



CABLE MANAGEMENT SYSTEMS

CABLE TRUNKINGS SYSTEM



www.unitech-ikk.com
www.sfsp-ikk.com
www.ikkgroup.com



UNITECH
For Building and Construction Materials

CABLE MANAGEMENT SYSTEMS
CABLE TRUNKINGS SYSTEM

PRODUCED BY



SPECIALIZED FACTORY FOR STEEL PRODUCTS
SIGMA FACTORY FOR STEEL PRODUCTS



Cable Trunkings System

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ABOUT UNITECH

Unitech Introduction

Unitech is a Saudi based Multinational Company providing building and construction solutions that is empowering the region's construction industry for the past 40+ years. We have been successfully providing solutions through mastering our main business activities: Design, Manufacture and Trade.



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

Mission

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

- Providing excellence in services with passionate & 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

Vision

To be the Customer's First Choice...

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 kingdom's 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 9001 : 2015
(Quality Management Systems)

Certificate SA09/2115
The management system of
Specialized Factory for Steel Products Co. Ltd. (SFSP)
Jeddah-Jazan Road, Industrial City No. 3, P.O. Box 50533, Jeddah, 21533, Saudi Arabia
has been assessed and certified as meeting the requirements of
ISO 9001:2015

For the following activities:
Manufacture and Sales of Steel Fabricated Products such as Cladding Fixation, Gypsum Board Accessories, Plastering Accessories, Galvanized and Aluminium Cable Trays and Ladders, Block Ladder, Pipe Hanger and Clamps, Channels and Garbage and Linen Chutes and Hot Dip Galvanization

This certificate is valid from 20 December 2018 until 20 December 2021 and remains valid subject to satisfactory surveillance audits. Recertification audit due a minimum of 60 days before the expiration date. Issue 4. Certified since 20 December 2009

Authorized by: 
SGS United Kingdom Ltd
Rosemary Business Park, Ellensway Port, Cheshire, CH9 3BN, UK
t: +44 (0)151 360-0000; f: +44 (0)151 360-0000; www.sgs.com
HC: SGS/001/2015-0019
Page 1 of 1

ISO 14001:2015

Certificate SA18/2591
The management system of
Specialized Factory for Steel Products Co. Ltd. (SFSP)
Jeddah-Jazan Road, Industrial City No. 3, P.O. Box 50533, Jeddah, 21533, Saudi Arabia
has been assessed and certified as meeting the requirements of
ISO 14001:2015

For the following activities:
Manufacture and Sales of Steel Fabricated Products such as Cladding Fixation, Gypsum Board Accessories, Plastering Accessories, Galvanized and Aluminium Cable Trays and Ladders, Block Ladder, Pipe Hanger and Clamps, Channels and Garbage and Linen Chutes and Hot Dip Galvanization

This certificate is valid from 4 October 2018 until 4 October 2021 and remains valid subject to satisfactory surveillance audits. Recertification audit due a minimum of 60 days before the expiration date. Issue 1. Certified since 4 October 2018

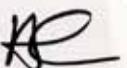
Authorized by: 
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t: +44 (0)151 360-0000; f: +44 (0)151 360-0000; www.sgs.com
HC: SGS/001/2019-0019
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ISO 45001 : 2018
(Occupational Health & Safety)

Certificate SA19/10111
The management system of
Specialized Factory for Steel Products Co. Ltd.(SFSP)
Jeddah-Jazan Road, Industrial City No. 3, P.O. Box 50533, Jeddah, 21533, Saudi Arabia
has been assessed and certified as meeting the requirements of
ISO 45001:2018

For the following activities:
Manufacture and Sales of Steel Fabricated Products such as Cladding Fixation, Gypsum Board Accessories, Plastering Accessories, Galvanized and Aluminium Cable Trays and Ladders, Block Ladder, Pipe Hanger and Clamps, Channels and Garbage and Linen Chutes and Hot Dip Galvanization

This certificate is valid from 19 February 2018 until 19 February 2022 and remains valid subject to satisfactory surveillance audits. Recertification audit due a minimum of 60 days before the expiration date. Issue 1. Certified since 19 February 2018

Authorized by: 
SGS United Kingdom Ltd
Rosemary Business Park, Ellensway Port, Cheshire, CH9 3BN, UK
t: +44 (0)151 360-0000; f: +44 (0)151 360-0000; www.sgs.com
HC: SGS/001/2018-0019
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STD 096
(Q-Mark Certificate)

Q-MARK CERTIFICATION
BMTRADA

UKAS
MANAGEMENT SYSTEMS
0005

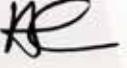
EXOVA
BMTRADA

14001 : 2015
(Environmental Management System)

Certificate SA18/2591
The management system of
Specialized Factory for Steel Products Co. Ltd. (SFSP)
Jeddah-Jazan Road, Industrial City No. 3, P.O. Box 50533, Jeddah, 21533, Saudi Arabia
has been assessed and certified as meeting the requirements of
ISO 14001:2015

For the following activities:
Manufacture and Sales of Steel Fabricated Products such as Cladding Fixation, Gypsum Board Accessories, Plastering Accessories, Galvanized and Aluminium Cable Trays and Ladders, Block Ladder, Pipe Hanger and Clamps, Channels and Garbage and Linen Chutes and Hot Dip Galvanization

This certificate is valid from 4 October 2018 until 4 October 2021 and remains valid subject to satisfactory surveillance audits. Recertification audit due a minimum of 60 days before the expiration date. Issue 1. Certified since 4 October 2018

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HC: SGS/001/2019-0019
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STD 096
(Q-Mark Certificate)

Q-MARK CERTIFICATION
BMTRADA

UKAS
PRODUCT CERTIFICATION
012

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 Manufacturer 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, (TA Exova BM TRADA), Chilham House, Stocking Lane, High Wycombe, Buckinghamshire, HP14 4BD, UK
Registered Office: Exova (UK) Ltd, Locheed Industrial Estate, Newbridge, Midlothian EH28 8PL, United Kingdom, Reg No. SC0049.
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 copies may be issued at the cost of the certificate holder. A copy 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 Multistate clients - The scope of certification shown above includes the participating sites shown on the registration schedule

Page 1 of 2

ISO 9001 : 2015
(Quality Management System)



Certificate of Registration

This is to certify that the Management System of:

Sigma Factory for Steel Products

P.O. Box 37991, Saif Suhail - 3, 4 Round About, Dubai Industrial City
Dubai, United Arab Emirates

has been approved by Alcumus ISOQAR and is compliant with the requirements of:

ISO 9001:2015



Certificate Number:	22244-Q15-001
Initial Registration Date:	23 February 2015
Previous Expiry Date:	22 February 2021
Recertification Date:	30 November 2020
Re-issue Date:	01 December 2022
Current Expiry Date:	22 February 2024

Scope of Registration:

Trading and Manufacturing of all kinds of Steel Related Construction Materials

Signed:
Alyn Franklin, Chief Executive Officer
(on behalf of Alcumus ISOQAR)

This certificate will remain current subject to the company maintaining its system to the required standard.
This will be monitored regularly by Alcumus ISOQAR. Further clarification regarding the scope of this certificate
and the applicability of the relevant standards' requirement may be obtained by consulting Alcumus ISOQAR.

OHSAS 45001 : 2018
(Health & Safety Management System)



Certificate of Registration

This is to certify that the Management System of:

Sigma Factory for Steel Products

P.O. Box 37991, Saif Suhail - 3, 4 Round About, Dubai Industrial City
Dubai, United Arab Emirates

has been approved by Alcumus ISOQAR and is compliant with the requirements of:

ISO 45001:2018



Certificate Number:	22244-OHS-001
Initial Registration Date:	22 September 2015
Previous Expiry Date:	11 March 2021
Recertification Date:	11-12 July 2021
Re-issue Date:	01 December 2022
Current Expiry Date:	21 September 2024

Scope of Registration:

Trading and Manufacturing of all kinds of Steel Related Construction Materials

Signed:
Alyn Franklin, Chief Executive Officer
(on behalf of Alcumus ISOQAR)

This certificate will remain current subject to the company maintaining its system to the required standard.
This will be monitored regularly by Alcumus ISOQAR. Further clarification regarding the scope of this certificate
and the applicability of the relevant standards' requirement may be obtained by consulting Alcumus ISOQAR.

ISO 14001 : 2015
(Environmental Management System)



Certificate of Registration

This is to certify that the Management System of:

Sigma Factory for Steel Products

P.O. Box 37991, Saif Suhail - 3, 4 Round About, Dubai Industrial City
Dubai, United Arab Emirates

has been approved by Alcumus ISOQAR and is compliant with the requirements of:
ISO 14001:2015



Certificate Number:	22244-E15-001
Initial Registration Date:	22 September 2015
Previous Expiry Date:	21 September 2021
Recertification Date:	11-12 July 2021
Re-issue Date:	01 December 2022
Current Expiry Date:	21 September 2024

Scope of Registration:

Trading and Manufacturing of all kinds of Steel Related Construction Materials

Signed:
Alyn Franklin, Chief Executive Officer
(on behalf of Alcumus ISOQAR)

This certificate will remain current subject to the company maintaining its system to the required standard.
This will be monitored regularly by Alcumus ISOQAR. Further clarification regarding the scope of this certificate
and the applicability of the relevant standards' requirement may be obtained by consulting Alcumus ISOQAR.

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)
Saif Shuaib 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.

drs. G.J. Zoetbrood
Managing Director

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

Alcumus ISOQAR Limited, Alcumus Certification, Cobra Court, 1 Blackmore Road, Stevenage, Herts SG2 0QY
T: 0161 865 3669 F: 0161 865 3685 E: isoqar@alcumusgroup.com W: www.alcumusgroup.com/isoqar
This certificate is the property of Alcumus ISOQAR and must be returned on request.

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
Saih 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.

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
Saih 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.

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.



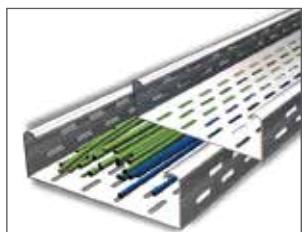
Cable Management Systems

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.



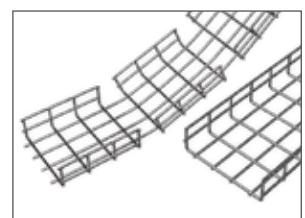
Cable Ladders (Welded & Swaged)

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.



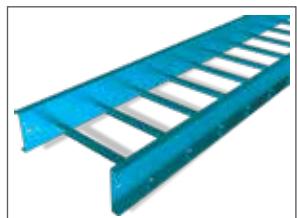
Underfloor Trunking

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.



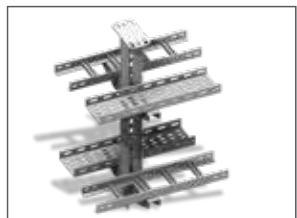
Fiberglass Reinforced Plastic (FRP) Cable Tray / Ladder

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 Shelves - Wall Framings.



Pipe Clamps & Hangers

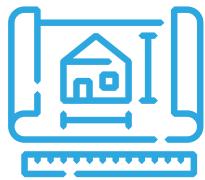
Pipe Clamps and Hangers from SFSP used in the support of pipes and equipments are manufactured according to the highest standards of fabrication. A diversified choice of Pipe Hangers, Pipe Clamps, EMT Straps, Omega Clamps, Beam Clamps, J and U-Bolts and Threaded Accessories.



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.



Aluminum 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

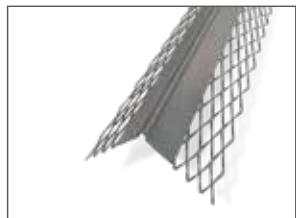
PIXEL Raised Access Flooring offers comprehensive solutions of High Tech Raised Access Flooring Systems for the construction industry. PIXEL Raised Access Flooring are manufactured according to most common international standards to meet the requirements of commercial, residential, governmental, transportation,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

BAHRAIN

Isam Kabbani Trading Est.

مؤسسة عصام قباني التجارية

UAE

Issam Kabbani Trading Company LL

شركة 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 والتعهير المحدودة

KUWAIT

Hassan Kabbani for General Contracting Est.

مؤسسة حسان قباني للمقاولات العامة لهاباني

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 CUSTUMER SERVICE CALL CENTER

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UAE

+971 4 8181925, Ext. 4269



TECHNICAL DATA

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.

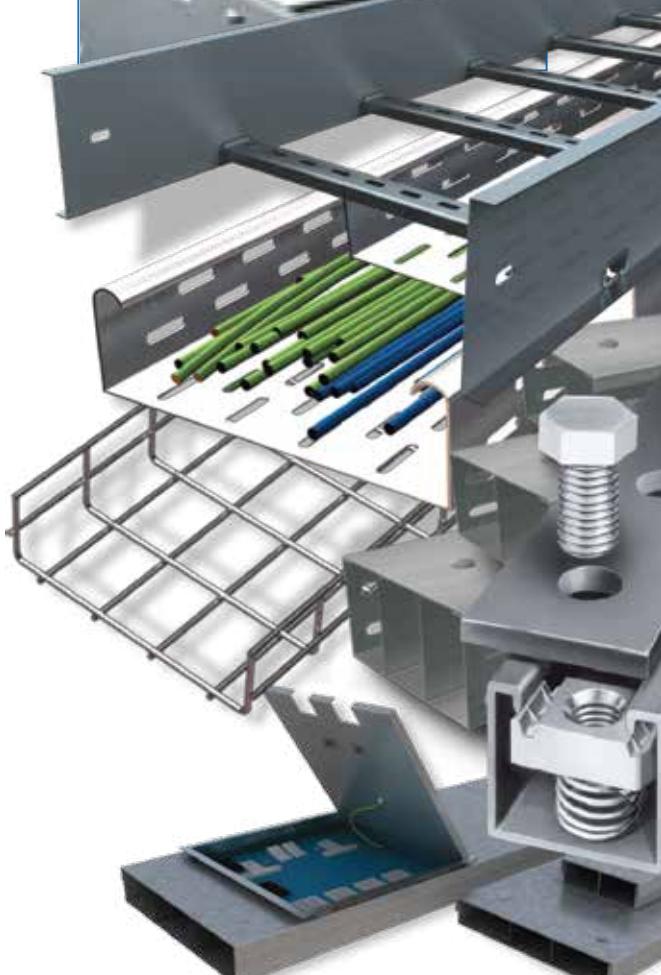
Cable Management Systems' types fittings and accessories from SFSP are manufactured in compliance with :

► IEC 61537:2006

► 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)



Technical Data

Specifications and Installation Guide

To comply with wiring regulations, the installer shall ensure that the trunking is not overfilled and acceptable pressure is applied to the cables.

In order to do this, the installer shall not exceed the 45% space factor given in the rigs.

The 45% space factor means that the total cross-sectional area of all cables shall not be greater than 45% of the cross-sectional area of the trunking.

Choosing Correct Trunking Dimensions

For each cable being used, obtain the appropriate factor from 'cable sizes and factors' table .

Sum all these cable factors and compare the result to the 'trunking sizes and capacity factor' table.

The minimum size of trunking that can be used is that size having a factor equal to, or greater than the sum of all trunking capacity factors.

Example:

- Type of cables = stranded

Cable size (cross-sectional area) = 25 mm²

Number of cables= 20

Common cable factor = 73.9 (cable sizes and factors table)

- Type of cables = solid

Cable size (cross-sectional area) = 2.5 mm²

Number of cables = 15

Common cable factor = 11.9 (cable sizes and factors table)

Cable sizes and factors

Size (mm ²) (nom.)	Common cable factor
Solid	
5.1	0.8
5.2	9.11
Stranded	
5.1	6.8
5.2	6.12
0.4	6.16
0.6	2.21
0.10	3.35
0.16	8.47
0.25	9.73
0.35	3.93
0.50	7.128
0.70	4.167
0.95	7.229
0.120	6.277
0.150	1.343

Trunking sizes and capacity factors

Size (mm)	Trunking capacity factor
50 x 50	1037
75 x 50	1555
75 x 75	2371
100 x 50	2091
100 x 75	3189
100 x 100	4252
150 x 50	3091
150 x 75	4742
150 x 100	6394
150 x 150	9697
225 x 75	7114
225 x 100	9298
225 x 150	14652
225 x 225	21766
300 x 75	9486
300 x 100	12788
300 x 150	19447

Number of cables x cable factor = Capacity factor

Stranded : 20 x 73.9 = 1478.0

Solid : 15 x 11.9 = 178.5

Total (Stranded + Solid) = 1656.5

Choose trunking size 75 x 75 = trunking capacity 2371 > 1656.5 or trunking size 100 x 50 = trunking capacity

2091 > 1656.5

Check trunking sizes and capacity factor table.

- All dimensions are made available upon request

TRUNKING RUNS & FITTINGS

Single Compartment

Single compartment return edge cable trunking is manufactured with various thicknesses 1.0 mm to 1.5 mm in compliance with BS 4678-1 was replaced by BS EN 50085-1:2005 and BS EN 50085-2:2006. It comes with all standard trunking couplings and lids that quickly lock into place.

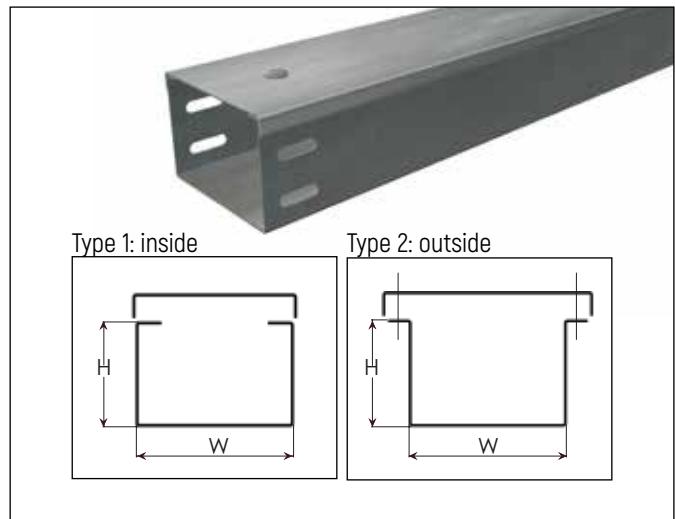
Single Compartment Cable Trunking

Thickness: 1 mm - 1.2 mm - 1.5 mm

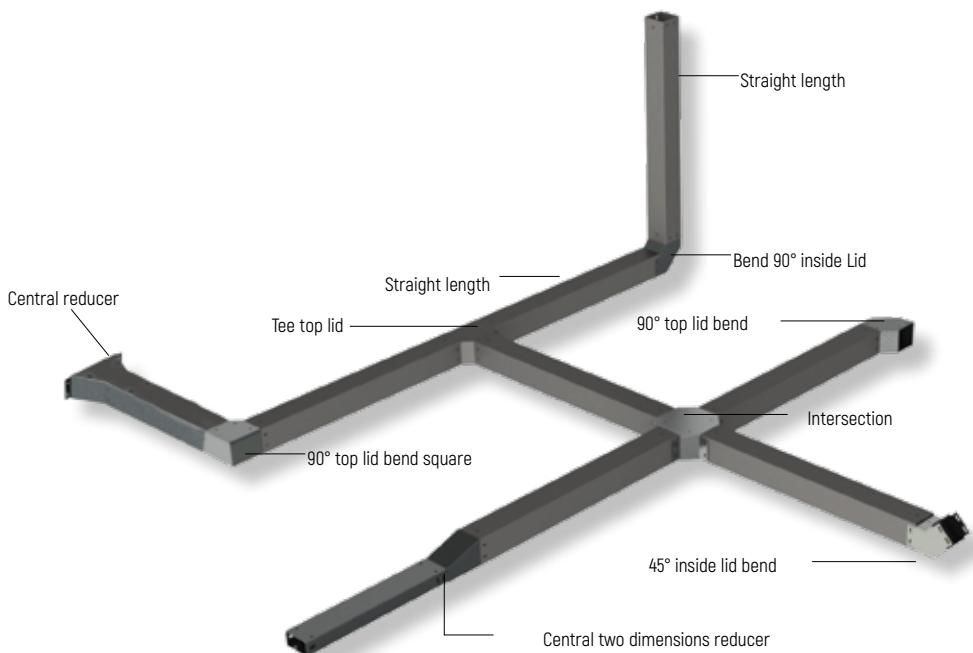
Available trunkings' lengths are:

- 2440 mm / 3000 mm

SCT - 4200



Reference			Dimensions	
1 mm	1.2 mm	1.5 mm	mm	inch
SCT 4200 050 0050 2	SCT 4200 050 0050 3	SCT 4200 050 0050 4	50 x 50 mm	[2"x2"]
SCT 4200 075 0050 2	SCT 4200 075 0050 3	SCT 4200 075 0050 4	75 x 50 mm	[3"x2"]
SCT 4200 075 0075 2	SCT 4200 075 0075 3	SCT 4200 075 0075 4	75 x 75 mm	[3"x3"]
SCT 4200 100 0050 2	SCT 4200 100 0050 3	SCT 4200 100 0050 3	100 x 50 mm	[4"x2"]
SCT 4200 100 0075 2	SCT 4200 100 0075 3	SCT 4200 100 0075 3	100 x 75 mm	[4"x3"]
SCT 4200 100 0100 2	SCT 4200 100 0100 3	SCT 4200 100 0100 3	100 x 100 mm	[4"x4"]
SCT 4200 150 0050 2	SCT 4200 150 0050 3	SCT 4200 150 0050 3	150 x 50 mm	[6"x2"]
SCT 4200 150 0075 2	SCT 4200 150 0075 3	SCT 4200 150 0075 3	150 x 75 mm	[6"x3"]
SCT 4200 150 0100 2	SCT 4200 150 0100 3	SCT 4200 150 0100 3	150 x 100 mm	[6"x4"]
SCT 4200 150 0150 2	SCT 4200 150 0150 3	SCT 4200 150 0150 3	150 x 150 mm	[6"x6"]
SCT 4200 200 0100 2	SCT 4200 200 0100 3	SCT 4200 200 0100 3	200 x 100 mm	[8"x4"]
SCT 4200 300 0100 2	SCT 4200 300 0100 3	SCT 4200 300 0100 3	300 x 100 mm	[12"x4"]
SCT 4200 450 0100 2	SCT 4200 450 0100 3	SCT 4200 450 0100 3	450 x 100 mm	[18"x4"]
SCT 4200 600 0100 2	SCT 4200 600 0100 3	SCT 4200 600 0100 3	600 x 100 mm	[24"x4"]



Double Compartment

Double Compartment Cable Trunking

Thickness: 1 mm - 1.2 mm - 1.5 mm

Available trunking lengths are as follows:

2440 mm / 3000 mm

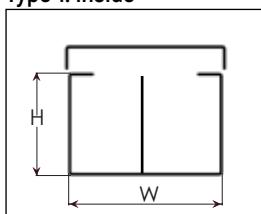


DCT - 5200

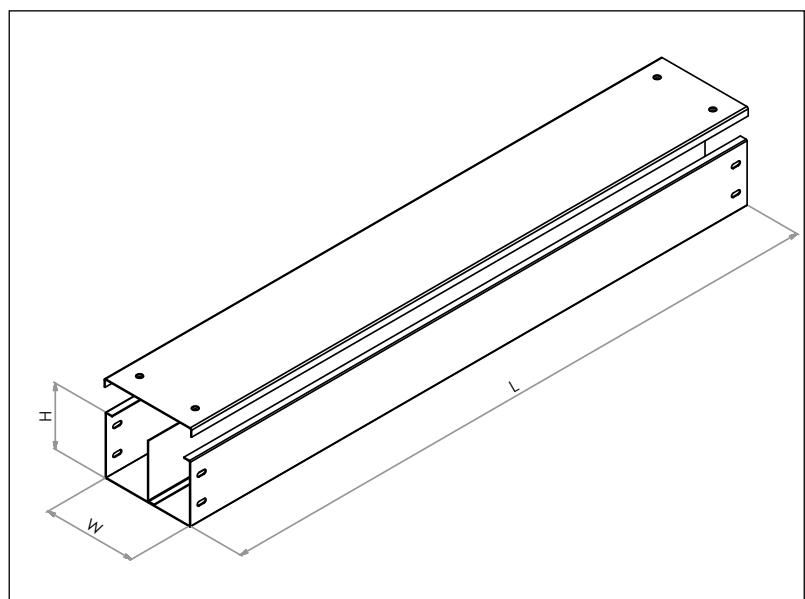
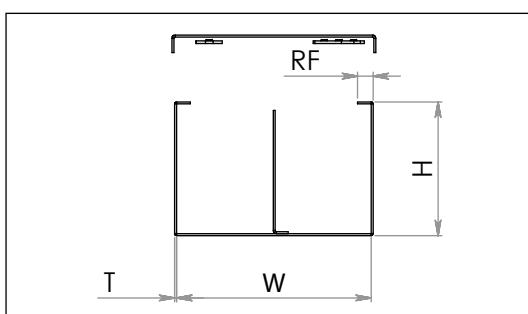
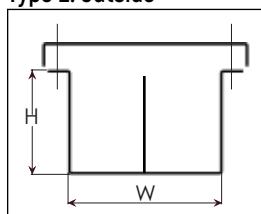
Reference			Dimensions	
1 mm	1.2 mm	1.5 mm	mm	inch
DCT 5200 050 0050 2	DCT 5200 050 0050 3	DCT 5200 050 0050 4	50 x 50 mm	[2"x2"]
DCT 5200 075 0050 2	DCT 5200 075 0050 3	DCT 5200 075 0050 4	75 x 50 mm	[3"x2"]
DCT 5200 075 0075 2	DCT 5200 075 0075 3	DCT 5200 075 0075 4	75 x 75 mm	[3"x3"]
DCT 5200 100 0050 2	DCT 5200 100 0050 3	DCT 5200 100 0050 4	100 x 50 mm	[4"x2"]
DCT 5200 100 0075 2	DCT 5200 100 0075 3	DCT 5200 100 0075 4	100 x 75 mm	[4"x3"]
DCT 5200 100 0100 2	DCT 5200 100 0100 3	DCT 5200 100 0100 4	100 x 100 mm	[4"x4"]
DCT 5200 150 0050 2	DCT 5200 150 0050 3	DCT 5200 150 0050 4	150 x 50 mm	[6"x2"]
DCT 5200 150 0075 2	DCT 5200 150 0075 3	DCT 5200 150 0075 4	150 x 75 mm	[6"x3"]
DCT 5200 150 0100 2	DCT 5200 150 0100 3	DCT 5200 150 0100 4	150 x 100 mm	[6"x4"]
DCT 5200 150 0150 2	DCT 5200 150 0150 3	DCT 5200 150 0150 4	150 x 150 mm	[6"x6"]
DCT 5200 200 0100 2	DCT 5200 200 0100 3	DCT 5200 200 0100 4	200 x 100 mm	[8"x4"]
DCT 5200 300 0100 2	DCT 5200 300 0100 3	DCT 5200 300 0100 4	300 x 100 mm	[12"x4"]
DCT 5200 450 0100 2	DCT 5200 450 0100 3	DCT 5200 450 0100 4	450 x 100 mm	[18"x4"]
DCT 5200 600 0100 2	DCT 5200 600 0100 3	DCT 5200 600 0100 4	600 x 100 mm	[24"x4"]

- Other dimensions are available upon request.

Type 1: inside



Type 2: outside



Triple Compartment

Triple Compartment Cable Trunking

Thickness: 1 mm - 1.2 mm - 1.5 mm

Available trunking lengths are as follows: 2440 mm / 3000 mm

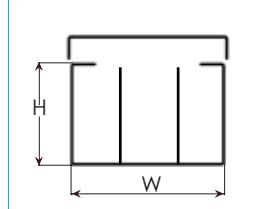
TCT - 6200 U / TCT - 6200 L



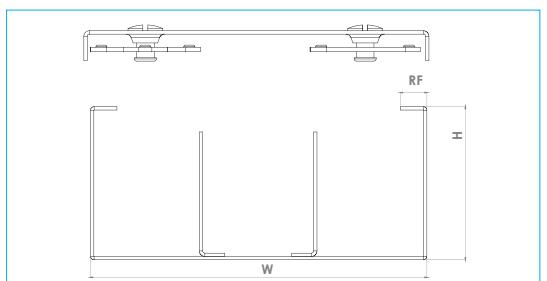
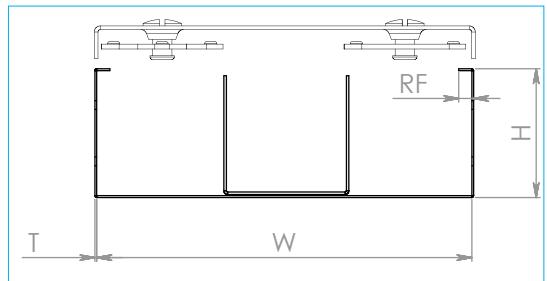
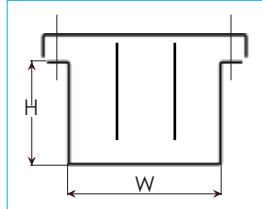
Reference			Dimensions	
1 mm	1.2 mm	1.5 mm	mm	inch
TCT 6200 050 0050 2	TCT 6200 050 0050 3	TCT 6200 050 0050 4	50 x 50 mm	[2"x2"]
TCT 6200 075 0050 2	TCT 6200 075 0050 3	TCT 6200 075 0050 4	75 x 50 mm	[3"x2"]
TCT 6200 075 0075 2	TCT 6200 075 0075 3	TCT 6200 075 0075 4	75 x 75 mm	[3"x3"]
TCT 6200 100 0050 2	TCT 6200 100 0050 3	TCT 6200 100 0050 4	100 x 50 mm	[4"x2"]
TCT 6200 100 0075 2	TCT 6200 100 0075 3	TCT 6200 100 0075 4	100 x 75 mm	[4"x3"]
TCT 6200 100 0100 2	TCT 6200 100 0100 3	TCT 6200 100 0100 4	100 x 100 mm	[4"x4"]
TCT 6200 150 0050 2	TCT 6200 150 0050 3	TCT 6200 150 0050 4	150 x 50 mm	[6"x2"]
TCT 6200 150 0075 2	TCT 6200 150 0075 3	TCT 6200 150 0075 4	150 x 75 mm	[6"x3"]
TCT 6200 150 0100 2	TCT 6200 150 0100 3	TCT 6200 150 0100 4	150 x 100 mm	[6"x4"]
TCT 6200 150 0150 2	TCT 6200 150 0150 3	TCT 6200 150 0150 4	150 x 150 mm	[6"x6"]
TCT 6200 200 0100 2	TCT 6200 200 0100 3	TCT 6200 200 0100 4	200 x 100 mm	[8"x4"]
TCT 6200 300 0100 2	TCT 6200 300 0100 3	TCT 6200 300 0100 4	300 x 100 mm	[12"x4"]
TCT 6200 450 0100 2	TCT 6200 450 0100 3	TCT 6200 450 0100 4	450 x 100 mm	[18"x4"]
TCT 6200 600 0100 2	TCT 6200 600 0100 3	TCT 6200 600 0100 4	600 x 100 mm	[24"x4"]

- Other dimensions are available upon request.

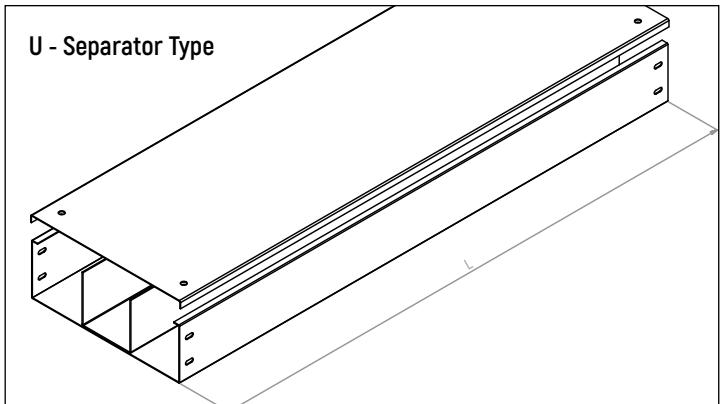
Type 1: inside



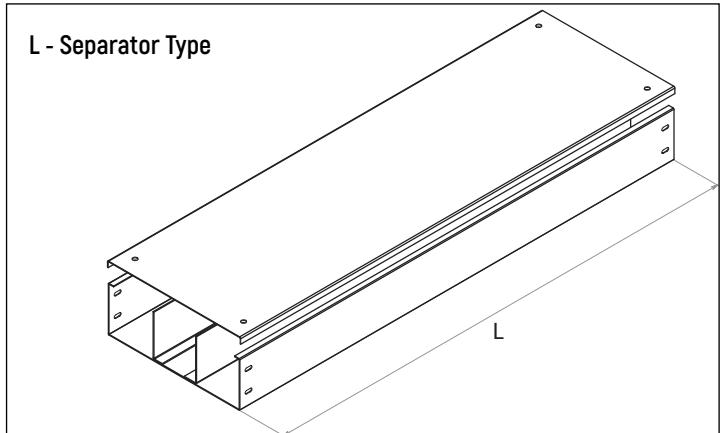
Type 2: outside



U - Separator Type



L - Separator Type

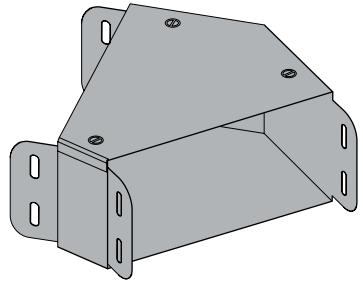


Bend 45 ° Top Lid

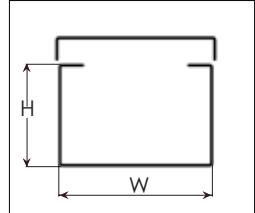
Thickness: 1 mm - 1.2 mm - 1.5 mm

TL45 7110

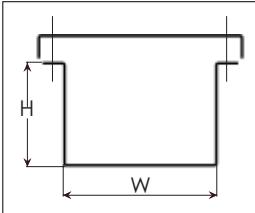
Reference			Dimensions	
1 mm	1.2 mm	1.5 mm	mm	inch
TL45 7110 050 0050 2	TL45 7110 050 0050 3	TL45 7110 050 0050 4	50 x 50 mm	[2"x2"]
TL45 7110 075 0050 2	TL45 7110 075 0050 3	TL45 7110 075 0050 4	75 x 50 mm	[3"x2"]
TL45 7110 075 0075 2	TL45 7110 075 0075 3	TL45 7110 075 0075 4	75 x 75 mm	[3"x3"]
TL45 7110 100 0050 2	TL45 7110 100 0050 3	TL45 7110 100 0050 4	100 x 50 mm	[4"x2"]
TL45 7110 100 0075 2	TL45 7110 100 0075 3	TL45 7110 100 0075 4	100 x 75 mm	[4"x3"]
TL45 7110 100 0100 2	TL45 7110 100 0100 3	TL45 7110 100 0100 4	100 x 100 mm	[4"x4"]
TL45 7110 150 0050 2	TL45 7110 150 0050 3	TL45 7110 150 0050 4	150 x 50 mm	[6"x2"]
TL45 7110 150 0075 2	TL45 7110 150 0075 3	TL45 7110 150 0075 4	150 x 75 mm	[6"x3"]
TL45 7110 150 0100 2	TL45 7110 150 0100 3	TL45 7110 150 0100 4	150 x 100 mm	[6"x4"]
TL45 7110 150 0150 2	TL45 7110 150 0150 3	TL45 7110 150 0150 4	150 x 150 mm	[6"x6"]
TL45 7110 200 0100 2	TL45 7110 200 0100 3	TL45 7110 200 0100 4	200 x 100 mm	[8"x4"]
TL45 7110 300 0100 2	TL45 7110 300 0100 3	TL45 7110 300 0100 4	300 x 100 mm	[12"x4"]
TL45 7110 450 0100 2	TL45 7110 450 0100 3	TL45 7110 450 0100 4	450 x 100 mm	[18"x4"]
TL45 7110 600 0100 2	TL45 7110 600 0100 3	TL45 7110 600 0100 4	600 x 100 mm	[24"x4"]



Type 1: inside



Type 2: outside



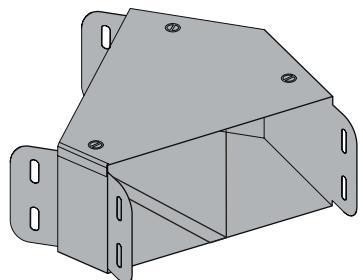
- Other dimensions are available upon request.

Bend 45 ° Top Lid Double

Thickness: 1 mm - 1.2 mm - 1.5 mm

TLD45 7110

Reference			Dimensions	
1 mm	1.2 mm	1.5 mm	mm	inch
TLD45 7110 050 0050 2	TLD45 7110 050 0050 3	TLD45 7110 050 0050 4	50 x 50 mm	[2"x2"]
TLD45 7110 075 0050 2	TLD45 7110 075 0050 3	TLD45 7110 075 0050 4	75 x 50 mm	[3"x2"]
TLD45 7110 075 0075 2	TLD45 7110 075 0075 3	TLD45 7110 075 0075 4	75 x 75 mm	[3"x3"]
TLD45 7110 100 0050 2	TLD45 7110 100 0050 3	TLD45 7110 100 0050 4	100 x 50 mm	[4"x2"]
TLD45 7110 100 0075 2	TLD45 7110 100 0075 3	TLD45 7110 100 0075 4	100 x 75 mm	[4"x3"]
TLD45 7110 100 0100 2	TLD45 7110 100 0100 3	TLD45 7110 100 0100 4	100 x 100 mm	[4"x4"]
TLD45 7110 150 0050 2	TLD45 7110 150 0050 3	TLD45 7110 150 0050 4	150 x 50 mm	[6"x2"]
TLD45 7110 150 0075 2	TLD45 7110 150 0075 3	TLD45 7110 150 0075 4	150 x 75 mm	[6"x3"]
TLD45 7110 150 0100 2	TLD45 7110 150 0100 3	TLD45 7110 150 0100 4	150 x 100 mm	[6"x4"]
TLD45 7110 150 0150 2	TLD45 7110 150 0150 3	TLD45 7110 150 0150 4	150 x 150 mm	[6"x6"]
TLD45 7110 200 0100 2	TLD45 7110 200 0100 3	TLD45 7110 200 0100 4	200 x 100 mm	[8"x4"]
TLD45 7110 300 0100 2	TLD45 7110 300 0100 3	TLD45 7110 300 0100 4	300 x 100 mm	[12"x4"]
TLD45 7110 450 0100 2	TLD45 7110 450 0100 3	TLD45 7110 450 0100 4	450 x 100 mm	[18"x4"]
TLD45 7110 600 0100 2	TLD45 7110 600 0100 3	TLD45 7110 600 0100 4	600 x 100 mm	[24"x4"]



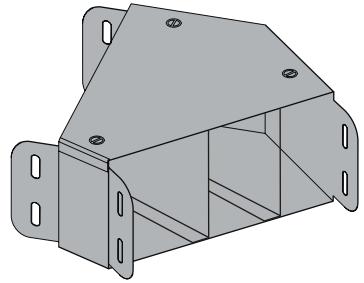
- Other dimensions are available upon request.

Bend 45 ° Top Lid Triple

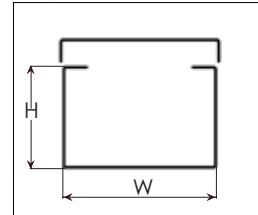
Thickness: 1 mm - 1.2 mm - 1.5 mm

TLT45 7110

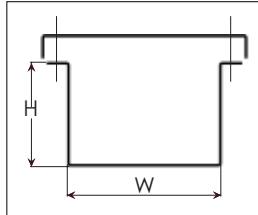
Reference			Dimensions	
1 mm	1.2 mm	1.5 mm	mm	inch
TLT45 7110 050 0050 2	TLT45 7110 050 0050 3	TLT45 7110 050 0050 4	50 x 50 mm	[2"x2"]
TLT45 7110 075 0050 2	TLT45 7110 075 0050 3	TLT45 7110 075 0050 4	75 x 50 mm	[3"x2"]
TLT45 7110 075 0075 2	TLT45 7110 075 0075 3	TLT45 7110 075 0075 4	75 x 75 mm	[3"x3"]
TLT45 7110 100 0050 2	TLT45 7110 100 0050 3	TLT45 7110 100 0050 4	100 x 50 mm	[4"x2"]
TLT45 7110 100 0075 2	TLT45 7110 100 0075 3	TLT45 7110 100 0075 4	100 x 75 mm	[4"x3"]
TLT45 7110 100 0100 2	TLT45 7110 100 0100 3	TLT45 7110 100 0100 4	100 x 100 mm	[4"x4"]
TLT45 7110 150 0050 2	TLT45 7110 150 0050 3	TLT45 7110 150 0050 4	150 x 50 mm	[6"x2"]
TLT45 7110 150 0075 2	TLT45 7110 150 0075 3	TLT45 7110 150 0075 4	150 x 75 mm	[6"x3"]
TLT45 7110 150 0100 2	TLT45 7110 150 0100 3	TLT45 7110 150 0100 4	150 x 100 mm	[6"x4"]
TLT45 7110 150 0150 2	TLT45 7110 150 0150 3	TLT45 7110 150 0150 4	150 x 150 mm	[6"x6"]
TLT45 7110 200 0100 2	TLT45 7110 200 0100 3	TLT45 7110 200 0100 4	200 x 100 mm	[8"x4"]
TLT45 7110 300 0100 2	TLT45 7110 300 0100 3	TLT45 7110 300 0100 4	300 x 100 mm	[12"x4"]
TLT45 7110 450 0100 2	TLT45 7110 450 0100 3	TLT45 7110 450 0100 4	450 x 100 mm	[18"x4"]
TLT45 7110 600 0100 2	TLT45 7110 600 0100 3	TLT45 7110 600 0100 4	600 x 100 mm	[24"x4"]



Type 1: inside



Type 2: outside



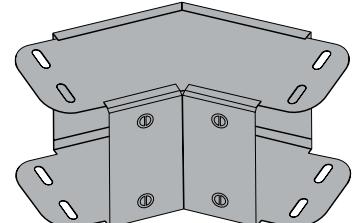
- Other dimensions are available upon request.

Bend 45 ° Inside Lid

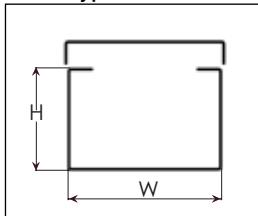
Thickness: 1 mm - 1.2 mm - 1.5 mm

IL45 7210

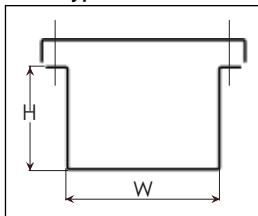
Reference			Dimensions	
1 mm	1.2 mm	1.5 mm	mm	inch
IL45 7210 050 0050 2	IL45 7210 050 0050 3	IL45 7210 050 0050 4	50 x 50 mm	[2"x2"]
IL45 7210 075 0050 2	IL45 7210 075 0050 3	IL45 7210 075 0050 4	75 x 50 mm	[3"x2"]
IL45 7210 075 0075 2	IL45 7210 075 0075 3	IL45 7210 075 0075 4	75 x 75 mm	[3"x3"]
IL45 7210 100 0050 2	IL45 7210 100 0050 3	IL45 7210 100 0050 4	100 x 50 mm	[4"x2"]
IL45 7210 100 0075 2	IL45 7210 100 0075 3	IL45 7210 100 0075 4	100 x 75 mm	[4"x3"]
IL45 7210 100 0100 2	IL45 7210 100 0100 3	IL45 7210 100 0100 4	100 x 100 mm	[4"x4"]
IL45 7210 150 0050 2	IL45 7210 150 0050 3	IL45 7210 150 0050 4	150 x 50 mm	[6"x2"]
IL45 7210 150 0075 2	IL45 7210 150 0075 3	IL45 7210 150 0075 4	150 x 75 mm	[6"x3"]
IL45 7210 150 0100 2	IL45 7210 150 0100 3	IL45 7210 150 0100 4	150 x 100 mm	[6"x4"]
IL45 7210 150 0150 2	IL45 7210 150 0150 3	IL45 7210 150 0150 4	150 x 150 mm	[6"x6"]
IL45 7210 200 0100 2	IL45 7210 200 0100 3	IL45 7210 200 0100 4	200 x 100 mm	[8"x4"]
IL45 7210 300 0100 2	IL45 7210 300 0100 3	IL45 7210 300 0100 4	300 x 100 mm	[12"x4"]
IL45 7210 450 0100 2	IL45 7210 450 0100 3	IL45 7210 450 0100 4	450 x 100 mm	[18"x4"]
IL45 7210 600 0100 2	IL45 7210 600 0100 3	IL45 7210 600 0100 4	600 x 100 mm	[24"x4"]



Type 1: inside



Type 2: outside

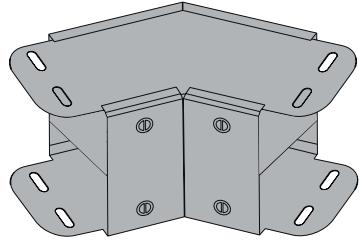


- Other dimensions are available upon request.

Bend 45 ° Inside Lid Double

Thickness: 1 mm - 1.2 mm - 1.5 mm

ILD45 7210



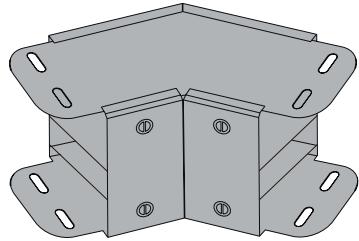
Reference			Dimensions	
1 mm	1.2 mm	1.5 mm	mm	inch
ILD45 7210 050 0050 2	ILD45 7210 050 0050 3	ILD45 7210 050 0050 4	50 x 50 mm	[2"x2"]
ILD45 7210 075 0050 2	ILD45 7210 075 0050 3	ILD45 7210 075 0050 4	75 x 50 mm	[3"x2"]
ILD45 7210 075 0075 2	ILD45 7210 075 0075 3	ILD45 7210 075 0075 4	75 x 75 mm	[3"x3"]
ILD45 7210 100 0050 2	ILD45 7210 100 0050 3	ILD45 7210 100 0050 4	100 x 50 mm	[4"x2"]
ILD45 7210 100 0075 2	ILD45 7210 100 0075 3	ILD45 7210 100 0075 4	100 x 75 mm	[4"x3"]
ILD45 7210 100 0100 2	ILD45 7210 100 0100 3	ILD45 7210 100 0100 4	100 x 100 mm	[4"x4"]
ILD45 7210 150 0050 2	ILD45 7210 150 0050 3	ILD45 7210 150 0050 4	150 x 50 mm	[6"x2"]
ILD45 7210 150 0075 2	ILD45 7210 150 0075 3	ILD45 7210 150 0075 4	150 x 75 mm	[6"x3"]
ILD45 7210 150 0100 2	ILD45 7210 150 0100 3	ILD45 7210 150 0100 4	150 x 100 mm	[6"x4"]
ILD45 7210 150 0150 2	ILD45 7210 150 0150 3	ILD45 7210 150 0150 4	150 x 150 mm	[6"x6"]
ILD45 7210 200 0100 2	ILD45 7210 200 0100 3	ILD45 7210 200 0100 4	200 x 100 mm	[8"x4"]
ILD45 7210 300 0100 2	ILD45 7210 300 0100 3	ILD45 7210 300 0100 4	300 x 100 mm	[12"x4"]
ILD45 7210 450 0100 2	ILD45 7210 450 0100 3	ILD45 7210 450 0100 4	450 x 100 mm	[18"x4"]
ILD45 7210 600 0100 2	ILD45 7210 600 0100 3	ILD45 7210 600 0100 4	600 x 100 mm	[24"x4"]

- Other dimensions are available upon request.

Bend 45 ° Inside Lid Triple

Thickness: 1 mm - 1.2 mm - 1.5 mm

ILT45 7210 - 7215



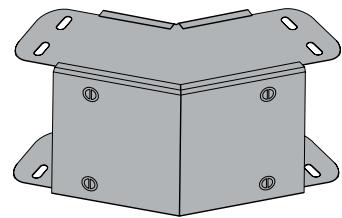
Reference			Dimensions	
1 mm	1.2 mm	1.5 mm	mm	inch
ILT45 7210 050 0050 2	ILT45 7210 050 0050 3	ILT45 7210 050 0050 4	50 x 50 mm	[2"x2"]
ILT45 7210 075 0050 2	ILT45 7210 075 0050 3	ILT45 7210 075 0050 4	75 x 50 mm	[3"x2"]
ILT45 7210 075 0075 2	ILT45 7210 075 0075 3	ILT45 7210 075 0075 4	75 x 75 mm	[3"x3"]
ILT45 7210 100 0050 2	ILT45 7210 100 0050 3	ILT45 7210 100 0050 4	100 x 50 mm	[4"x2"]
ILT45 7210 100 0075 2	ILT45 7210 100 0075 3	ILT45 7210 100 0075 4	100 x 75 mm	[4"x3"]
ILT45 7210 100 0100 2	ILT45 7210 100 0100 3	ILT45 7210 100 0100 4	100 x 100 mm	[4"x4"]
ILT45 7210 150 0050 2	ILT45 7210 150 0050 3	ILT45 7210 150 0050 4	150 x 50 mm	[6"x2"]
ILT45 7210 150 0075 2	ILT45 7210 150 0075 3	ILT45 7210 150 0075 4	150 x 75 mm	[6"x3"]
ILT45 7210 150 0100 2	ILT45 7210 150 0100 3	ILT45 7210 150 0100 4	150 x 100 mm	[6"x4"]
ILT45 7210 150 0150 2	ILT45 7210 150 0150 3	ILT45 7210 150 0150 4	150 x 150 mm	[6"x6"]
ILT45 7210 200 0100 2	ILT45 7210 200 0100 3	ILT45 7210 200 0100 4	200 x 100 mm	[8"x4"]
ILT45 7210 300 0100 2	ILT45 7210 300 0100 3	ILT45 7210 300 0100 4	300 x 100 mm	[12"x4"]
ILT45 7210 450 0100 2	ILT45 7210 450 0100 3	ILT45 7210 450 0100 4	450 x 100 mm	[18"x4"]
ILT45 7210 600 0100 2	ILT45 7210 600 0100 3	ILT45 7210 600 0100 4	600 x 100 mm	[24"x4"]

- Other dimensions are available upon request.

Bend 45 ° Outside Lid

Thickness: 1 mm - 1.2 mm - 1.5 mm

OL45 7310



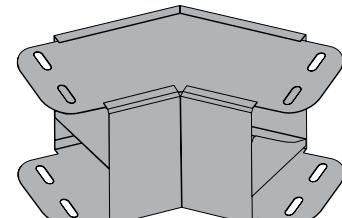
Reference			Dimensions	
1 mm	1.2 mm	1.5 mm	mm	inch
OL45 7310 050 0050 2	OL45 7310 050 0050 3	OL45 7310 050 0050 4	50 x 50 mm	[2"x2"]
OL45 7310 075 0050 2	OL45 7310 075 0050 3	OL45 7310 075 0050 4	75 x 50 mm	[3"x2"]
OL45 7310 075 0075 2	OL45 7310 075 0075 3	OL45 7310 075 0075 4	75 x 75 mm	[3"x3"]
OL45 7310 100 0050 2	OL45 7310 100 0050 3	OL45 7310 100 0050 4	100 x 50 mm	[4"x2"]
OL45 7310 100 0075 2	OL45 7310 100 0075 3	OL45 7310 100 0075 4	100 x 75 mm	[4"x3"]
OL45 7310 100 0100 2	OL45 7310 100 0100 3	OL45 7310 100 0100 4	100 x 100 mm	[4"x4"]
OL45 7310 150 0050 2	OL45 7310 150 0050 3	OL45 7310 150 0050 4	150 x 50 mm	[6"x2"]
OL45 7310 150 0075 2	OL45 7310 150 0075 3	OL45 7310 150 0075 4	150 x 75 mm	[6"x3"]
OL45 7310 150 0100 2	OL45 7310 150 0100 3	OL45 7310 150 0100 4	150 x 100 mm	[6"x4"]
OL45 7310 150 0150 2	OL45 7310 150 0150 3	OL45 7310 150 0150 4	150 x 150 mm	[6"x6"]
OL45 7310 200 0100 2	OL45 7310 200 0100 3	OL45 7310 200 0100 4	200 x 100 mm	[8"x4"]
OL45 7310 300 0100 2	OL45 7310 300 0100 3	OL45 7310 300 0100 4	300 x 100 mm	[12"x4"]
OL45 7310 450 0100 2	OL45 7310 450 0100 3	OL45 7310 450 0100 4	450 x 100 mm	[18"x4"]
OL45 7310 600 0100 2	OL45 7310 600 0100 3	OL45 7310 600 0100 4	600 x 100 mm	[24"x4"]

- Other dimensions are available upon request.

Bend 45 ° Outside Lid Double

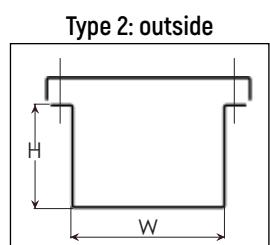
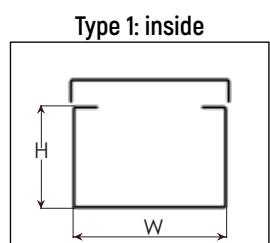
Thickness: 1 mm - 1.2 mm - 1.5 mm

IL45 7210



Reference			Dimensions	
1 mm	1.2 mm	1.5 mm	mm	inch
OLD45 7310 050 0050 2	OLD45 7310 050 0050 3	OLD45 7310 050 0050 4	50 x 50 mm	[2"x2"]
OLD45 7310 075 0050 2	OLD45 7310 075 0050 3	OLD45 7310 075 0050 4	75 x 50 mm	[3"x2"]
OLD45 7310 075 0075 2	OLD45 7310 075 0075 3	OLD45 7310 075 0075 4	75 x 75 mm	[3"x3"]
OLD45 7310 100 0050 2	OLD45 7310 100 0050 3	OLD45 7310 100 0050 4	100 x 50 mm	[4"x2"]
OLD45 7310 100 0075 2	OLD45 7310 100 0075 3	OLD45 7310 100 0075 4	100 x 75 mm	[4"x3"]
OLD45 7310 100 0100 2	OLD45 7310 100 0100 3	OLD45 7310 100 0100 4	100 x 100 mm	[4"x4"]
OLD45 7310 150 0050 2	OLD45 7310 150 0050 3	OLD45 7310 150 0050 4	150 x 50 mm	[6"x2"]
OLD45 7310 150 0075 2	OLD45 7310 150 0075 3	OLD45 7310 150 0075 4	150 x 75 mm	[6"x3"]
OLD45 7310 150 0100 2	OLD45 7310 150 0100 3	OLD45 7310 150 0100 4	150 x 100 mm	[6"x4"]
OLD45 7310 150 0150 2	OLD45 7310 150 0150 3	OLD45 7310 150 0150 4	150 x 150 mm	[6"x6"]
OLD45 7310 200 0100 2	OLD45 7310 200 0100 3	OLD45 7310 200 0100 4	200 x 100 mm	[8"x4"]
OLD45 7310 300 0100 2	OLD45 7310 300 0100 3	OLD45 7310 300 0100 4	300 x 100 mm	[12"x4"]
OLD45 7310 450 0100 2	OLD45 7310 450 0100 3	OLD45 7310 450 0100 4	450 x 100 mm	[18"x4"]
OLD45 7310 600 0100 2	OLD45 7310 600 0100 3	OLD45 7310 600 0100 4	600 x 100 mm	[24"x4"]

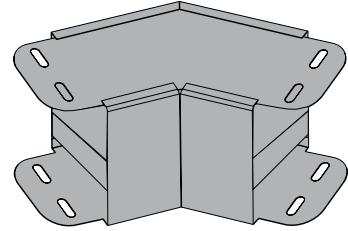
- Other dimensions are available upon request.



Bend 45 ° Outside Lid Triple

Thickness: 1 mm - 1.2 mm - 1.5 mm

OLT45 7310



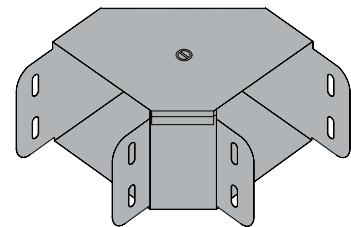
Reference			Dimensions	
1 mm	1.2 mm	1.5 mm	mm	inch
OLT45 7310 050 0050 2	OLT45 7310 050 0050 3	OLT45 7310 050 0050 4	50 x 50 mm	[2"x2"]
OLT45 7310 075 0050 2	OLT45 7310 075 0050 3	OLT45 7310 075 0050 4	75 x 50 mm	[3"x2"]
OLT45 7310 075 0075 2	OLT45 7310 075 0075 3	OLT45 7310 075 0075 4	75 x 75 mm	[3"x3"]
OLT45 7310 100 0050 2	OLT45 7310 100 0050 3	OLT45 7310 100 0050 4	100 x 50 mm	[4"x2"]
OLT45 7310 100 0075 2	OLT45 7310 100 0075 3	OLT45 7310 100 0075 4	100 x 75 mm	[4"x3"]
OLT45 7310 100 0100 2	OLT45 7310 100 0100 3	OLT45 7310 100 0100 4	100 x 100 mm	[4"x4"]
OLT45 7310 150 0050 2	OLT45 7310 150 0050 3	OLT45 7310 150 0050 4	150 x 50 mm	[6"x2"]
OLT45 7310 150 0075 2	OLT45 7310 150 0075 3	OLT45 7310 150 0075 4	150 x 75 mm	[6"x3"]
OLT45 7310 150 0100 2	OLT45 7310 150 0100 3	OLT45 7310 150 0100 4	150 x 100 mm	[6"x4"]
OLT45 7310 150 0150 2	OLT45 7310 150 0150 3	OLT45 7310 150 0150 4	150 x 150 mm	[6"x6"]
OLT45 7310 200 0100 2	OLT45 7310 200 0100 3	OLT45 7310 200 0100 4	200 x 100 mm	[8"x4"]
OLT45 7310 300 0100 2	OLT45 7310 300 0100 3	OLT45 7310 300 0100 4	300 x 100 mm	[12"x4"]
OLT45 7310 450 0100 2	OLT45 7310 450 0100 3	OLT45 7310 450 0100 4	450 x 100 mm	[18"x4"]
OLT45 7310 600 0100 2	OLT45 7310 600 0100 3	OLT45 7310 600 0100 4	600 x 100 mm	[24"x4"]

- Other dimensions are available upon request.

Bend 90 ° Top Lid

Thickness: 1 mm - 1.2 mm - 1.5 mm

TL90 7410

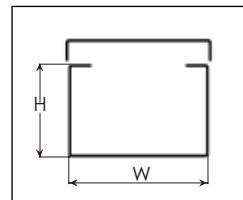


Reference			Dimensions	
1 mm	1.2 mm	1.5 mm	mm	inch
TL90 7410 050 0050 2	TL90 7410 050 0050 3	TL90 7410 050 0050 4	50 x 50 mm	[2"x2"]
TL90 7410 075 0050 2	TL90 7410 075 0050 3	TL90 7410 075 0050 4	75 x 50 mm	[3"x2"]
TL90 7410 075 0075 2	TL90 7410 075 0075 3	TL90 7410 075 0075 4	75 x 75 mm	[3"x3"]
TL90 7410 100 0050 2	TL90 7410 100 0050 3	TL90 7410 100 0050 4	100 x 50 mm	[4"x2"]
TL90 7410 100 0075 2	TL90 7410 100 0075 3	TL90 7410 100 0075 4	100 x 75 mm	[4"x3"]
TL90 7410 100 0100 2	TL90 7410 100 0100 3	TL90 7410 100 0100 4	100 x 100 mm	[4"x4"]
TL90 7410 150 0050 2	TL90 7410 150 0050 3	TL90 7410 150 0050 4	150 x 50 mm	[6"x2"]
TL90 7410 150 0075 2	TL90 7410 150 0075 3	TL90 7410 150 0075 4	150 x 75 mm	[6"x3"]
TL90 7410 150 0100 2	TL90 7410 150 0100 3	TL90 7410 150 0100 4	150 x 100 mm	[6"x4"]
TL90 7410 150 0150 2	TL90 7410 150 0150 3	TL90 7410 150 0150 4	150 x 150 mm	[6"x6"]
TL90 7410 200 0100 2	TL90 7410 200 0100 3	TL90 7410 200 0100 4	200 x 100 mm	[8"x4"]
TL90 7410 300 0100 2	TL90 7410 300 0100 3	TL90 7410 300 0100 4	300 x 100 mm	[12"x4"]
TL90 7410 450 0100 2	TL90 7410 450 0100 3	TL90 7410 450 0100 4	450 x 100 mm	[18"x4"]
TL90 7410 600 0100 2	TL90 7410 600 0100 3	TL90 7410 600 0100 4	600 x 100 mm	[24"x4"]

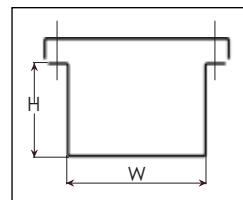
- Other dimensions are available upon request.

TL90 7410 C
Cornered

Type 1: inside



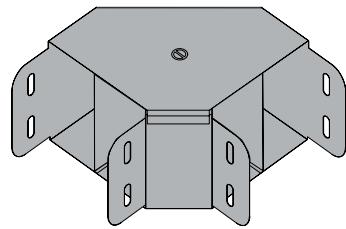
Type 2: outside



Bend 90 ° Top Lid Double

Thickness: 1 mm - 1.2 mm - 1.5 mm

TLD90 7410



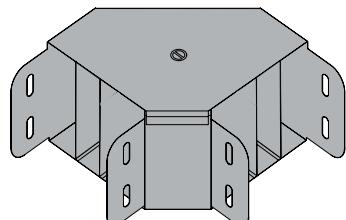
Reference			Dimensions	
1 mm	1.2 mm	1.5 mm	mm	inch
TLD90 7410 050 0050 2	TLD90 7410 050 0050 3	TLD90 7410 050 0050 4	50 x 50 mm	[2"x2"]
TLD90 7410 075 0050 2	TLD90 7410 075 0050 3	TLD90 7410 075 0050 4	75 x 50 mm	[3"x2"]
TLD90 7410 075 0075 2	TLD90 7410 075 0075 3	TLD90 7410 075 0075 4	75 x 75 mm	[3"x3"]
TLD90 7410 100 0050 2	TLD90 7410 100 0050 3	TLD90 7410 100 0050 4	100 x 50 mm	[4"x2"]
TLD90 7410 100 0075 2	TLD90 7410 100 0075 3	TLD90 7410 100 0075 4	100 x 75 mm	[4"x3"]
TLD90 7410 100 0100 2	TLD90 7410 100 0100 3	TLD90 7410 100 0100 4	100 x 100 mm	[4"x4"]
TLD90 7410 150 0050 2	TLD90 7410 150 0050 3	TLD90 7410 150 0050 4	150 x 50 mm	[6"x2"]
TLD90 7410 150 0075 2	TLD90 7410 150 0075 3	TLD90 7410 150 0075 4	150 x 75 mm	[6"x3"]
TLD90 7410 150 0100 2	TLD90 7410 150 0100 3	TLD90 7410 150 0100 4	150 x 100 mm	[6"x4"]
TLD90 7410 150 0150 2	TLD90 7410 150 0150 3	TLD90 7410 150 0150 4	150 x 150 mm	[6"x6"]
TLD90 7410 200 0100 2	TLD90 7410 200 0100 3	TLD90 7410 200 0100 4	200 x 100 mm	[8"x4"]
TLD90 7410 300 0100 2	TLD90 7410 300 0100 3	TLD90 7410 300 0100 4	300 x 100 mm	[12"x4"]
TLD90 7410 450 0100 2	TLD90 7410 450 0100 3	TLD90 7410 450 0100 4	450 x 100 mm	[18"x4"]
TLD90 7410 600 0100 2	TLD90 7410 600 0100 3	TLD90 7410 600 0100 4	600 x 100 mm	[24"x4"]

- Other dimensions are available upon request.

Bend 90 ° Top Lid Triple

Thickness: 1 mm - 1.2 mm - 1.5 mm

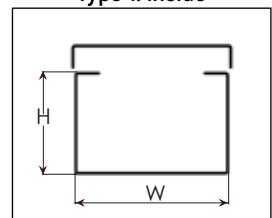
TLT90 7410



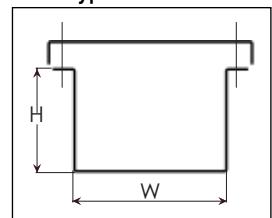
Reference			Dimensions	
1 mm	1.2 mm	1.5 mm	mm	inch
TLT90 7410 050 0050 2	TLT90 7410 050 0050 3	TLT90 7410 050 0050 4	50 x 50 mm	[2"x2"]
TLT90 7410 075 0050 2	TLT90 7410 075 0050 3	TLT90 7410 075 0050 4	75 x 50 mm	[3"x2"]
TLT90 7410 075 0075 2	TLT90 7410 075 0075 3	TLT90 7410 075 0075 4	75 x 75 mm	[3"x3"]
TLT90 7410 100 0050 2	TLT90 7410 100 0050 3	TLT90 7410 100 0050 4	100 x 50 mm	[4"x2"]
TLT90 7410 100 0075 2	TLT90 7410 100 0075 3	TLT90 7410 100 0075 4	100 x 75 mm	[4"x3"]
TLT90 7410 100 0100 2	TLT90 7410 100 0100 3	TLT90 7410 100 0100 4	100 x 100 mm	[4"x4"]
TLT90 7410 150 0050 2	TLT90 7410 150 0050 3	TLT90 7410 150 0050 4	150 x 50 mm	[6"x2"]
TLT90 7410 150 0075 2	TLT90 7410 150 0075 3	TLT90 7410 150 0075 4	150 x 75 mm	[6"x3"]
TLT90 7410 150 0100 2	TLT90 7410 150 0100 3	TLT90 7410 150 0100 4	150 x 100 mm	[6"x4"]
TLT90 7410 150 0150 2	TLT90 7410 150 0150 3	TLT90 7410 150 0150 4	150 x 150 mm	[6"x6"]
TLT90 7410 200 0100 2	TLT90 7410 200 0100 3	TLT90 7410 200 0100 4	200 x 100 mm	[8"x4"]
TLT90 7410 300 0100 2	TLT90 7410 300 0100 3	TLT90 7410 300 0100 4	300 x 100 mm	[12"x4"]
TLT90 7410 450 0100 2	TLT90 7410 450 0100 3	TLT90 7410 450 0100 4	450 x 100 mm	[18"x4"]
TLT90 7410 600 0100 2	TLT90 7410 600 0100 3	TLT90 7410 600 0100 4	600 x 100 mm	[24"x4"]

- Other dimensions are available upon request.

Type 1: inside



Type 2: outside

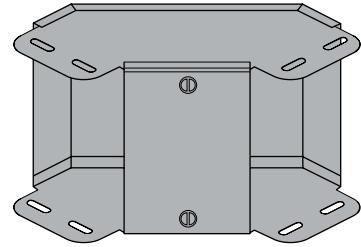


Bend 90 ° Inside Lid

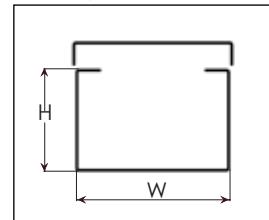
Thickness: 1 mm - 1.2 mm - 1.5 mm

IL90 7510

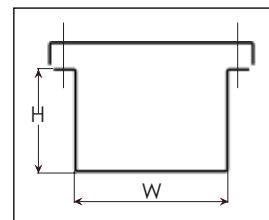
Reference			Dimensions	
1 mm	1.2 mm	1.5 mm	mm	inch
IL90 7510 050 0050 2	IL90 7510 050 0050 3	IL90 7510 050 0050 4	50 x 50 mm	[2"x2"]
IL90 7510 075 0050 2	IL90 7510 075 0050 3	IL90 7510 075 0050 4	75 x 50 mm	[3"x2"]
IL90 7510 075 0075 2	IL90 7510 075 0075 3	IL90 7510 075 0075 4	75 x 75 mm	[3"x3"]
IL90 7510 100 0050 2	IL90 7510 100 0050 3	IL90 7510 100 0050 4	100 x 50 mm	[4"x2"]
IL90 7510 100 0075 2	IL90 7510 100 0075 3	IL90 7510 100 0075 4	100 x 75 mm	[4"x3"]
IL90 7510 100 0100 2	IL90 7510 100 0100 3	IL90 7510 100 0100 4	100 x 100 mm	[4"x4"]
IL90 7510 150 0050 2	IL90 7510 150 0050 3	IL90 7510 150 0050 4	150 x 50 mm	[6"x2"]
IL90 7510 150 0075 2	IL90 7510 150 0075 3	IL90 7510 150 0075 4	150 x 75 mm	[6"x3"]
IL90 7510 150 0100 2	IL90 7510 150 0100 3	IL90 7510 150 0100 4	150 x 100 mm	[6"x4"]
IL90 7510 150 0150 2	IL90 7510 150 0150 3	IL90 7510 150 0150 4	150 x 150 mm	[6"x6"]
IL90 7510 200 0100 2	IL90 7510 200 0100 3	IL90 7510 200 0100 4	200 x 100 mm	[8"x4"]
IL90 7510 300 0100 2	IL90 7510 300 0100 3	IL90 7510 300 0100 4	300 x 100 mm	[12"x4"]
IL90 7510 450 0100 2	IL90 7510 450 0100 3	IL90 7510 450 0100 4	450 x 100 mm	[18"x4"]
IL90 7510 600 0100 2	IL90 7510 600 0100 3	IL90 7510 600 0100 4	600 x 100 mm	[24"x4"]



Type 1: inside



Type 2: outside



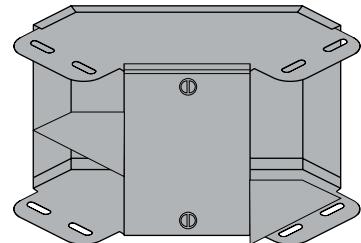
- Other dimensions are available upon request.

Bend 90 ° Inside Lid Double

Thickness: 1 mm - 1.2 mm - 1.5 mm

IL90 7510

Reference			Dimensions	
1 mm	1.2 mm	1.5 mm	mm	inch
ILD90 7510 050 0050 2	ILD90 7510 050 0050 3	ILD90 7510 050 0050 4	50 x 50 mm	[2"x2"]
ILD90 7510 075 0050 2	ILD90 7510 075 0050 3	ILD90 7510 075 0050 4	75 x 50 mm	[3"x2"]
ILD90 7510 075 0075 2	ILD90 7510 075 0075 3	ILD90 7510 075 0075 4	75 x 75 mm	[3"x3"]
ILD90 7510 100 0050 2	ILD90 7510 100 0050 3	ILD90 7510 100 0050 4	100 x 50 mm	[4"x2"]
ILD90 7510 100 0075 2	ILD90 7510 100 0075 3	ILD90 7510 100 0075 4	100 x 75 mm	[4"x3"]
ILD90 7510 100 0100 2	ILD90 7510 100 0100 3	ILD90 7510 100 0100 4	100 x 100 mm	[4"x4"]
ILD90 7510 150 0050 2	ILD90 7510 150 0050 3	ILD90 7510 150 0050 4	150 x 50 mm	[6"x2"]
ILD90 7510 150 0075 2	ILD90 7510 150 0075 3	ILD90 7510 150 0075 4	150 x 75 mm	[6"x3"]
ILD90 7510 150 0100 2	ILD90 7510 150 0100 3	ILD90 7510 150 0100 4	150 x 100 mm	[6"x4"]
ILD90 7510 150 0150 2	ILD90 7510 150 0150 3	ILD90 7510 150 0150 4	150 x 150 mm	[6"x6"]
ILD90 7510 200 0100 2	ILD90 7510 200 0100 3	ILD90 7510 200 0100 4	200 x 100 mm	[8"x4"]
ILD90 7510 300 0100 2	ILD90 7510 300 0100 3	ILD90 7510 300 0100 4	300 x 100 mm	[12"x4"]
ILD90 7510 450 0100 2	ILD90 7510 450 0100 3	ILD90 7510 450 0100 4	450 x 100 mm	[18"x4"]
ILD90 7510 600 0100 2	ILD90 7510 600 0100 3	ILD90 7510 600 0100 4	600 x 100 mm	[24"x4"]

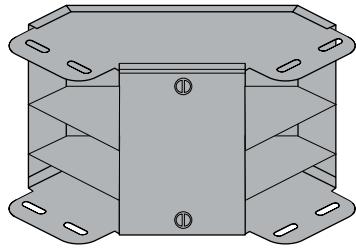


- Other dimensions are available upon request.

Bend 90 ° Inside Lid Double

Thickness: 1 mm - 1.2 mm - 1.5 mm

ILT90 7510



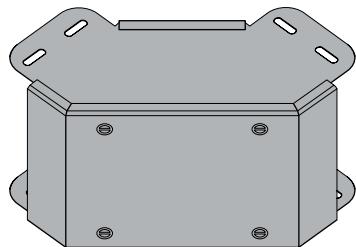
Reference			Dimensions	
1 mm	1.2 mm	1.5 mm	mm	inch
ILT90 7510 050 0050 2	ILT90 7510 050 0050 3	ILT90 7510 050 0050 4	50 x 50 mm	[2"x2"]
ILT90 7510 075 0050 2	ILT90 7510 075 0050 3	ILT90 7510 075 0050 4	75 x 50 mm	[3"x2"]
ILT90 7510 075 0075 2	ILT90 7510 075 0075 3	ILT90 7510 075 0075 4	75 x 75 mm	[3"x3"]
ILT90 7510 100 0050 2	ILT90 7510 100 0050 3	ILT90 7510 100 0050 4	100 x 50 mm	[4"x2"]
ILT90 7510 100 0075 2	ILT90 7510 100 0075 3	ILT90 7510 100 0075 4	100 x 75 mm	[4"x3"]
ILT90 7510 100 0100 2	ILT90 7510 100 0100 3	ILT90 7510 100 0100 4	100 x 100 mm	[4"x4"]
ILT90 7510 150 0050 2	ILT90 7510 150 0050 3	ILT90 7510 150 0050 4	150 x 50 mm	[6"x2"]
ILT90 7510 150 0075 2	ILT90 7510 150 0075 3	ILT90 7510 150 0075 4	150 x 75 mm	[6"x3"]
ILT90 7510 150 0100 2	ILT90 7510 150 0100 3	ILT90 7510 150 0100 4	150 x 100 mm	[6"x4"]
ILT90 7510 150 0150 2	ILT90 7510 150 0150 3	ILT90 7510 150 0150 4	150 x 150 mm	[6"x6"]
ILT90 7510 200 0100 2	ILT90 7510 200 0100 3	ILT90 7510 200 0100 4	200 x 100 mm	[8"x4"]
ILT90 7510 300 0100 2	ILT90 7510 300 0100 3	ILT90 7510 300 0100 4	300 x 100 mm	[12"x4"]
ILT90 7510 450 0100 2	ILT90 7510 450 0100 3	ILT90 7510 450 0100 4	450 x 100 mm	[18"x4"]
ILT90 7510 600 0100 2	ILT90 7510 600 0100 3	ILT90 7510 600 0100 4	600 x 100 mm	[24"x4"]

- Other dimensions are available upon request.

Bend 90 ° Outside Lid

Thickness: 1 mm - 1.2 mm - 1.5 mm

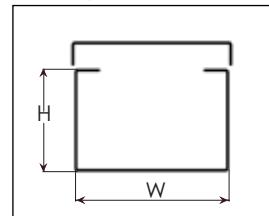
OL90 7610



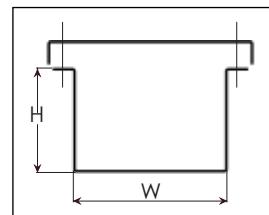
Reference			Dimensions	
1 mm	1.2 mm	1.5 mm	mm	inch
OL90 7610 050 0050 2	OL90 7610 050 0050 3	OL90 7610 050 0050 4	50 x 50 mm	[2"x2"]
OL90 7610 075 0050 2	OL90 7610 075 0050 3	OL90 7610 075 0050 4	75 x 50 mm	[3"x2"]
OL90 7610 075 0075 2	OL90 7610 075 0075 3	OL90 7610 075 0075 4	75 x 75 mm	[3"x3"]
OL90 7610 100 0050 2	OL90 7610 100 0050 3	OL90 7610 100 0050 4	100 x 50 mm	[4"x2"]
OL90 7610 100 0075 2	OL90 7610 100 0075 3	OL90 7610 100 0075 4	100 x 75 mm	[4"x3"]
OL90 7610 100 0100 2	OL90 7610 100 0100 3	OL90 7610 100 0100 4	100 x 100 mm	[4"x4"]
OL90 7610 150 0050 2	OL90 7610 150 0050 3	OL90 7610 150 0050 4	150 x 50 mm	[6"x2"]
OL90 7610 150 0075 2	OL90 7610 150 0075 3	OL90 7610 150 0075 4	150 x 75 mm	[6"x3"]
OL90 7610 150 0100 2	OL90 7610 150 0100 3	OL90 7610 150 0100 4	150 x 100 mm	[6"x4"]
OL90 7610 150 0150 2	OL90 7610 150 0150 3	OL90 7610 150 0150 4	150 x 150 mm	[6"x6"]
OL90 7610 200 0100 2	OL90 7610 200 0100 3	OL90 7610 200 0100 4	200 x 100 mm	[8"x4"]
OL90 7610 300 0100 2	OL90 7610 300 0100 3	OL90 7610 300 0100 4	300 x 100 mm	[12"x4"]
OL90 7610 450 0100 2	OL90 7610 450 0100 3	OL90 7610 450 0100 4	450 x 100 mm	[18"x4"]
OL90 7610 600 0100 2	OL90 7610 600 0100 3	OL90 7610 600 0100 4	600 x 100 mm	[24"x4"]

- Other dimensions are available upon request.

Type 1: inside



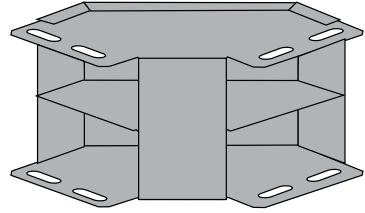
Type 2: outside



Bend 90 ° Outside Lid Double

Thickness: 1 mm - 1.2 mm - 1.5 mm

OLD90 7610



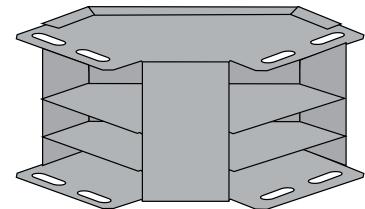
Reference			Dimensions	
1 mm	1.2 mm	1.5 mm	mm	inch
OLD90 7610 050 0050 2	OLD90 7610 050 0050 3	OLD90 7610 050 0050 4	50 x 50 mm	[2"x2"]
OLD90 7610 075 0050 2	OLD90 7610 075 0050 3	OLD90 7610 075 0050 4	75 x 50 mm	[3"x2"]
OLD90 7610 075 0075 2	OLD90 7610 075 0075 3	OLD90 7610 075 0075 4	75 x 75 mm	[3"x3"]
OLD90 7610 100 0050 2	OLD90 7610 100 0050 3	OLD90 7610 100 0050 4	100 x 50 mm	[4"x2"]
OLD90 7610 100 0075 2	OLD90 7610 100 0075 3	OLD90 7610 100 0075 4	100 x 75 mm	[4"x3"]
OLD90 7610 100 0100 2	OLD90 7610 100 0100 3	OLD90 7610 100 0100 4	100 x 100 mm	[4"x4"]
OLD90 7610 150 0050 2	OLD90 7610 150 0050 3	OLD90 7610 150 0050 4	150 x 50 mm	[6"x2"]
OLD90 7610 150 0075 2	OLD90 7610 150 0075 3	OLD90 7610 150 0075 4	150 x 75 mm	[6"x3"]
OLD90 7610 150 0100 2	OLD90 7610 150 0100 3	OLD90 7610 150 0100 4	150 x 100 mm	[6"x4"]
OLD90 7610 150 0150 2	OLD90 7610 150 0150 3	OLD90 7610 150 0150 4	150 x 150 mm	[6"x6"]
OLD90 7610 200 0100 2	OLD90 7610 200 0100 3	OLD90 7610 200 0100 4	200 x 100 mm	[8"x4"]
OLD90 7610 300 0100 2	OLD90 7610 300 0100 3	OLD90 7610 300 0100 4	300 x 100 mm	[12"x4"]
OLD90 7610 450 0100 2	OLD90 7610 450 0100 3	OLD90 7610 450 0100 4	450 x 100 mm	[18"x4"]
OLD90 7610 600 0100 2	OLD90 7610 600 0100 3	OLD90 7610 600 0100 4	600 x 100 mm	[24"x4"]

- Other dimensions are available upon request.

Bend 90 ° Outside Lid Triple

Thickness: 1 mm - 1.2 mm - 1.5 mm

OLT90 7610



Reference			Dimensions	
1 mm	1.2 mm	1.5 mm	mm	inch
OLT90 7610 050 0050 2	OLT90 7610 050 0050 3	OLT90 7610 050 0050 4	50 x 50 mm	[2"x2"]
OLT90 7610 075 0050 2	OLT90 7610 075 0050 3	OLT90 7610 075 0050 4	75 x 50 mm	[3"x2"]
OLT90 7610 075 0075 2	OLT90 7610 075 0075 3	OLT90 7610 075 0075 4	75 x 75 mm	[3"x3"]
OLT90 7610 100 0050 2	OLT90 7610 100 0050 3	OLT90 7610 100 0050 4	100 x 50 mm	[4"x2"]
OLT90 7610 100 0075 2	OLT90 7610 100 0075 3	OLT90 7610 100 0075 4	100 x 75 mm	[4"x3"]
OLT90 7610 100 0100 2	OLT90 7610 100 0100 3	OLT90 7610 100 0100 4	100 x 100 mm	[4"x4"]
OLT90 7610 150 0050 2	OLT90 7610 150 0050 3	OLT90 7610 150 0050 4	150 x 50 mm	[6"x2"]
OLT90 7610 150 0075 2	OLT90 7610 150 0075 3	OLT90 7610 150 0075 4	150 x 75 mm	[6"x3"]
OLT90 7610 150 0100 2	OLT90 7610 150 0100 3	OLT90 7610 150 0100 4	150 x 100 mm	[6"x4"]
OLT90 7610 150 0150 2	OLT90 7610 150 0150 3	OLT90 7610 150 0150 4	150 x 150 mm	[6"x6"]
OLT90 7610 200 0100 2	OLT90 7610 200 0100 3	OLT90 7610 200 0100 4	200 x 100 mm	[8"x4"]
OLT90 7610 300 0100 2	OLT90 7610 300 0100 3	OLT90 7610 300 0100 4	300 x 100 mm	[12"x4"]
OLT90 7610 450 0100 2	OLT90 7610 450 0100 3	OLT90 7610 450 0100 4	450 x 100 mm	[18"x4"]
OLT90 7610 600 0100 2	OLT90 7610 600 0100 3	OLT90 7610 600 0100 4	600 x 100 mm	[24"x4"]

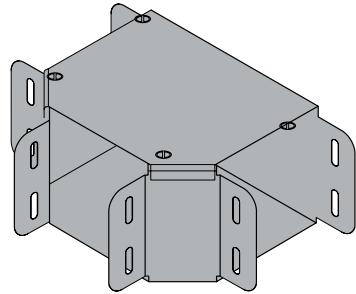
- Other dimensions are available upon request.

Tee Bend Top Lid

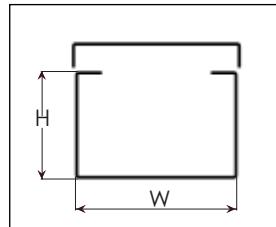
Thickness: 1 mm - 1.2 mm - 1.5 mm

TBTL 7710

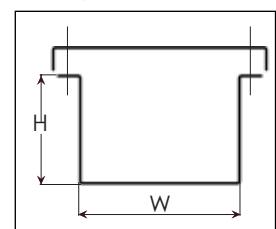
Reference			Dimensions	
1 mm	1.2 mm	1.5 mm	mm	inch
TBTL 7710 050 0050 2	TBTL 7710 050 0050 3	TBTL 7710 050 0050 4	50 x 50 mm	[2"x2"]
TBTL 7710 075 0050 2	TBTL 7710 075 0050 3	TBTL 7710 075 0050 4	75 x 50 mm	[3"x2"]
TBTL 7710 075 0075 2	TBTL 7710 075 0075 3	TBTL 7710 075 0075 4	75 x 75 mm	[3"x3"]
TBTL 7710 100 0050 2	TBTL 7710 100 0050 3	TBTL 7710 100 0050 4	100 x 50 mm	[4"x2"]
TBTL 7710 100 0075 2	TBTL 7710 100 0075 3	TBTL 7710 100 0075 4	100 x 75 mm	[4"x3"]
TBTL 7710 100 0100 2	TBTL 7710 100 0100 3	TBTL 7710 100 0100 4	100 x 100 mm	[4"x4"]
TBTL 7710 150 0050 2	TBTL 7710 150 0050 3	TBTL 7710 150 0050 4	150 x 50 mm	[6"x2"]
TBTL 7710 150 0075 2	TBTL 7710 150 0075 3	TBTL 7710 150 0075 4	150 x 75 mm	[6"x3"]
TBTL 7710 150 0100 2	TBTL 7710 150 0100 3	TBTL 7710 150 0100 4	150 x 100 mm	[6"x4"]
TBTL 7710 150 0150 2	TBTL 7710 150 0150 3	TBTL 7710 150 0150 4	150 x 150 mm	[6"x6"]
TBTL 7710 200 0100 2	TBTL 7710 200 0100 3	TBTL 7710 200 0100 4	200 x 100 mm	[8"x4"]
TBTL 7710 300 0100 2	TBTL 7710 300 0100 3	TBTL 7710 300 0100 4	300 x 100 mm	[12"x4"]
TBTL 7710 450 0100 2	TBTL 7710 450 0100 3	TBTL 7710 450 0100 4	450 x 100 mm	[18"x4"]
TBTL 7710 600 0100 2	TBTL 7710 600 0100 3	TBTL 7710 600 0100 4	600 x 100 mm	[24"x4"]



Type 1: inside



Type 2: outside



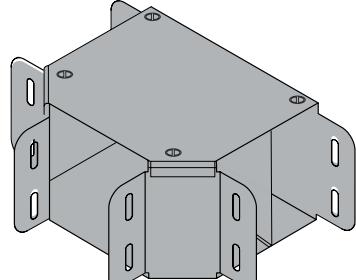
- Other dimensions are available upon request.

Tee Bend Top Lid Double

Thickness: 1 mm - 1.2 mm - 1.5 mm

TBTLD 7710

Reference			Dimensions	
1 mm	1.2 mm	1.5 mm	mm	inch
TBTLD 7710 050 0050 2	TBTLD 7710 050 0050 3	TBTLD 7710 050 0050 4	50 x 50 mm	[2"x2"]
TBTLD 7710 075 0050 2	TBTLD 7710 075 0050 3	TBTLD 7710 075 0050 4	75 x 50 mm	[3"x2"]
TBTLD 7710 075 0075 2	TBTLD 7710 075 0075 3	TBTLD 7710 075 0075 4	75 x 75 mm	[3"x3"]
TBTLD 7710 100 0050 2	TBTLD 7710 100 0050 3	TBTLD 7710 100 0050 4	100 x 50 mm	[4"x2"]
TBTLD 7710 100 0075 2	TBTLD 7710 100 0075 3	TBTLD 7710 100 0075 4	100 x 75 mm	[4"x3"]
TBTLD 7710 100 0100 2	TBTLD 7710 100 0100 3	TBTLD 7710 100 0100 4	100 x 100 mm	[4"x4"]
TBTLD 7710 150 0050 2	TBTLD 7710 150 0050 3	TBTLD 7710 150 0050 4	150 x 50 mm	[6"x2"]
TBTLD 7710 150 0075 2	TBTLD 7710 150 0075 3	TBTLD 7710 150 0075 4	150 x 75 mm	[6"x3"]
TBTLD 7710 150 0100 2	TBTLD 7710 150 0100 3	TBTLD 7710 150 0100 4	150 x 100 mm	[6"x4"]
TBTLD 7710 150 0150 2	TBTLD 7710 150 0150 3	TBTLD 7710 150 0150 4	150 x 150 mm	[6"x6"]
TBTLD 7710 200 0100 2	TBTLD 7710 200 0100 3	TBTLD 7710 200 0100 4	200 x 100 mm	[8"x4"]
TBTLD 7710 300 0100 2	TBTLD 7710 300 0100 3	TBTLD 7710 300 0100 4	300 x 100 mm	[12"x4"]
TBTLD 7710 450 0100 2	TBTLD 7710 450 0100 3	TBTLD 7710 450 0100 4	450 x 100 mm	[18"x4"]
TBTLD 7710 600 0100 2	TBTLD 7710 600 0100 3	TBTLD 7710 600 0100 4	600 x 100 mm	[24"x4"]



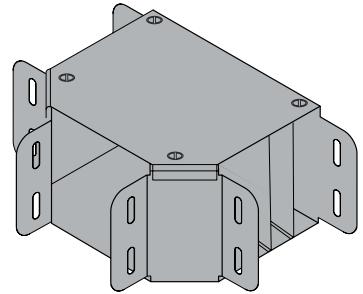
- Other dimensions are available upon request.

Tee Bend Top Lid Triple

Thickness: 1 mm - 1.2 mm - 1.5 mm

TBTLT 7710

Reference			Dimensions	
1 mm	1.2 mm	1.5 mm	mm	inch
TBTLT 7710 050 0050 2	TBTLT 7710 050 0050 3	TBTLT 7710 050 0050 4	50 x 50 mm	[2"x2"]
TBTLT 7710 075 0050 2	TBTLT 7710 075 0050 3	TBTLT 7710 075 0050 4	75 x 50 mm	[3"x2"]
TBTLT 7710 075 0075 2	TBTLT 7710 075 0075 3	TBTLT 7710 075 0075 4	75 x 75 mm	[3"x3"]
TBTLT 7710 100 0050 2	TBTLT 7710 100 0050 3	TBTLT 7710 100 0050 4	100 x 50 mm	[4"x2"]
TBTLT 7710 100 0075 2	TBTLT 7710 100 0075 3	TBTLT 7710 100 0075 4	100 x 75 mm	[4"x3"]
TBTLT 7710 100 0100 2	TBTLT 7710 100 0100 3	TBTLT 7710 100 0100 4	100 x 100 mm	[4"x4"]
TBTLT 7710 150 0050 2	TBTLT 7710 150 0050 3	TBTLT 7710 150 0050 4	150 x 50 mm	[6"x2"]
TBTLT 7710 150 0075 2	TBTLT 7710 150 0075 3	TBTLT 7710 150 0075 4	150 x 75 mm	[6"x3"]
TBTLT 7710 150 0100 2	TBTLT 7710 150 0100 3	TBTLT 7710 150 0100 4	150 x 100 mm	[6"x4"]
TBTLT 7710 150 0150 2	TBTLT 7710 150 0150 3	TBTLT 7710 150 0150 4	150 x 150 mm	[6"x6"]
TBTLT 7710 200 0100 2	TBTLT 7710 200 0100 3	TBTLT 7710 200 0100 4	200 x 100 mm	[8"x4"]
TBTLT 7710 300 0100 2	TBTLT 7710 300 0100 3	TBTLT 7710 300 0100 4	300 x 100 mm	[12"x4"]
TBTLT 7710 450 0100 2	TBTLT 7710 450 0100 3	TBTLT 7710 450 0100 4	450 x 100 mm	[18"x4"]
TBTLT 7710 600 0100 2	TBTLT 7710 600 0100 3	TBTLT 7710 600 0100 4	600 x 100 mm	[24"x4"]



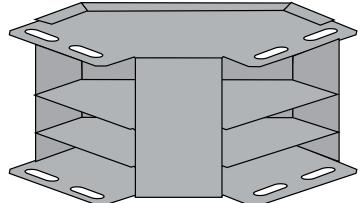
- Other dimensions are available upon request.

Tee Bend Inside Lid

Thickness: 1 mm - 1.2 mm - 1.5 mm

TBIL 7810

Reference			Dimensions	
1 mm	1.2 mm	1.5 mm	mm	inch
TBIL 7810 050 0050 2	TBIL 7810 050 0050 3	TBIL 7810 050 0050 4	50 x 50 mm	[2"x2"]
TBIL 7810 075 0050 2	TBIL 7810 075 0050 3	TBIL 7810 075 0050 4	75 x 50 mm	[3"x2"]
TBIL 7810 075 0075 2	TBIL 7810 075 0075 3	TBIL 7810 075 0075 4	75 x 75 mm	[3"x3"]
TBIL 7810 100 0050 2	TBIL 7810 100 0050 3	TBIL 7810 100 0050 4	100 x 50 mm	[4"x2"]
TBIL 7810 100 0075 2	TBIL 7810 100 0075 3	TBIL 7810 100 0075 4	100 x 75 mm	[4"x3"]
TBIL 7810 100 0100 2	TBIL 7810 100 0100 3	TBIL 7810 100 0100 4	100 x 100 mm	[4"x4"]
TBIL 7810 150 0050 2	TBIL 7810 150 0050 3	TBIL 7810 150 0050 4	150 x 50 mm	[6"x2"]
TBIL 7810 150 0075 2	TBIL 7810 150 0075 3	TBIL 7810 150 0075 4	150 x 75 mm	[6"x3"]
TBIL 7810 150 0100 2	TBIL 7810 150 0100 3	TBIL 7810 150 0100 4	150 x 100 mm	[6"x4"]
TBIL 7810 150 0150 2	TBIL 7810 150 0150 3	TBIL 7810 150 0150 4	150 x 150 mm	[6"x6"]
TBIL 7810 200 0100 2	TBIL 7810 200 0100 3	TBIL 7810 200 0100 4	200 x 100 mm	[8"x4"]
TBIL 7810 300 0100 2	TBIL 7810 300 0100 3	TBIL 7810 300 0100 4	300 x 100 mm	[12"x4"]
TBIL 7810 450 0100 2	TBIL 7810 450 0100 3	TBIL 7810 450 0100 4	450 x 100 mm	[18"x4"]
TBIL 7810 600 0100 2	TBIL 7810 600 0100 3	TBIL 7810 600 0100 4	600 x 100 mm	[24"x4"]



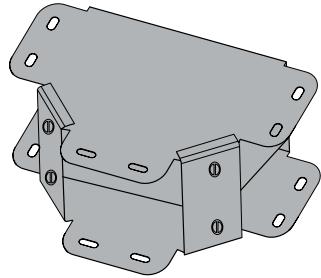
- Other dimensions are available upon request.

Tee Bend Inside Lid Double

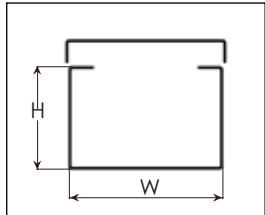
Thickness: 1 mm - 1.2 mm - 1.5 mm

TBILD 7810

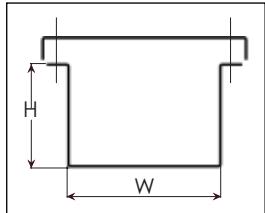
Reference			Dimensions	
1 mm	1.2 mm	1.5 mm	mm	inch
TBILD 7810 050 0050 2	TBILD 7810 050 0050 3	TBILD 7810 050 0050 4	50 x 50 mm	[2"x2"]
TBILD 7810 075 0050 2	TBILD 7810 075 0050 3	TBILD 7810 075 0050 4	75 x 50 mm	[3"x2"]
TBILD 7810 075 0075 2	TBILD 7810 075 0075 3	TBILD 7810 075 0075 4	75 x 75 mm	[3"x3"]
TBILD 7810 100 0050 2	TBILD 7810 100 0050 3	TBILD 7810 100 0050 4	100 x 50 mm	[4"x2"]
TBILD 7810 100 0075 2	TBILD 7810 100 0075 3	TBILD 7810 100 0075 4	100 x 75 mm	[4"x3"]
TBILD 7810 100 0100 2	TBILD 7810 100 0100 3	TBILD 7810 100 0100 4	100 x 100 mm	[4"x4"]
TBILD 7810 150 0050 2	TBILD 7810 150 0050 3	TBILD 7810 150 0050 4	150 x 50 mm	[6"x2"]
TBILD 7810 150 0075 2	TBILD 7810 150 0075 3	TBILD 7810 150 0075 4	150 x 75 mm	[6"x3"]
TBILD 7810 150 0100 2	TBILD 7810 150 0100 3	TBILD 7810 150 0100 4	150 x 100 mm	[6"x4"]
TBILD 7810 150 0150 2	TBILD 7810 150 0150 3	TBILD 7810 150 0150 4	150 x 150 mm	[6"x6"]
TBILD 7810 200 0100 2	TBILD 7810 200 0100 3	TBILD 7810 200 0100 4	200 x 100 mm	[8"x4"]
TBILD 7810 300 0100 2	TBILD 7810 300 0100 3	TBILD 7810 300 0100 4	300 x 100 mm	[12"x4"]
TBILD 7810 450 0100 2	TBILD 7810 450 0100 3	TBILD 7810 450 0100 4	450 x 100 mm	[18"x4"]
TBILD 7810 600 0100 2	TBILD 7810 600 0100 3	TBILD 7810 600 0100 4	600 x 100 mm	[24"x4"]



Type 1: inside



Type 2: outside



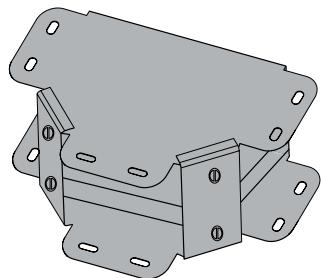
- Other dimensions are available upon request.

Tee Bend Inside Lid Triple

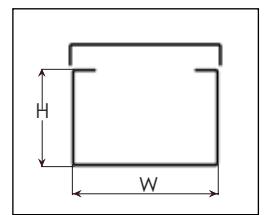
Thickness: 1 mm - 1.2 mm - 1.5 mm

TBILT 7810

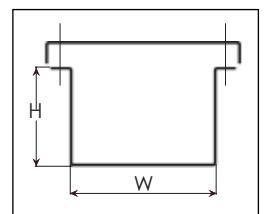
Reference			Dimensions	
1 mm	1.2 mm	1.5 mm	mm	inch
TBILT 7810 050 0050 2	TBILT 7810 050 0050 3	TBILT 7810 050 0050 4	50 x 50 mm	[2"x2"]
TBILT 7810 075 0050 2	TBILT 7810 075 0050 3	TBILT 7810 075 0050 4	75 x 50 mm	[3"x2"]
TBILT 7810 075 0075 2	TBILT 7810 075 0075 3	TBILT 7810 075 0075 4	75 x 75 mm	[3"x3"]
TBILT 7810 100 0050 2	TBILT 7810 100 0050 3	TBILT 7810 100 0050 4	100 x 50 mm	[4"x2"]
TBILT 7810 100 0075 2	TBILT 7810 100 0075 3	TBILT 7810 100 0075 4	100 x 75 mm	[4"x3"]
TBILT 7810 100 0100 2	TBILT 7810 100 0100 3	TBILT 7810 100 0100 4	100 x 100 mm	[4"x4"]
TBILT 7810 150 0050 2	TBILT 7810 150 0050 3	TBILT 7810 150 0050 4	150 x 50 mm	[6"x2"]
TBILT 7810 150 0075 2	TBILT 7810 150 0075 3	TBILT 7810 150 0075 4	150 x 75 mm	[6"x3"]
TBILT 7810 150 0100 2	TBILT 7810 150 0100 3	TBILT 7810 150 0100 4	150 x 100 mm	[6"x4"]
TBILT 7810 150 0150 2	TBILT 7810 150 0150 3	TBILT 7810 150 0150 4	150 x 150 mm	[6"x6"]
TBILT 7810 200 0100 2	TBILT 7810 200 0100 3	TBILT 7810 200 0100 4	200 x 100 mm	[8"x4"]
TBILT 7810 300 0100 2	TBILT 7810 300 0100 3	TBILT 7810 300 0100 4	300 x 100 mm	[12"x4"]
TBILT 7810 450 0100 2	TBILT 7810 450 0100 3	TBILT 7810 450 0100 4	450 x 100 mm	[18"x4"]
TBILT 7810 600 0100 2	TBILT 7810 600 0100 3	TBILT 7810 600 0100 4	600 x 100 mm	[24"x4"]



Type 1: inside



Type 2: outside

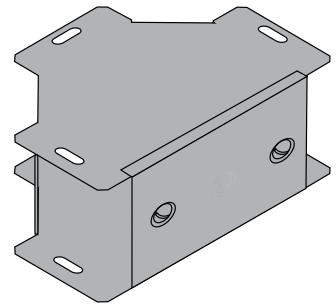


- Other dimensions are available upon request.

Tee Bend Outside Lid

Thickness: 1 mm - 1.2 mm - 1.5 mm

TBOL 7910



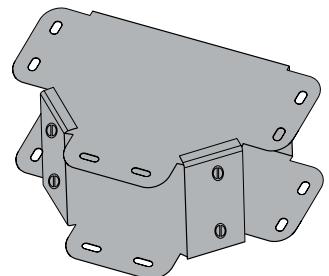
Reference			Dimensions	
1 mm	1.2 mm	1.5 mm	mm	inch
TBOL 7910 050 0050 2	TBOL 7910 050 0050 3	TBOL 7910 050 0050 4	50 x 50 mm	[2"x2"]
TBOL 7910 075 0050 2	TBOL 7910 075 0050 3	TBOL 7910 075 0050 4	75 x 50 mm	[3"x2"]
TBOL 7910 075 0075 2	TBOL 7910 075 0075 3	TBOL 7910 075 0075 4	75 x 75 mm	[3"x3"]
TBOL 7910 100 0050 2	TBOL 7910 100 0050 3	TBOL 7910 100 0050 4	100 x 50 mm	[4"x2"]
TBOL 7910 100 0075 2	TBOL 7910 100 0075 3	TBOL 7910 100 0075 4	100 x 75 mm	[4"x3"]
TBOL 7910 100 0100 2	TBOL 7910 100 0100 3	TBOL 7910 100 0100 4	100 x 100 mm	[4"x4"]
TBOL 7910 150 0050 2	TBOL 7910 150 0050 3	TBOL 7910 150 0050 4	150 x 50 mm	[6"x2"]
TBOL 7910 150 0075 2	TBOL 7910 150 0075 3	TBOL 7910 150 0075 4	150 x 75 mm	[6"x3"]
TBOL 7910 150 0100 2	TBOL 7910 150 0100 3	TBOL 7910 150 0100 4	150 x 100 mm	[6"x4"]
TBOL 7910 150 0150 2	TBOL 7910 150 0150 3	TBOL 7910 150 0150 4	150 x 150 mm	[6"x6"]
TBOL 7910 200 0100 2	TBOL 7910 200 0100 3	TBOL 7910 200 0100 4	200 x 100 mm	[8"x4"]
TBOL 7910 300 0100 2	TBOL 7910 300 0100 3	TBOL 7910 300 0100 4	300 x 100 mm	[12"x4"]
TBOL 7910 450 0100 2	TBOL 7910 450 0100 3	TBOL 7910 450 0100 4	450 x 100 mm	[18"x4"]
TBOL 7910 600 0100 2	TBOL 7910 600 0100 3	TBOL 7910 600 0100 4	600 x 100 mm	[24"x4"]

- Other dimensions are available upon request.

Tee Bend Outside Lid Double

Thickness: 1 mm - 1.2 mm - 1.5 mm

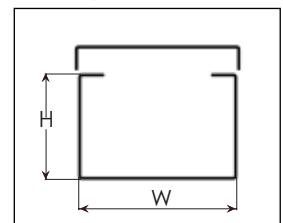
TBOLD 7910



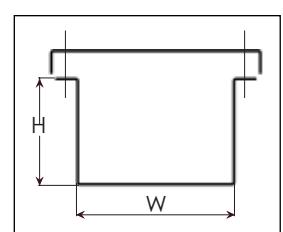
Reference			Dimensions	
1 mm	1.2 mm	1.5 mm	mm	inch
TBOLD 7910 050 0050 2	TBOLD 7910 050 0050 3	TBOLD 7910 050 0050 4	50 x 50 mm	[2"x2"]
TBOLD 7910 075 0050 2	TBOLD 7910 075 0050 3	TBOLD 7910 075 0050 4	75 x 50 mm	[3"x2"]
TBOLD 7910 075 0075 2	TBOLD 7910 075 0075 3	TBOLD 7910 075 0075 4	75 x 75 mm	[3"x3"]
TBOLD 7910 100 0050 2	TBOLD 7910 100 0050 3	TBOLD 7910 100 0050 4	100 x 50 mm	[4"x2"]
TBOLD 7910 100 0075 2	TBOLD 7910 100 0075 3	TBOLD 7910 100 0075 4	100 x 75 mm	[4"x3"]
TBOLD 7910 100 0100 2	TBOLD 7910 100 0100 3	TBOLD 7910 100 0100 4	100 x 100 mm	[4"x4"]
TBOLD 7910 150 0050 2	TBOLD 7910 150 0050 3	TBOLD 7910 150 0050 4	150 x 50 mm	[6"x2"]
TBOLD 7910 150 0075 2	TBOLD 7910 150 0075 3	TBOLD 7910 150 0075 4	150 x 75 mm	[6"x3"]
TBOLD 7910 150 0100 2	TBOLD 7910 150 0100 3	TBOLD 7910 150 0100 4	150 x 100 mm	[6"x4"]
TBOLD 7910 150 0150 2	TBOLD 7910 150 0150 3	TBOLD 7910 150 0150 4	150 x 150 mm	[6"x6"]
TBOLD 7910 200 0100 2	TBOLD 7910 200 0100 3	TBOLD 7910 200 0100 4	200 x 100 mm	[8"x4"]
TBOLD 7910 300 0100 2	TBOLD 7910 300 0100 3	TBOLD 7910 300 0100 4	300 x 100 mm	[12"x4"]
TBOLD 7910 450 0100 2	TBOLD 7910 450 0100 3	TBOLD 7910 450 0100 4	450 x 100 mm	[18"x4"]
TBOLD 7910 600 0100 2	TBOLD 7910 600 0100 3	TBOLD 7910 600 0100 4	600 x 100 mm	[24"x4"]

- Other dimensions are available upon request.

Type 1: inside



Type 2: outside

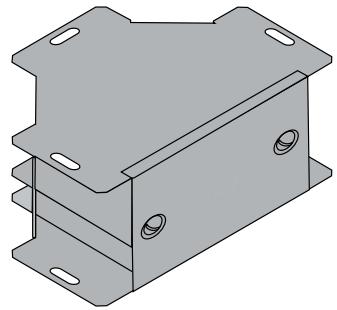


Tee Bend Outside Lid Triple

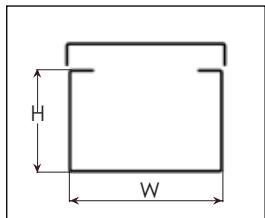
Thickness: 1 mm - 1.2 mm - 1.5 mm

TBOLT 7910

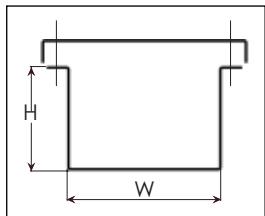
Reference			Dimensions	
1 mm	1.2 mm	1.5 mm	mm	inch
TBOLT 7910 050 0050 2	TBOLT 7910 050 0050 3	TBOLT 7915 050 0050 4	50 x 50 mm	[2"x2"]
TBOLT 7910 075 0050 2	TBOLT 7910 075 0050 3	TBOLT 7915 075 0050 4	75 x 50 mm	[3"x2"]
TBOLT 7910 075 0075 2	TBOLT 7910 075 0075 3	TBOLT 7915 075 0075 4	75 x 75 mm	[3"x3"]
TBOLT 7910 100 0050 2	TBOLT 7910 100 0050 3	TBOLT 7915 100 0050 4	100 x 50 mm	[4"x2"]
TBOLT 7910 100 0075 2	TBOLT 7910 100 0075 3	TBOLT 7915 100 0075 4	100 x 75 mm	[4"x3"]
TBOLT 7910 100 0100 2	TBOLT 7910 100 0100 3	TBOLT 7915 100 0100 4	100 x 100 mm	[4"x4"]
TBOLT 7910 150 0050 2	TBOLT 7910 150 0050 3	TBOLT 7915 150 0050 4	150 x 50 mm	[6"x2"]
TBOLT 7910 150 0075 2	TBOLT 7910 150 0075 3	TBOLT 7915 150 0075 4	150 x 75 mm	[6"x3"]
TBOLT 7910 150 0100 2	TBOLT 7910 150 0100 3	TBOLT 7915 150 0100 4	150 x 100 mm	[6"x4"]
TBOLT 7910 150 0150 2	TBOLT 7910 150 0150 3	TBOLT 7915 150 0150 4	150 x 150 mm	[6"x6"]
TBOLT 7910 200 0100 2	TBOLT 7910 200 0100 3	TBOLT 7915 200 0100 4	200 x 100 mm	[8"x4"]
TBOLT 7910 300 0100 2	TBOLT 7910 300 0100 3	TBOLT 7915 300 0100 4	300 x 100 mm	[12"x4"]
TBOLT 7910 450 0100 2	TBOLT 7910 450 0100 3	TBOLT 7915 450 0100 4	450 x 100 mm	[18"x4"]
TBOLT 7910 600 0100 2	TBOLT 7910 600 0100 3	TBOLT 7915 600 0100 4	600 x 100 mm	[24"x4"]



Type 1: inside



Type 2: outside



- Other dimensions are available upon request.

Intersection

Thickness: 1 mm - 1.2 mm - 1.5 mm

IF 8010

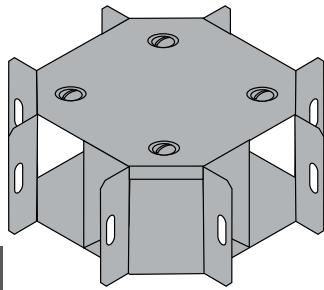
Reference			Dimensions	
1 mm	1.2 mm	1.5 mm	mm	inch
IF 8010 050 0050 2	IF 8010 050 0050 3	IF 8010 050 0050 4	50 x 50 mm	[2"x2"]
IF 8010 075 0050 2	IF 8010 075 0050 3	IF 8010 075 0050 4	75 x 50 mm	[3"x2"]
IF 8010 075 0075 2	IF 8010 075 0075 3	IF 8010 075 0075 4	75 x 75 mm	[3"x3"]
IF 8010 100 0050 2	IF 8010 100 0050 3	IF 8010 100 0050 4	100 x 50 mm	[4"x2"]
IF 8010 100 0075 2	IF 8010 100 0075 3	IF 8010 100 0075 4	100 x 75 mm	[4"x3"]
IF 8010 100 0100 2	IF 8010 100 0100 3	IF 8010 100 0100 4	100 x 100 mm	[4"x4"]
IF 8010 150 0050 2	IF 8010 150 0050 3	IF 8010 150 0050 4	150 x 50 mm	[6"x2"]
IF 8010 150 0075 2	IF 8010 150 0075 3	IF 8010 150 0075 4	150 x 75 mm	[6"x3"]
IF 8010 150 0100 2	IF 8010 150 0100 3	IF 8010 150 0100 4	150 x 100 mm	[6"x4"]
IF 8010 150 0150 2	IF 8010 150 0150 3	IF 8010 150 0150 4	150 x 150 mm	[6"x6"]
IF 8010 200 0100 2	IF 8010 200 0100 3	IF 8010 200 0100 4	200 x 100 mm	[8"x4"]
IF 8010 300 0100 2	IF 8010 300 0100 3	IF 8010 300 0100 4	300 x 100 mm	[12"x4"]
IF 8010 450 0100 2	IF 8010 450 0100 3	IF 8010 450 0100 4	450 x 100 mm	[18"x4"]
IF 8010 600 0100 2	IF 8010 600 0100 3	IF 8010 600 0100 4	600 x 100 mm	[24"x4"]

- Other dimensions are available upon request.

Intersection Double

Thickness: 1 mm - 1.2 mm - 1.5 mm

IFD 8010



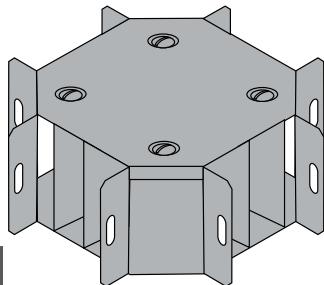
Reference			Dimensions	
1 mm	1.2 mm	1.5 mm	mm	inch
IFD 8010 050 0050 2	IFD 8010 050 0050 3	IFD 8010 050 0050 4	50 x 50 mm	[2"x2"]
IFD 8010 075 0050 2	IFD 8010 075 0050 3	IFD 8010 075 0050 4	75 x 50 mm	[3"x2"]
IFD 8010 075 0075 2	IFD 8010 075 0075 3	IFD 8010 075 0075 4	75 x 75 mm	[3"x3"]
IFD 8010 100 0050 2	IFD 8010 100 0050 3	IFD 8010 100 0050 4	100 x 50 mm	[4"x2"]
IFD 8010 100 0075 2	IFD 8010 100 0075 3	IFD 8010 100 0075 4	100 x 75 mm	[4"x3"]
IFD 8010 100 0100 2	IFD 8010 100 0100 3	IFD 8010 100 0100 4	100 x 100 mm	[4"x4"]
IFD 8010 150 0050 2	IFD 8010 150 0050 3	IFD 8010 150 0050 4	150 x 50 mm	[6"x2"]
IFD 8010 150 0075 2	IFD 8010 150 0075 3	IFD 8010 150 0075 4	150 x 75 mm	[6"x3"]
IFD 8010 150 0100 2	IFD 8010 150 0100 3	IFD 8010 150 0100 4	150 x 100 mm	[6"x4"]
IFD 8010 150 0150 2	IFD 8010 150 0150 3	IFD 8010 150 0150 4	150 x 150 mm	[6"x6"]
IFD 8010 200 0100 2	IFD 8010 200 0100 3	IFD 8010 200 0100 4	200 x 100 mm	[8"x4"]
IFD 8010 300 0100 2	IFD 8010 300 0100 3	IFD 8010 300 0100 4	300 x 100 mm	[12"x4"]
IFD 8010 450 0100 2	IFD 8010 450 0100 3	IFD 8010 450 0100 4	450 x 100 mm	[18"x4"]
IFD 8010 600 0100 2	IFD 8010 600 0100 3	IFD 8010 600 0100 4	600 x 100 mm	[24"x4"]

- Other dimensions are available upon request.

Intersection Triple

Thickness: 1 mm - 1.2 mm - 1.5 mm

IFT 8010



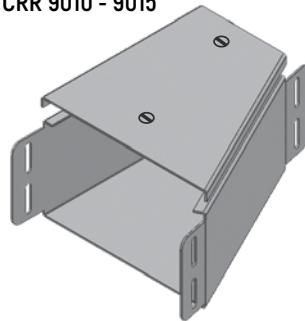
Reference			Dimensions	
1 mm	1.2 mm	1.5 mm	mm	inch
IFT 8010 050 0050 2	IFT 8010 050 0050 3	IFT 8010 050 0050 4	50 x 50 mm	[2"x2"]
IFT 8010 075 0050 2	IFT 8010 075 0050 3	IFT 8010 075 0050 4	75 x 50 mm	[3"x2"]
IFT 8010 075 0075 2	IFT 8010 075 0075 3	IFT 8010 075 0075 4	75 x 75 mm	[3"x3"]
IFT 8010 100 0050 2	IFT 8010 100 0050 3	IFT 8010 100 0050 4	100 x 50 mm	[4"x2"]
IFT 8010 100 0075 2	IFT 8010 100 0075 3	IFT 8010 100 0075 4	100 x 75 mm	[4"x3"]
IFT 8010 100 0100 2	IFT 8010 100 0100 3	IFT 8010 100 0100 4	100 x 100 mm	[4"x4"]
IFT 8010 150 0050 2	IFT 8010 150 0050 3	IFT 8010 150 0050 4	150 x 50 mm	[6"x2"]
IFT 8010 150 0075 2	IFT 8010 150 0075 3	IFT 8010 150 0075 4	150 x 75 mm	[6"x3"]
IFT 8010 150 0100 2	IFT 8010 150 0100 3	IFT 8010 150 0100 4	150 x 100 mm	[6"x4"]
IFT 8010 150 0150 2	IFT 8010 150 0150 3	IFT 8010 150 0150 4	150 x 150 mm	[6"x6"]
IFT 8010 200 0100 2	IFT 8010 200 0100 3	IFT 8010 200 0100 4	200 x 100 mm	[8"x4"]
IFT 8010 300 0100 2	IFT 8010 300 0100 3	IFT 8010 300 0100 4	300 x 100 mm	[12"x4"]
IFT 8010 450 0100 2	IFT 8010 450 0100 3	IFT 8010 450 0100 4	450 x 100 mm	[18"x4"]
IFT 8010 600 0100 2	IFT 8010 600 0100 3	IFT 8010 600 0100 4	600 x 100 mm	[24"x4"]

- Other dimensions are available upon request.

Reducers

Central Right Reducer

CRR 9010 - 9015



Reducers are usually manufactured to fit all available trunking sizes and required reduction.

CR 9010 - 9015

Right Reducer

Reference			Dimensions
1 mm	1.2 mm	1.5 mm	mm
CR 9010 075 0050 2	CR 9010 075 0050 3	CR 9010 075 0050 4	75 x 75 mm - 50 x 50 mm
CR 9010 100 0050 2	CR 9010 100 0050 3	CR 9010 100 0050 4	100 x 100 mm - 100 x 50 mm
CR 9010 100 0075 2	CR 9010 100 0075 3	CR 9010 100 0075 4	100 x 100 mm - 75 x 75 mm
CR 9010 100 0050 2	CR 9010 100 0050 3	CR 9010 100 0050 4	100 x 100 mm - 50 x 50 mm
CR 9010 150 0050 2	CR 9010 150 0050 3	CR 9010 150 0050 4	150 x 150 mm - 50 x 50 mm
CR 9010 150 0075 2	CR 9010 150 0075 3	CR 9010 150 0075 4	150 x 150 mm - 75 x 75 mm
CR 9010 150 0100 2	CR 9010 150 0100 3	CR 9010 150 0100 4	150 x 150 mm - 100 x 100 mm
CR 9010 200 0100 2	CR 9010 200 0100 3	CR 9010 200 0100 4	200 x 100 mm - 100 x 100 mm
CR 9010 200 0150 2	CR 9010 200 0150 3	CR 9010 200 0150 4	200 x 100 mm - 150 x 100 mm
CR 9010 300 0200 2	CR 9010 300 0200 3	CR 9010 300 0200 4	300 x 100 mm - 100 x 100 mm
CR 9010 300 0150 2	CR 9010 300 0150 3	CR 9010 300 0150 4	300 x 100 mm - 150 x 100 mm
CR 9010 300 0100 2	CR 9010 300 0100 3	CR 9010 300 0100 4	300 x 100 mm - 100 x 100 mm
CR 9010 450 0300 2	CR 9010 450 0300 3	CR 9010 450 0300 4	450 x 100 mm - 300 x 100 mm
CR 9010 450 0200 2	CR 9010 450 0200 3	CR 9010 450 0200 4	450 x 100 mm - 200 x 100 mm
CR 9010 450 0100 2	CR 9010 450 0100 3	CR 9010 450 0100 4	450 x 100 mm - 100 x 100 mm
CR 9010 600 0450 2	CR 9010 600 0450 3	CR 9010 600 0450 4	600 x 100 mm - 450 x 100 mm
CR 9010 600 0300 2	CR 9010 600 0300 3	CR 9010 600 0300 4	600 x 100 mm - 300 x 100 mm
CR 9010 600 0200 2	CR 9010 600 0200 3	CR 9010 600 0200 4	600 x 100 mm - 200 x 100 mm
CR 9010 600 0100 2	CR 9010 600 0100 3	CR 9010 600 0100 4	600 x 100 mm - 100 x 100 mm

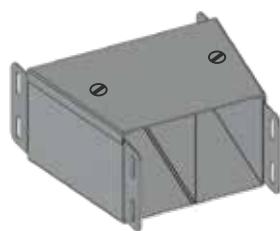
Central Reducer Single

CRS 9010 - 9015



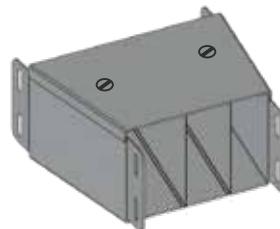
Central Reducer Double

CRD 9010 - 9015



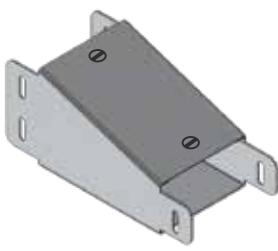
Central Reducer Triple

CRT 9010 - 9015



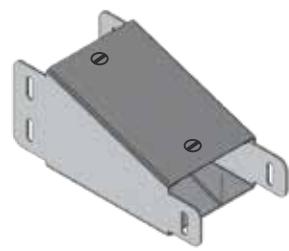
Central Half Single

CR2 9010 - 9015



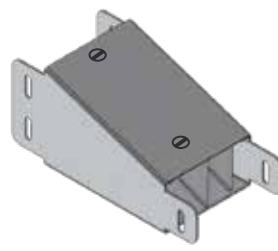
Central Half Double

CR2D 9010 - 9015

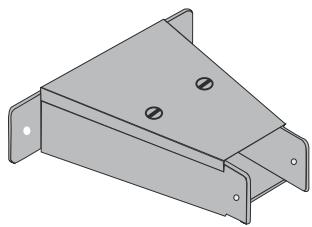


Central Half Triple

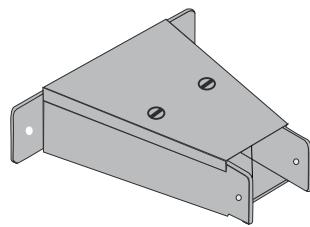
CR2T 9010 - 9015



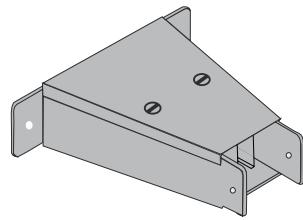
Bellmouth Single
BLMS 9916



Bellmouth Double
BLMD 9916



Bellmouth Triple
BLMT 9916



Reference			Dimensions	
1 mm	1.2 mm	1.5 mm	mm	inch
BLM 9916 050 0050 2	BLM 9916 050 0050 3	BLM 9916 050 0050 4	50 x 50 mm	[2"x2"]
BLM 9916 075 0050 2	BLM 9916 075 0050 3	BLM 9916 075 0050 4	75 x 50 mm	[3"x2"]
BLM 9916 075 0075 2	BLM 9916 075 0075 3	BLM 9916 075 0075 4	75 x 75 mm	[3"x3"]
BLM 9916 100 0050 2	BLM 9916 100 0050 3	BLM 9916 100 0050 4	100 x 50 mm	[4"x2"]
BLM 9916 100 0075 2	BLM 9916 100 0075 3	BLM 9916 100 0075 4	100 x 75 mm	[4"x3"]
BLM 9916 100 0100 2	BLM 9916 100 0100 3	BLM 9916 100 0100 4	100 x 100 mm	[4"x4"]
BLM 9916 150 0050 2	BLM 9916 150 0050 3	BLM 9916 150 0050 4	150 x 50 mm	[6"x2"]
BLM 9916 150 0075 2	BLM 9916 150 0075 3	BLM 9916 150 0075 4	150 x 75 mm	[6"x3"]
BLM 9916 150 0100 2	BLM 9916 150 0100 3	BLM 9916 150 0100 4	150 x 100 mm	[6"x4"]
BLM 9916 150 0150 2	BLM 9916 150 0150 3	BLM 9916 150 0150 4	150 x 150 mm	[6"x6"]
BLM 9916 200 0100 2	BLM 9916 200 0100 3	BLM 9916 200 0100 4	200 x 100 mm	[8"x4"]
BLM 9916 300 0100 2	BLM 9916 300 0100 3	BLM 9916 300 0100 4	300 x 100 mm	[12"x4"]
BLM 9916 450 0100 2	BLM 9916 450 0100 3	BLM 9916 450 0100 4	450 x 100 mm	[18"x4"]
BLM 9916 600 0100 2	BLM 9916 600 0100 3	BLM 9916 600 0100 4	600 x 100 mm	[24"x4"]

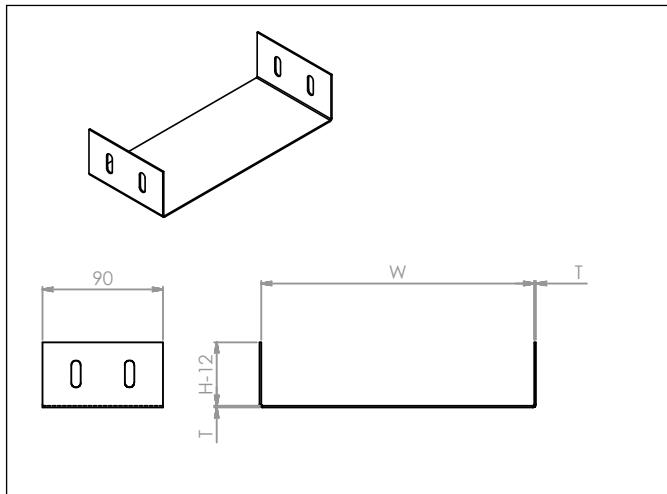
- Other dimensions are available upon request.



TRUNKING ACCESSORIES

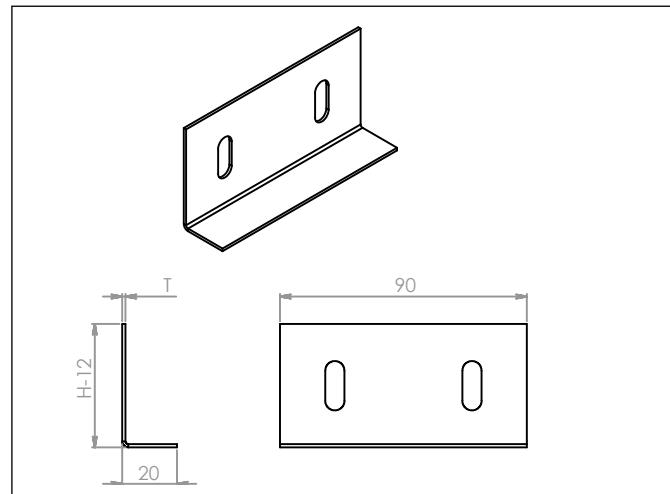
U CONNECTOR / STOP END

ASC 9020



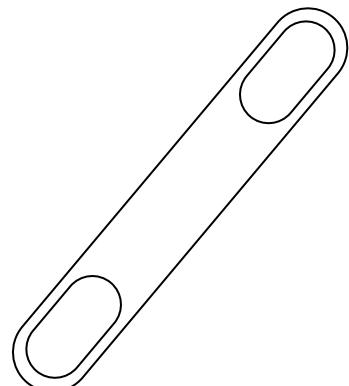
FLANGED CONNECTOR

AFC 9025



EARTH LINKS

Features	
Lenght	55 mm
Width	10 mm
Two Slots	13 mm x 6 mm
Thickness	0.5 mm
Density	0.0024 KG
Material	Copper Coated with Electro-Nickle



Continuity by joining two trunkings

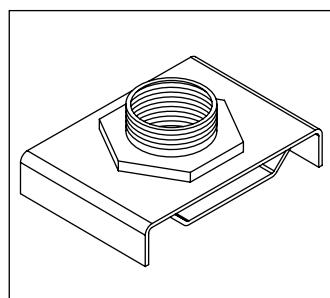
Manufactured with improved features and equivalent to international standards BS-7630

Application: To earth any size or any make of trunkings

SUSPENSION BRACKET

ASB 9035

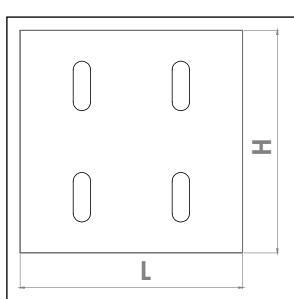
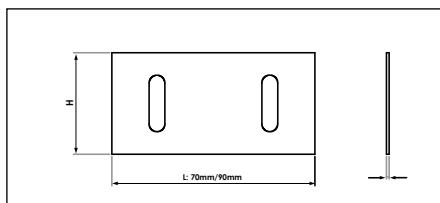
- 50 x 50 mm
- 75 x 75 mm



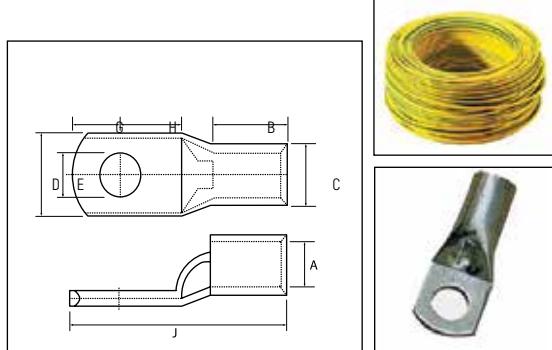
With brass & steel lock nuts

STRAIGHT CONNECTOR

ACR 9040

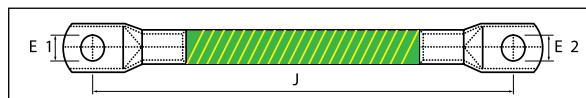


- CRIMPING TYPE COPPER TUBULAR CABLE TERMINAL ENDS - 1200



Cable mm ²	Stud Hole	Dimensions (mm)						
		A	C	D	G	H	B	L
1.5	6.5	1.8	3	10	4	6	6	18
2.5	6.5 8.4	2.4 2.4	4 4.2	10 12	5 6	6 9	8 8	21 26
4	6.5 8.4	3.1 3.1	4.8 5.0	10 12	5 6	6 9	8 8	21 26
6	6.5 8.4	3.8 3.8	4.8 5.0	10 12	5 6	6 9	10 10	24 28
10	6.5 8.4	4.5 4.5	4.8 5.0	11 12	6 6	7 9	10 0	26 28
16	6.5 8.4	5.4 5.4	4.8 5.0	12 12	7 7	7 7	12 12	30 30
20	8.4	6	7.7	12	7	7	12	32
25	6.5 8.4	6.8 6.8	8.8 8.8	13	7	7	12	30 30

BONDING JUMPER / 1300



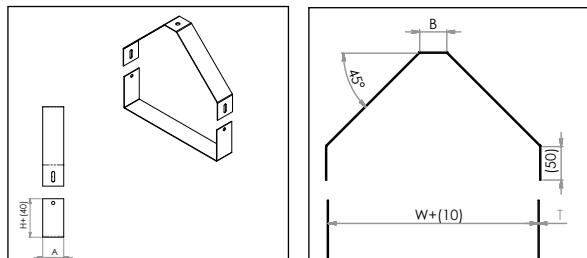
HFT- crimped with lugs



Size mm ²	Dimensions (mm)			Current Rating AMP
	J	E1	E2	
4	50	6	6	50
	100	6	6	50
	150	6	6	50
	200	6	6	50
10	50	6	6	90
	100	6	6	90
	150	6	6	90
	200	6	6	90
16	100	8.5	8.5	125
	150	8.5	8.5	125
	200	8.5	8.5	125
	250	8.5	8.5	125
	300	8.5	8.5	125
25	100	10	10	160
	150	10	10	160
	200	10	10	160
	250	10	10	160
	300	10	10	160

STIRRUP HANGER

ASH 9030



Reference		Dimensions
1.5 mm	2.0 mm	mm
ASH 9030 4	AR 9030 020 0020 5	2 x 2
ASH 9030 4	AR 9030 030 0020 5	3 x 2
ASH 9030 4	AR 9030 030 0020 5	3 x 3
ASH 9030 4	AR 9030 040 0020 5	4 x 2
ASH 9030 4	AR 9030 040 0020 5	4 x 3
ASH 9030 4	AR 9030 040 0020 5	4 x 4

- Other dimensions are available upon request.

w (mm) : 50, 100, 150, 200

**C-CHANNELS
LOADS & SUPPORTS**

Channel

SFSP's metal framing channel is cold formed on modern rolling machines from low carbon steel manufactured according to BS 6946:1988. A continuous slot provides the ability to make attachments at any point.

Lengths

Standard length: 3000mm with \pm 3.2mm length tolerance.

Custom lengths are available upon request.

Finishes

Standard Finishes: Pre-Galvanized finish (ASTM A653M coating G90 and G60). Hot Dip Galvanized after fabrication (ASTM A123 or BS EN ISO1461:2009). Other custom coatings are available upon request.

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

For Toothed Channel add "T" after the Part no. ex: CCH-220T

CCH 320

3

2

0

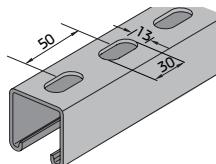
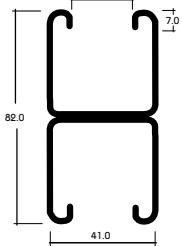
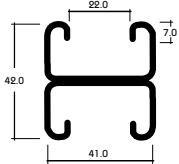
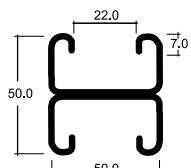
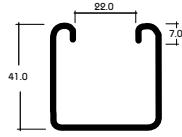
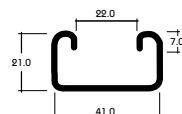
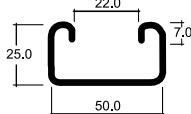
T

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

PT Type Channel		
Part No	Thick. mm.	Height "H"
CCH-220	1.5	21.0
CCH-240	1.5	41.0
CCH-260	1.5	25.0
CCH-320	2.0	21.0
CCH-340	2.0	41.0
CCH-360	2.0	25.0
CCH-420	2.5	21.0
CCH-440	2.5	41.0
CCH-460	2.5	25.0

PT Plain Type



ST Type Channel		
Part No	Thick. mm.	Height "H"
CCH-221	1.5	21.0
CCH-241	1.5	41.0
CCH-261	1.5	25.0
CCH-321	2.0	21.0
CCH-341	2.0	41.0
CCH-361	2.0	25.0
CCH-421	2.5	21.0
CCH-441	2.5	41.0
CCH-461	2.5	25.0

ST Slotted Type



B2B Type Channel		
Part No	Thick. mm.	Height "H"
CCH-222	1.5	42.0
CCH-242	1.5	82.0
CCH-262	1.5	50.0
CCH-322	2.0	42.0
CCH-342	2.0	82.0
CCH-362	2.0	50.0
CCH-422	2.5	42.0
CCH-442	2.5	82.0
CCH-462	2.5	50.0

B2B Type



Toothed channel type



For Toothed Channel add "T" after the Part no.
ex: CCH-220T

CCH-240/241

Load table for single beam with uniform (characteristic) Live-Load

This associated data are considered for perforated and non-perforated c-channel types according to DIN 18.800



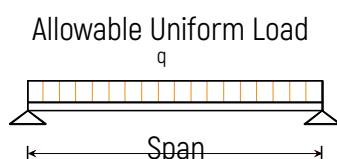
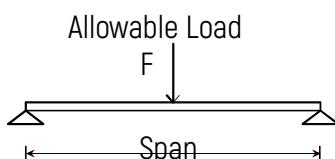
C-Channel:		41x41x1.5
Area of Shear (A_z)	1.02	cm ²
Moment of Inertia (I_y)	3.87	cm ⁴
Moment of Inertia (I_z)	5.68	cm ⁴
min. Section Modulus (S_y)	1.76	cm ³
Warping Constant (I_w)	114.17	cm ⁶
Torsional Constant (I_t)	0.02	cm ⁴
Plastic Moment cap. (M_{ply})	0.52	kNm
Self weight (G)	144	kg/m

Chosen Material:		40 B = S 235 JRG2
Allowable Bending Stress	21,82	kN/cm ²
Allowable Shear Stress	12,60	kN/cm ²
Modulus of Elasticity	21.000	kN/cm ²

Beam Load Data

Span (L)	Allowable Load*		Deflection		Uniform Load* @	
	[cm]	q [kN/m]	F [kN]	U [mm]	[L / X]	q [kN/m]
50	6.60	1.70	0.83	610	6.60	6.60
60	4.60	1.40	1.19	500	4.60	4.60
70	3.30	1.20	1.59	440	3.30	3.30
80	2.60	1.00	2.13	380	2.60	2.60
90	2.00	0.90	2.63	340	1.90	2.00
100	1.60	0.80	3.20	310	1.40	1.60
125	1.00	0.60	4.89	260	0.70	1.00
150	0.73	0.50	7.40	200	0.40	0.70
175	0.53	0.50	9.96	180	0.30	0.50
200	0.41	0.40	13.14	150	0.20	0.30
225	0.32	0.36	16.42	140	x	0.24
250	0.26	0.33	20.34	120	x	0.18
275	0.22	0.30	25.20	110	x	x
300	0.18	0.27	29.20	100	x	x

* Given loads are always "allowable characteristic live load"

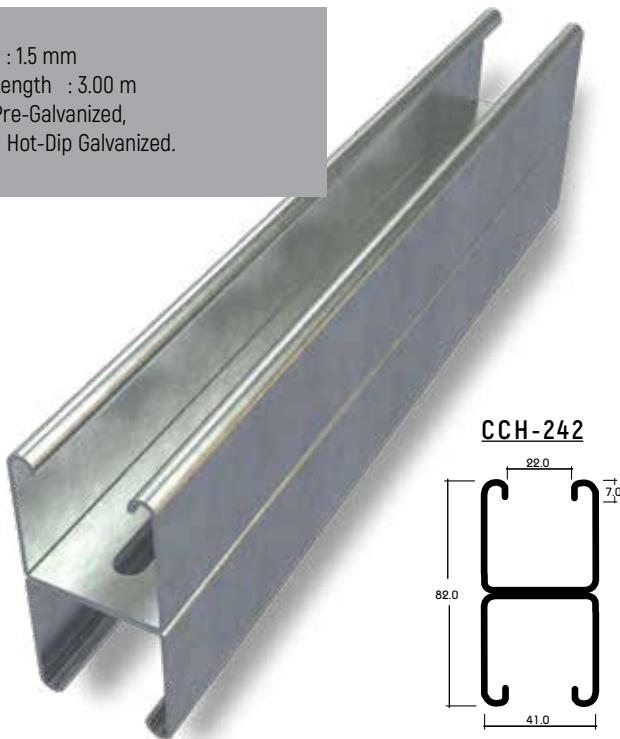


CCH-242

Load table for single beam with uniform (characteristic) Live-Load

This associated data are considered for perforated and non-perforated c-channel types according to DIN 18.800

Thickness : 1.5 mm
Standard Length : 3.00 m
Finishes : Pre-Galvanized, Hot-Dip Galvanized.



C-Channel: 41x 41x1.5 b2b

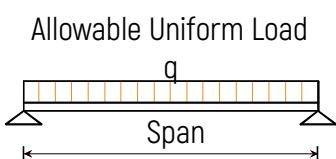
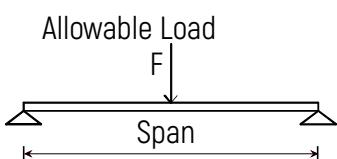
Area of Shear (A_s)	143	cm ²
Moment of Inertia (I_z)	21.11	cm ⁴
Moment of Inertia (I_y)	11.37	cm ⁴
min. Section Modulus (S_y)	5.15	cm ³
Warping Constant (I_w)	95.85	cm ⁶
Torsional Constant (I_t)	0.04	cm ⁴
Plastic Moment cap. (M_{pl})	1.53	kNm
Self weight (G)	2.88	kg/m

Chosen Material: 40 B = S 235 JRG2

Allowable Bending Stress	21,82	kN/cm ²
Allowable Shear Stress	12,60	kN/cm ²
Modulus of Elasticity	21,000	kN/cm ²

Beam Load Data

Span [L] [cm]	Allowable Load*		Deflection		Uniform Load* @	
	q [kN/m]	F [kN]	U [mm]	[L / X]	q [kN/m]	q [kN/m]
50	19.20	4.80	0.44	1:30	19.20	19.20
60	13.30	4.00	0.63	950	13.30	13.30
70	9.80	3.40	0.86	810	9.80	9.80
80	7.50	3.00	1.13	710	7.50	7.50
90	5.90	2.70	1.42	630	5.90	5.90
100	4.80	2.40	1.76	570	4.80	4.80
125	3.10	1.90	2.78	450	3.10	3.10
150	2.10	1.60	3.90	380	2.10	2.10
175	1.60	1.40	5.51	320	1.40	1.60
200	1.10	1.10	6.46	310	0.90	1.10
225	0.80	0.90	7.53	300	0.70	0.80
250	0.58	0.70	8.32	300	0.50	0.60
275	0.44	0.60	9.24	300	0.40	0.40
300	0.34	0.50	10.11	300	0.30	0.30



* Given loads are always "allowable characteristic live load"

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