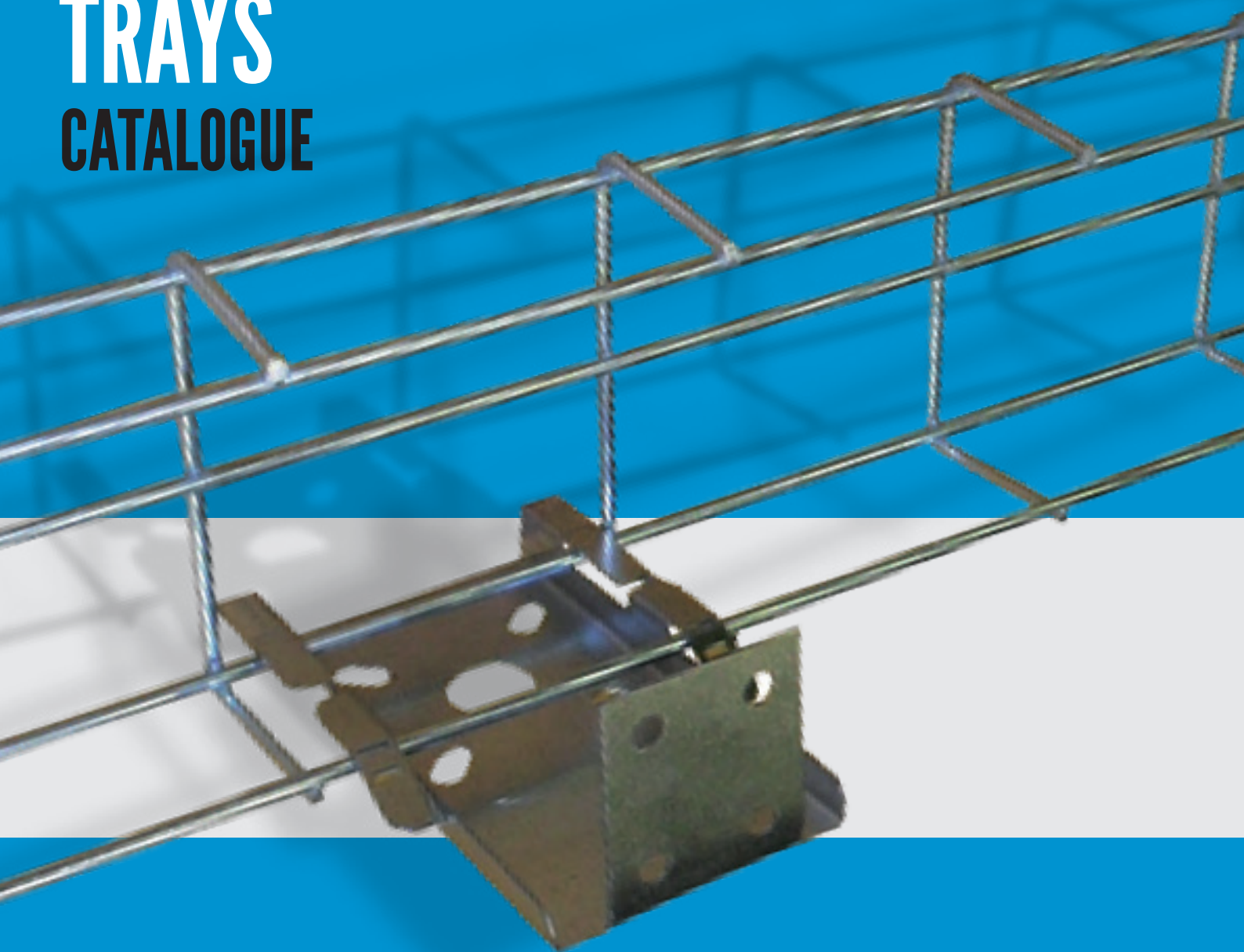


Specialized Factory for Steel Products
SIGMA Factory for Steel Products



BASKET TRAYS CATALOGUE

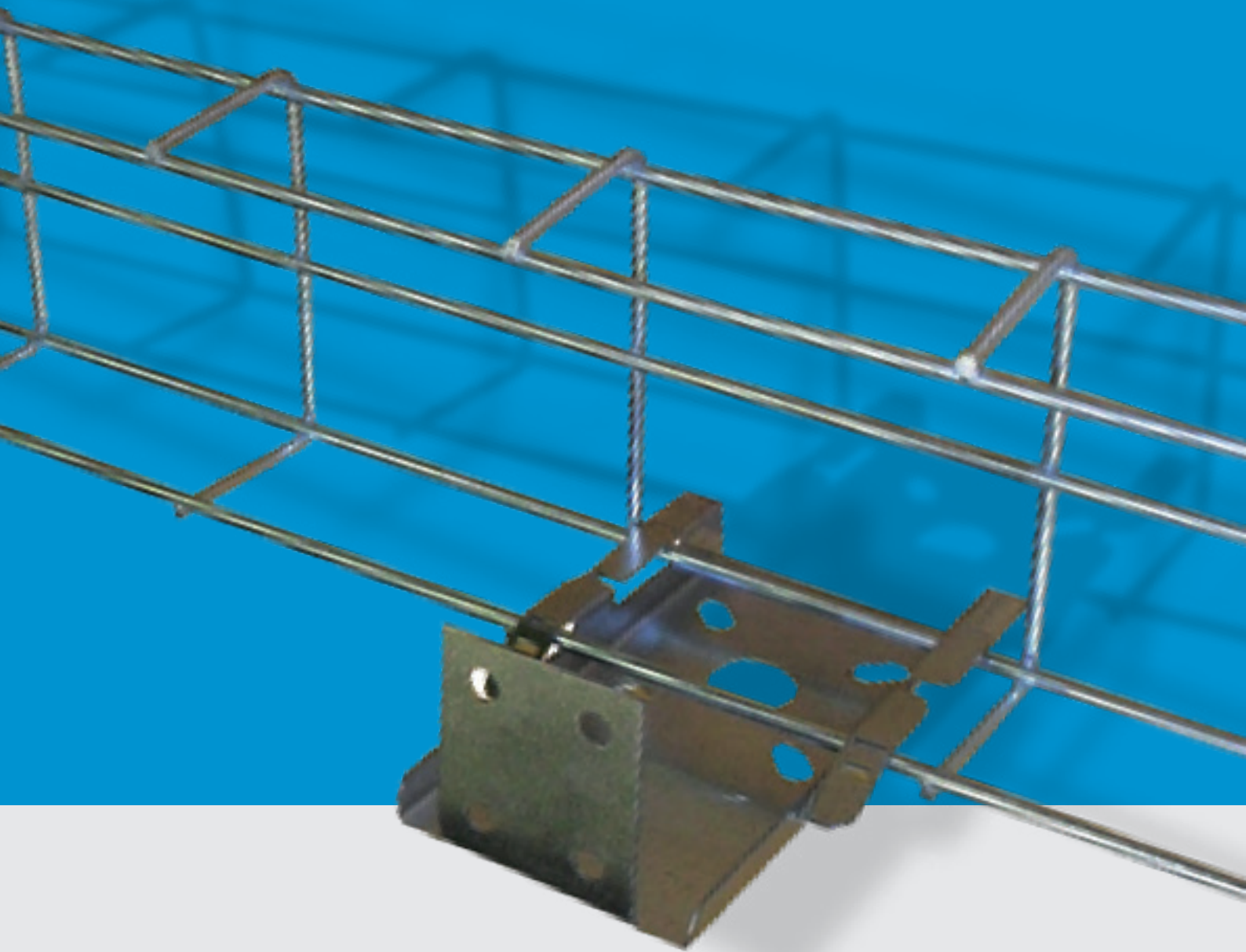


www.ikkgroup.com

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Basket Trays Catalogue

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www.sfsp-ikk.com



ABOUT SFSP



Specialized/Sigma Factory for Steel Products (SFSP) was first established in KSA in 1989 and has been expanding ever since through a variety of products and through its geographical presence.

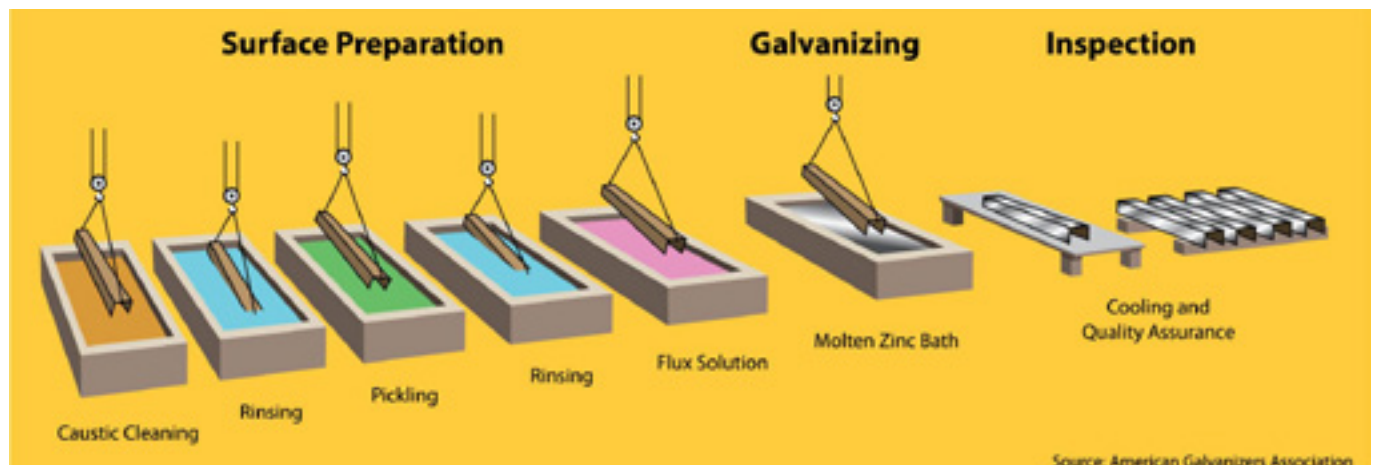
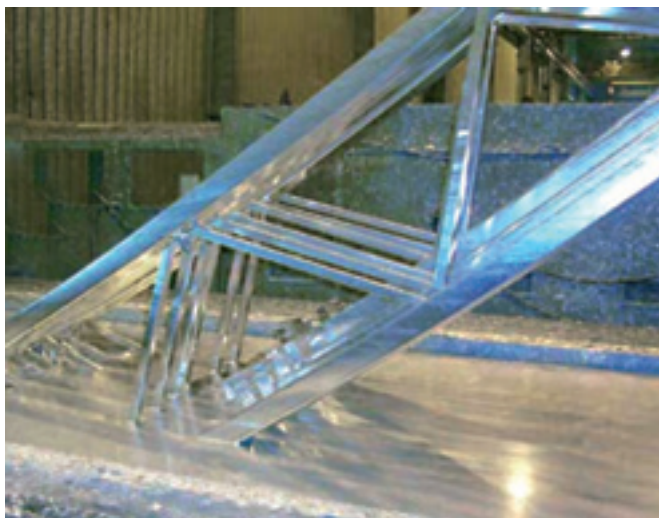
Production at the factory is observed using modern practices of manufacturing methods in the steel construction industry with a definite compliance to international standards of fabrication.

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

Quality at SFSP is uncompromised; the factories have been able to acquire ISO 9001: 2015 Quality Management System, ISO 14001:2015 Environmental Management certified factory, and OHSAS 18001:2007 Occupational Health and Safety Management factory.

HOT-DIP GALVANIZATION

SFSP has an in-house state of the art Hot-Dip Galvanization facility, which permits a full control of the quality of its finished products, offering better services to our clients globally.





Specialized Factory for Steel Products Co. Ltd

www.sfsp-ikk.com

Specialized Factory for Steel Products Co., Ltd, which is part of Isam Khairi Kabbani Group of companies is a leading fabricator of steel construction products serving the kingdom of Saudi Arabia since 1989.

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

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



The facilities include two manufacturing areas, a hot dip galvanization advanced section, warehousing areas and administrative building. The project is an advanced environmental low emissions factory built with a definite consideration of the safety of its workers and visitors.



TECHNICAL SERVICES

A crucial factor in the job of a factory is to provide continuous technical services and consultations. That's why SFSP has invested in a professional team of researchers and specialists.

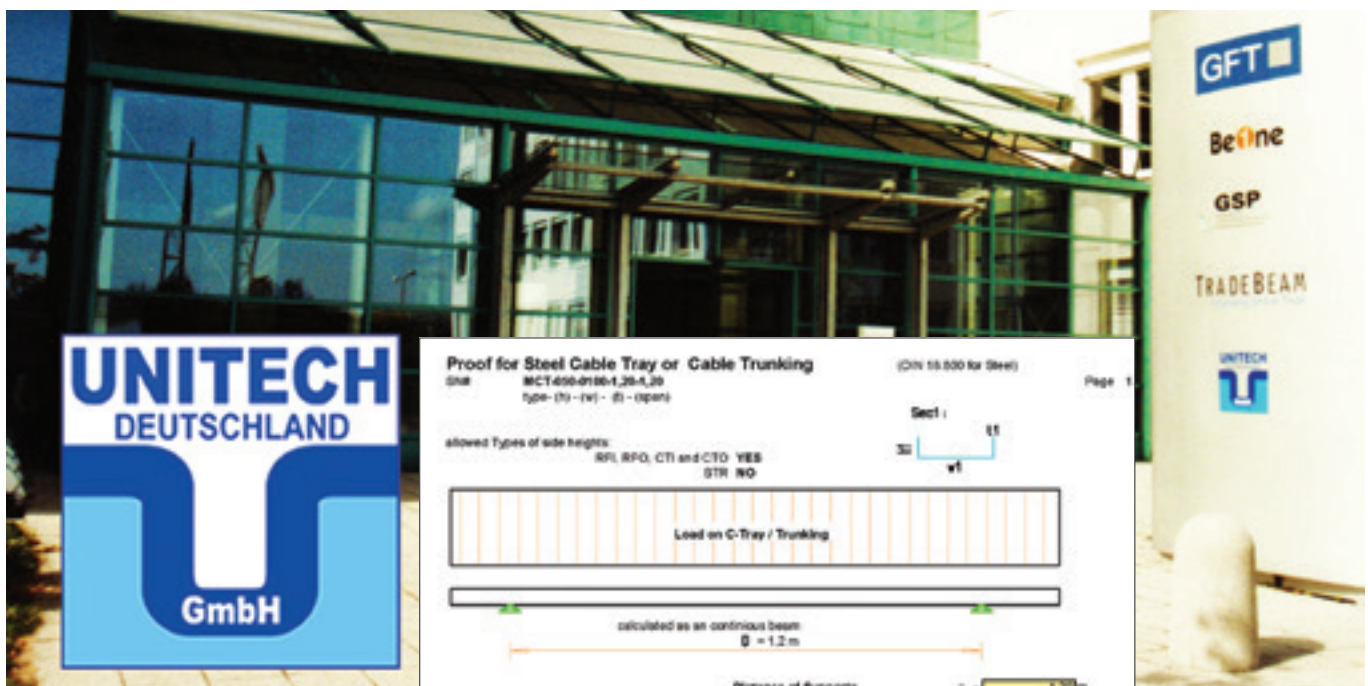
SFSP has recruited brilliant graduates and experienced engineers having the appropriate knowhow on the on latest technology changes and development in the steel building materials industry.

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

SFSP R&D Core Objectives

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

DESIGN AND ENGINEERING OFFICE - GERMANY



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

Proof for Steel Cable Tray or Cable Trunking			
(CIN 15.000 for Steel)			
Page 1			
allowed Types of side heights: RFL, RPD, CTI and CTD: YES STR: NO			
Load on C-Tray / Trunking			
calculated as an continuous beam $l = 1.2 \text{ m}$			
Distance of Supports Load on Cable Tray			
Cable Tray Sec 5:			
*** Center Load only possible for $wf \leq 300 \text{ mm}$!!			
SN	Mechanical Properties	Equations	Figures unit
1	Type of materials used	$DIN 50102$	5.205.2002
2	Allow. 0.2 Yield Stress up to 50°C	$F_{0.2} = F_{0.2} / 1.5$	21.82 N/mm ²
3	Allow. Shear Stress		12.60 N/mm ²
4	Allow. Deflection	$l/200$	6.00 mm
5	Modulus of Elasticity		21.000 N/mm ²
Applied Loads			
1	Distance of Supports	$D =$	120.00 cm
2	Self Weight Cable	W_{c}	1.74 N/mm
3	Self Weight Cable Tray	$W_{tr} <$	0.02 N/mm
4	Self Weight	$W_{tr} = W_{c} + W_{tr}$	1.76 N/mm
Design of Elements			
1	Cable Tray / Trunking		
1	Description	Equations	Figures unit
Mechanical Properties of Sec. 5			

SOCIAL RESPONSIBILITY

Being socially responsible is a part of who we are and how we do our business. We aim to provide useful products and services, to provide jobs and development opportunities for our communities, and to gain satisfaction through meaningful work.

We make a difference by acting on the values and principles of our societies and we inspire others to do so. At SFSP, we anticipate and reduce threats caused by environmental changes or natural disasters, and we are well adapted to significant social changes.

We contribute to a more sustainable society by means of value and support to our consumers, supply chains, and stakeholders. We are keen to identify ways they can improve our impacts on the people and places we work and live in, and thereby become more valuable and valued members of society.

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



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

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

HEALTH AND SAFETY

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

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

The Factory satisfies the requirements of the Health, Safety and related legislation by setting out the responsibilities of all levels of staff and the arrangements for carrying out those responsibilities and in particular do what is reasonably practicable to:

1. Maintains safe & healthy working conditions.

2. Ensures that all facilities and equipment are safe and properly maintained.
3. Provides products that can be applied and used safely and without risk to health.
4. Provides and maintain working procedures, that are safe and without risk to health, throughout the its operations in respect of:
 - The use, handling, storage, transports and disposal of materials and substances.
 - The use of factory equipment.
 - Potential emergency situations, including first aid, fire and escape of substances.
5. Ensure the competence of employees.

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



ENVIRONMENTAL AWARENESS

SFSP is committed to the following:

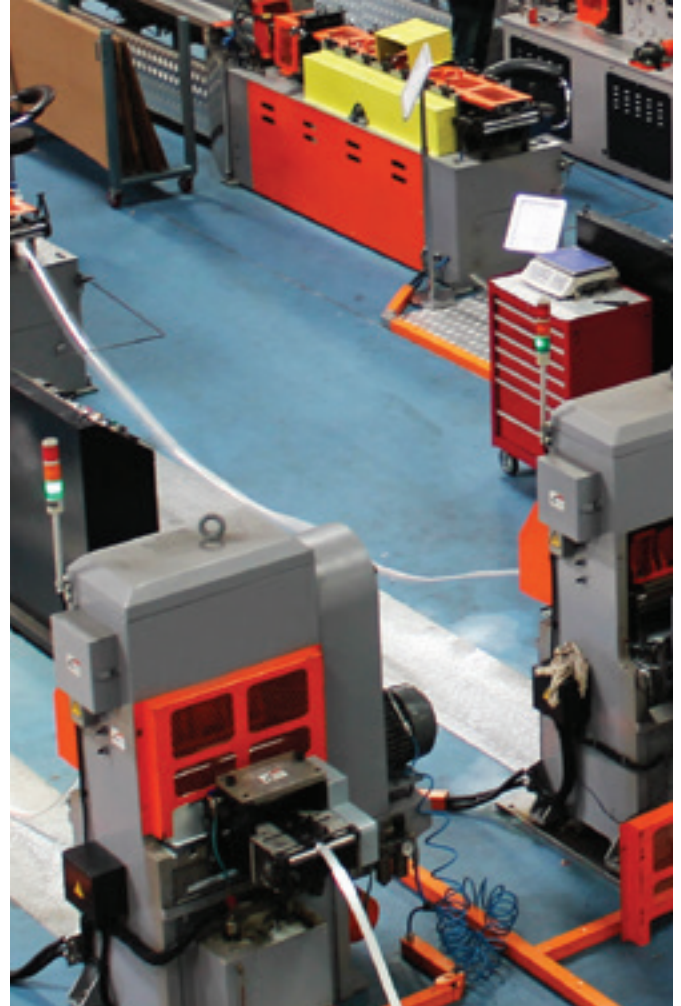
- Compliance with all statutory and regulatory requirements related to its activities, products and services and the environmental aspects.
- Identifying quality and environmental objectives by review and audit of the processes both in-house and on-site.
- Formally setting objectives based on the results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



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



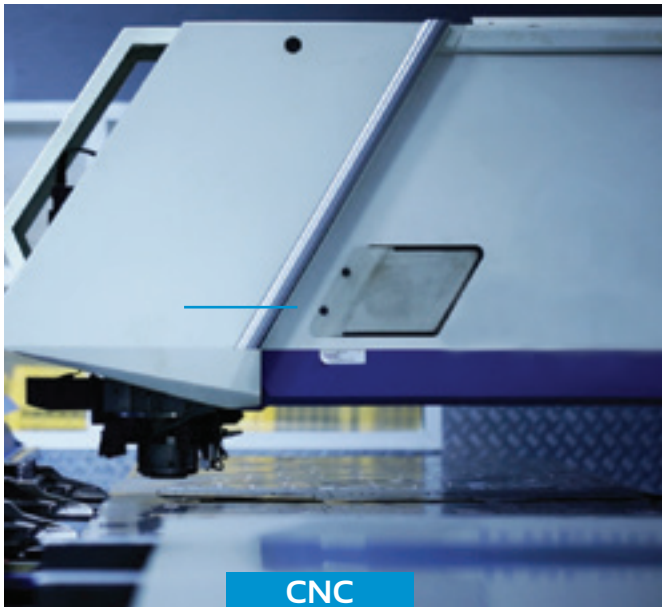
SFSP facilities are equipped with the most technologically advanced machinery amongst are Laser Cut Machines, Robot Bending Sets, Welding Robot Sets, sophisticated Cable Management Production Lines, as well as Specialized Industrial Sections for its Hot Dip Galvanization facilities.



CNC MACHINES



WELDING
ROBOT
SETS



CNC
PUNCHING



FIBER LASER
CUT



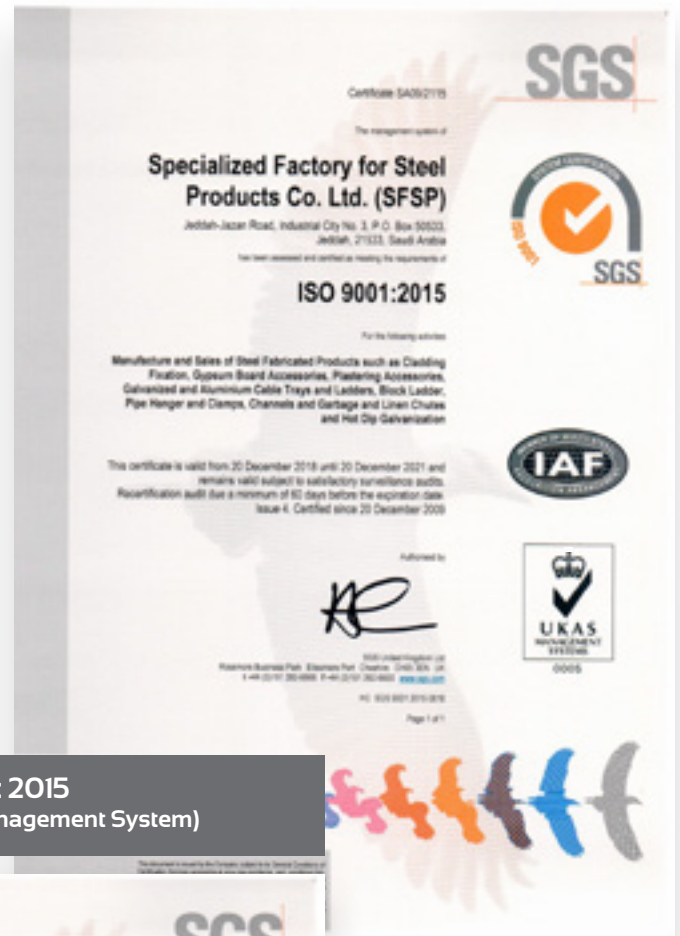
ROBOTIC
BENDING
CELL

SFSP CERTIFICATION

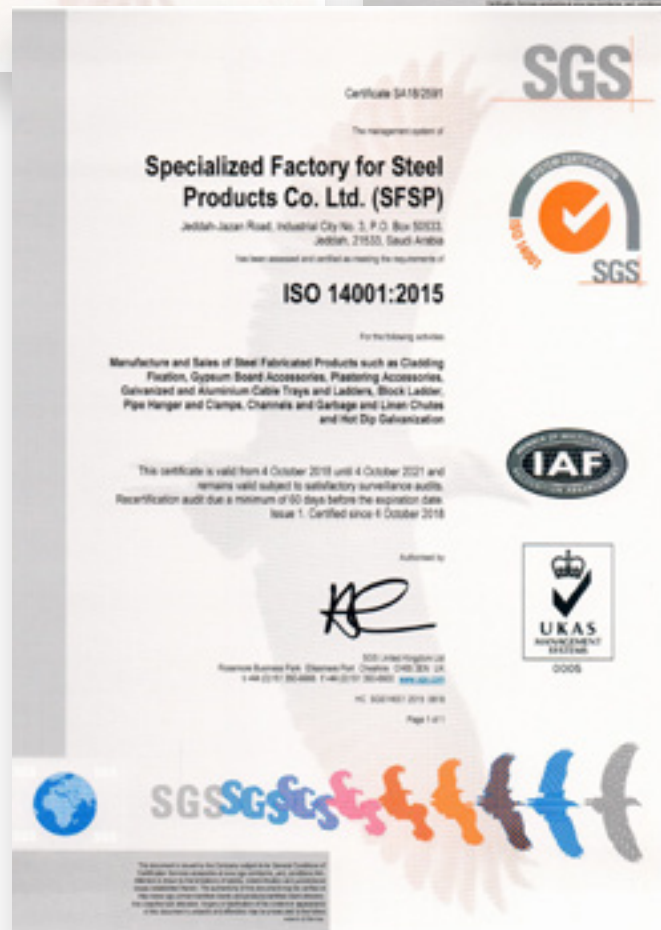
ISO 45001: 2018 (Occupational Health & Safety)



ISO 9001: 2015 (Quality Management Systems)



14001: 2015 (Environmental Management System)



STD 096 (Q-Mark Certificate)



CERTIFICATE OF REGISTRATION

This is to certify that

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

Meets the requirements of the Exova BM TRADA Q-Mark International Fire Door Manufacture scheme to STD 096 - Issue 3 - 01/12/2015 which only operates in Bahrain, Egypt, Iraq, Jordan, Kuwait, Lebanon, Libya, Oman, Qatar, Saudi Arabia and The United Arab Emirates for the products on the attached schedule

Karen Prendergast
Sector Director - Certification
Exova BM TRADA

Certificate Number

476

Date of Initial Certification

16 June 2014

Date of last Issue

13 October 2017

Date of Expiry

15 June 2020

Exova (UK) Ltd, (T/A Exova BM TRADA), Chiltern House, Stocking Lane, High Wycombe, Buckinghamshire, HP14 4QB, UK
Registered Office: Exova (UK) Ltd, Lochend Industrial Estate, Newbridge, Edinburgh EC2B 8PL, United Kingdom. Reg No. SC059429.
This certificate remains the property of Exova (UK) Ltd. This certificate and all copies or reproductions of the certificate shall be returned to Exova (UK) Ltd or destroyed if requested. Further certification regarding the scope of this certificate and verification of the certificate is available through Exova BM TRADA or at the above address or at www.exovabmtrada.com
The use of the UKAS accreditation mark indicates accreditation in respect of those activities covered by the accreditation certification 012
Audit site clients - The scope of certification shown above includes the participating sites shown on the registration schedule
Page 1 of 2

ISO 14001: 2015 (Environmental Management System)



CERTIFICATE OF REGISTRATION

This is to certify that

Sigma Factory for Steel Products
P.O. Box 37991
Salh 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
Sector Director - Certification
Exova BM TRADA

Certificate number: 2524

Issue number: 2018-02

Certificate start date: 22 September 2018

Certificate expiry date: 21 September 2021

Date of initial certification: 22 September 2015

Exova (UK) Ltd, (T/A Exova BM TRADA), Chiltern House, Stocking Lane, High Wycombe, Buckinghamshire, HP14 4QB, UK
Registered Office: Exova (UK) Ltd, Lochend Industrial Estate, Newbridge, Edinburgh EC2B 8PL, United Kingdom. Reg No. SC059429.
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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
Salh 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
Sector Director - Certification
Exova BM TRADA

Certificate number: 1006

Issue number: 2018-01

Certificate start date: 22 September 2018

Certificate expiry date: 11 March 2021

Date of initial certification: 22 September 2015

Exova (UK) Ltd, (T/A Exova BM TRADA), Chiltern House, Stocking Lane, High Wycombe, Buckinghamshire, HP14 4QB, UK
Registered Office: Exova (UK) Ltd, Lochend Industrial Estate, Newbridge, Edinburgh EC2B 8PL, United Kingdom. Reg No. SC059429.
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The use of the UKAS accreditation mark indicates accreditation in respect of those activities covered by the accreditation certification 012

ISO 9001: 2015 (Quality Management System)



CERTIFICATE OF REGISTRATION

This is to certify that

Sigma Factory for Steel Products
P.O. Box 37991
Salh 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
Sector Director - Certification
Exova BM TRADA

Certificate number: 5965

Issue number: 2018-02

Certificate start date: 22 February 2018

Certificate expiry date: 22 February 2021

Date of initial certification: 23 February 2015

Exova (UK) Ltd, (T/A Exova BM TRADA), Chiltern House, Stocking Lane, High Wycombe, Buckinghamshire, HP14 4QB, UK
Registered Office: Exova (UK) Ltd, Lochend Industrial Estate, Newbridge, Edinburgh EC2B 8PL, United Kingdom. Reg No. SC059429.
This certificate remains the property of Exova (UK) Ltd. This certificate and all copies or reproductions of the certificate shall be returned to Exova (UK) Ltd or destroyed if requested. Further certification regarding the scope of this certificate and verification of the certificate is available through Exova BM TRADA or at the above address or at www.exovabmtrada.com
The use of the UKAS accreditation mark indicates accreditation in respect of those activities covered by the accreditation certification 012

SFSP CERTIFICATION

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)
Saii Shuaib 3, 4 R/A, Dubai Industrial City,
Dubai, United Arab Emirates

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

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

DEKRA hereby declares that the above-mentioned product has been certified on the basis of:
- a type test according to the standard IEC 61537:2007 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.

drs. G.J. Zoetbrood
Managing Director

H.R.M. Barnds
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

BS EN 61537:2007 (KEMA - KEUR BS 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)
Saii Shuaib 3, 4 R/A, Dubai Industrial City,
Dubai, United Arab Emirates

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

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

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

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

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

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

Certificate number: 2156954.02

DEKRA Certification B.V.

drs. G.J. Zoetbrood
Managing Director

H.R.M. Barnds
Certification Manager

© Integral publication of this certificate is allowed

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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

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
Saii 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 (only 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.

Shahin Kabbani, Director (Manager) Director (Manager)
Director (Manager) Director (Manager) Director (Manager)

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 www.ul.com/customer-service



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
Saii 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.

Shahin Kabbani, Director (Manager) Director (Manager)
Director (Manager) Director (Manager) Director (Manager)

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 www.ul.com/customer-service



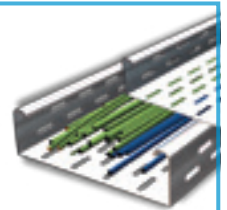


SFSP PRODUCTS

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

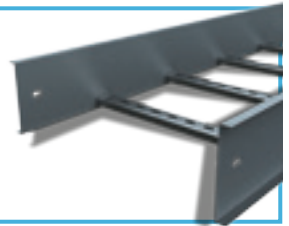
CABLE TRAYS & ACCESSORIES

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



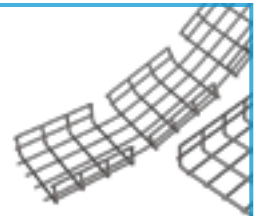
CABLE LADDERS (WELDED & SWAGED)

Cable Ladders of different side heights are available upon request.



BASKET TRAYS & ACCESSORIES

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



CABLE TRUNKINGS

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



UNDERFLOOR TRUNKING

Underfloor Trunking Systems solutions incorporate a range of products for the distribution of power and data services, it is a coordinated set of containments that protect, segregate, contain, and route cables within a given environment.



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.



EXPANDED METALS, PLASTERERS' BEADS

Expanded Metals help the formation of joints, protection of corners and resistance against cracks, chips and impact damage.

BLOCK LADDER REINFORCEMENT

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

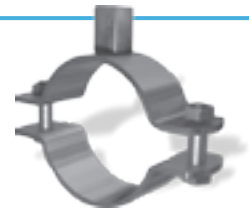
STEEL LINTELS & BLOCK WORK ACCESSORIES

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



PIPE CLAMPS & HANGERS

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



MARBLE & GRANITE FIXINGS

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



DRY WALL & CEILING PROFILES

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



GARBAGE & LINEN CHUTES

Chutes from SFSP are very convenient, simple and low cost method of controlling and disposing of refuse and linen. Chutes meet the most stringent requirements of environmental health and safety. Chutes are used as original equipment in new buildings, such as : Hotels, Hospitals, High Rises and Residential Towers.





SFSP Products are solely distributed by UNITECH for Building and Construction Materials

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

KSA

Isam Kabbani & Partners for Building and Construction Materials Co., Ltd.

شركة عصام قباني وشركاه لمواد الأنشاء والتعمير المحدودة

BAHRAIN

Isam Kabbani Trading Est.

مؤسسة عصام قباني التجارية

UAE

Issam Kabbani Trading Est.

مؤسسة عصام قباني للتجارة

KUWAIT

Hassan Kabbani for General Contracting Est.

مؤسسة حسان قباني للمقاولات العامة للمباني

OMAN

Isam Kabbani & Partners Trading Co.

شركة عصام قباني وشركاه للتجارة

EGYPT

UNITECH Egypt for Building Materials

شركة يونيتك مصر لمواد البناء

JORDAN

Jordan Build Co. for Building & Construction Materials

شركة بناء الأردن لمواد الإنشاء والتعمير والكهرباء

LEBANON

UNITECH ME s.a.r.l

شركة يونيتك ميدل إيست ش.م.م

SFSP CUSTOMER SERVICE CALL CENTER

KSA

+966 13 8590097, Ext. 3214

UAE

+971 4 8181925, Ext. 4269



IKK

Group of Companies

The IKK Group is a major business institution, serving most of the Arab World in the industrial, construction and trading fields, as well as in specialized maintenance and services.

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

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

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

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

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

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

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

UNITECH

ISAM KABBANI & PARTNERS FOR BUILDING & CONSTRUCTION MATERIALS

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

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

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

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

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

Our Vision

UNITECH to be the Customer's First Choice.

Our Mission

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

- Providing Excellence in Services with Passionate and Educated Sales Force
- Strengthen Culture through Unified Sense of Purpose
- Innovative Product Range which is Customer Centric
- Reputable and Quality Service Company
- Attracting, Engaging and Retaining Talent

CABLE MANAGEMENT SYSTEMS

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

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

Cable Management Systems are economical wire and cable management systems designed to support and protect electrical wires and cables.

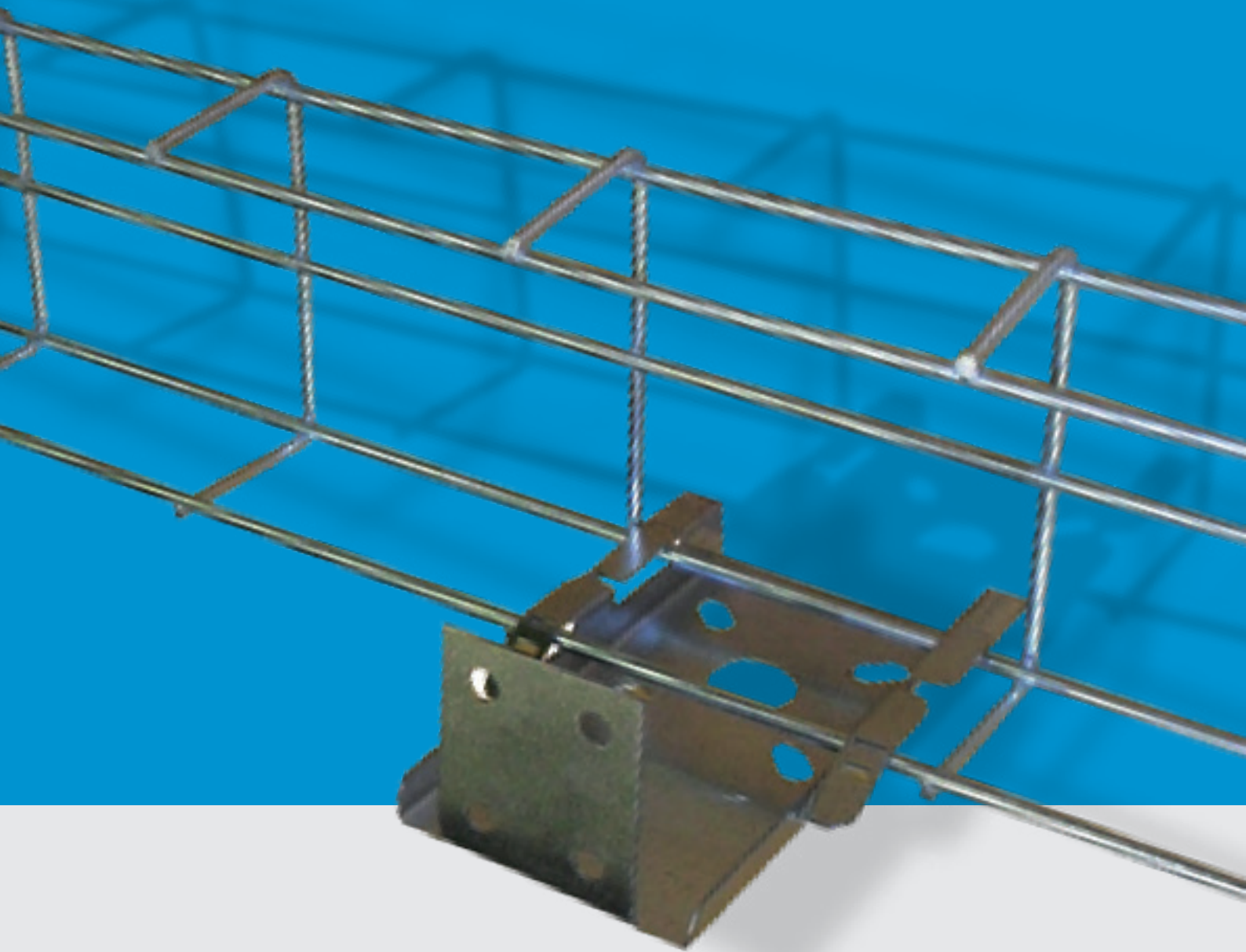
National Electric Code (NEC) permits Cable Trays in a wide variety of indoor and outdoor applications. The NEC also permits Cable Trays for use as equipment ground conductor.

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

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

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

- IEC 61537:2007	International Electrotechnical Commission
- BS EN 61537:2007	(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 - 2009	National Electrical Manufacturers Association. (Metal Cable Tray Systems)
- NEMA VE 2 - 2006	National Electrical Manufacturers Association. (Metal Cable Tray Installation Guide Lines)
- NEC (ANSI / NFPA 70)	National Electric Code (Metal Cable Tray Guide Lines)



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SYSTEM OVERVIEW



Classification DIN VDE 0639

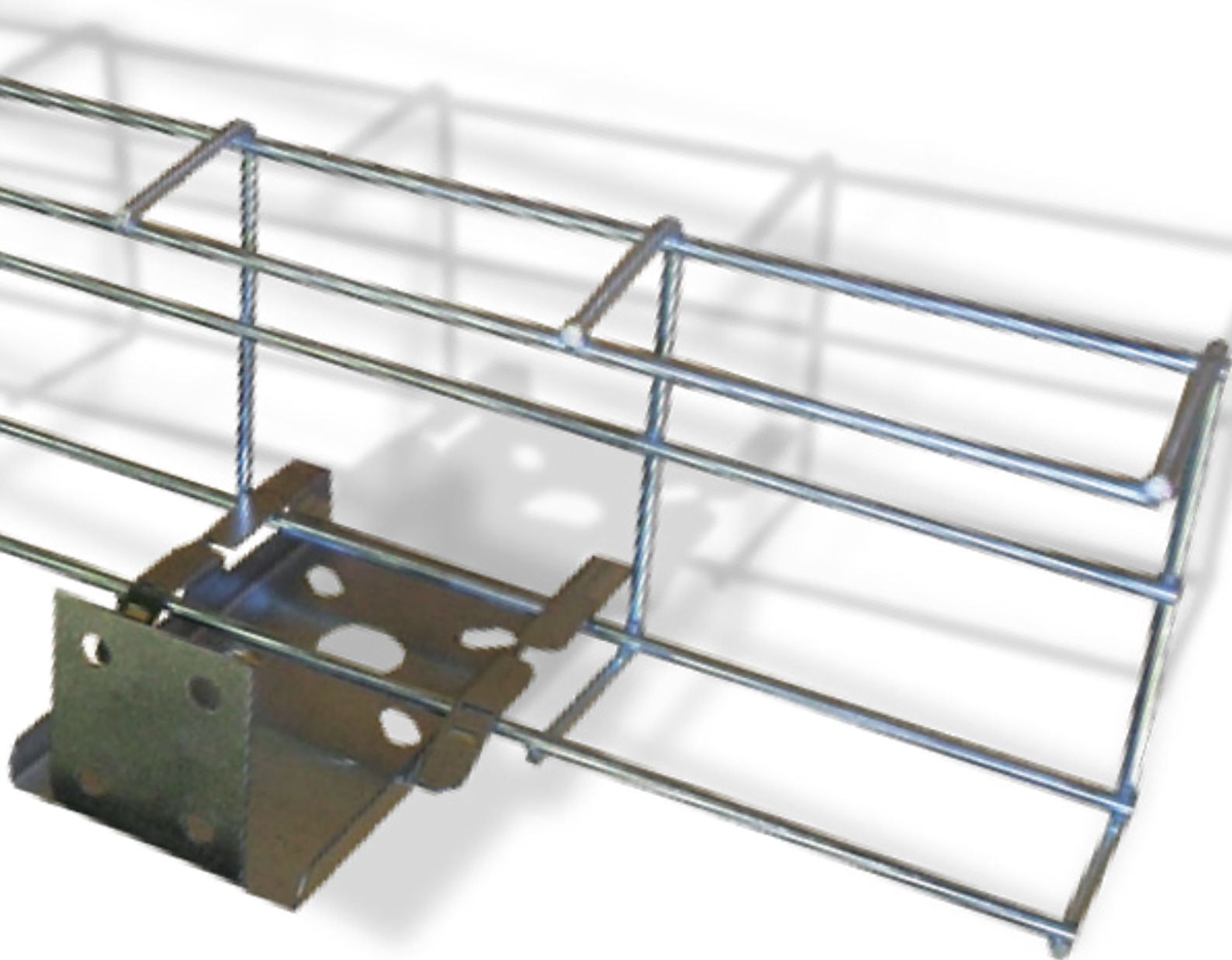
Temperature class:
–45° up to 150° C

Corrosive and harmful influences:
Medium resistance
High resistance
Solar radiation high resistance

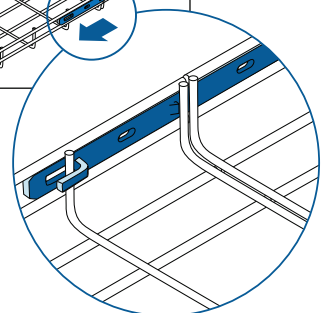
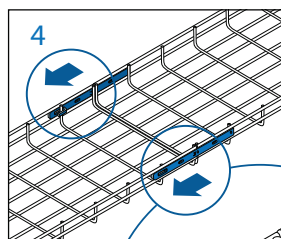
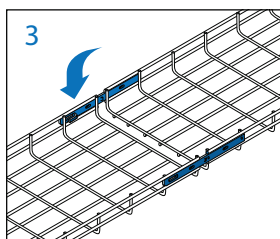
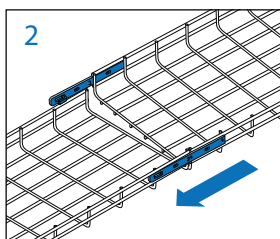
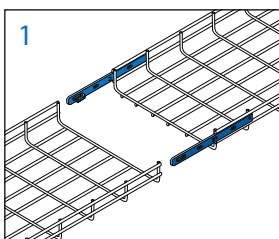
SFSP Basket Tray Systems and accessories from SFSP are manufactured in compliance with :

- | | |
|-------------------------|---|
| - IEC 61537 | International Electrotechnical Commission
(Cable management – Cable tray systems and cable ladder systems) |
| - SASO IEC (61537/2007) | Saudi Standard
(Cable management – Cable tray systems and cable ladder systems) |
| NEMA VE 1 - 2009 | National Electrical Manufacturers Association.
(Metal Cable Tray Systems) |
| - NEMA VE 2 - 2006 | National Electrical Manufacturers Association.
(Metal Cable Tray Installation Guidelines) |
| - NEC (ANSI / NFPA 70) | National Electric Code
(Metal Cable Tray Guide Lines) |

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 allows for fast snap together assemblies

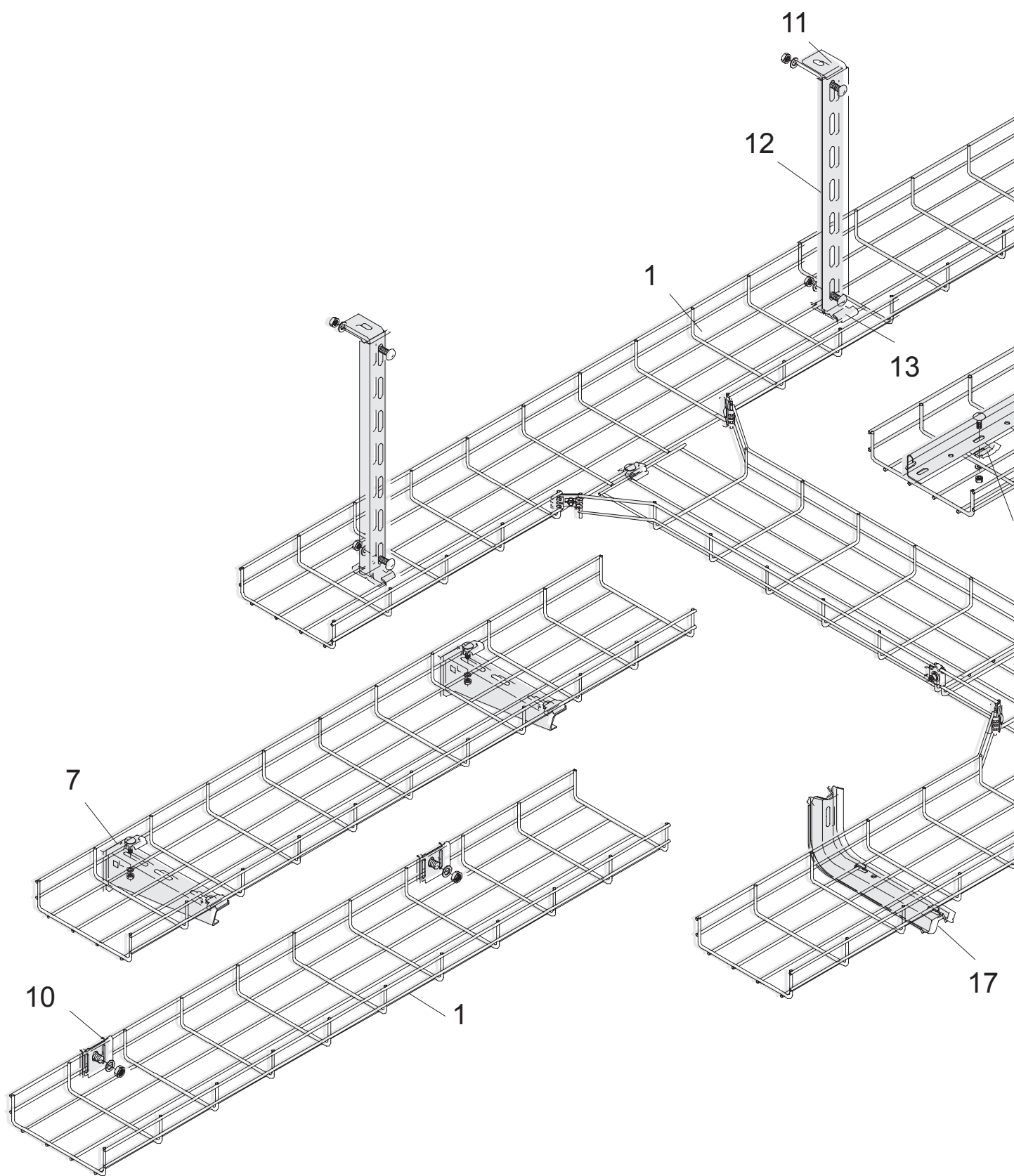


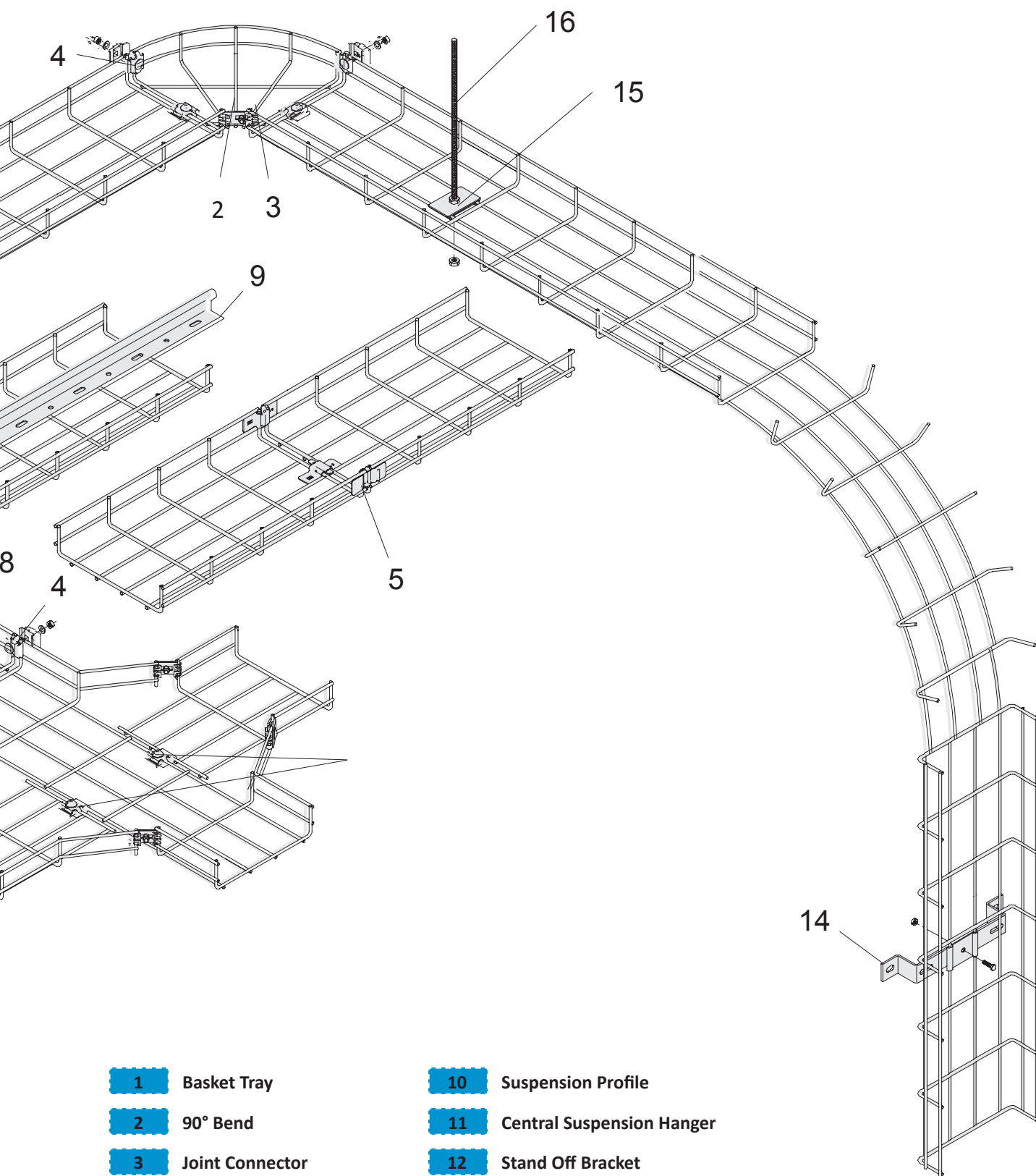
Step 1. Align the trays as shown.

Step 2. While raising the rear edge of the male connection, slide the tray forward, but do not engage the locking clip.

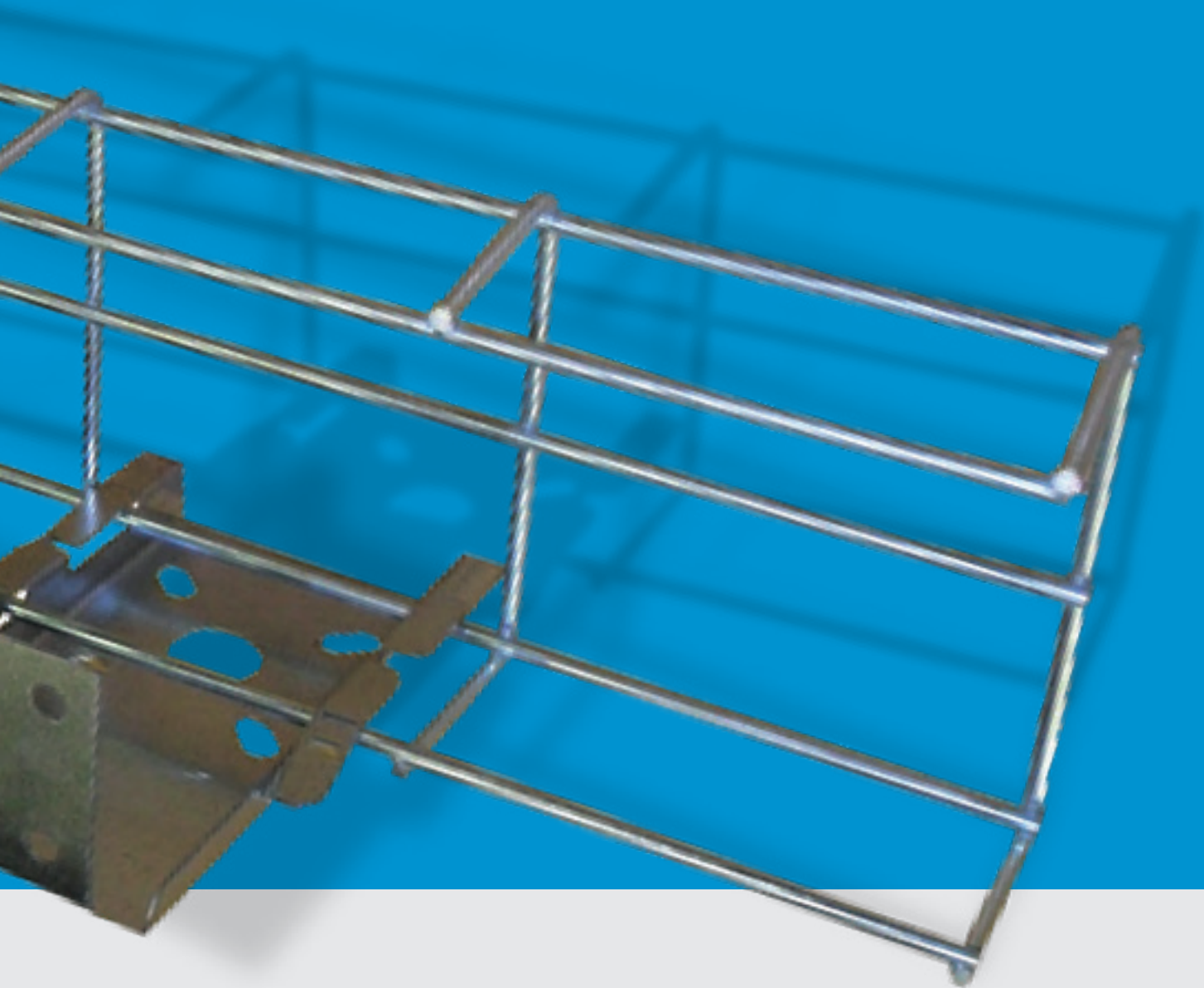
Step 3. Push the rear locking clip over the back edge of the tray.

Step 4. Slide the tray forward to engage both front and rear locking clips.





- | | | | |
|----------|-------------------------|-----------|----------------------------------|
| 1 | Basket Tray | 10 | Suspension Profile |
| 2 | 90° Bend | 11 | Central Suspension Hanger |
| 3 | Joint Connector | 12 | Stand Off Bracket |
| 4 | Quick Connector | 13 | Central Road Hanger |
| 5 | Corner Connector | 14 | Suspension Rod |
| 6 | Clamp | 15 | Thread Rod Hanger |
| 7 | Barrier Strip | 16 | Thread Rod |
| 8 | Wall Mounting | 17 | Bracket |
| 9 | Ceiling Angle | | |



RUNS



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Basket Trays

Height: 55 mm, 80 mm, 105 mm and 150 mm.
Materials: Stainless steel, hot-dip galvanized to DIN EN ISO 1461
Wire Ø: 4mm

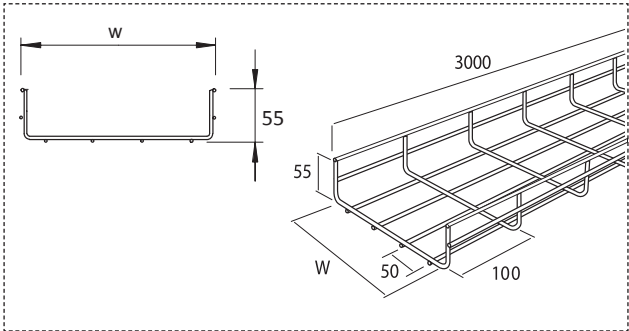
Basket Trays and accessories are also available in other dimensions and additional plastic coating upon request.

BT 55 | Height 55 mm

Width (mm)	(kg/m)
50	0.61
100	0.76
150	1.01
200	1.32
300	1.99

Width (mm)	(kg/m)
400	2.97
450	3.17
500	3.37
600	3.79

Order Example:
Item No - Length (l) - Width (w) - Material

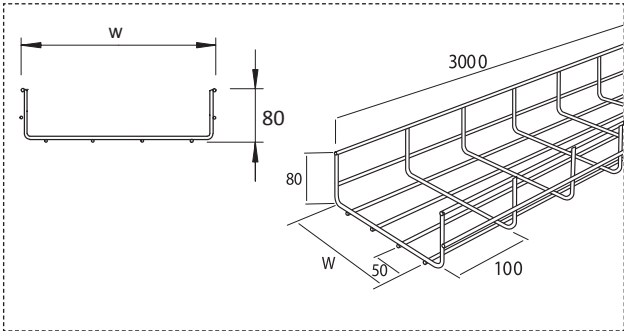


BT 80 | Height 80 mm

Width (mm)	(kg/m)
100	0.90
200	1.50
300	2.30
400	2.60
500	2.90

Width (mm)	(kg/m)
600	3.62

Order Example:
Item No - Length (l) - Width (w) - Material

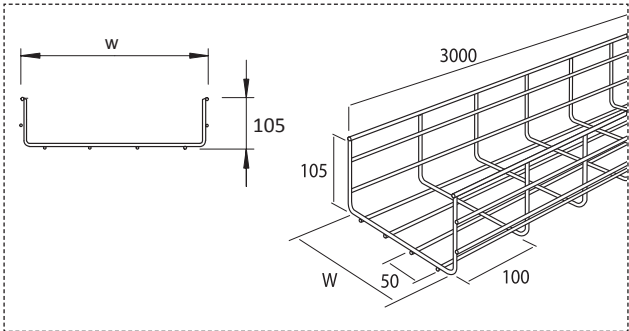


BT 105 | Height 105 mm

Width (mm)	(kg/m)
100	1.32
150	1.69
200	1.99
300	2.96
400	3.37

Width (mm)	(kg/m)
450	3.60
500	3.78
600	4.19

Order Example:
Item No - Length (l) - Width (w) - Material

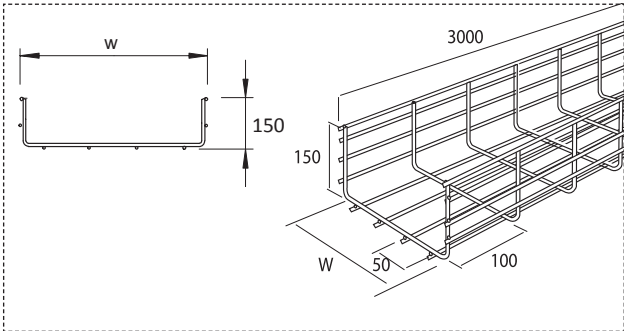


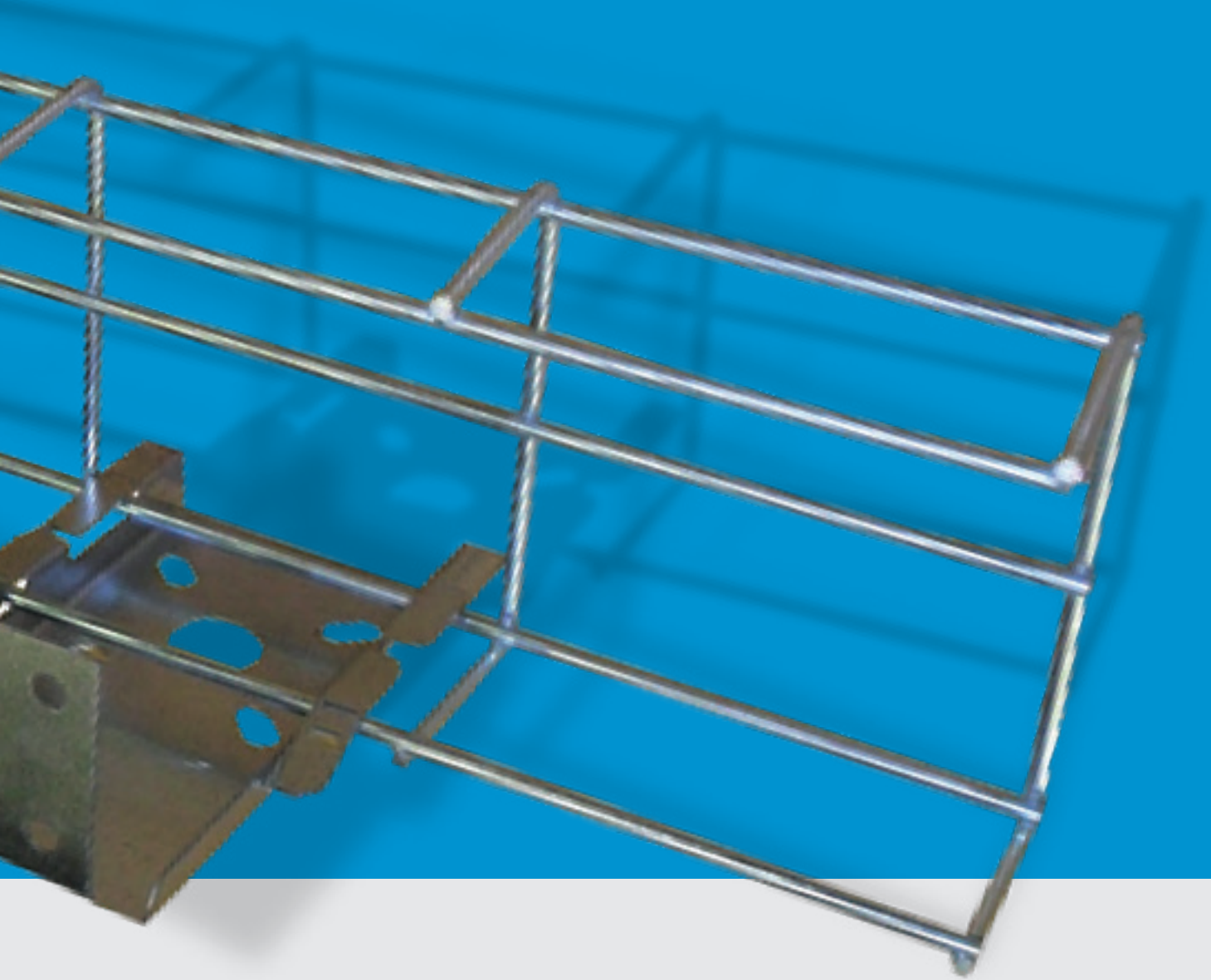
BT 150 | Height 150 mm

Width (mm)	(kg/m)
200	3.10
300	3.50
400	3.90
450	4.10
500	4.40

Width (mm)	(kg/m)
600	5.00

Order Example:
Item No - Length (l) - Width (w) - Material





FITTINGS



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90° Bends

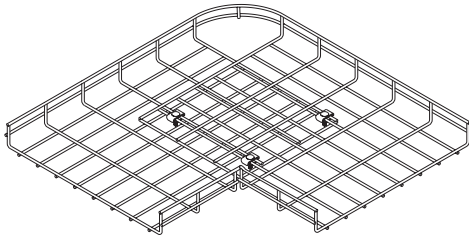
Heights: 55 mm, 80 mm, 105 mm and 150 mm.

Widths: 50 - 600

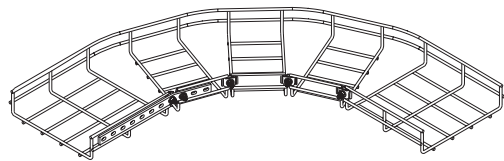
Materials: steel, hot-dip galvanized to DIN EN ISO 1461

90° Horizontal Bends

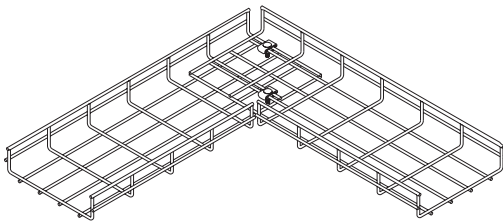
SHORT RADIUS | M105



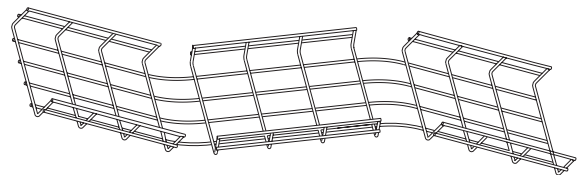
LONG RADIUS | M106



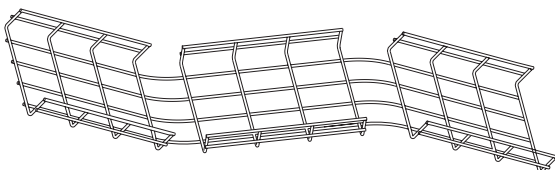
STRAIGHT SECTIONS | M107



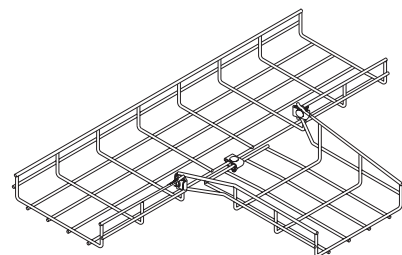
OUTSIDE INSIDE BENDS | M108



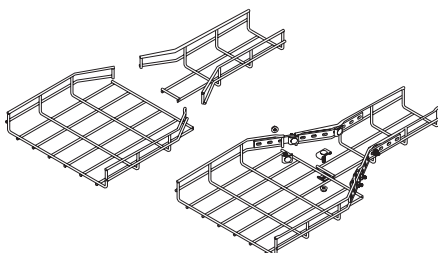
VERTICAL INSIDE BENDS | M108



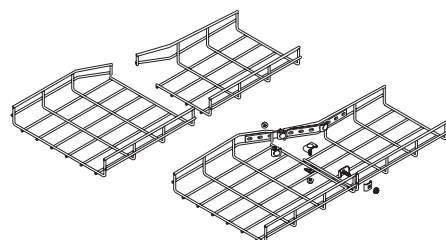
HORIZONTAL TEES (cross) | M109

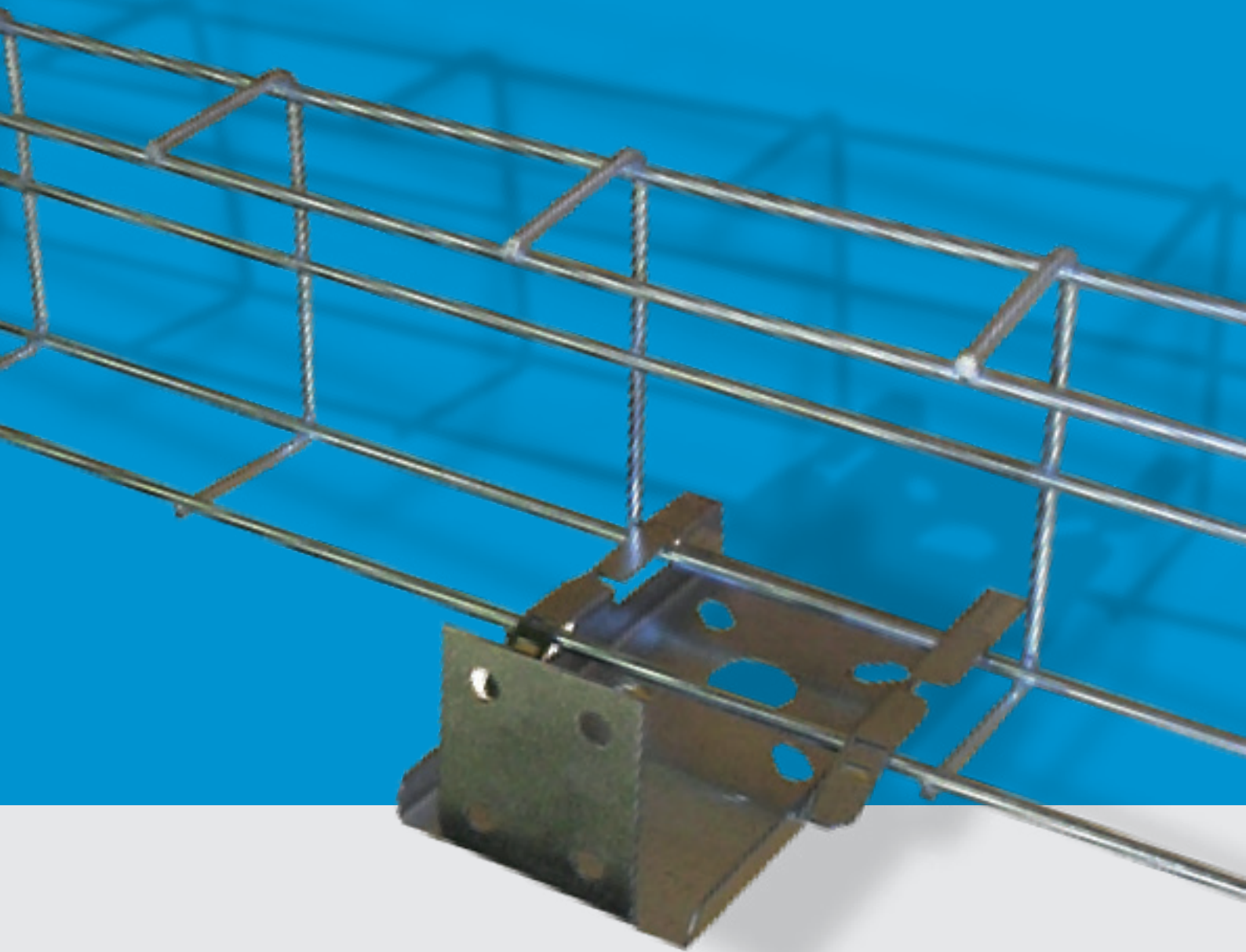


REDUCERS - Central Reducers | M110



Left & Right Reducers | M111





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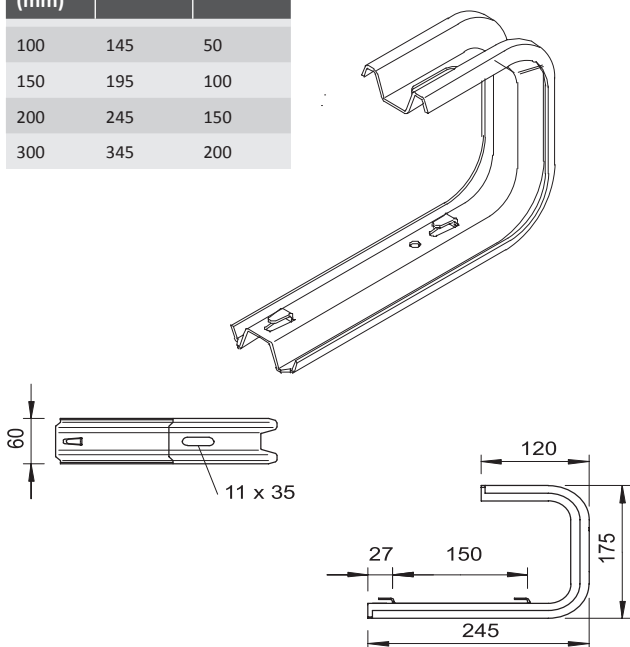


ACCESSORIES, SUPPORTS & FRAMING SYSTEMS

Brackets

"J" STYLE BRACKET | M112

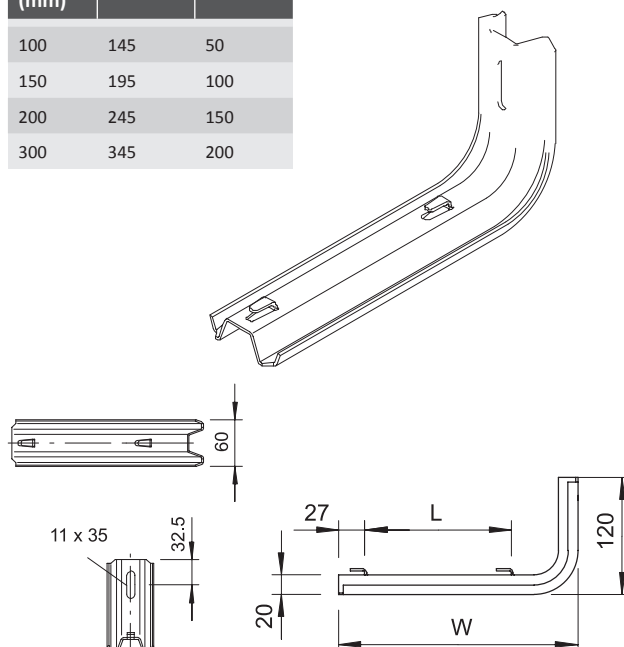
Basket Tray Width (mm)	W (mm)	L (mm)
100	145	50
150	195	100
200	245	150
300	345	200



Width (mm): 145, 195, 245 and 345
Materials: Steel, hot-dip galvanized to DIN EN ISO 1461

BRACKET | M113

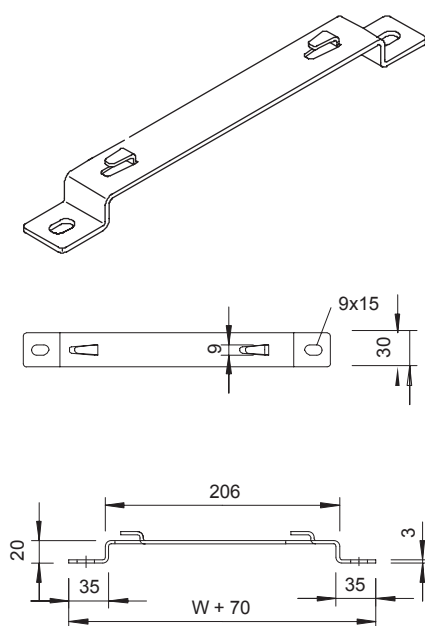
Basket Tray Width (mm)	W (mm)	L (mm)
100	145	50
150	195	100
200	245	150
300	345	200



Width (mm): 145, 245 and 345
Materials: Steel, strip galvanized to DIN EN 10147

SPACER BRACKET | M114

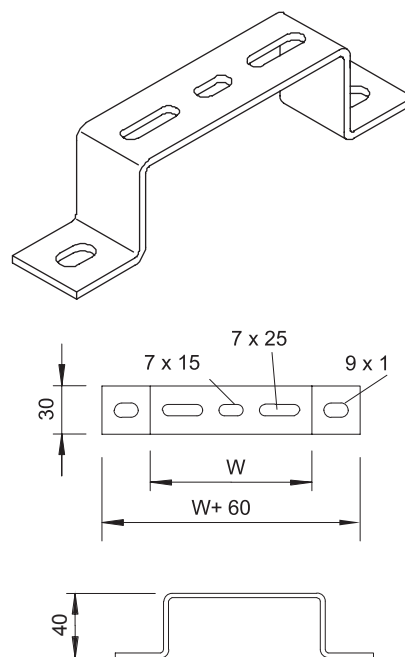
For floor-mounted Basket Trays and Cable Tray stands. Can also be used for wall mounting.



Materials: Steel, strip galvanized to DIN EN 10147

STAND-OFF BRACKET | M115

Base holder for Basket Tray with mesh 50 mm x 100 mm and suspension

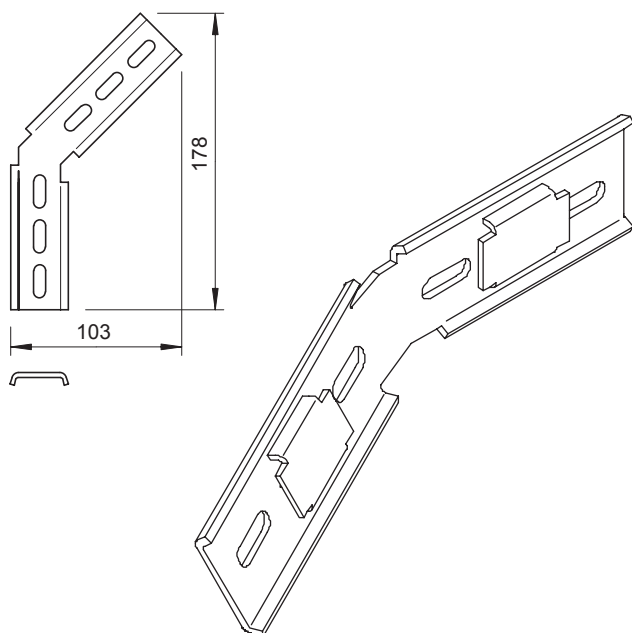


Widths (mm): 100, 150, 200, 300 and 400
Materials: Steel, strip galvanized to DIN EN 10147

Mounting Bracket

Connectors, for production of bends and Basket Trays
Steel strip galvanized to DIN EN 10147

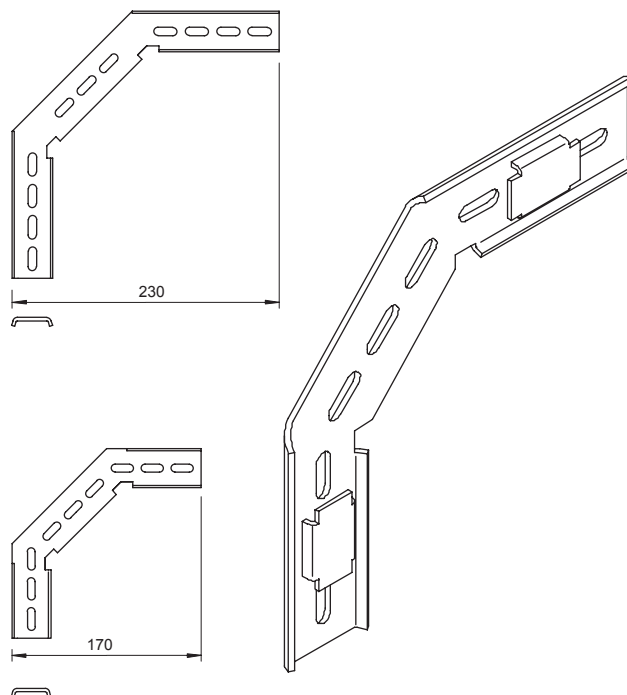
45° MOUNTING BRACKET | M116



Base holder for Basket Tray with mesh 50 mm x 100 mm and suspension

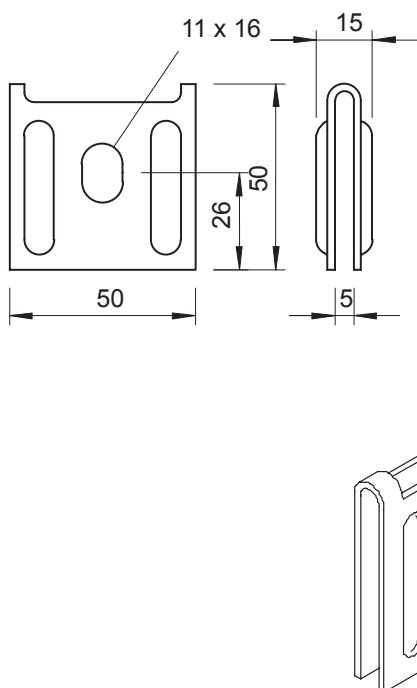
Materials: Steel strip galvanized to DIN EN 10147

90° MOUNTING BRACKET | M117



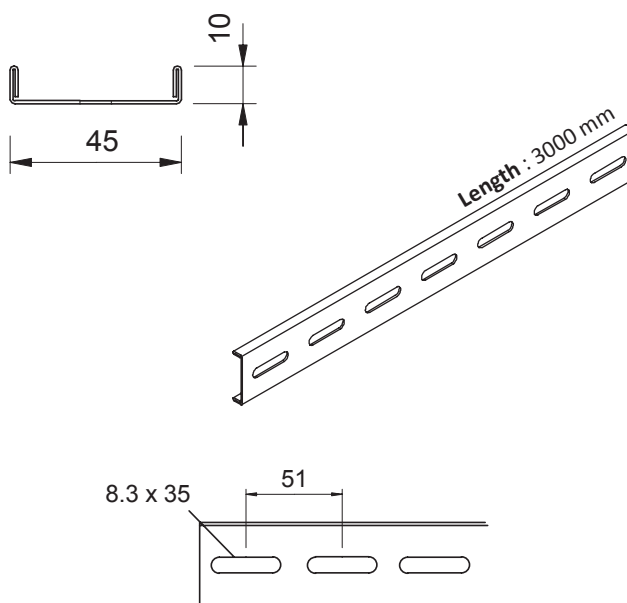
Materials: Steel strip galvanized to DIN EN 10147

WALL MOUNTING | M118



Materials: Steel strip galvanized to DIN EN 10147

SUSPENSION PROFILE | M119

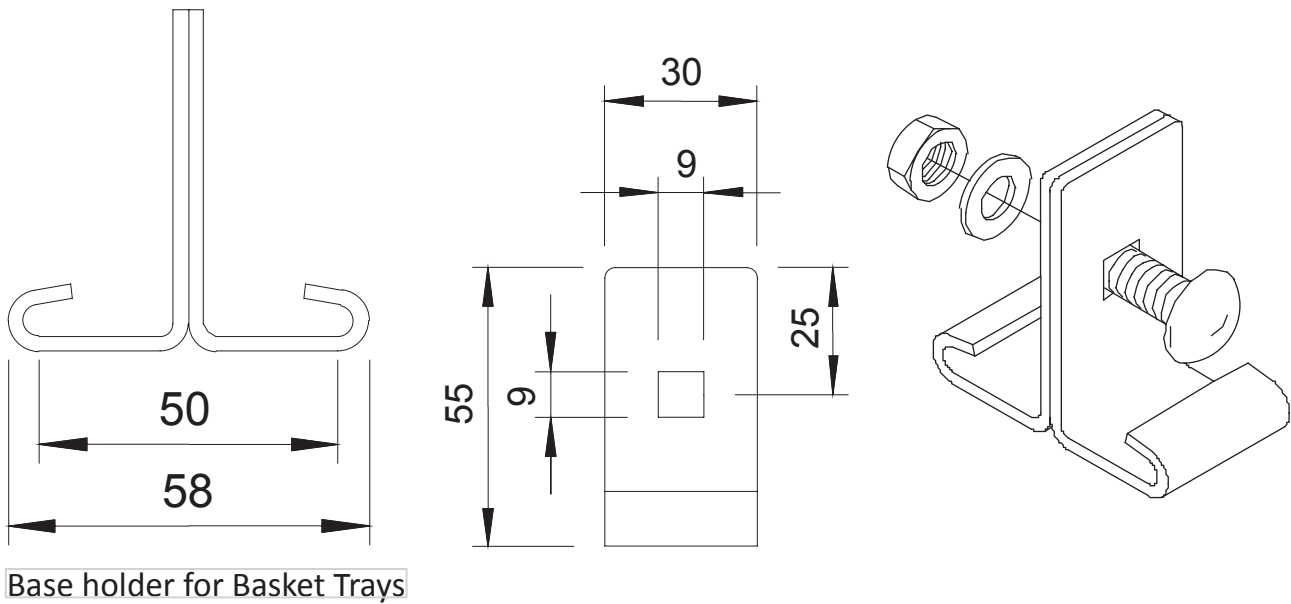


For connection between ceiling angle and base holder

Materials: Steel strip galvanized to DIN EN 10147

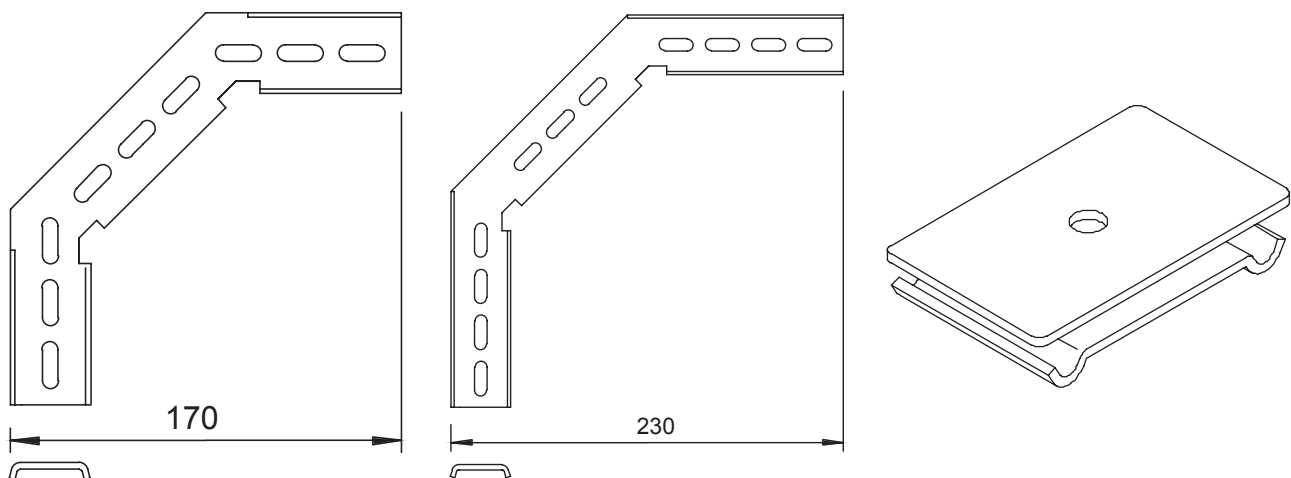
Central Hanger

SUSPENSION PROFILE TYPE | M120



Materials: Hot-dip galvanized steel to DIN EN ISO 1461

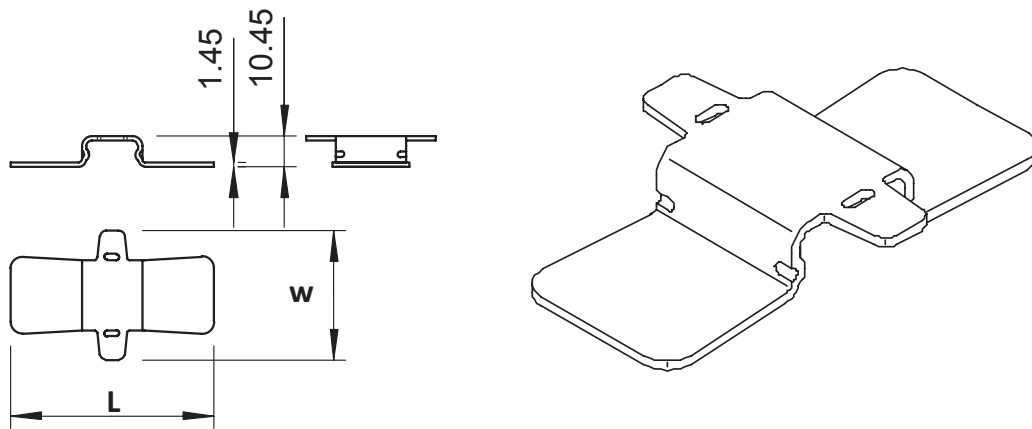
THREADED ROD HANGER | M121



For mounting of suspension profiles using a threaded rod
Materials: Hot-dip galvanized steel to DIN EN ISO 1461

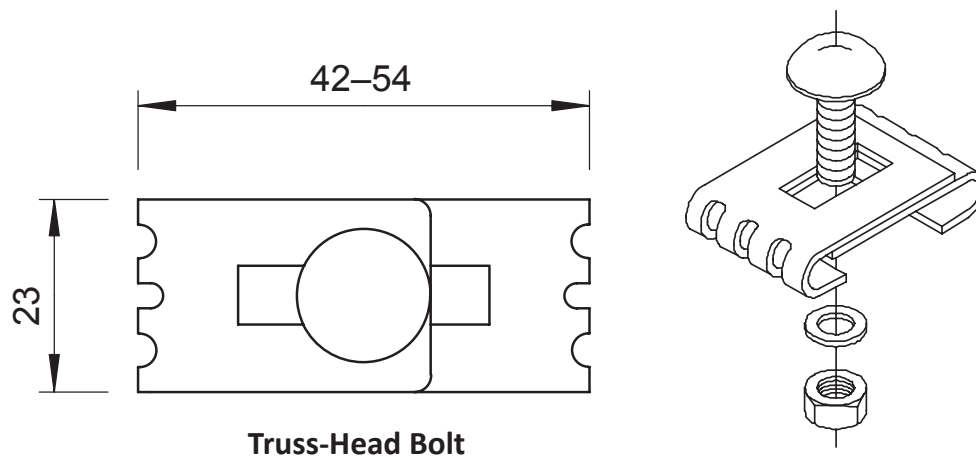
Connectors

QUICK CONNECTOR | CN101



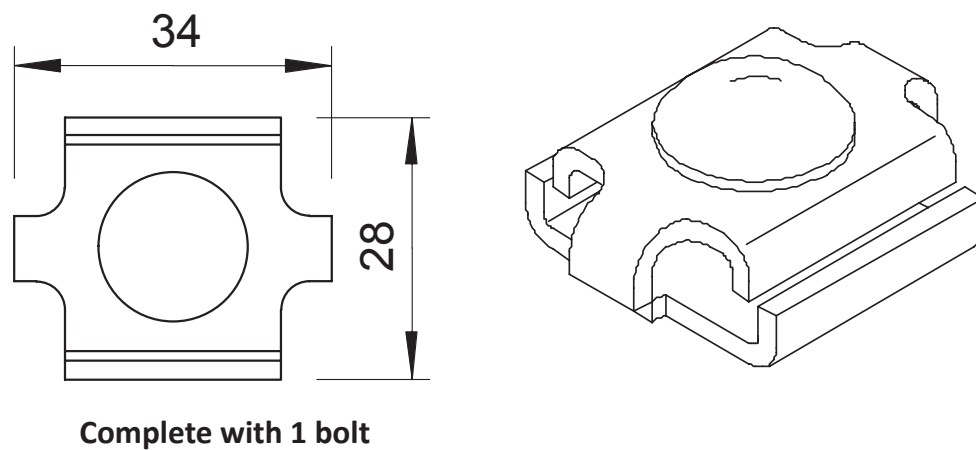
Materials: Hot-dip galvanized steel to DIN EN ISO 1461

CORNER CONNECTOR | CN102



Materials: Hot-dip galvanized steel to DIN EN ISO 1461

JOINT CONNECTOR | CN103

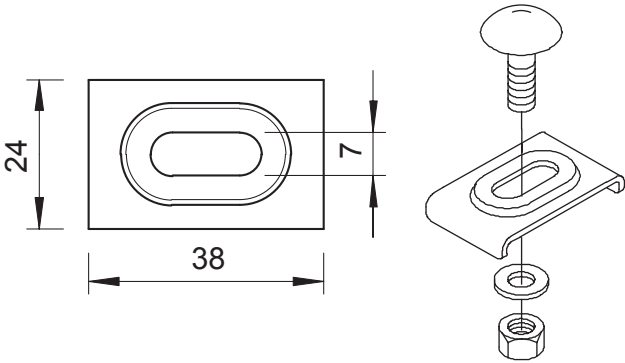


Materials: Hot-dip galvanized steel to DIN EN ISO 1461

Clamps

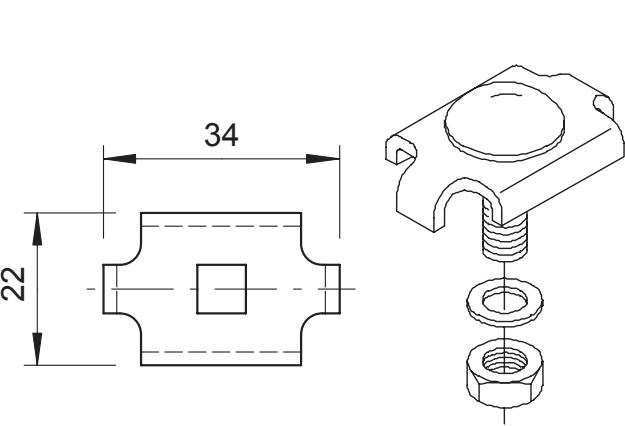
CL100

For barrier strip mounting in Basket Tray
Materials: Hot-dip galvanized steel to DIN EN ISO 1461



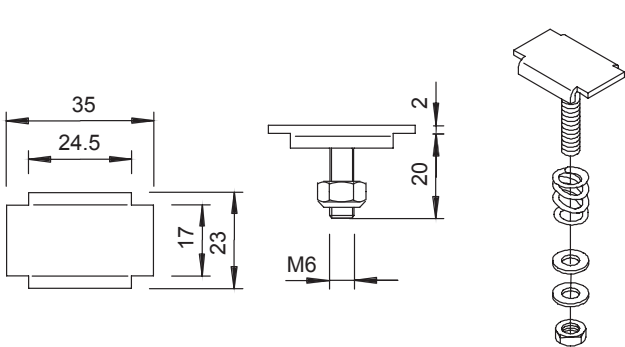
CL200

For mounting Basket Tray to wall or support brackets
Materials: Hot-dip galvanized steel to DIN EN ISO 1461



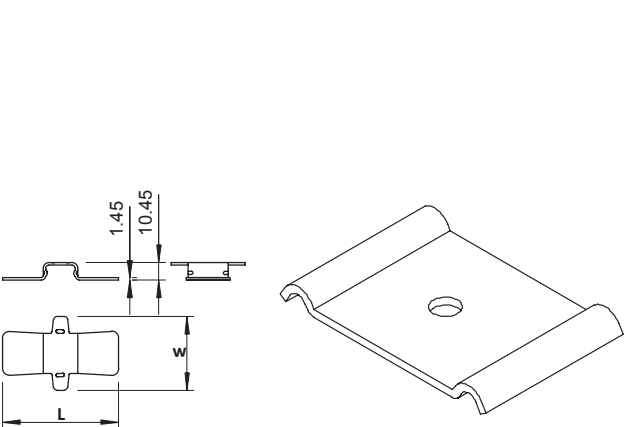
CL300

For mounting Basket Tray to wall or support brackets
Materials: Hot-dip galvanized steel to DIN EN ISO 1461



CL200

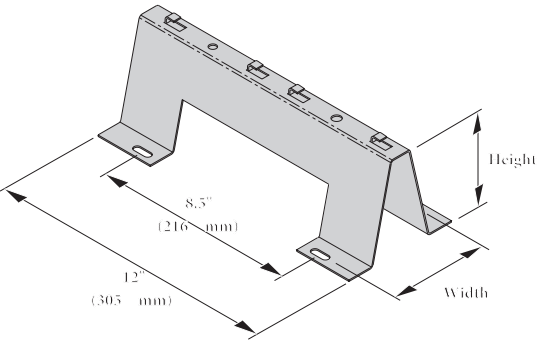
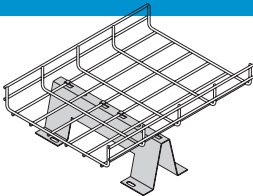
For mounting Basket Trays on the floor or on stand off brackets
Materials: Hot-dip galvanized steel to DIN EN ISO 1461



UNDER - FLOOR STAND | M122

- No hardware required to mount wire basket to bracket.
- Simply bend tabs down around wires using a screwdriver.

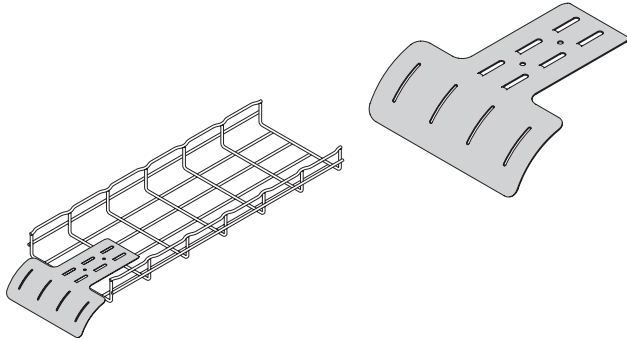
Materials: Hot-dip galvanized steel to DIN EN ISO 1461
Order Example: Item No - Length (l) - Width (w) - Material



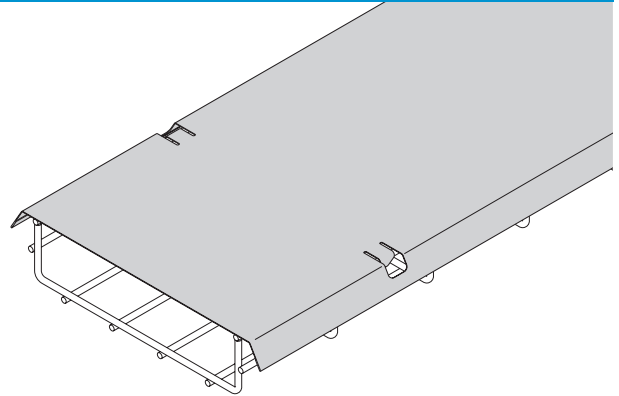
HEIGHT		WIDTH	
in.	mm	in.	mm
3	76	3.69	94
4	102	4.14	106
5	127	4.59	117
6	152	5.04	128

DROP-OUT FITTING | M123

- Keeps cable radius secure at drop point
- For use with 4" (100 mm) to 24" (600 mm) wide trays
- Attaches to tray without hardware
- Drop - outs can be attached at bottom, side or ends of tray



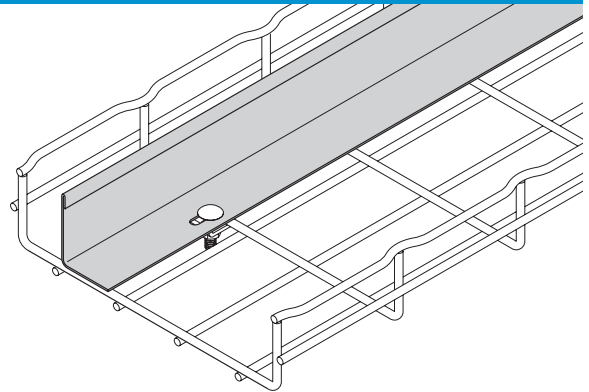
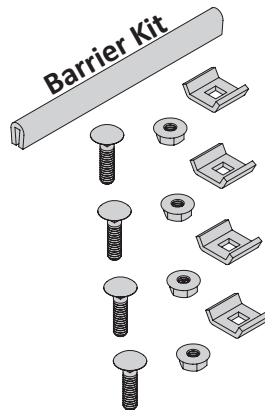
COVER | M124



Materials: Hot-dip galvanized steel to DIN EN ISO 1461

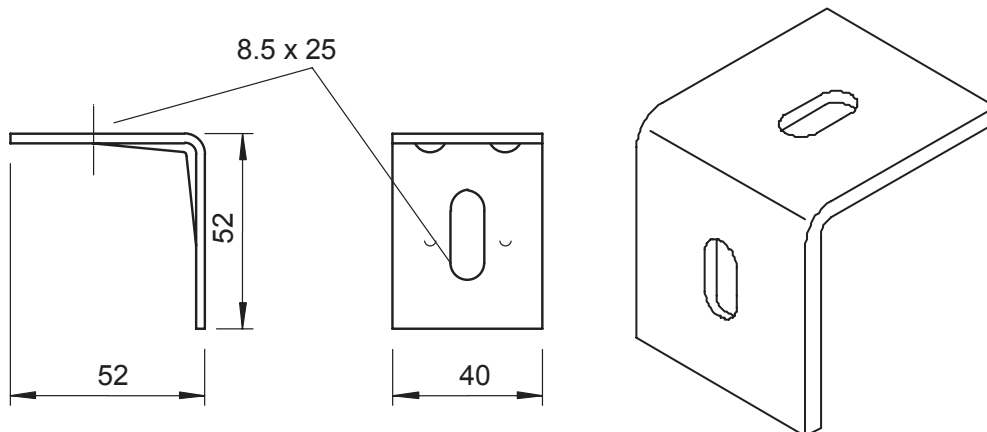
BARRIER | M125

- Separates cables.
- Furnished with barrier kit (includes hardware).
- Length: 3000 mm



CEILING ANGLE | M126

Materials: : Steel strip galvanized to DIN EN 10147
Hot-dip galvanized Steel to DIN EN ISO 1461



Framing System

ASTM F436

Washers (SRW) | DIN 125 | ASTM F436

Zinc Plated	Stainless Steel	D	d	S
		(mm)	(mm)	(mm)
M6	M6	12	6.4	1.6
M8	M8	16	8.4	1.6
M10	M10	21	10.5	2
M12	M12	24	13	2.5
M16	M16	30	17	3
M18	M18	34	19	3.2
M20	M20	39	20.5	3.6



Round Washers DIN 440, DIN 9021

Washers (SRW) | DIN 440 | DIN 9021

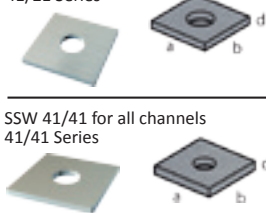
DIN	Zinc Plated	Stainless Steel	D	d	S
			(mm)	(mm)	(mm)
440	M6		22	6.6	2
9021	M8	M8	24	8.4	2
9021	M10	M10	30	10.5	2.5
440	M12		45	13.5	4
9021	M12	M12	37	13	3
9021	M16	M16	50	17	3



Square Washers SSW

Square Washers (SSW)

H.D. Galvanized Bolt	Stainless Steel Bolt	a x b x d	SSW 40/40 for all channels 41/21 Series
		(mm)	
M8	M10	40 x 40 x (4-5-6)	SSW 41/41 for all channels 41/41 Series
M10	M12	40 x 40 x (4-5-6)	
M12	M16	40 x 40 x (4-5-6)	



Fully Threaded Rods Grade 4.6 DIN 975 ASTM A 36, A193

Threaded Rod (STR) - DIN 975 - ASTM A36

Zinc Plated Thread	Length	Load cap.
	(mm)	(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



Round Head Machine Screws

Round Head (SRH) | DIN 7985

Zinc Plated Thread	Length	d
	(mm)	(mm)
M6	30-40	6.0
M8	30-40	8.0
M10	20-60	10.0



Coupler Sleeves Rounded

Coupler Sleeves (SCS)

Electro-plated Thread	Stainless Steel Thread	D	L	Load Capacity
		(mm)	(mm)	(kN)
M6	M6	10/10	15	2.2
M8	M8	12/14	20	4.0
M10	M10	13/16	25	6.4
M12	M12	16/20	30	9.3
M16	M16	21/25	40	17.3
M20	M20	26/32	50	27.0



Roofing Bolts

Roofing Bolts (SRB)

- Materials : low carbon steel , carbon steel
- Steel S235 , grade 4.6 , 4.8 and 8.8
- Surfaces : plain , black and zinc plated
- Length = X (mm) – Y (mm)



Thread Size	M4 x - y	M5 x - y	M6 x - y	M8 x - y
	(mm)	(mm)	(mm)	(mm)
Length	10 - 50	10 - 80	12 - 120	16 - 150

Hexagon Nuts DIN 934, DIN EN 24032, ASTM A 563

Hexagon nut (SHN) | DIN 934 or ISO 4032
(= DIN EN 24032) | ASTM A563

Zinc Plated Thread	Stainless Steel Thread	S/m DIN	S/m ISO	e
		(mm)	(mm)	(mm)
M6	M6	10/5	10/6	11.5
M8	M8	13/6.5	13/7.5	15.0
M10	M10	17/8	16/9.5	19.6
M12	M12	19/10	18/12	21.9
M16	M16	24/13	24/15.5	27.7
M18	M18	26/16	26/16	22.0
M20	M20	30/18	29/20.5	27.0



Carriage Bolts with Nut Below Head DIN 603

Carriage Bolts (STC)



Zinc Plated	H.D. Galvanized Grade 4.6	Head	Head	Square Width	Square Depth
(E)	(E)	(A) mm	(H) mm	(O) mm	(P) mm
M5	M5	12.0	3.0	5.0	3.2
M6	M6	15.1	3.70	6.40	4.0
M8	M8	18.3	4.50	8.23	4.75
M10	M10	21.44	5.30	9.86	5.56
M16	M16	34.14	8.74	16.3	8.74

Hexagonal Rod Coupler Grade 8.8 ASTM a 563

Hexagonal Rod Coupler with view hole (SHR)

Electro-plated Thread	Stainless Steel Thread	D	L	Load capacity
		(mm)	(mm)	(kN)
M10	M10	13	40	6.4
M12	M12	17	40	9.3
M16	M16	22	50	17.3
M 18	M 18	23	60	22.0
M 20	M 20	25	70	27.0
M18	M18	26/16	26/16	22.0
M20	M20	30/18	29/20.5	27.0



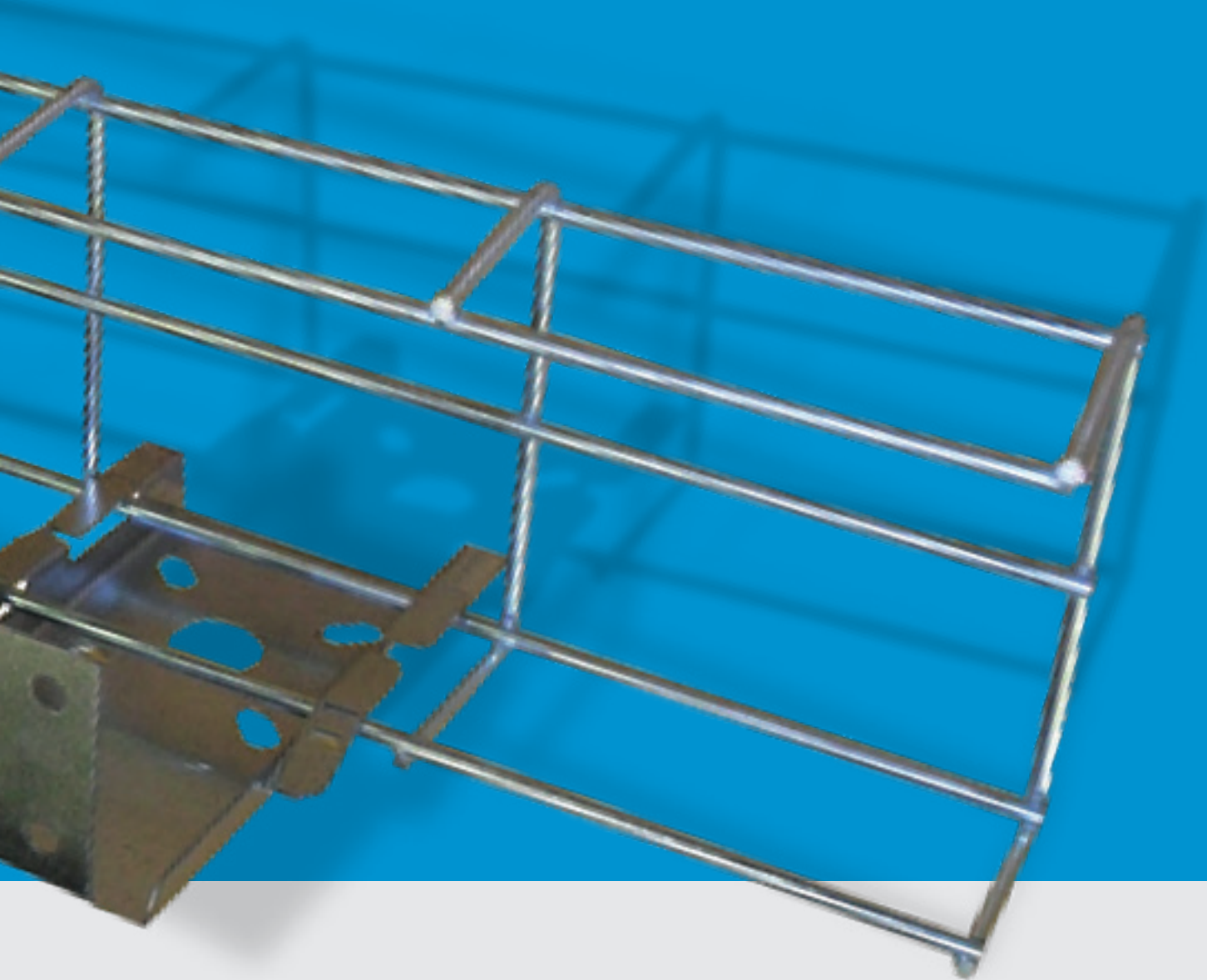
DIN 933, DIN 24017, ASTM A307, A449

Hex Head Bolt (SHB) | DIN 933 or EN 24017 ASTM A307, A449 (without nut)

Zinc Plated Dimension	Stainless Steel Dimension	S DIN	S EN
		(mm)	(mm)
M 6 x 12		10	10
M 6 x 25			
M 8 x 25	M 8 x 25	13	13
M 8 x 40			
M 10 x 20			
M 10 x 30	M 10 x 30	17	16
M 10 x 45	M 10 x 45		
M 10 x 60			
M 10 x 70			
M 12 x 22			
M 12 x 25	M 12 x 25		
M 12 x 30	M 12 x 30	19	18
M 12 x 40	M 12 x 40		
M 12 x 50			
M 12 x 60	M 12 x 60		
M 12 x 80	M 12 x 80		
M 12 x 90			

M 16 x 40	M 16 x 40		
M 16 x 60	M 16 x 60	24	24
M 16 x 90	M 16 x 90		
M 18 x 40	M 18 x 40		
M 18 x 50	M 18 x 50	27	26
M 18 x 60	M 18 x 60		
M 18 x 80	M 18 x 80		
M 20 x 40	M 20 x 40		
M 20 x 50	M 20 x 50	32	32
M 20 x 60	M 20 x 60		
M 20 x 80	M 20 x 80		





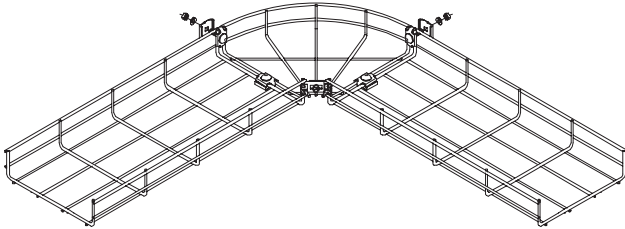
INSTALLATION



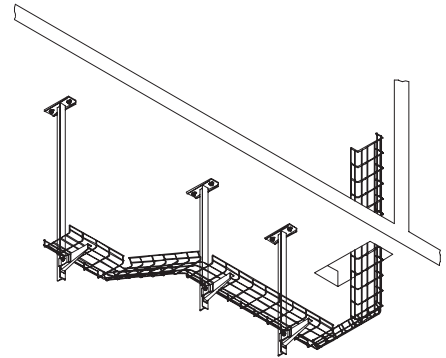
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Installation Example

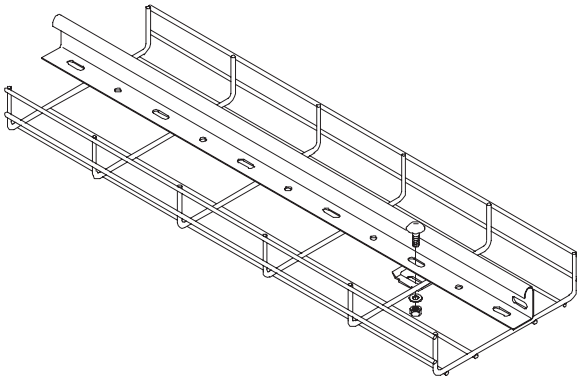
90° bend



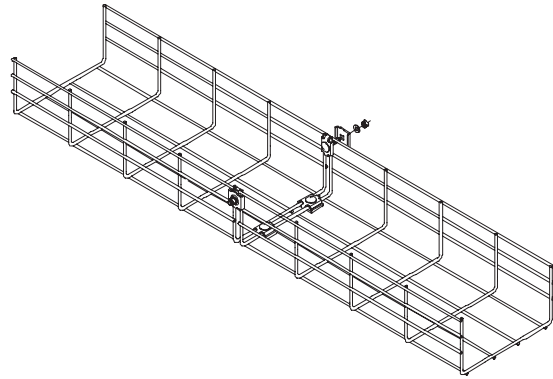
Ceiling suspension with vertical stages by cutting the side wires



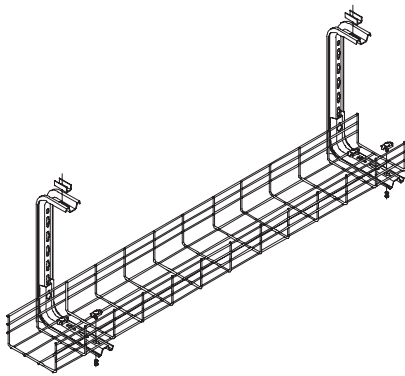
Barrier strip on mesh cable tray



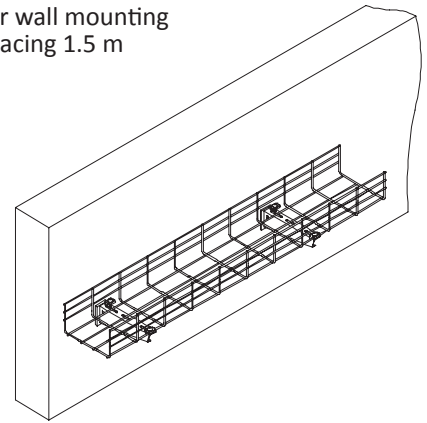
Straight connection of mesh cable trays



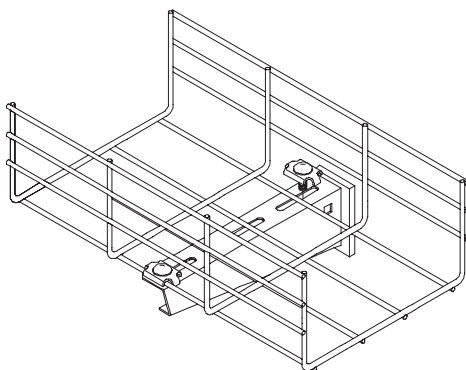
Support spacing Normal support spacing 1.5 m



Support spacing for wall mounting
Normal support spacing 1.5 m



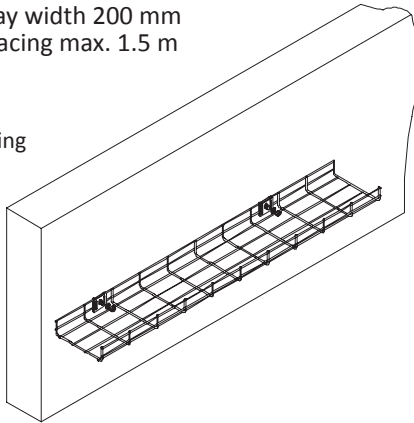
Bracket mounting



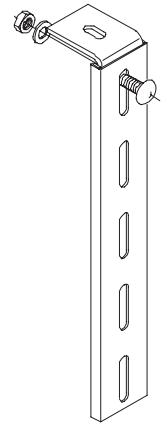
Installation Example

Only up to cable tray width 200 mm
Normal support spacing max. 1.5 m

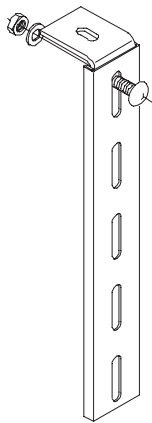
Wall
mounting



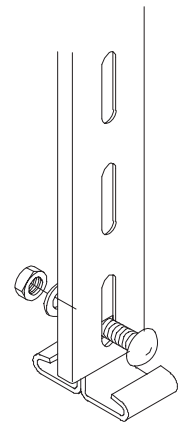
Ceiling mounting with ceiling angle,
suspension profile and central
suspension hanger



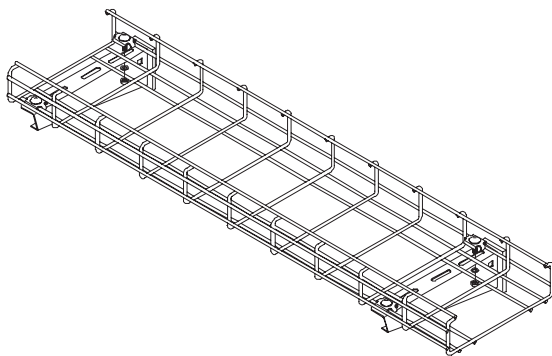
Mounting ceiling angle on suspensi-
on profile



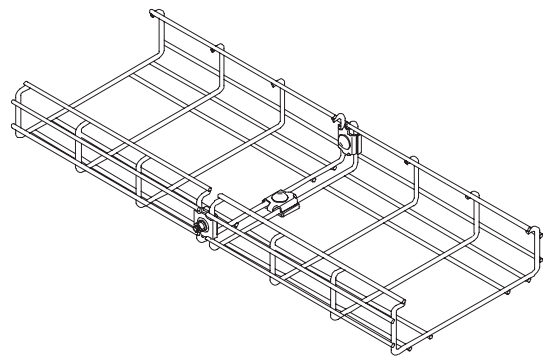
Base holder on suspension



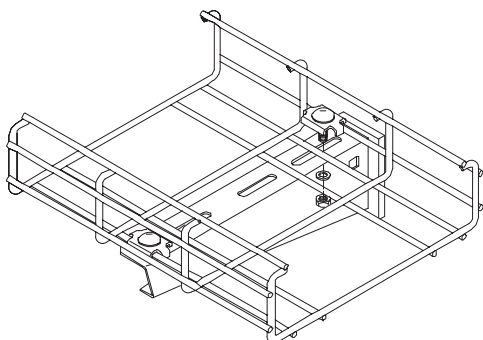
Wall bracket moun-
ting



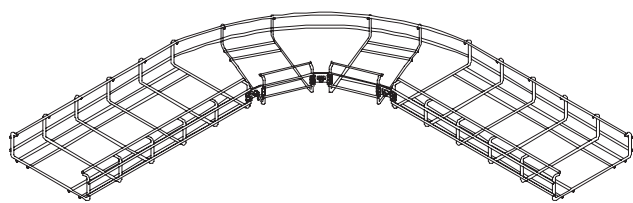
Straight connection of C mesh cable
trays



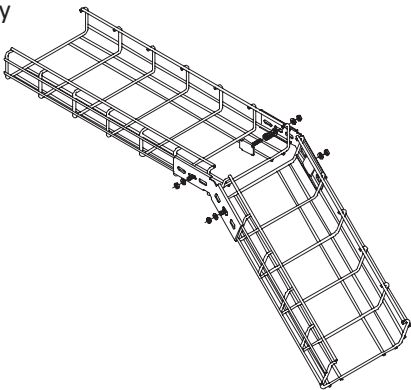
Mounting C mesh cable tray on
bracket



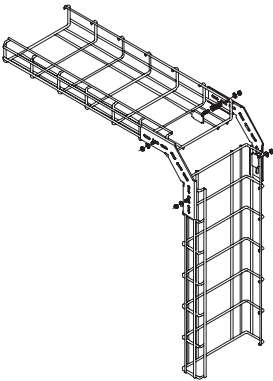
Making a horizontal bend using corner connectors Separation of base wires and inner side wires



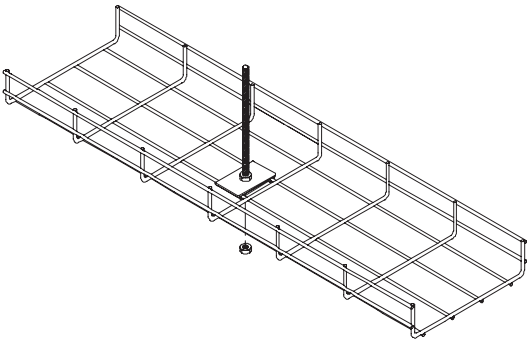
Fixing 45° mounting bracket to C mesh tray



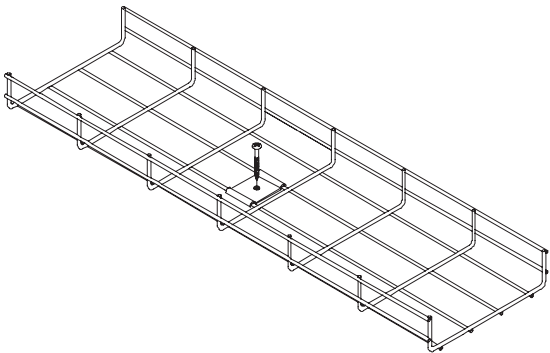
Fixing 90° mounting bracket to C mesh tray



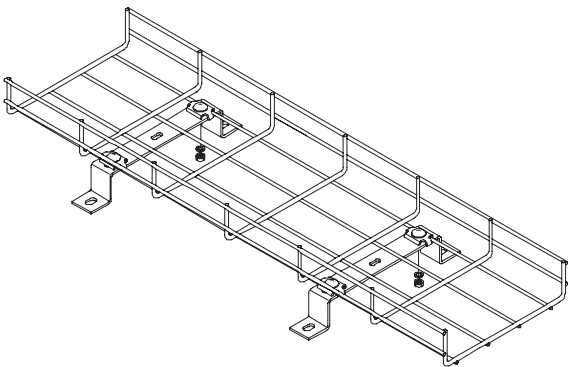
Centre suspension



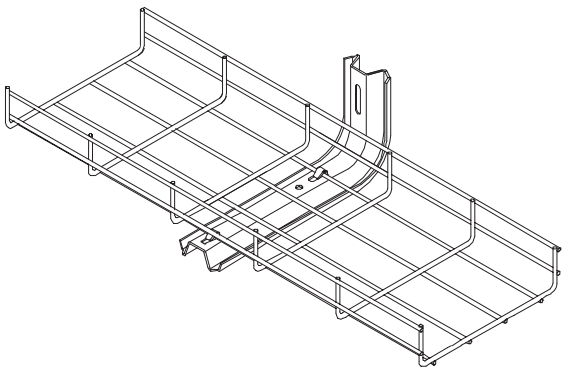
Floor mounting

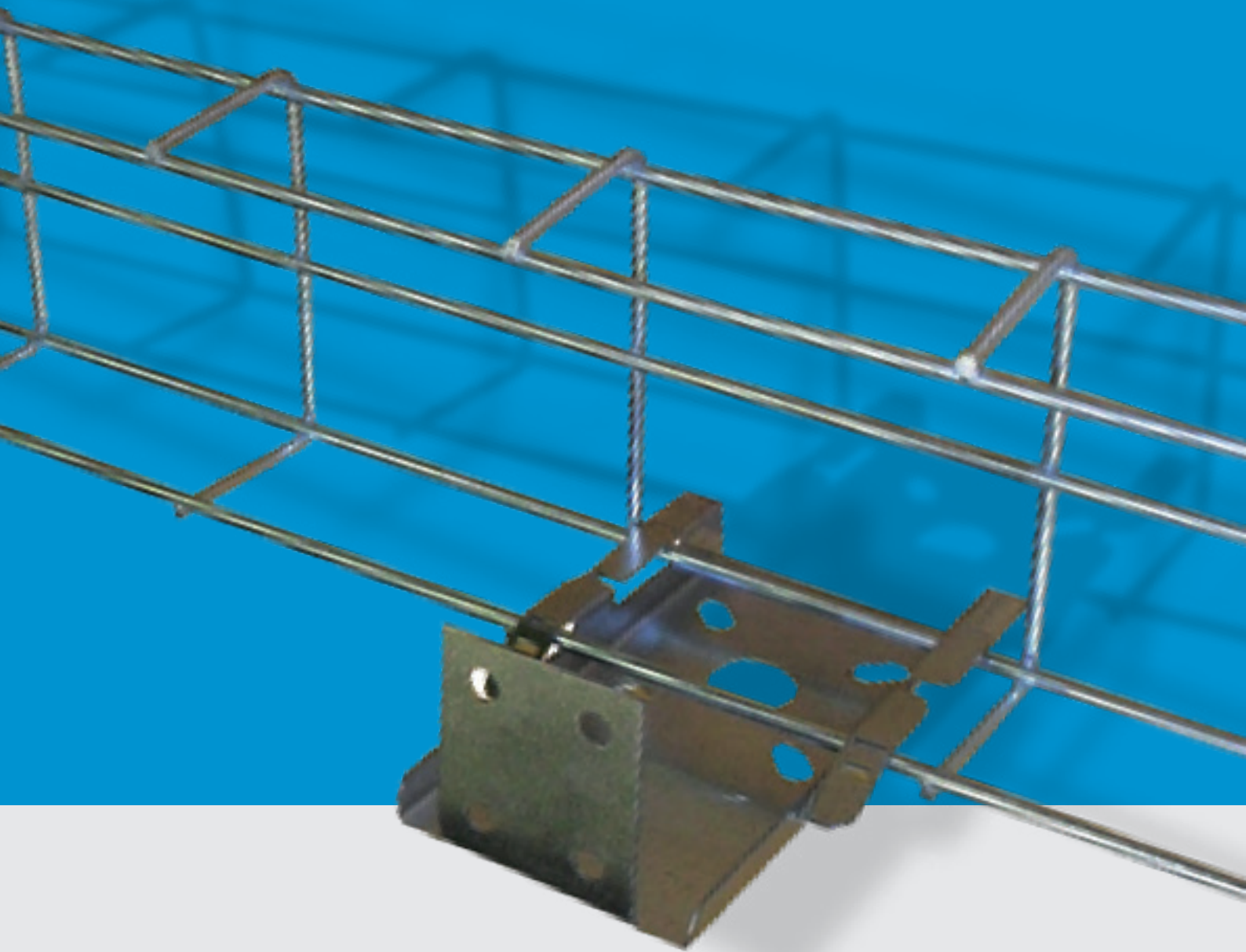


Mesh tray stands



Boltless mesh tray mounting





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LOCATIONS

LOCATIONS

KINGDOM OF SAUDI ARABIA

unitech.ksa@ikkgroup.com

Jeddah

Tel : +966 12 627 8222
Fax: +966 12 627 8722

Mak kah/Taif

Tel : +966 12 541 1206
Fax: +966 12 532 1675

Riyadh

Tel : +966 11 292 8200
Fax: +966 11 456 6627

Qassim / Buraidah

Tel : +966 16 382 3946
Fax: +966 16 385 2186

Skakah / Qurayyat

Tel : +966 14 626 3904
Fax: +966 14 626 3905

Tabuk

Tel : +966 14 423 5203
Fax: +966 14 423 5203

Khamis Mushayt

Tel : +966 17 237 5929
Fax: +966 17 237 8783

Gizan

Tel : +966 17 321 6660
Fax: +966 17 321 0665

Mad inah

Tel : +966 14 842 1095
Fax: +966 14 842 1090

Yanbu

Tel : +966 14 390 1499
Fax: +966 14 322 7101

Dammam

Tel : +966 13 859 0097
Fax: +966 13 857 8177

Jubail

Tel : +966 13 361 4390
Fax: +966 13 362 4499

Hofuf

Tel : +966 13 530 1474
Fax: +966 13 530 7144

FACTORIES

SFSP - KSA

sfsp.jeddah@ikkgroup.com

Specialized Factory for Steel Products
3rd Industrial City / Jeddah

Tel: +966 12 637 4482
Fax: +966 12 636 1963

SFSP / UAE

sfsp.uae@ikkgroup.com

SIGMA Factory for Steel Products
DIC (Dubai Industrial City)

Tel : +971 4 818 1919

SFSP / Egypt

sfsp.cairo@ikkgroup.com

Specialized Factory for Steel Products
6th of October City Giza

Tel : +20 2 3820 6477
Fax: +20 2 3820 6036

SFSP / Lebanon

sfsp.lebanon@ikkgroup.com

Specialized Factory for Steel Products
Tanayel, Bekaa

Tel: +961 8 514 290
Fax: +961 8 514 291

BAHRAIN

unitech.bahrain@ikkgroup.com

Manama

Tel : +973 17 874 897
Fax: +973 17 789 470

KUWAIT

unitech.kuwait@ikkgroup.com

Kuwait City

Tel : +965 2 4924 937
Fax: +965 2 4924 938

UNITED ARAB EMIRATES

unitech.uae@ikkgroup.com

Dubai - Al Rashidiyah

Tel : +971 4 2591 773
Fax: +971 4 2591 774

Abu Dhabi - Musaffah

Tel: +971 2 552 3393
Fax: +971 2 552 5499

OMAN

unitech.oman@ikkgroup.com

Muscat

Tel : +968 24 591 006
Fax : +968 24 597 006

JORDAN

unitech.jordan@ikkgroup.com

Amman

Tel : +962 6 556 3030
Fax: +962 6 554 7911

Aqaba

Tel : +962 6 556 3030
Fax: +962 6 554 7911

PAKISTAN

unitech.pakistan@ikkgroup.com

Lahore - Punjab

Tel: +92 42 32301578

EGYPT

unitech.egypt@ikkgroup.com

Cairo 6th of October City

Tel : +20 2 3820 6477
Fax: +20 2 3820 6036

LEBANON

unitech.lebanon@ikkgroup.com

Beirut

Tel : +961 1 858 277
Fax: +961 1 858 276

ENGINEERING, DESIGN, MARKETING & MULTIMEDIA

Unitech Deutschland GmbH

Germany

unitech.germany@ikkgroup.com

Stuttgart

Tel : +49 711 6868 7222
Fax: +49 711 6868 7223

Multi-D s.a.r.l

Lebanon

multi-d@ikkgroup.com

Multi-d Beirut

Tel : +961 1 841 155
Fax: +961 1 841 156

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