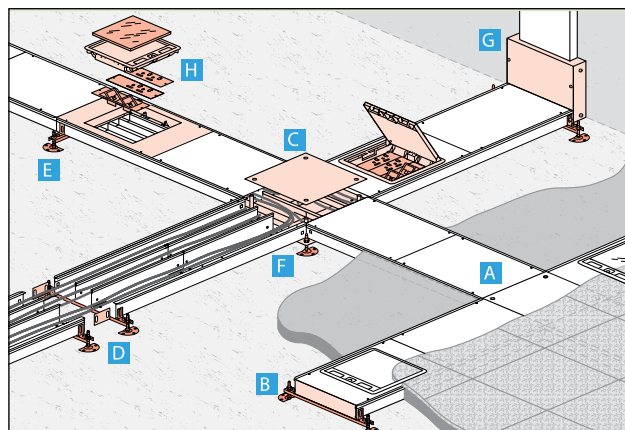
Material: pre-galvanised steel sheet

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



2- SCREED FLOOR TRUNKING SYSTEM

Screed 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 System

Material: pre-galvanised steel sheet

Standard length: 2440 / 3000 mm

Number of Compartments: 3 and 4 compartments

Standard Height: 25 mm and 38 mm

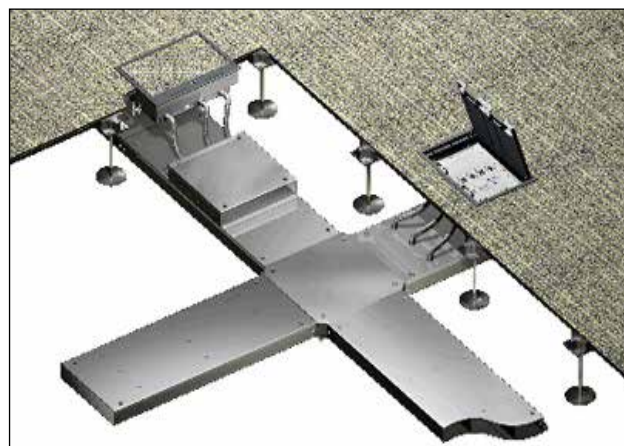
Standard Thickness: 1.2 mm for body/1 mm for dividers

3- RAISED ACCESS FLOOR SYSTEM

Different solutions for all your projects integrating raised access floor allow you to make well Organized 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. This trunking system is compatible with any traditional raised access floor and has been especially designed to ensure fast installation, reliability, robustness and flexibility.

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.



Fiberglass Reinforced Plastic (FRP) Cable Tray / Ladder

SFSP Fiberglass Reinforced Plastic (FRP) Cable Management Systems are designed, manufactured, and tested to be installed in most harsh environmental conditions of onshore and offshore facilities for several industries including Oil and Gas, Petrochemicals, Manufacturing, Mining and others.

Our systems are designed to fulfill the following standards' requirements:

- A. NEMA FG 1-2002 Non-Metallic Cable Tray Systems
- B. NEMA VE 2-2002 Cable Tray Installation Guidelines
- C. ANSI/NFPA 70 National Electrical Code

These products are manufactured in conformance with NEMA FG1-. The Cable Management items are available in 3 colors: Grey, Blue & Yellow.

Production Time & Delivery Period for these products are listed below:

ORIGIN	QUANTITIES	PRODUCTION TIME	LOGISTICS PERIOD
MALAYSIA	1000 MTR.	4 WEEKS	6 WEEKS
MALAYSIA	1000 - 2000 MTR.	6 WEEKS	6 WEEKS
MALAYSIA	2000 - 5000 MTR.	8 WEEKS	6 WEEKS
INDIA	1000 MTR.	2 WEEKS	4 WEEKS
INDIA	1000 - 2000 MTR.	3 WEEKS	4 WEEKS
INDIA	2000 - 5000 MTR.	4 WEEKS	4 WEEKS

Cable Management Support Systems

Cable Management Support Systems are well designed to provide necessary support for cable trays, cable ladders and trunkings. Cable supports are manufactured according to common standards from high quality raw materials

Cantilever Arm Bracket (Sizes)

41x21x2.5 mm / 41x21x2.5 mm B2B / 41x41x2.5 mm B2B
50x20x2.5 mm / 50x25x2.5 mm / 50x20x2.5 mm B2B / 50x25x2.5 mm B2B

- U - Support with Welded-On head plate
- I - Support with Welded-On head plate
- U - Support Wall Bracket
- I - Support Wall Bracket



C-Channels Strut Systems with Accessories

Metal Framing / Electrical Applications

- Pipe & conduit supports
- Tunnel pipe stanchions
- Beam attachments
- Pipe risers

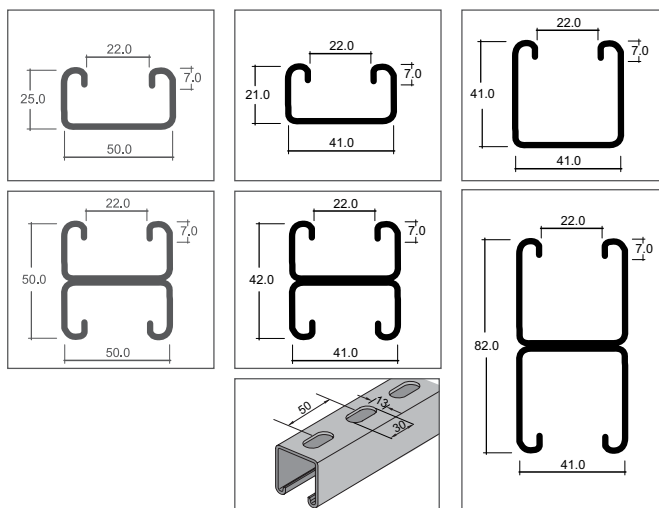
Metal Framing / Industrial Applications

- Racks and shelvings
- Production line supports
- Trolley systems
- Wall framings

Metal Framing Channels

Selection Chart

Part No	Channel Dimensions		Thickness
	Height "H"	Width "W"	
CCH - 220/221	21.0 mm	41.0 mm	1.5 mm
CCH - 240/241	41.0 mm	41.0 mm	1.5 mm
CCH - 260/261	25.0 mm	50.0 mm	1.5 mm
CCH - 320/321	21.0 mm	41.0 mm	2.0 mm
CCH - 340/341	41.0 mm	41.0 mm	2.0 mm
CCH - 360/361	25.0 mm	50.0 mm	2.0 mm
CCH - 420/421	21.0 mm	41.0 mm	2.5 mm
CCH - 440/441	41.0 mm	41.0 mm	2.5 mm
CCH - 460/461	25.0 mm	50.0 mm	2.5 mm



CCH 320 **3** **2** **0** **T**

- Material Thickness**
 - 2 for 1.5 mm
 - 3 for 2.0 mm
 - 4 for 2.5 mm
- Size**
 - 2 - 21/41 mm
 - 4 - 41/41 mm
 - 6 - 25/50 mm
- Channel Patterns**
 - 0 - PT
 - 1 - ST
 - 2 - B2B
- Toothed channel**

CHANNEL HOLE PATTERNS



TOOTHED CHANNEL



CANTILEVER ARM BRACKETS - SCA



CANTILEVER ARM BRACKET B2B - SCA



Pipet 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. Calculations are provided by our design office in Stuttgart, Germany.

Applicable Standards

BS 3974

Specifications for pipe hangers and support

ASTM F 708

[standard practice for design and installation of rigid pipe hangers]

Federal Specifications

WW-H-171 E (Hanger and Support)

A-A-1192 A (Bracket, Pipe)

ANSI/MSS SP-58

Pipe Hangers and Supports - Materials, Design, Manufacture, Selection, Application and Installation

MSS SP-69

Pipe Hangers and Support-Selection and Application

MSS SP-77

Guidelines for Pipe Support Contractual Relationships

MSS SP-89

Pipe Hangers and Support-Fabrication and Installation Practices

MSS SP-90

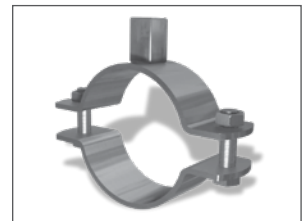
Guidelines for Terminology for Pipe Hangers and Support

MSS SP-127

Bracing for Piping Systems Seismic - Wind - Dynamic Design, Selection, Application

Split Pipe Clamp with Long Nut M8/ M10 without rubber gasket

- Material: Steel S235
- Service: Multifunction screw with hexagonal combination head (slot & crosshead), c/ w retaining washer
- Finish: Electro Zinc Plated Split Pipe Clamp with Long Nut M8/ M10 without rubber gasket



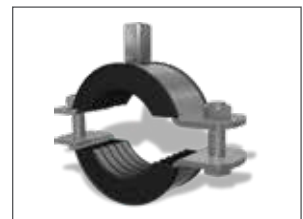
Split Pipe Clamp with Standard Nut M8 without rubber gasket

- Material: Steel S235
- Service: Economy option
- Finish: Electro Zinc Plated



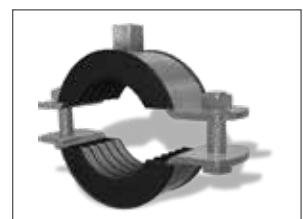
Split Pipe Clamp with Rubber with Long Nut M8/ M10

- Material: Steel S235
- Service: EPDM rubber insulation for sound reduction compliant with DIN 4109
- Finish: Electro Zinc Plated



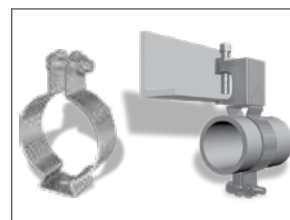
Split Pipe Clamp with Rubber with Standard Nut M8

- Material: Steel S235
- Service: EPDM rubber insulation for sound reduction compliant with DIN 4109
- Finish: Electro Zinc Plated



Omega Conduit & Pipe Clamp

- Material: Steel S235
- Service: Designed for hanging conduit (rigid or EMT) to beam clamps, available with or without closure bolt
- Finish: Electro Zinc Plated



Channel Clamp

- Material: Steel S235
- Service: For mounting (rigid or EMT) and steel pipes on C-Channels
- Finish: Electro Zinc Plated or Hot-dip Galvanized



Pipe Strap

Two-Hole Pipe Strap/ U-Clip

- Material: Steel S235
- Service: Designed for supporting pipe runs on walls and on C-Channels
- Finish: Electro Zinc Plated



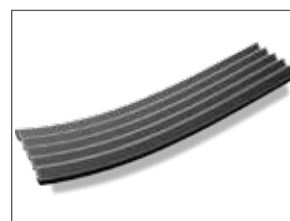
One-Hole Pipe Strap <Snap Type>

- Material: Steel S235
- Service: Designed for supporting standard conduits, cable and steel pipes on walls or sides of beams or on C-Channels
- Finish: Electro Zinc Plated



Noise Suppression Profile

- Material: EPDM. Rubber
- Load Data: At normal frequency and pressure range, noise suppression 20 dB(A) & the temperature-resistant from -40 °C to + 100 °C
- Electrical values: Specific resistance: $2 \times 10^9 \text{ M ohm cm}^2$ & the Surface resistance: $2 \times 10^9 \text{ M ohm}$



Clevis Hanger

- Material: Steel S235
- Finish: Electro Zinc Plated or Hot-dip Galvanized



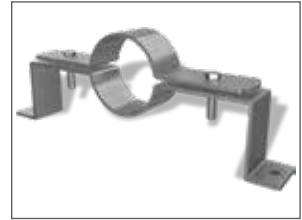
Adjustable Band Hanger

- Material: Steel S235
- Finish: Electro Zinc Plated or Hot-dip Galvanized



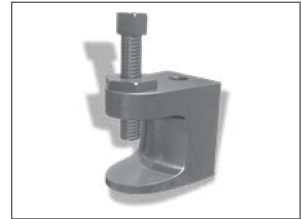
Offset Pipe Clamp

- Material: Steel S235
 - Service: Designed for supporting and stabilizing vertical pipe runs
 - Finish: Electro Zinc Plated or Hot-dip Galvanized
-



C-Clamp

- Material: Malleable Cast Iron Zinc plated Casting tolerance according to DIN 1684 GTA/17 with hexagon head screw DIN 933 8.8, threaded end with cup point according to EN ISO 4753 and locknut DIN 439 for sprinkler systems, heating, ventilation and air conditioning, acoustic tubes and sanitary installation machines and steel constructions.
-



Steel Beam Clamp Open

- Material: Steel S235
 - Service: Designed for attaching hanger rods to the top or bottom flange of a beam
 - Finish: Hot-dip Galvanized
 - Ordering: Specify flange width and thickness
 - Steel Size: 5X30 mm
-



Steel Beam Clamp Closed

- Material: Steel S235
 - Service: Designed for attaching hanger rods to the top or bottom flange of a beam
 - Finish: Hot-dip Galvanized
 - Ordering: Specify flange width and thickness
 - Steel Size: 5X30 mm, 5X40 mm
-



Window Beam Clamp

- Material: Steel S235
 - Service: Designed for attaching C-Channel to a top or bottom flange of a beam
 - Finish: Electro Zinc Plated
 - Steel Size: 6x90 mm
-



Galvanized Threaded Rods and Accessories

Threaded rod, often referred to as a stud, is a rod of varying length that is threaded in a helical structure. Similar in appearance to a screw, the threading extends around and along the rod to cause rotational movements when in use.

Threaded rods combine linear and rotational movement to create strong resistance to pressure.

Threaded rods have many applications, effectively working as a pin to fasten or connect two materials together. There are several types of threaded rod that we supply and each is suited for different purposes, conditions and materials. They are often used to align structures or are embedded into materials, like concrete, as the threading provides good resistance.

The fully threaded rod that we supply are usually used when effective grip strength is required through the entire length of the rod. Our threaded rods are usually heavy-duty galvanized zinc-plated or stainless steel.

Threaded Rod Length & Load Capacity

SIZE	LENGTH (MM)	LOAD CAP. (KN)
M6	2000 / 3000	2.2
M8	2000 / 3000	4.0
M10	2000 / 3000	6.4
M12	2000 / 3000	12.9
M16	2000 / 3000	17.3
M18	2000	22.0
M20	2000	27.0



Architectural & Finishing Solutions



Mechanical Cladding Fixation (Stangle)

Alumimium Sytem for Stone Cladding

Waste Management System (Garbage & Linen Chutes)

Dry Wall & Ceiling Profiles

Metal Ceiling Grid Systems

Expansion Joint System by Nexus

Entrance Matting System by Nexus

Profiles by Nexus

Phenolic Compartment by CUBIX

Raised Access Flooring by PIXEL

Mechanical Cladding Fixation (Stangle)

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.

Standards

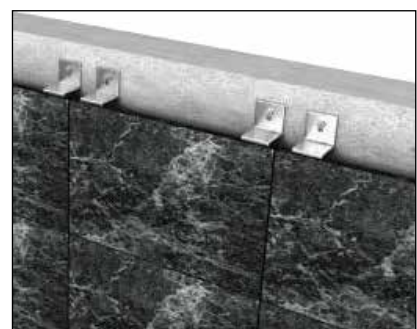
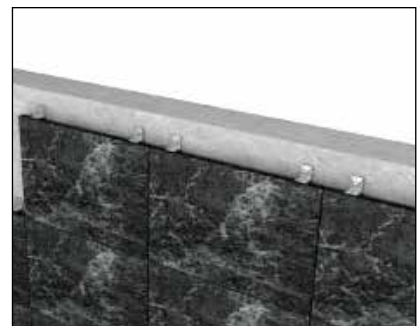
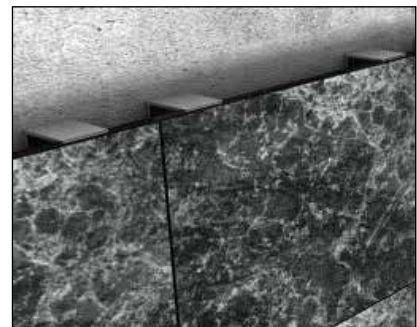
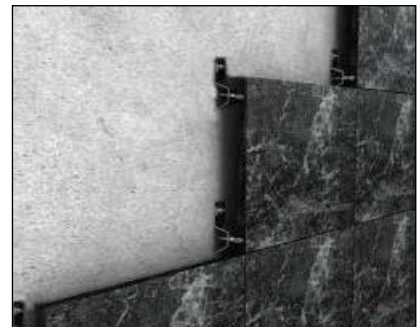
ASTM A276 / A276M
ASTM A666 - 15
BS 8298-1:2010
BS 1449-1.1:1991
BS EN ISO 3506-1:1998
BS 5950-1:2000
BS EN 1991-1-4:2005+A1:2010
BS EN 10277:2018
DIN EN 1992-1-1: 2013
DIN EN 1992-3: 2011
DIN 1053-41: 2018
DIN 18516-3: 2018
DIN EN 1994-1-1: 2010
DIN EN 1993-1-1: 2017-09

Material

SS304
SS316
SS316L
SS316TI
S235JR-MG
S235JR-HDG

Brackets

L - Bracket (Standard & Serrated)
L - Bracket (Standard & Serrated) Up Angle
L - Bracket (Standard & Serrated) Down Angle
L - Bracket (Standard & Serrated) Up and Down Angle
Z - Bracket with Back Leg
Omega Bracket
Fishtail Up & Down
Fishtail with Pin
Load bearing and restraining corrugated stud



TYPES OF FIXINGS

Principles for the Fixing of Building Cladding

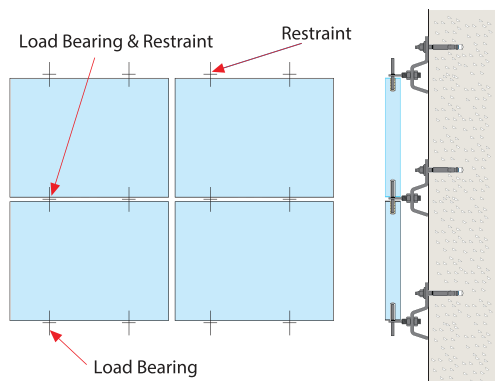
The fixing systems for building cladding are composed of several elements (angles, expansion bolts, screws, nuts, washers, etc), each of which shall present the appropriate mechanical features in respect to the requirements posed by the specific project.

Any type of cladding, once fixed, is subject to two primary types of load:

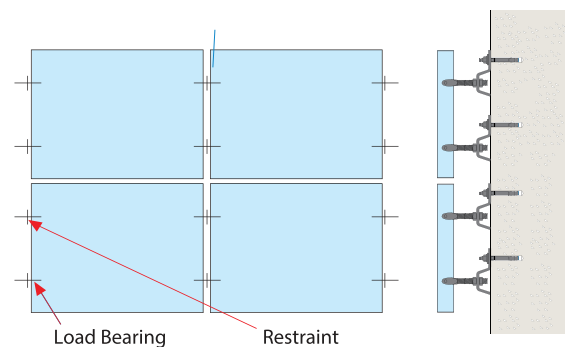
- Permanent load (the dead load), due to the weight of the cladding itself;
- Variable load (applied loads), due to the wind, thermal expansions, seismic motions, etc.

FIXING VARIATIONS

- Fixing in the horizontal joint



- Fixing in the vertical joint



L-Bracket (Standard & Serrated)

Type ST- 500 1100 With Pin

Materials: SS304, SS316, SS316L, SS316TI, S235JR-MG, S235JR-HDG



L-Bracket (Standard & Serrated)

Type ST- 500 1200 Up and Down Angle

Materials: SS304, SS316, SS316L, SS316TI, S235JR-MG, S235JR-HDG



L-Bracket

Type ST- 500 1300 Up Angle

Materials: SS304, SS316, SS316L, SS316TI, S235JR-MG, S235JR-HDG



L-Bracket

Type ST- 500 1400 Down Angle

Materials: SS304, SS316, SS316L, SS316TI, S235JR-MG, S235JR-HDG



Z-Bracket with Back Leg

Type ST- 600 1100

Horizontal Joint

Materials: SS304, SS316, SS316L, SS316TI, S235JR-MG, S235JR-HDG



Omega Bracket

Type ST- 700 1100

Vertical Joint

Materials: SS304, SS316, SS316L, SS316TI, S235JR-MG, S235JR-HDG



Type ST- 800 1100

Fishtail Up & Down

Materials: SS304, SS316, SS316L, SS316TI, S235JR-MG, S235JR-HDG

Fixining in Concrete and solid block



Type ST- 800 1200

Fishtail with Pin

Materials: SS304, SS316, SS316L, SS316TI, S235JR-MG, S235JR-HDG

Fixining in Concrete and solid block



Type ST- 900 1100

Load bearing and restraining corrugated stud.

Material: SS304, SS316, SS316L, SS316TI, S235JR-MG, S235JR-HDG



Aluminium System for Stone Cladding

UNITECH provide a variety of aluminum fixing system of stone cladding installations.

Unitech systems are applicable for:

- Building external & internal cladding
- For Horizontal & vertical cladding
- Variety of type & thickness of stone cladding.

FEATURES:

Unitech aluminum systems are designed and calculated to provide a practical & safe solutions of stone cladding.

Wide range of aluminum profiles with different shapes to support different types of stone cladding.

MATERIAL:

Unitech aluminum systems are produce mainly from aluminum alloy Aluminum 6082-T6 which is the most common used alloy of aluminum.

Fasteners and anchors are produced from stainless steel 304 & 316 grades.

STONE FIXING SYSTEM-01

Undercut Fixing

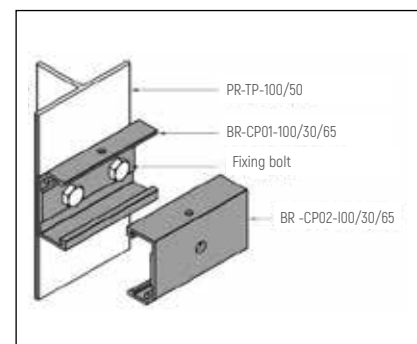
Application

Cladding fixing system for stacked tile pattern.

Materials

Profiles & Brackets - Aluminum 6082-T6

Anchors & fasteners - SS316 & SS304



STONE FIXING SYSTEM-02

Undercut Fixing

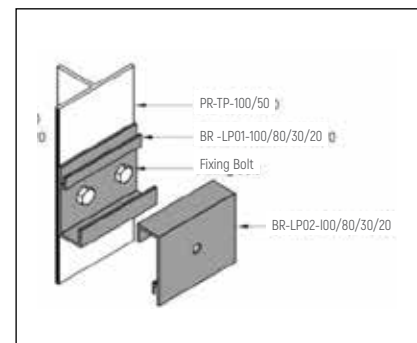
Application

Cladding fixing system for stacked tile pattern.

Materials

Profiles & Brackets - Aluminum 6082-T6

Anchors & fasteners - SS316 & SS304



STONE FIXING SYSTEM-03

Undercut Fixing

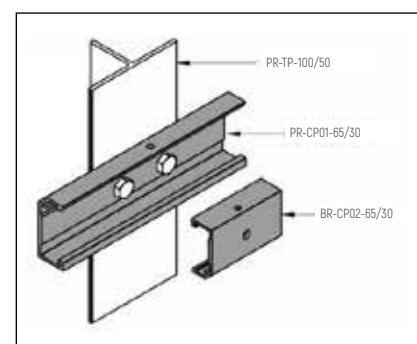
Application

Cladding fixing system for stacked tile pattern.

Materials

Profiles & Brackets - Aluminum 6082-T6

Anchors & fasteners - SS316 & SS304



STONE FIXING SYSTEM-04

Undercut Fixing

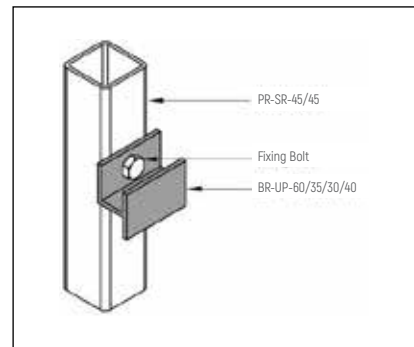
Application

Cladding fixing system for stacked tile pattern.

Materials

Profiles & Brackets - Aluminum 6082-T6

Anchors & fasteners - SS316 & SS304



STONE FIXING SYSTEM-05

Undercut Fixing

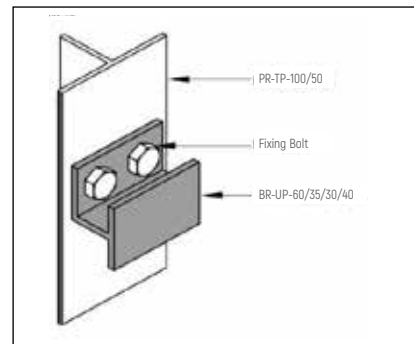
Application

Cladding fixing system for stacked tile pattern.

Materials

Profiles & Brackets - Aluminum 6082-T6

Anchors & fasteners - SS316 & SS304



STONE FIXING SYSTEM-06

Undercut Fixing

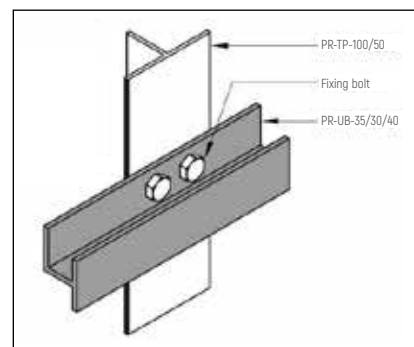
Application

Cladding fixing system for stacked tile pattern.

Materials

Profiles & Brackets - Aluminum 6082-T6

Anchors & fasteners - SS316 & SS304



Waste Management System (Garbage & Linen Chutes)

Chutes are very convenient, simple and low cost method of controlling and disposing of refuse and linen. SFSP 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.

Finishes

- SS 304
- SS 316
- GI Galvanized Steel

SFSP provides the following material gauges

- 1.5mm (16 Gauge)
- 2.0mm (14 Gauge)
- 3.0mm (11 Gauge)

SFSP chutes are available with the following standard internal diameters

- 500mm (20")
- 550mm (22")
- 600mm (24")
- 700mm (28")
- 800mm (32")
- 900mm (36")

The System includes the following

- Chute Tube
- Intake Throat
- Hopper Door
- Clamp Ring & Supporting Frame
- Access Door
- Elbow
- Fire Cut Off Door
- Control Panel
- Disinfecting & Sanitizing Unit
- Solenoid Valve
- Tube with Insect Screen & Exhaust Fan
- Cleaning System & Brushing Device
- Cleaning & Fire Sprinklers
- Garbage Container Sorters
- Compactor



1/ Vent Tube with Insect Screen & Exhaust Fan

Vents are installed at the top of the chutes, usually above roof level this ventilator maintains a smooth flow of fresh air within the refuse chute. The foul air exhaust fan helps prevent the escape of any bad odours or gases released by the garbage material.



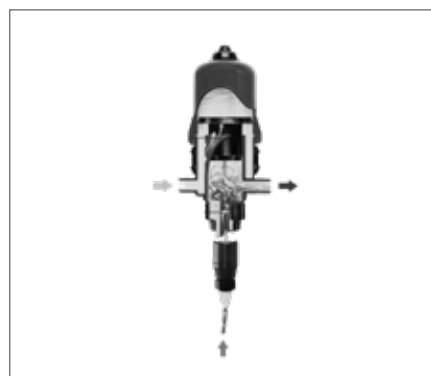
2/ Solenoid Valve

Electrically operated valve controlling the flow of water to the sanitizing unit.



3/ Disinfecting & Sanitizing Unit

It is part of the automatic cleaning system of the chute, the sanitizing unit mixes soap along with the water where by the interior surfaces are sprinkled with water from alternate floors by sprinklers of Capacity. It is recommended for use with every chute installation where proper operation and maintenance of the sanitizing unit reduces the immersion of strong odours and germs.



4/ Access Door

Access door is located below the vent tube on the last floor. It is used for accessing the equipment in case of maintenance or revision of the chute. When opening the access door, the equipment located inside consists of the motor unit, solenoid valve, brush, disinfecting and sanitizing unit, designed to give manual or automatic brushing of the internal surface of chute.



5/ Cleaning System & Brushing Device

Chute cleaning system specifically designed to clean the total vertical length of the internal surface of all chutes, where by it includes brush unit and motor unit.



6/ CONTROL PANEL

Controls the entire automated systems within the chute; operates the cleaning system, controls the function of electromagnetic door locks with the presence of an emergency button which isolates electricity and stop all the running functions.



7/ INTAKE THROAT

For each floor there is an intake throat for the hopper door...



8/ HOPPER DOOR

Hopper doors are provided in the service room on each floor and are designed to eject loose or bagged refuse (discharge garbage) directly into a refuse chute or a container. Hopper doors have an effective self-sealing system.



9/ Clamp Ring & Supporting Frame

Cut, shaped and drilled from 35x35x3 mm or (other sizes are applicable for use) Mild steel angle with a rigid, welded construction. The frame holds a metal clamp band. The frame is rust proof for internal use and hot dip galvanized for external use.



10/ Swaged Joint

Used to join certain section of duct.



11/ Chute Tube & Sound damping

Chute Tube gives an unimpeded dumping of refuse within a chute, the best shape has proved to be circular.



12/ Sprinklers

Automatic Fire Sprinkler Cleaning Sprinklers

Spray head located in all floors behind the door opening for cleaning issues.

Fire Sprinkler: Glass bulb sprinklers installed for fire detection inside the chute in each floor. 1/2" IPS, 68°C (165°F). Glass Sprinklers can be used in conjunction with a normal water supply at a pressure of up to 8 bar.

Smoke Detection System: This system shall be provided by the fire alarm subcontractor.



13/ Fire Cut off Door

Fire Cut Off Door has a horizontal rolling door held by a spring on each side connected to a fusible link. In case of excessive heat (or fire) the link gets fused at 165° F (68°C) causing the door to roll shut. The discharge is 1.5 hours fire rated.



14/ Elbow

Offsets

Factory fabricated from the same material as the refuse chute, but in a heavier gauge to withstand the impact of falling bags. Offsets should not be less than 45° from the horizontal. Offsets are fabricated to all diameters of refuse and linen chutes provided by SFSP.



15/ Garbage Container

TYPE MGB

CAPACITY: 1.1m²

MATERIAL: Hot-dip galvanized steel
(DIN 30700)

TYPE MGD 2.5

CAPACITY: 2.5 m³

MATERIAL: DIN 30738 hot-dip
galvanized steel

TYPE MGD 4.5

CAPACITY: 4.5 m³

MATERIAL: Galvanized steel

TYPE MGC

CAPACITY: 1.53m²

MATERIAL: Powder coated

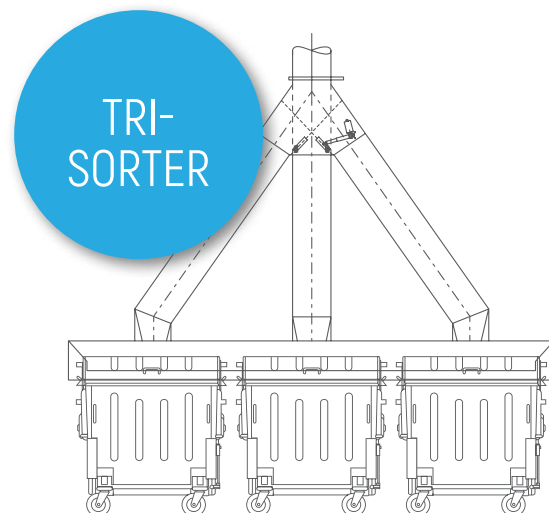
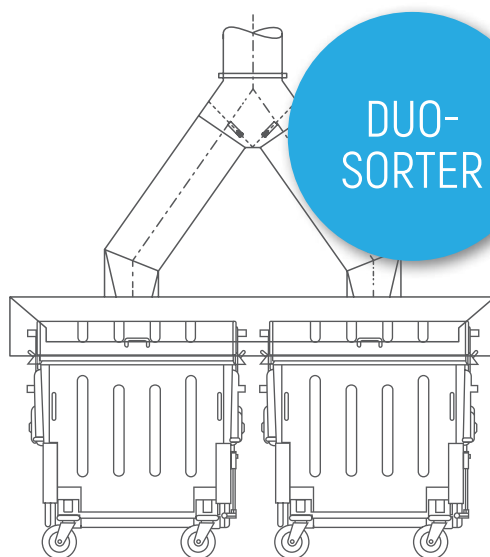


16/ compactors Type H 150

- 1.Operation: Automatic hydraulically operated.
- 2.Operating Pressure: 40, 000 lbs.
- 3.Compaction: Compacts refuse 15-20% of original volume.
- 4.Packaging: Packages refuse directly into heavy gauge plastic sacks or containers.
5. Capacity: 750kg/hr.
- 6.Compaction Chamber: 0.20 m³ with a machine cycle time of 40 seconds giving a theoretical compaction volume of 8 m³/hr.
- 7.Construction Compactor: Strengthened 10mm steel plate.
- 8.Compacting Ram: The compacting ram is made from 6mm plate with the face of the ram increased to 25mm plate to effectively handle the 18 ton pressure.
- 9.Compaction chamber: Shall have hardened steel shearing blades.
- 10.Hydraulic Power Pack: Pre-packed fully connected integrally mounted system to develop over 3000 PSI. Normal operating pressure 1000 PSI [Approximately].
11. Motor: 40 Second cycle. Time 4 kw-1450 RPM.
12. Pump: Pressure balanced, external oval gear type.
13. Electrical control: Housed in a keyed access cabinet.
14. Other Feature: Repeat hammer action and automatic attendant alarm.



Garbage chutes Sorters



Dry Wall & Ceiling Profiles

Gypsum Boards are considered among the most economic and ideal way for wall partitioning. Easy to install, saves time and money, gypsum boards can be used as a backing for wall treatments such as wall paper, fabric, tile and wood paneling or it can simply be painted.

SFSP provides a complete product range for drywall and ceiling constructions. SFSP Studs, Runners, Furring Channels, Ceiling Channels, and wall Angles are among the range of products produced according to relevant standards to service the dry wall installers.

Materials

Made of :

Pre-galvanized steel complying with:

- BS 2989: Zinc grade Z2, zinc coating type G180, G120 and G275.
- ASTM C645 G90 (275 g/sqm) - G60 (180 g/sqm) - G40 (120 g/sqm) - G20 (60 g/sqm)
- ASTM C754 G90 (275 g/sqm) - G60 (180 g/sqm) - G40 (120 g/sqm) - G20 (60 g/sqm)
- DIN EN 10147

References:

ASTM C1047 : Standard specification for Gypsum Wallboard and Gypsum Veneer Base Accessories.

Partition Profiles

STUDS are vertical profiles inserted into the RUNNERS; bearing profiles of the partition; used for fixing of partition covering (Gypsum Boards).

RUNNERS are horizontal profiles to fix the partition to floor and ceiling.

Type of Profiles for Dry Wall

Studs

Runners

Ceiling Channels

Omega Channels

Deflection Track

Shaft Wall Track

Type of Profiles for Ceiling

Main Ceiling Channel

Furring channels

Wall Channels

Studs & Runners

STUDS are vertical profiles inserted into the RUNNERS; bearing profiles of the partition; used for fixing of partition covering (Gypsum Boards).

RUNNERS are horizontal profiles to fix the partition to floor and ceiling.



Main Ceiling Channel

The metal framing members of the ceiling grid are called main ceiling channel. Main ceiling channel is hung from above by suspension hanger. They run between the wall angles and form the support system for the suspended ceiling.



Furring channel

Furring channel: also known as cross furring. They run perpendicular to the main ceiling channel and are connected to it with a wire connection clip. Furring channels are used to support the ceiling panel (Gypsum Board)



Wall angle

This "L" shaped mouldings form the perimeter of ceiling. They ensure a finished edge where the ceiling meets the wall and establish the level of ceiling. Perimeter angles are set on all sides of the ceiling and should overlap on inside corners- Miter the wall angle on outside corners.



Channel Clamp

38 mm channel clamp to hold channel to ceiling by threaded rod



Channel Bracket

38mm channel bracket to hold channel to ceiling by threaded rod.



Double Spring Clip

Double spring adjustable clip ceiling level.



Furring Clip

(Connecting clip)

2.5mm dia preformed wire clip to fit furring channel and main ceiling channel.



Metal Ceiling Grid Systems

SFSP Ceiling Grid System is a practical, convenient ceiling system. It has a complete range of main c-channel sections and complementary parts so that you can adapt the modules to suit your design needs and load requirements. The design of SFSP Ceiling Grid System components ensures easy assembly, reliability, and the ability to be adjusted or replaced without damage. All components have been designed and tested by SFSP engineers to meet the requirements of ceiling grid support systems. SFSP main c-channel is cold formed on modern rolling machines from low carbon steel manufactured according to BS 6946:1988. With a continuous slot type, it provides the ability to make attachments at any point.

The Types of Ceiling Grid Systems include Standard Ceiling / Advanced / Extreme / Back To Back Ceiling Grid System

Systems

Material: S 235 JRG2
Finish : Hot Dip Galvanized, Powder Coated

C-Channel Type: Slotted or plain

Standard Ceiling Grid System

CG-100 CSS

C-Channel Type : 41x21x1.5mm
Threaded Rod : M10
Bracket Thickness : 3mm
Maximum Distance : 50 cm
Allowable Load : 40 kg/m²

CG-120 CSS

C-Channel Type : 41x21x1.5mm
Threaded Rod : M12
Bracket Thickness : 3mm
Maximum Distance : 50 cm
Allowable Load : 65 kg/m²

Advanced Ceiling Grid System

CG-1000 CAS

C-Channel Type : 41x21x2.0mm
Threaded Rod : M10
Bracket Thickness: 4 mm
Maximum Distance: 40 cm
Allowable Load : 90 kg/m²

CG-1200 CAS

C-Channel Type : 41x21x2.5mm
Threaded Rod : M12
Bracket Thickness: 4 mm
Maximum Distance: 40 cm
Allowable Load : 150 kg/m²

CG-1300 CAS

C-Channel Type : 41x41x2.0mm
Threaded Rod : M12
Bracket Thickness: 4 mm
Maximum Distance: 40 cm
Allowable Load : 245 kg/m²

Extreme Ceiling Grid System

CG-2000 CES

C-Channel Type : 41x21x2.5mm
Threaded Rod : M12
Bracket Thickness: 4 mm
Maximum Distance: 40 cm
Allowable Load : 300 kg/m²

CG-2200 CES

C-Channel Type : 41x41x2.5mm
Threaded Rod : M10
Bracket Thickness: 4 mm
Maximum Distance: 40 cm
Allowable Load : 350 kg/m²

Accessories

- Spring Nuts
- Bolts
- Couplers
- T Bracket Connectors
- L Bracket Connectors

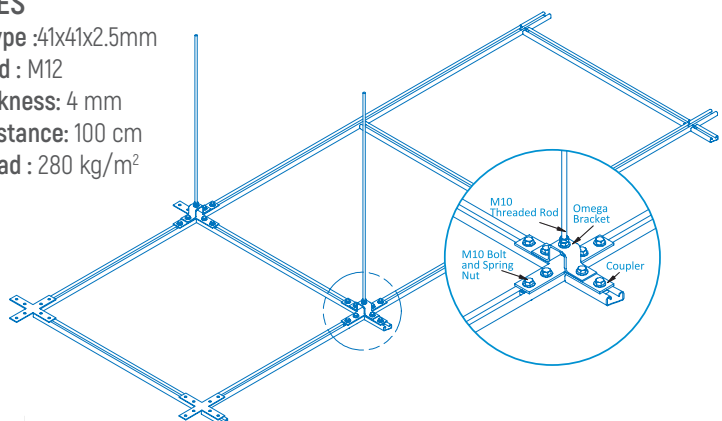
Back To Back Ceiling Grid System

CG-3000 BES

C-Channel Type : 41x21x2.5mm
Threaded Rod : M12
Bracket Thickness: 4 mm
Maximum Distance: 100 cm
Allowable Load : 250 kg/m²

CG-3200 BES

C-Channel Type : 41x41x2.5mm
Threaded Rod : M12
Bracket Thickness: 4 mm
Maximum Distance: 100 cm
Allowable Load : 280 kg/m²



Expansion Joint System by Nexus



Nexus Expansion Joint Solutions offer a comprehensive ranges of durable Expansion Joints for a wide array of applications including commercial centers, shopping malls, railway stations, airports, shopping centers, bridges, schools, hospitals, and several other areas of application. Our range of Expansion Joint Solutions are designed to safely absorb the heat-induced expansion and contraction of concrete slabs, to absorb vibration, and to allow movement due to ground settlement or earthquakes.

Expansion Joint



Wall To Corner



Floor To Wall



Wall To Wall



Wall To Corner



Wall To Wall;
Ceiling To Ceiling



Floor To Floor;
Wall To Wall



Floor To Floor;
Floor To Wall



Floor To Wall;
Wall To Corner



Floor To Floor; Wall To Wall;
Ceiling To Ceiling



Floor To Wall;
Wall To Corner; Ceiling To Wall



Ceiling To Ceiling;
Gypsum Walls



Ceiling To Wall; Gypsum Wall To Corner

Seismic Expansion Joint



Floor To Floor



Floor To Wall



Wall To Wall



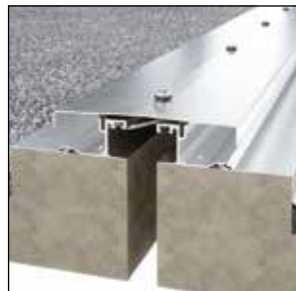
Wall To Corner



Ceiling To Ceiling; Wall To Wall



Ceiling To Wall; Wall To Corner



Roof
(Floor - Floor)



Roof
(Floor - Wall)

Water Proof Expansion Joint



Floor To Floor



Floor To Wall

Nexus Fire Barrier

Nexus Fire Barriers for vertical and horizontal expansion joint gaps with minimum movement capacity of 50% of the joint width. Manufactured in accordance with UL-2079 testing requirements.

Use:

Fire Barrier for vertical and horizontal expansion joint gaps with minimum movement capacity 50% of the joint width.

Material:

Protective lamination made of 0.05mm stainless steel AISI 304 with melting point 1400oC.

Core:

Fire blanket 128 kg/m3 density.

Product length:

Standard production length is 3 meters
Other lengths are available upon request.

Applications

Designed for Floor & Wall Gaps
For 2 hours Fire rated requirement
Suitable for gap sizes from 50 - 350 mm.



Profiles System by Nexus



Nexus offer comprehensive solutions for the construction industry ranging from Expansion Joint Covers and Fire Barriers to Entrance Matting Systems, Wall and Floor Profiles, Tactile Solutions, etc... NEXUS range of products is manufactured according to most common international standards to meet the requirements of commercial, residential, governmental, transportation, healthcare and educational projects.

Profiles For Floors And Walls



Profiles For Walls



Profiles For Floors



Profiles For Floors/Walls



Profiles For Walls/Glass

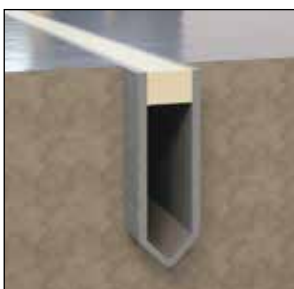
Stair Nosing



Skirting



Movement Joint



PVC Movement Joint



Tile Movement Joints

Channels / Strips



Profiles for Walls



Profiles for Glass

Landscaping



Rubber Gaskets



Tactile

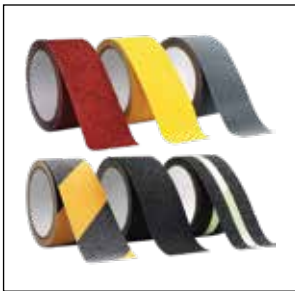


Tactile Paving



Indicator Studs & Strips

Anti Slip Tape



Carborundum Type



PVC type

Entrance Matting Systems by Nexus



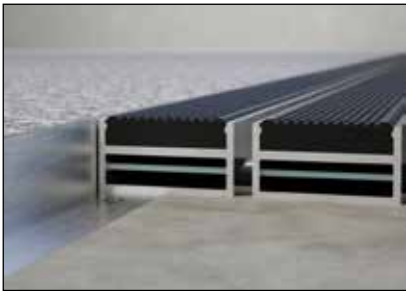
Nexus Entrance matting systems provides heavy duty entrance mats, composed of aluminium profiles with carpet, brushes or rubber inserts. For any design of any shape, being round, square, oval, or any other symmetrical or asymmetrical shape, Nexus offers a variety of entrance matting profiles.



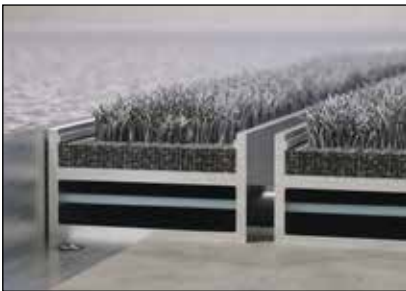
Aluminum-Rubber Profile



Aluminum-Carpet Profile



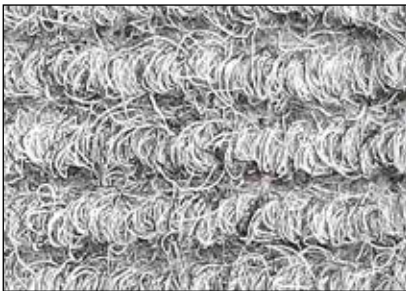
Aluminum-Rubber High Profile



Aluminum-Carpet High Profile



Aluminum Profile



CP-DM-Carpet

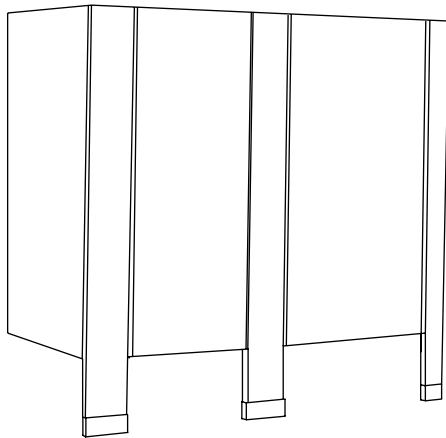
Phenolic Compartment by CUBIX



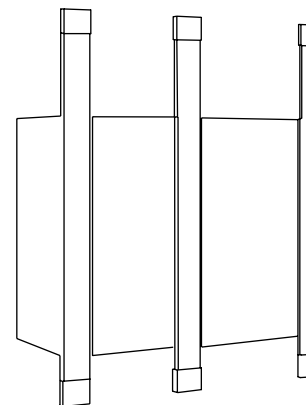
CUBIX phenolic compartment and partition systems are manufactured and customized to meet the precise needs of simple to complicated projects with its top-notch finish, quality of material and within a timely delivery. A complete solution with a wide selection of colors and textures are available. Our panels are manufactured from Black Phenolic covered with HPL panels to withstand harsh utilization conditions, while accessories are installed in stainless-steel finish; Gravity hinges, indicators Rosette, Lock set, Knob, Coat Hook, Pedestal leg, tissue holder, Stainless Steel brackets and channels, Stainless steel Strips. CUBIX phenolic compartment and partition systems provide strength, durability and design flexibility. These compartments offer 40 standard color selections and a choice of finishes. Our systems are suitable for high traffic public buildings, malls, entertainment centers, gyms and sports, educational and healthcare, sports facilities, etc..



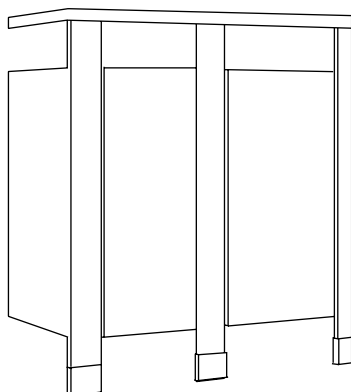
Construction Styles



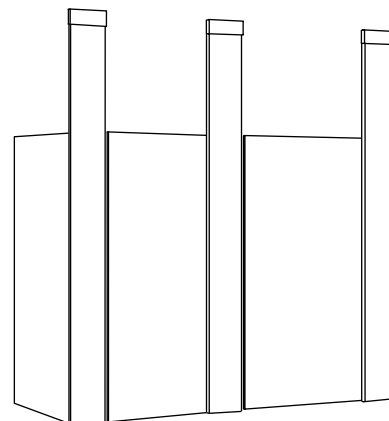
Floor mounted



Floor to ceiling



Overhead braced



Ceiling hung

Dimensions

- Height: 2000mm Including 150mm floor clearance
- Door Size : According to site requirement, typically 600mm
- Toilet Compartment Width: According to site requirement, typically 900 mm
- Toilet Compartment Depth: According to site requirement, typically 1500 mm
- Compact Grade Laminate: 12, 13 mm

Phenolic Panels – Chemical Resistance

Solid phenolic core with melamine facing panels formed under high pressure rendering a single component section not less than 254 mm one inch thick. Colors must extend throughout the panel thickness. Provide exposed finish surfaces: smooth, waterproof, non-absorbent, and resistant to staining and marking with pens, pencils, or other writing devices. Solid phenolic core with melamine facing panels shall not show any sign of deterioration when immersed in the following chemicals and maintained at a temperature of 27 degrees C for a minimum of 30 days:

Acetic Acid (80 percent)	Hydrochloric Acid (40 percent)
Acetone	Hydrogen Peroxide (30 percent)
Ammonia (liquid)	Isopropyl Alcohol
Ammonia Phosphate	Lactic Acid (25 percent)
Bleach (12 percent)	Lime Sulfur
Borax	Nicotine
Brine	Potassium Bromide
Caustic Soda	Soaps
Chlorine Water	Sodium Bicarbonate
Citric Acid	Trisodium Phosphate
Copper Chloride	Urea; Urine
Core Oils	Vinegar



Phenolic Cubical The Best Solution

Compact laminates are Available in Various thickness 10,12,13,18,19 to 25 mm. They are Engineered to meet special requirement such as:

- Exceptional self supporting properties
- Greater dimensional Stability and flatness
- Resistance to abrasion
- Resistance to Fire
- Excellent hygiene properties
- Resistance To harmful chemicals and organic solvent
- Simple and quick assembly without the need for edging and adhesive
- In case of combustion, emits low amount of harmful gasses and fumes

PHENOLIC ADVANTAGES:

- Chemical Resistant
- Wear Resistant
- Scratch Resistant
- Impact Resistant
- Crack Resistant
- Boiling water Resistant
- Water Vapor Resistant
- Cigarette Burn Resistant
- Staining Resistant
- Easy to maintain
- Durable
- Cost effective in comparison to expensive substitutes like Stainless steel



Toilet Partition



CUBIX-001 / SS 316 Hardware



CUBIX-002/ SS 316 Hardware



CUBIX-003



CUBIX-004



CUBIX-005



CUBIX-006 / AMUMINUM HARDWARE

HP Locker



HP Locker 01



HP Locker 02

Raised Access Flooring by PIXEL



PIXEL Raised Access Flooring offers comprehensive solutions of High Tech Raised Access Flooring Systems for the construction industry. PIXEL Raised Access Flooring are manufactured according to most common international standards to meet the requirements of commercial, residential, governmental, transportation, healthcare, and educational projects. In addition to its wide array of Raised Flooring panels and variety of finishes, PIXEL provides the technical expertise via its qualified and dedicated team of engineers and industry-experts in the field. PIXEL range of products is manufactured from high quality raw material and designed to meet all International Standards.



Scope of Application

Raised access flooring system is an elevated floor that is laid above a sub-floor, in order to leave an open space or void.

Raised floor system was commonly used in data centers and computer rooms.

Nowadays, and due to the increased application of advanced technology which requires proper cable management, Raised Flooring through their flexibility has become a key component in today's intelligent buildings and an effective solution in General Offices, Schools, Universities, Power Stations, Labs, and others.

Benefits of Raised Flooring

The most common usage for access floors is to run cables, electrical wiring and HVAC ducts. Running cables and electrical wiring through the accessible space between the panels and the sub-floor allows easy access and flexibility; wiring can be rerouted, repaired and upgraded without construction and minimal interference to the business' everyday activity. When combined with modular electrical systems and modular walls, the entire building can be reconfigured in a fraction of the time it would traditionally take.

Heating and cooling a building with a raised flooring system is also more efficient. The empty space between the panels and the sub-floor acts as a plenum chamber to dispense conditioned air evenly throughout the building.

Additionally, since warm air rises, heating the building from the access floor gap during the winter is more effective and efficient.

Raised floors are particularly useful for data centers and telecommunication facilities. Computer systems can rest on perforated tiles so that conditioned air is accessible for each unit. The equipment can then be designed to draw the cool air from below. With the increased efficiency and accessibility, access floors are an ideal alternative to suspended ceilings.

Composition

Raised Access Flooring System is a combination of panel bearing laid down on stringers and pedestals.

PANELS:

PIXEL Raised Flooring offers a variety of panels including calcium sulphate panels, cementitious steel composite Panels, and Chipboard panels as well.

Pixel panels are fabricated with bare finish, or covered with anti-static finishes such as high pressure laminate floor cover, vinyl floor covering, ceramic finish, and carpet, etc.

PEDESTALS:

PIXEL Galvanized Steel Pedestals: A vertical, adjustable part that supports the floor panels, with heights ranging from 100mm up to 2000mm. (The height of the under structure system is dictated by the volume of cables and other services to be stored beneath the raised floor). The panel is attached to the pedestal head at each corner. These pedestals are usually bonded to the sub-floor with mechanical fixings.

STRINGERS:

Stringers are horizontal pieces that connects to the pedestal heads, adding additional lateral floor support, while needed.

PIXEL Chipboard Panel

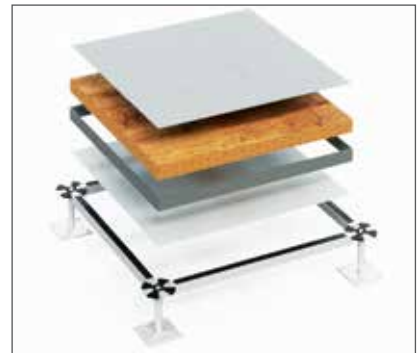
PIX-WOOD

PIX-CAL raised access flooring is made of high density chipboard core material. The top surface can be covered with multiple floor covering such as HPL, Vinyl, Carpet, Ceramic, etc. The bottom surface of the panel is covered with aluminum foil and galvanized steel sheet.

Size: 600 x 600 mm

Thickness: 35 and 38 mm

Weight: 12-14 Kg



PIXEL Steel - Cementitious Panel

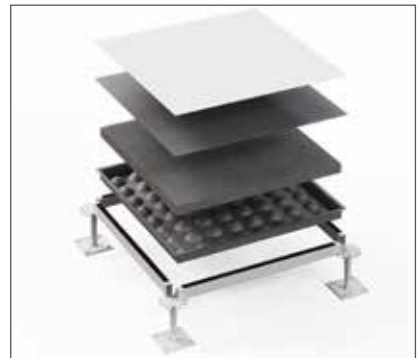
PIX-STEEL

PIX-STEEL raised access flooring consists of epoxy coated hard steel top plate formed through stamping and spot welding to deep stretched steel tray, filled with foaming cement in the middle. The combination of steel and concrete provides economic series of product grades, capable of matching the most demanding requirements. Panels are made either with bare finish (Epoxy coated), or with anti-static finishes with high pressure laminate or with vinyl, ceramic finish, and carpet, etc.

Size: 600 x 600 mm

Thickness: 35 mm

Weight: 13-15 Kg



PIXEL Calcium Sulphate Panel

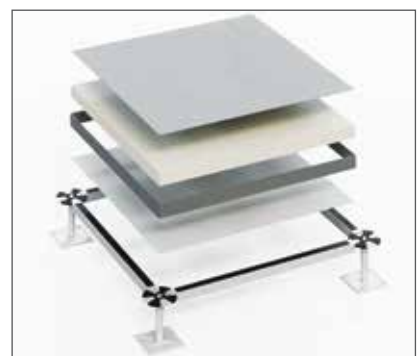
PIX-CAL

PIX-CAL raised access flooring panels are manufactured from high strength non-combustible Calcium Sulphate using environmental friendly materials: ~ 90% gypsum (calcium sulphate semi-hydrate), ~ 9% cellulose fibers. Calcium Sulphate panels can be covered with a variety of finishes including HPL, Vinyl, Carpet, Ceramic, and others. The Bottom surface is covered with Aluminum foil and galvanized steel sheet.

Size: 600 x 600 mm

Thickness: 30, 32, 38 mm

Weight: 20-26 Kg



Pixel Under-Structure System

Pedestals

Type 1: PIXPD-F
Height: 75-500 mm

Pedestal Head:
Electro galvanized circular steel of 98mm diameter x 2.3mm thickness welded at the center to M18 threaded steel with 2 leveling and locking nuts.

Type 2: PIXPD-S
Height: 510-1200

Pedestal Head:
Electro galvanized circular steel
Dimensions: 98mm diameter x 2.3mm thickness welded at the center to M18 threaded steel with 2 leveling and locking nuts.

Type 3: PIXPD-T
Height: 1210-2000 mm

Pedestal Head:
Electro galvanized circular steel of 98mm diameter x 2.3mm thickness welded at the center to M18 threaded steel with 2 leveling and locking nuts.



Pixel Under-Structure System

Stringers

S-shape

Electro galvanized steel square shape.
Size: 25x25x0.9mm with polyethylene acoustic insulation.

This profile is suitable for calcium sulphate and chipboard panels.

S-shape

Electro galvanized steel rectangular shape.
Size: 32x21x0.9mm with polyethylene acoustic insulation.

This profile is suitable for cementitious panels only.



Pixel Under-Structure System

Bracing

In order to enhance the stability and safety of raised flooring system with extremely high support heights, it is necessary to install additional bracing system on the original supporting structure to form a Seismic force-resistant structure. Pixel bracing consists of a perforated galvanized steel strip of 20mm width and 1mm thickness, bolted to a substructure from one side and connected to a turnbuckle stretching screw. A washer inserted to the pedestal is used as a connection.



Galvanized Steel Washer



Turnbuckle



Perforated Steel Strip



Through Bolt

Vinyl Covering

Thickness : 2mm
Weight : 3980 g/m²



Anti-static HPL

High pressure laminate according to EN 438.



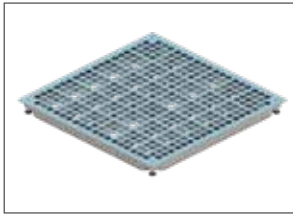
Perforated Panels

Perforated panels specially constructed to allow air flow distribution from under the raised access floor. PIXEL Raised Access Flooring offers a wide range of steel perforated panels with or without damper for regulating air flow.

- Panel size: 600x600mm.
- Load ratings are equal to non perforated panels.
- Perforation rate: From 10% up to 48%.
- Panel finishing: Epoxy coated.

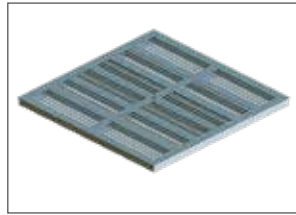
Perforated Type (PU)

This panel is applicable for all PIXEL Raised Access Flooring Panels.



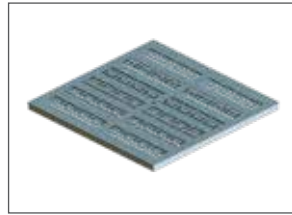
Perforated Type (CC)

These Panels are applicable for Chipboard and Calcium Sulphate panels.



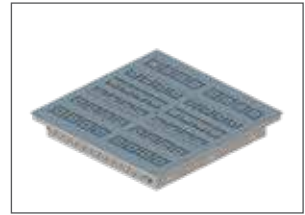
Perforated Type (CE)

These Panels are applicable for Cementious panels only.



Grills

This Panel is suitable for Calcium Sulphate and Chipboard Panels.



Service Power Boxes

PIXEL provides raised floor boxes for power outlets and data connections to desks and workstations within the modern office environment.

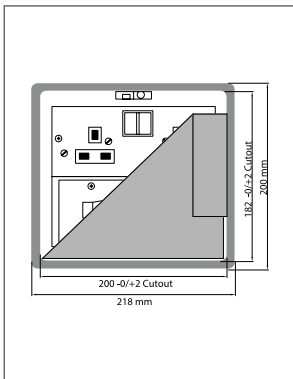
Designed and manufactured according to BS EN 60670-1:2005, BS EN 60670-23:2008.

- Available as standard type or heavy duty type.
- Boxes are supplied with dividers for quick and easy configuration as 3 or 4 compartment boxes that enables connection to a range of power, voice, and data socket plates.
- The standard support plate is 3mm thick and allows high traffic volume. In the case of very heavy traffic volume, a robust steel sub-frame can be used to support the lid.
- The sub-frame doesn't restrict space for wiring and accessories. It also allows fine adjustments to be made to accommodate uneven flooring.
- PIXEL floor boxes are made from galvanized steel and is available as stainless steel finish upon request.



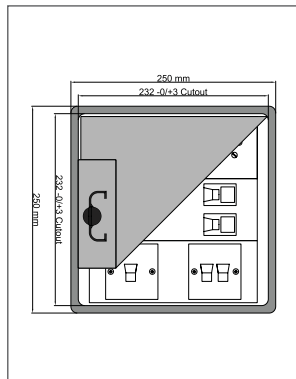
1) PBOX 200218-2

2 compartments, 75 x 175mm
Cutout size: 182 x 200mm



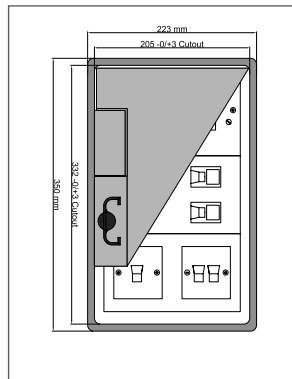
2) PBOX 250250-3

3 compartments, 75 x 205mm
Cutout size: 232 x 232mm



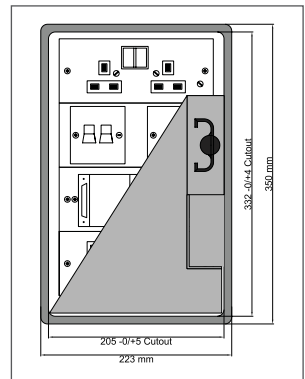
3) PBOX 350223-3

3 compartments, 100 x 180mm
Cutout size: 332 x 205mm



4) PBOX 350223-4

4 compartments, 75 x 180mm
Cutout size: 332 x 205mm



Civil Solutions



Cable Management System with Accessories

- Cable Trays & Accessories
- Cable Ladders (Welded & Swaged)
- Basket Trays & Accessories
- Cable Trunkings
- Underfloor Trunkings
- Fiberglass Reinforced Plastic (FRP) Cable Tray / Ladder
- Cable Management Support Systems

C-Channels Strut Systems with Accessories

Pipe Clamps and Hangers with Accessories

Galvanized Threaded Rods and Accessories

Expanded Metals, Plasterers' Beads

Expanded Metals help the formation of joints, protection of corners and resistance against cracks, chips and impact damage. Calculations are provided by our design office in Stuttgart, Germany.

- For interior applications:
Galvanized Steel according to BS EN 10327 superseded by BS EN 10346:2009, zinc coated on both sides.
- For exterior applications and humid environment:
Austenitic stainless steel according to BS EN 10088- Mat.No.14301

Technical Specifications

Metal Beads

Relevant Standards:

- BS EN 13914- 2 : 2005 Design , Preparation and Application of External Rendering and Internal Plastering
- BS EN 13658-1 : 2005 Metal Lath and Beads – Definitions , Requirements and Test Methods , Internal Plastering Supersedes BS 1369-1 :1987 and BS 6452-1 : 1984
- BS EN 13658 – 2 : 2005 Metal Lath and Beads – Definitions , Requirements and Test Methods , External Plastering Supersedes BS 1369-2 :1987 and BS 6452-2 : 1984
- ASTM C841 – Standard Specification for Installation of Interior Lathing and Furring
- ASTM C847 – Standard Specification for Metal Lath
- ASTM C1063 – Standard Specification for Installation of Lathing and Furring for Portland Cement – Based Plaster
- International Building Code , [IBC] Chapter 25
- International Residential Code , [IRC] Chapter 7

Galvanized Steel:

- BS EN 10346:2009 (formerly BS EN 10142: 1991) coating type: Z180-275 ASTM A 653/A 653M

Stainless Steel:

- BS EN 10088-2:2005 (which was directly equivalent to formerly BS 1449:Part 2:1983 in Grade 304 2B FINISH
- ASTM A240/A240M in Grade 304 2B FINISH

Expanded Metal Lath & Block Work Expanded Mesh

Relevant Standards:

- BS EN 13658-1 & 2:2005 (formerly BS 1369:Part 1:1987)
- ASTM C 847

Galvanized Steel:

- BS EN 10346:2009 (formerly BS EN 10142:1991) coating type: Z180-275
- ASTM A 653/A 653M

Stainless Steel:

- BS EN 10088-2:2005, which was directly equivalent to formerly BS 1449:Part 2:1983 in Grade 304 2B FINISH
- ASTM A240/A240M in Grade 304 2B FINISH

Reinforcement Mesh

Relevant Standards:

- BS EN 845-3:2003
- ASTM A 951/A 951M

Cold drawn steel for concrete/masonry reinforcement

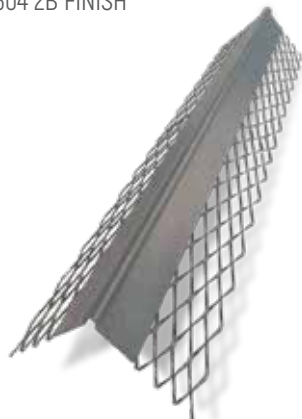
- BS 4482:2005
- ASTM A 496/A 496M, ASTM A 82/A 82M

Pre galvanized steel wire

- BS EN 10244-2:2001 formerly BS 443
- ASTM A 641/A 641M

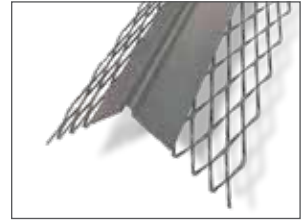
Stainless Steel wire

- BS EN 10088-3:2005 (which was direct equivalent to formerly BS 1554:1990)
- BS 1449:Part 2:1983 in Grade 304 2B FINISH
- ASTM A 1022/A 1022M



Angle Bead

Angle beads provide with its solid metal nose a straight corner. Expanded diamond mesh wings allow for keying the plaster right up to the nose of the bead. It is designed to protect the corners.



Architrave Bead WITH FLANGE

Mainly used for decorative purposes to give a channel gap or a shadow between different walls finishes.



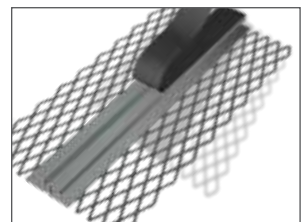
Plaster Stop Bead

Plaster stop bead provides a straight accurate line, it is used to reinforce the plaster or render on its edge. Plaster stop bead is designed as a universal plaster stop used at wall ends, door and window openings to make a neat, flush frame.



Movement Bead

Movement Beads are used to relieve the stress and strain in large plaster areas of wall and ceiling stucco areas and to allow for movement between adjoining surface finishes.



Control Joint Bead

Designed to minimize the plaster cracking and to allow movement in the plaster. They provide for the basic expansion and contraction that can be expected in the stucco membrane, such as initial shrinkage during curing and minor thermal expansion and contraction.



Architrave Bead Without Flange

Mainly used for decorative purposes to give a shadow between different walls finishes.



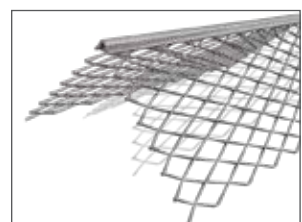
Corner Mesh

Corner mesh lathes are used to prevent cracking in the plaster.



Micro Angle Bead

Micro angle beads are designed for thin coat plaster and are used at corners for protection. Micro angle beads are popular thin coat beads with fine mesh wings. Fix either by galvanized nails or using plaster dabs.



Micro Plaster Stop Bead

Micro plaster stops are designed for thin coat edge protection at openings. They provide abutment of plastered areas of other wall finishes. Micro plaster stops provide efficient keying and excellent finishes.



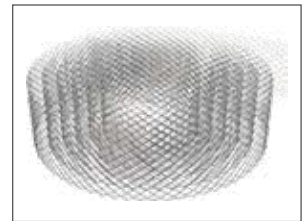
Strip Mesh

Strip Mesh Lathes are used along stress lines where cracking is likely. Strip mesh provides reinforcement to the plaster to prevent crack over joints of different materials.



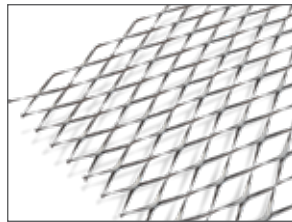
BR Mesh

Block reinforcement meshes are produced for brick and block work reinforcement. Their primary usage is to prevent cracking. Brick reinforcement meshes increase resistance to tensional stress.



Coil Lath

An easy to fix lath, provides a secure key for plaster and render applications as well as offering effective joint and crack reinforcement.



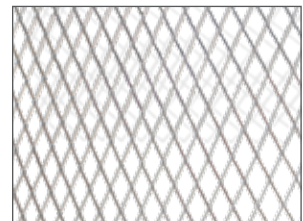
Aluminum Channel

The Aluminum Channel is a versatile product, commonly used for groove making; a decorative purpose for plaster finishes.



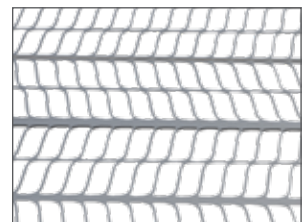
Metal Sheet Lath

Sheet lath is produced as a key for plaster when applied on suspended ceiling and walls. Sheet lath is used for encasing steel column and beams, assisting in the protection from fire.



Metal Rib Lath

Rib lathes are expanded metal lathes stiffened with longitudinal ribs. The furring design of the mesh provides efficient background plaster for construction of partition, suspend ceiling and refurbishment works.



Hy-Rib Lath

Manufactured from Pre-galvanized steel to BSEN 10327. Hy Rib is available using stainless steel to BSEN 10088-2 type 1.4301. The profile of Hy Rib open mesh in combination with its ribs provide an inherently stiff sheet along its length.



Block Wall 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.

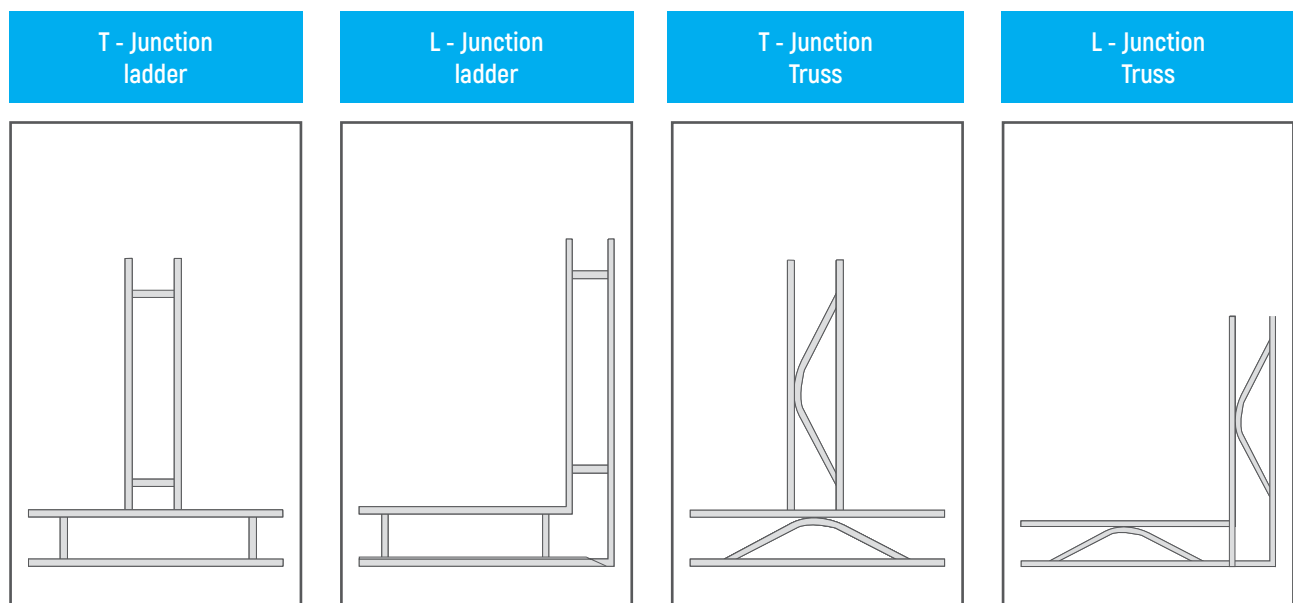
SFSP block reinforcements reduces the risk of cracking either at stress concentration around opening. Calculations are provided by our design office in Stuttgart, Germany.

Specifications

SFSP reinforcement truss type are manufactured by resistance welding of ASTM A82 cold drawn steel wire deformed at predetermined centers conforming to BS 4483:2005.

Dimensions

- Hot-dip galvanized.
 - Main wire diameter = 4.0 mm 4.8 mm
 - Rung and diagonal wire diameter = 4.0 mm 4.8 mm
 - Rung wire centers = 400 mm
- Stainless steel AISI 304
 - Main wire diameter = 4.0 mm 4.8 mm
 - Rung and diagonal wire diameter = 4.0 mm 4.8 mm
 - Round wire centers = 400 mm



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. Calculations are provided by our design office in Stuttgart, Germany.

Material & Finishes

- Hot rolled steel S235JR as per EN 10025 / ASTM A-1011 CS Type B (formerly ASTM A569 or ASTM A570)
- Cold rolled steel DC01 as per EN 10130:2006 / ASTM A1008 CS Type B (formerly ASTM A-366) and then:
 - Hot-dip galvanized as per BS EN ISO 1461:2009 (formerly BS 729) / ASTM A123 or
 - Electro plated as per EN 12329 / ASTM B633 (Electrodeposited coatings of zinc on iron and steel)

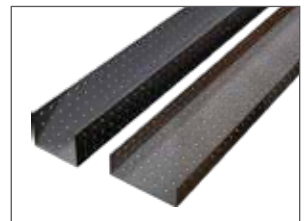
- Pre-galvanized steel DX51D+Z as per EN 10346:2009 G120, G180 (G275 is available upon special request) which supersedes EN 10327 which is a replacement of EN 10142 which in turn supersedes BS 2989 / ASTM A653M zinc coated (hot-dip galvanized) iron and steel CS (commercial) or SS (structural) quality G60 and G90 is available upon special request (formerly ASTM A527M) / ASTM A924 (coating) (formerly A525)
- Stainless steel 14301 as per EN 10088 - 2:2005 (formerly BS 1449 Part 2 / ASTM A240M, Grade AISI 304)

Specifications

- Steel Lintels - manufactured to BS 5977: Part 2 :1983 / BS EN 845-2:2003.
- Wall Ties - manufactured to BS EN 845-1:2003 (Formerly BS 1234).
- Block Reinforcement Ladder and Truss - manufactured as per ASTM A82 / ASTM A951 / BS 845-3:2003 DIN 488.

Steel Lintels

SFSP steel lintels offers an economical, efficient and timely effective solution when compared to ordinary lintels. Manufactured according to BS EN 845-2:2003, SFSP steel lintels range have safe working loads as detailed in each applicable loading table to ensure the most safe application for installers, taking into account the different loading arrangements which are common to traditional solid wall construction.



Lintel Brackets

Brackets are supplied with fixing holes to suit metal expansion anchor sizes



Cramps and Ties

Head End Options

These ends have been manufactured to fit standard channel sections that is preset into concrete or surface fixed to any inner skin or structural ground



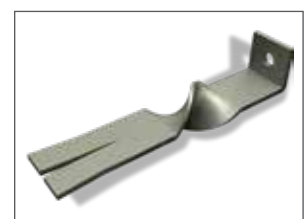
Tail End Options

The most common method of anchoring a tie to a slab facing, is by means of a round dowel into a drilled hole, split tangs on the tie may also be used. For bonding into brickwork the "Fishtailed" end is the traditional.



Shank Options

Shanks may be plain or may include a drip to stop the passage of moisture across.



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