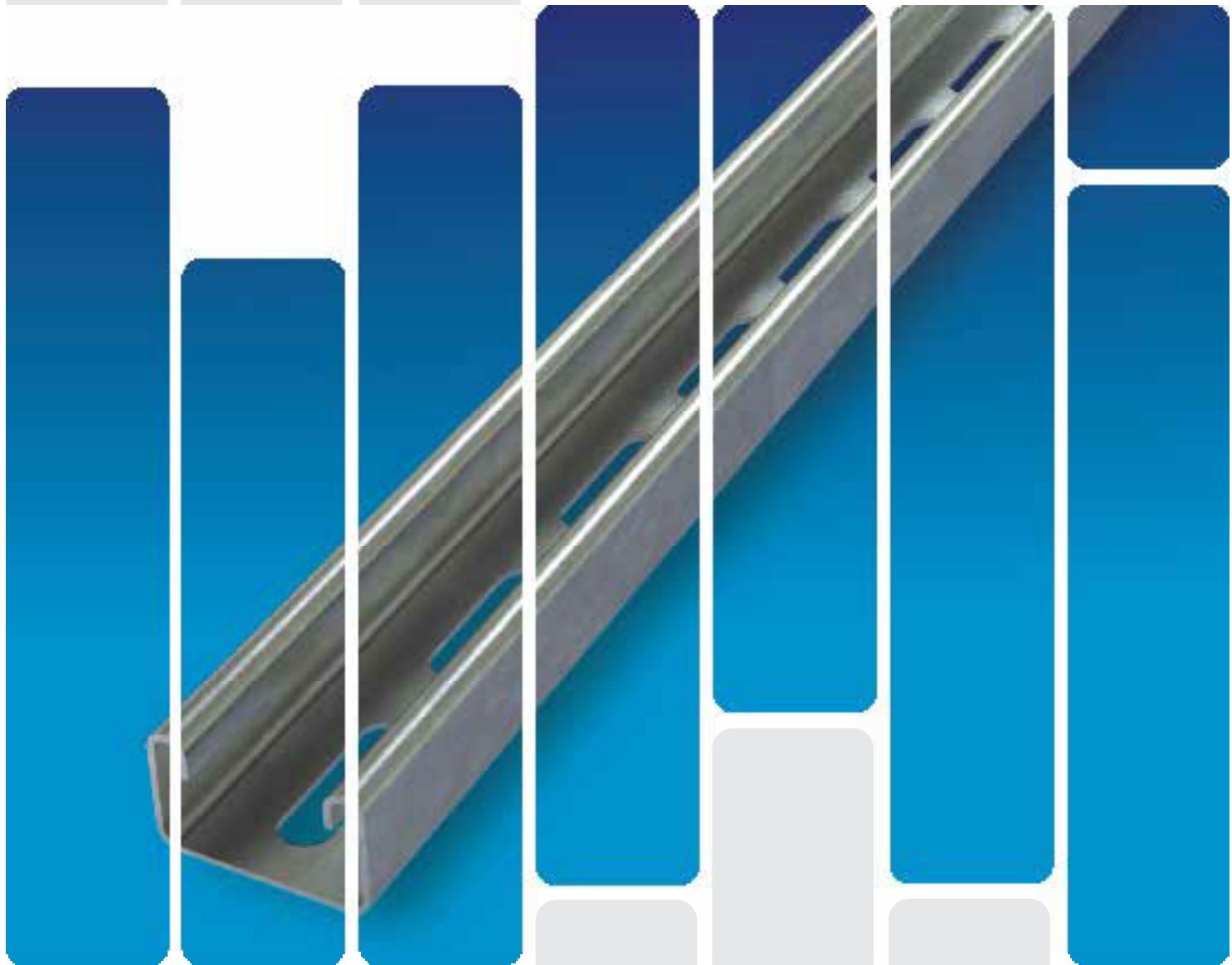




C-CHANNEL STRUT SYSTEM WITH ACCESSORIES



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



UNITECH
For Building and Construction Materials

C-CHANNEL STRUT SYSTEM WITH ACCESSORIES

PRODUCED BY



SPECIALIZED FACTORY FOR STEEL PRODUCTS
SIGMA FACTORY FOR STEEL PRODUCTS



C-Channel Strut System With Accessories

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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

UNITECH is committed to transforming the construction and building sector by equipping engineers with advanced solutions and expert support at every project stage. As a leading industry provider, we empower our team to deliver exceptional service that consistently exceeds expectations. By fostering a cohesive and forward-focused culture, we attract and retain top talent, driving our mission forward. Our innovative, customer-centric products set new industry benchmarks and pave the way for future progress.

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

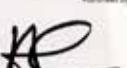
Authorized by: 
SGS United Kingdom Ltd
Rosemary Business Park, Ellensway Port, Cheshire, CH9 3BN, UK
t: +44 (0)151 360-0000; f: +44 (0)151 360-0000; www.sgs.com
HC: SGS/001/2019-0019
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ISO 45001 : 2018
(Occupational Health & Safety)

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

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/001/2019-0019
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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 4QD, 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 this 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 Suaib - 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 2024
Recertification Date:	14 November 2023
Re-issue Date:	30 November 2023
Current Expiry Date:	22 February 2027

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)

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 Suaib - 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:	21 September 2024
Recertification Date:	10 June 2024
Re-issue Date:	20 June 2024
Current Expiry Date:	21 September 2027

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.

Registered in United Arab Emirates as BM TRADA VENTURES LLC (TRADING AS BMTV)
Unit 904, Business Avenue Building, PO Box 30945, Dubai, UAE



Alcumus ISOQAR Limited, Alcumus Certification, Cobra Court, 1 Blackmore Road, Stretford, Manchester M32 0QY.
T: 0161 865 3699 F: 0161 865 3685 E: isoqarequiries@alcumusgroup.com W: www.alcumusgroup.com/isoqar
This certificate is the property of Alcumus ISOQAR and must be returned on request.

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 Suaib - 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-EMS-001
Initial Registration Date:	22 September 2015
Previous Expiry Date:	21 September 2024
Recertification Date:	04 June 2024
Re-issue Date:	04 July 2024
Current Expiry Date:	21 September 2027

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:
Isam Kabbani Trading Est. (Unitech)
Rashidya
Dubai, United Arab Emirates

Manufacturer/Licensee:
Sigma Factory for Steel Products (SFSP)
Sah 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

ACREDITED BY THE
DUTCH ACCREDITATION
COUNCIL



DEKRA Certification B.V. Meander 1051, 6825 MJ Arnhem P.O. Box 5185, 6802 ED Arnhem The Netherlands
T +31 88 96 83000 F +31 88 96 83100 www.dekra-certification.com Registered Arnhem 09085396

SFSP Certifications

UL Certification*
(Cable Trays)

CERTIFICATE OF COMPLIANCE

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

Issued to: Sigma Factory for Steel Products
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.



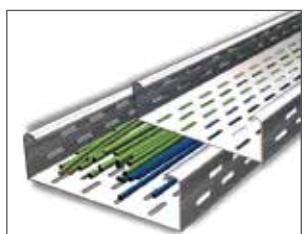
Cable Management Systems

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.



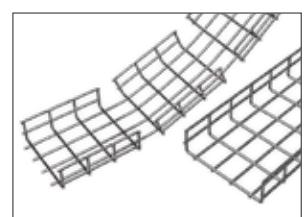
Cable Ladders (Welded & Swaged)

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.



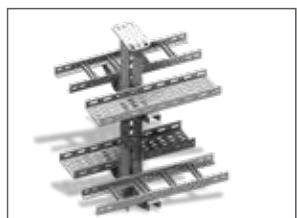
Fiberglass Reinforced Plastic (FRP) Cable Tray / Ladder

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.



Access Panels by FEROX

Ferox Access Panels provides complete solutions of several types of access panels including Hook Type, Pivot Type, Tiled Type as well as fire rated access panels and hygienic access panels. A variety of finishes are available including stainless steel of different grades, galvanized steel with powder coating.

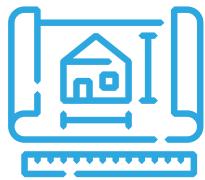
Ferox Access Panels are manufactured from high quality material and assembled with stainless steel hardware.



Roof hatches by FEROX

Roof hatch provides safe and convenient access to commercial building roof areas using interior ladders and stairs for maintenance work. It can be installed on flat roofs with a maximum slope of 30°.Made of steel frames, doors and stainless steel hardware. Powder coated to provide corrosion resistance and outstanding exterior durability.





Architectural & Finishing Solutions

Mechanical Cladding Fixation (Stangle)

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



Aluminium System for Stone Cladding

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



Waste Management Sys. (Garbage & Linen Chutes)

Chutes from SFSP are very convenient, simple and low cost method of controlling and disposing of refuse and linen. Chutes meet the most stringent requirements of environmental health and safety.



Dry Wall & Ceiling Profiles

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



Metal Ceiling Grid Systems

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



Expansion Joint System by Nexus

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



Entrance Matting System by Nexus

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



Profiles by Nexus

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



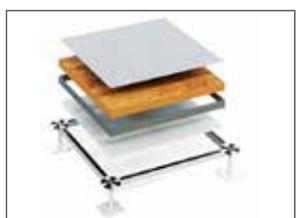
Phenolic Compartment by CUBIX

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



Raised Access Flooring by PIXEL

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



Metal Doors by FEROX

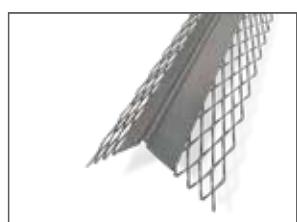
Ferox offers a wide variety of steel doors, manufactured according to international standards of fabrication and as per the legal requirement of commercial projects whether industrial environments, local authority buildings, leisure, hospitality, healthcare, transportation, education or retail offices, and shopping centers. Our range of steel doors includes fire rated steel doors, Insulated Doors , Acoustic Doors, Louvered Doors, Sliding Doors, Security Detonation Doors, Burglar Resistant Doors, Entry Gates and several other types to meet the requirements of all 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

KSA

+966 13 8590097, Ext. 3214

UAE

+971 4 8181925, Ext. 4269



GENERAL INFORMATION

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 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.

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



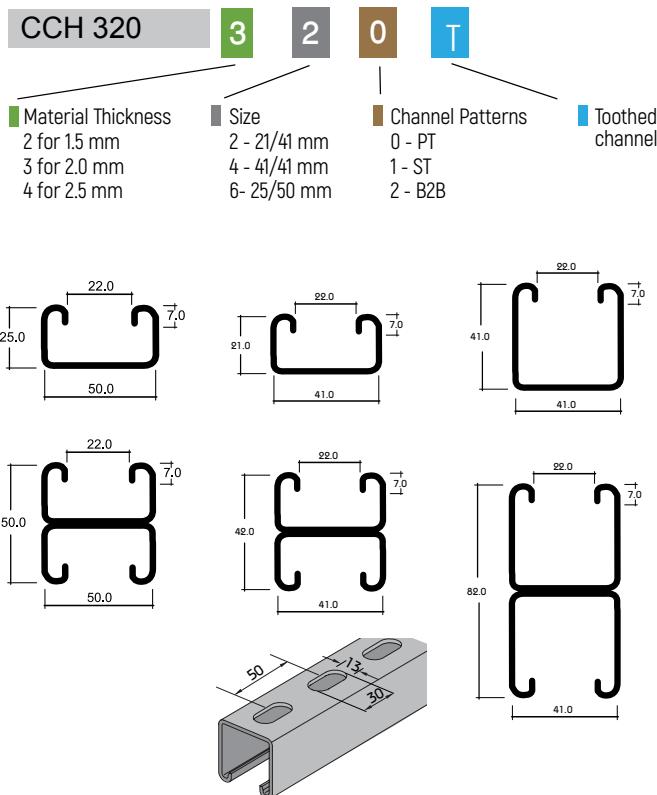
Toothed channel type



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

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



Materials & Finishes

Materials

Mild Steel - Plain

A. Hot Rolled Steel Plates, Sheets and Coils S235 JR, as per:

EN 10025 -2 / DIN 17100 / BS 4360 / ASTM A 653M / ASTM A 1011 / ASTM A 1011-01a
JIS 3101 / JIS 3106 / GB 700 / GB / T1591.

ASTM A 907 / ASTM A 1018M.

ASTM A 570M / ASTM A 572M.

B. Cold Rolled Steel DC 01, as per:

EN 10130 / DIN 1623, Part 2 / BS 1449:1 / ASTM A366 / ASTM A 1008 / JIS G 3141 / GB 699.

EN 10131 / ASTM A 568M



Mild Steel - Galvanized

C. Continuously Pre- Galvanized Hot-Dip Zinc Coated Steel DX 51D + Z, as per:

EN 10327 / DIN 17162 / BS 2989/ ASTM A 527M / ASTM A 653M / JIS G 3302.

EN 10326/ EN 10142 / ASTM A 526, 527, 528/ ASTM A 146



D. Electro Galvanized Steel (Electrolytic Coating) DC01 + ZE v, as per:

EN 10152 / DIN 17163 / ASTM A591 / JIS G 3313 / JIS G 3141/BS 1449:1

EN 10131



Aluminum

E. Aluminum 6063 T6

Stainless Steel

F.Austenitic Stainless Steels SS 304 & SS 316, as per:

ASTM A 240 /EN 10088-2/ DIN 17400 / BS 1449:2 / ASTM A480 / ASTM A666 / ISO 3506 / EN 10028-7 /JIS G 4304

F1 Stainless Steel Fasteners EN 3506

F2 Stainless Steel Wire BS 1554 ,ASTM A276



Finishes

1- Hot-DIP Galvanization after Fabrication

as per:

ASTM A 123 / ASTM A 153 / ISO 1461.

BS 729 / DIN 50976



2- Zinc Electroplating after Fabrication

as per:

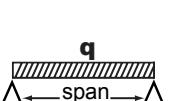
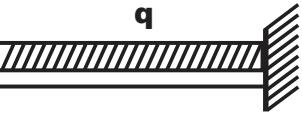
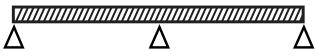
ASTM B633 / EN 12329 / ISO 4042/ BS 1706 / BS 3382 / DIN 50961

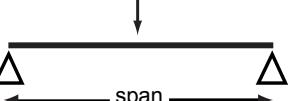
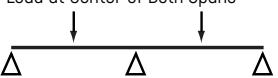
3- Powder Coating

Epoxy / Polyester / Epoxy & Polyester

BS 3900 / ISO 2409 / ISO 1519 / ISO 1520

Technical Data

Load and Support Condition	Load Factor	Deflection Factor	Example
Simple Beam - Uniform Load 	1.00	1.00	Problem Calculate the maximum allowable load and corresponding deflection of a cantilever CCH beam with a uniformly distributed load 
Beam Fixed at Both Ends - Uniform Load 	1.50	0.30	
Cantilever Beam - Uniform Load 	0.25	240	Solution From beam load chart for CCH, maximum allowable load is q and the corresponding deflection is u . Multiplying by the appropriate factors shown in the chart above LOAD = $q \times \text{load factor}$ DEFLECTION = $u \times \text{deflection factor}$
Continuous Beam - Two Equal Spans - Uniform Load on One Span 	1.30	0.92	
Continuous Beam - Two Equal Spans Concentrated Load on Both Spans - 	1.00	0.42	

Load and Support Condition	Load Factor	Deflection Factor	Example
Simple Beam - Concentrated Load at Center 	1.00	0.80	
Simple Beam - Two Equal Concentrated Loads at 1/4 Points 	x 1.00 2	1.10	Problem Calculate the maximum allowable load and corresponding deflection of a simply supported CCH beam with a concentrated load at midspan as shown 
Beam Fixed at Both Ends - Concentrated Load at Center 	2.00	0.40	
Cantilever Beam - Uniform Load 	0.24	3.20	Solution From beam load chart for CCH, maximum allowable load is F and the corresponding deflection is u . Multiplying by the appropriate factors shown in the chart above LOAD = $F \times \text{load factor}$ DEFLECTION = $u \times \text{deflection factor}$
Continuous Beam - Two Equal Spans Concentrated Load at Center of One Span- 	1.42	0.80	
Continuous Beam - Two Equal Spans Concentrated Load at Center of Both Spans- 	x 1.34 2	0.50	

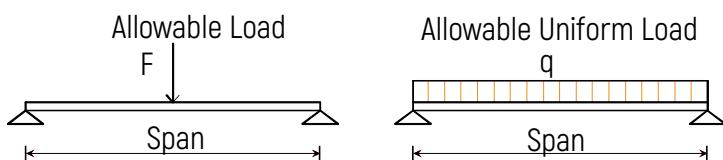
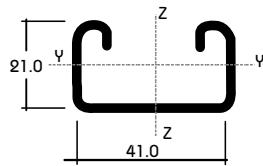
CHANNELS

CCH-220/221

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: 41 x 21 x 1.5

Area of Shear (A_s)	0.42	cm ²
Moment of Inertia (I_y)	0.70	cm ⁴
Moment of Inertia (I_z)	3.34	cm ⁴
min. Section Modulus (S_y)	0.60	cm ³
Warping Constant (I_w)	1749	cm ⁶
Torsional Constant (L_t)	0.01	cm ⁴
Plastic Moment cap. ($M_{pl,y}$)	0.19	kNm
Self weight (G)	0.97	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

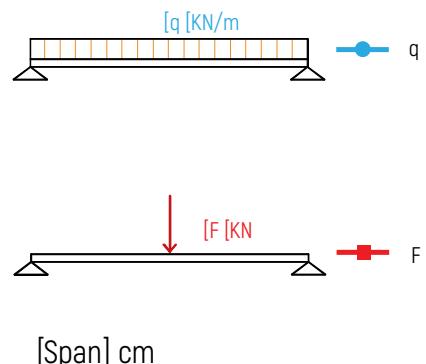
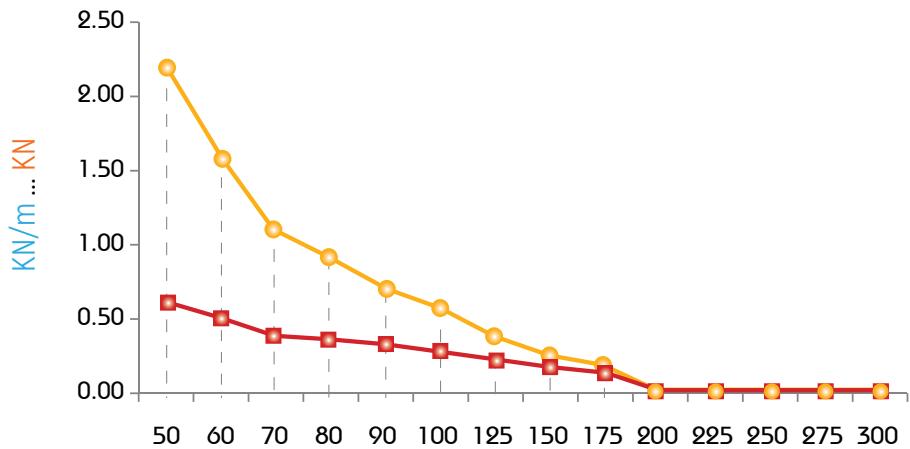
Span [L] [cm]	Allowable Load*			Deflection		Uniform Load* @	
	q [kN/m]	F [kN]	U [mm]	[L / X]	q [kN/m]	q [kN/m]	
50	2.20	0.60	1.52	330	2.00	2.20	
60	1.60	0.50	2.30	260	1.20	1.60	
70	1.10	0.39	2.92	240	0.73	1.14	
80	0.90	0.36	4.08	200	0.49	0.87	
90	0.69	0.31	5.01	180	0.34	0.69	
100	0.56	0.28	6.20	160	0.25	0.50	
125	0.36	0.23	9.73	130	x	0.26	
150	0.25	0.19	14.01	110	x	x	
175	0.18	0.16	18.69	90	x	x	
200	x	x	x	x	x	x	
225	x	x	x	x	x	x	
250	x	x	x	x	x	x	
275	x	x	x	x	x	x	
300	x	x	x	x	x	x	

* Given loads are always "allowable characteristic live load"

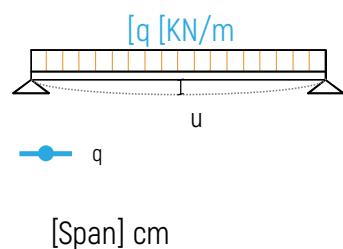
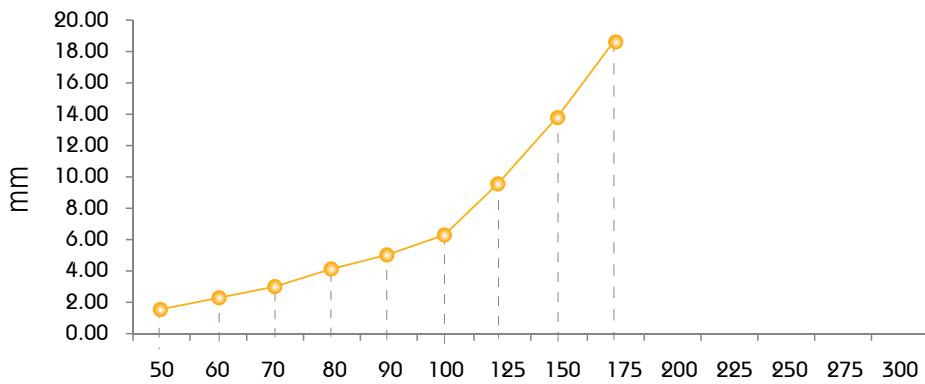
BEAM LOADING GRAPH

CCH-220/221

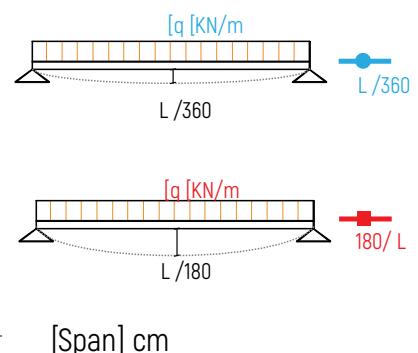
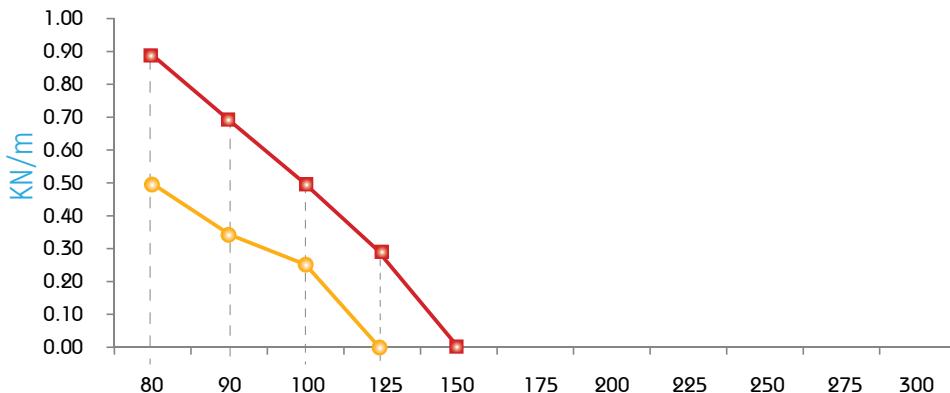
Allowable Loads



Deflection @ Allowable Uniform Load

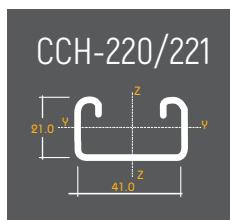


Uniform Load @ Allowable Deflection



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

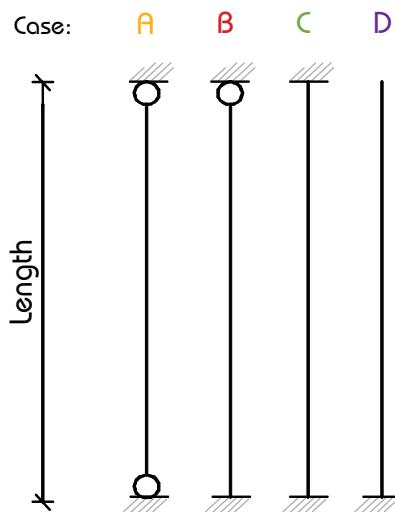


C-Channel: 41 x 21 x 1.5		
Cross Section Area (A)	0.23	cm ²
Moment of Inertia (I_y)	0.70	cm ⁴
Moment of Inertia (I_z)	3.34	cm ⁴
Self weight (G)	0.97	kg/m

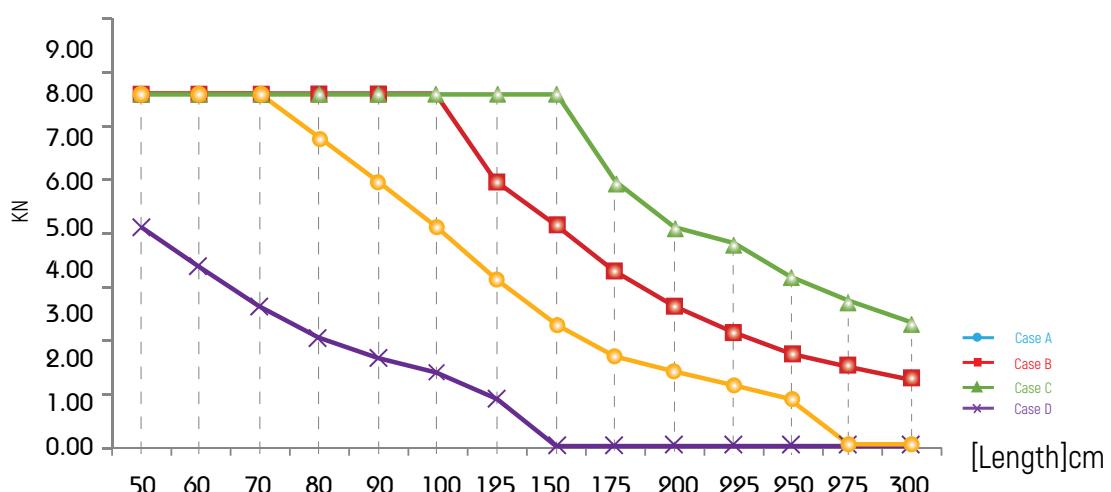


Column Load Data

Span (L) [cm]	Allowable Central Load** [KN]			
	Case A	Case B	Case C	Case D
50	8.00	8.00	8.00	5.00
60	8.00	8.00	8.00	4.10
70	8.00	8.00	8.00	3.20
80	7.00	8.00	8.00	2.50
90	6.00	8.00	8.00	2.00
100	5.00	8.00	8.00	1.70
125	3.80	6.00	8.00	1.70
150	2.80	5.00	8.00	1.10
175	2.10	4.00	6.00	x
200	1.70	3.20	5.00	x
225	1.40	2.60	4.60	x
250	1.10	2.10	3.80	x
275	x	1.80	3.30	x
300	x	1.50	2.80	x



**Allowable Central Load



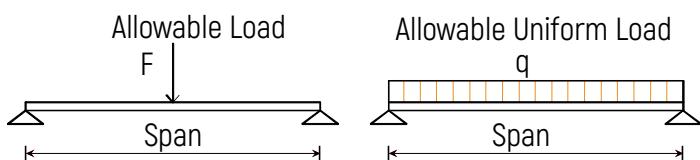
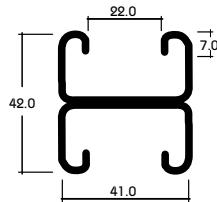
** Given loads are always "allowable characteristic live load"

CCH-222

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 21x1.5 b2b		
Area of Shear (A_z)	0.54	cm ²
Moment of Inertia (I_y)	3.55	cm ⁴
Moment of Inertia (I_z)	6.69	cm ⁴
min. Section Modulus (S_y)	1.69	cm ³
Warping Constant (I_w)	16.33	cm ⁶
Torsional Constant (I_t)	0.03	cm ⁴
Plastic Moment cap. ($M_{p,y}$)	0.50	kNm
Self weight [G]	1.94	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

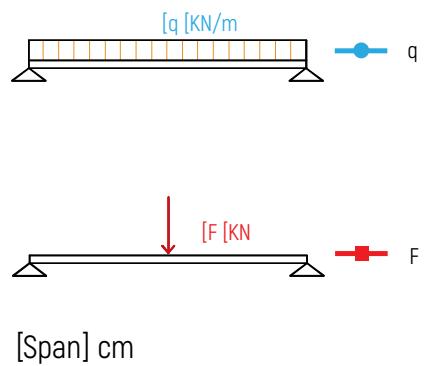
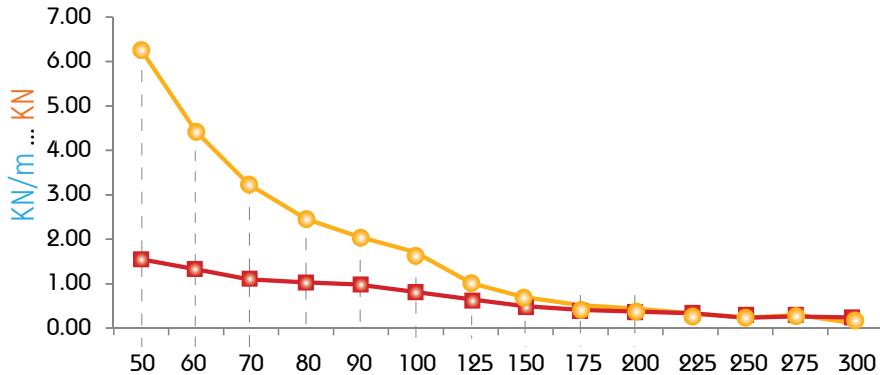
Span [L] [cm]	Allowable Load*		Deflection		Uniform Load* @	
	q [kN/m]	F [kN]	U [mm]	[L / X]	q [kN/m]	q [kN/m]
50	6.30	1.60	0.86	580	6.30	6.30
60	4.40	1.30	1.24	480	4.40	4.40
70	3.20	1.10	1.68	420	3.20	3.20
80	2.50	1.00	2.24	360	2.50	2.50
90	1.90	0.90	2.72	330	1.70	1.90
100	1.60	0.80	3.49	290	1.30	1.60
125	1.00	0.60	5.33	230	0.70	1.00
150	0.70	0.50	7.74	190	0.40	0.70
175	0.51	0.40	10.44	170	0.20	0.50
200	0.39	0.39	13.62	150	x	0.32
225	0.31	0.35	17.35	130	x	0.22
250	0.25	0.31	21.32	120	x	0.16
275	0.21	0.29	26.22	100	x	x
300	0.17	0.26	30.06	100	x	x

* Given loads are always "allowable characteristic live load"

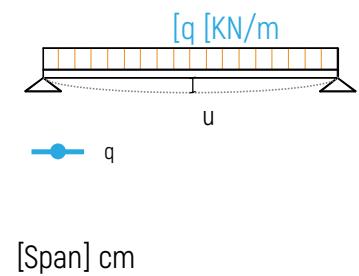
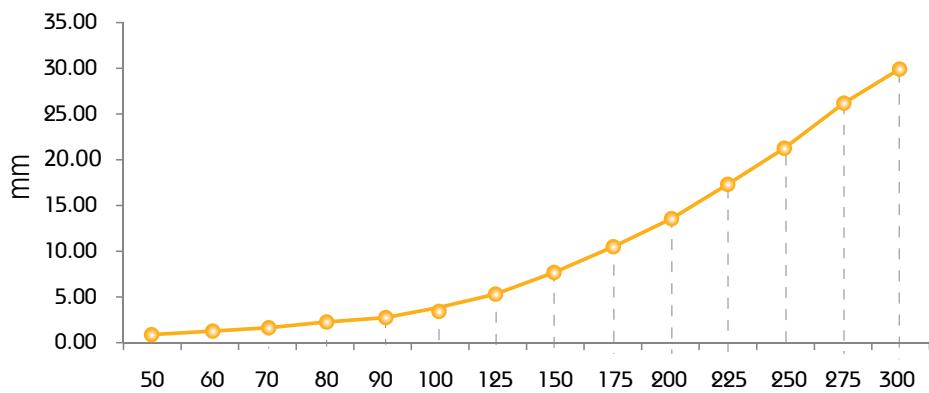
BEAM LOADING GRAPH

CCH-222

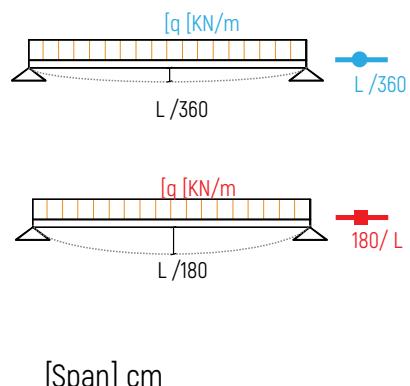
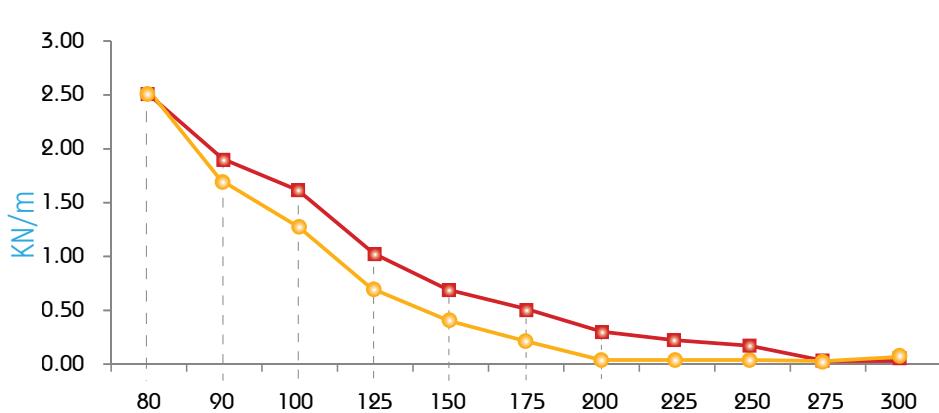
Allowable Loads



Deflection @ Allowable Uniform Load

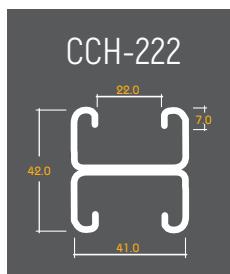


Uniform Load @ Allowable Deflection



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

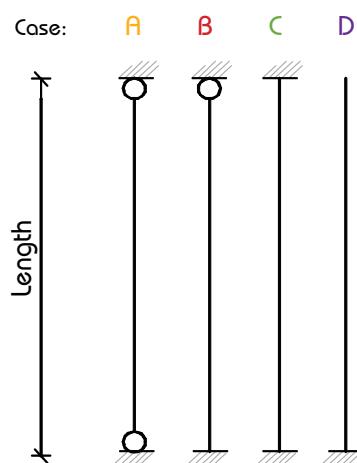


C-Channel: 41 x 21 x 1.5 b2b		
Cross Section Area (A)	2.47	cm ²
Moment of Inertia (I_y)	3.55	cm ⁴
Moment of Inertia (I_z)	6.69	cm ⁴
Self weight (G)	1.94	kg/m

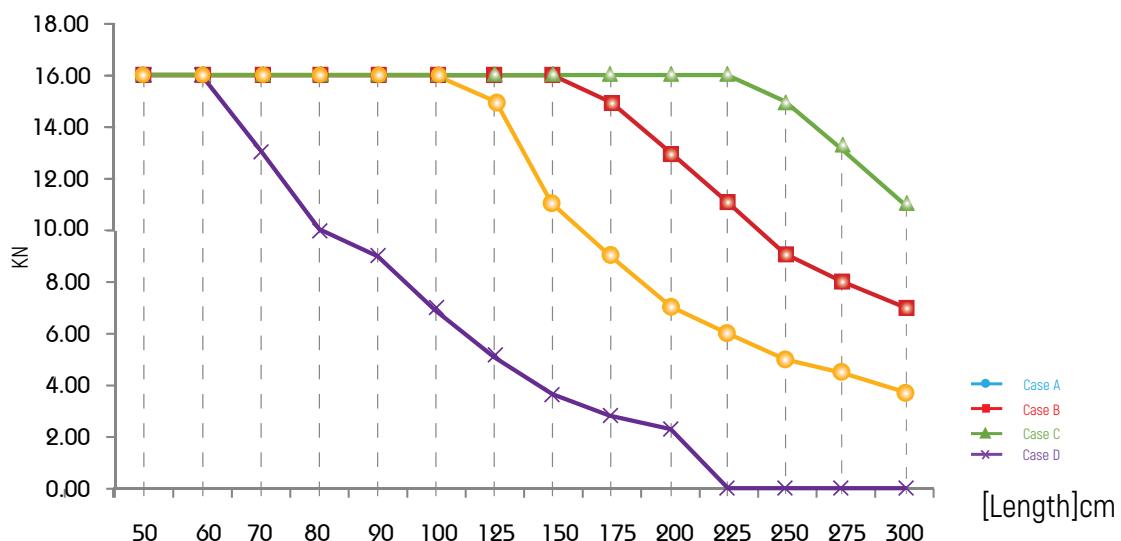


Column Load Data

Span [L] [cm]	Allowable Central Load** [KN]			
	Case A	Case B	Case C	Case D
50	16.00	16.00	16.00	16.00
60	16.00	16.00	16.00	16.00
70	16.00	16.00	16.00	13.00
80	16.00	16.00	16.00	10.00
90	16.00	16.00	16.00	9.00
100	16.00	16.00	16.00	7.00
125	15.00	16.00	16.00	5.00
150	11.00	16.00	16.00	3.70
175	9.00	15.00	16.00	2.80
200	7.00	13.00	16.00	2.20
225	6.00	11.00	16.00	x
250	5.00	9.00	15.00	x
275	4.40	8.00	13.00	x
300	3.70	7.00	11.00	x



**Allowable Central Load



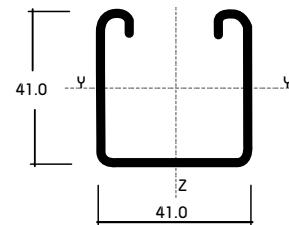
** Given loads are always "allowable characteristic live load"

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

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

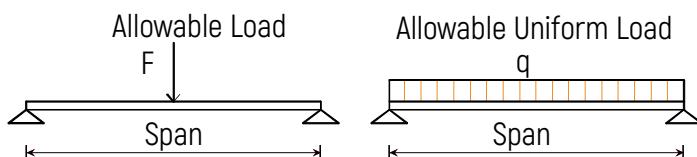


C-Channel: 40x41x1.5

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. ($M_{pl,y}$)	0.52	kNm
Self weight (G)	1.44	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

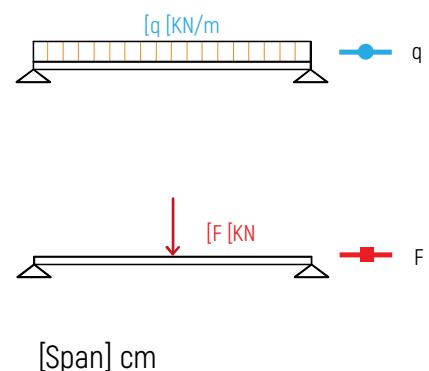
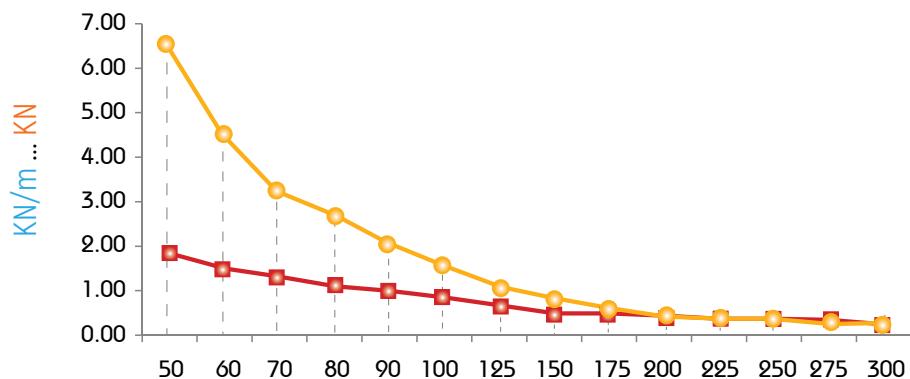
Span [L] [cm]	Allowable Load*			Deflection		Uniform Load* @	
	q [kN/m]	F [kN]	U [mm]	[L/X]	q [kN/m]		q [kN/m]
					L / 360	L / 180	
50	6.60	1.70	0.83	610	6.60	6.60	
60	4.60	1.40	1.19	500	4.60	4.60	
70	3.30	1.20	1.59	440	3.30	3.30	
80	2.60	1.00	2.13	380	2.60	2.60	
90	2.00	0.90	2.63	340	1.90	2.00	
100	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	740	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"

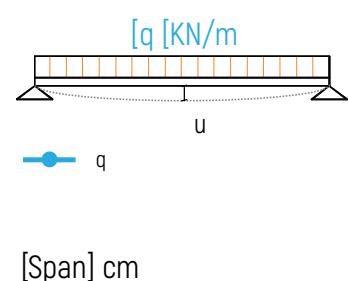
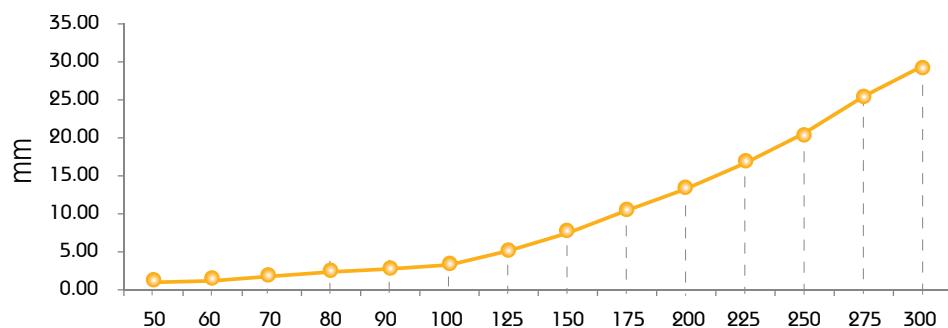
BEAM LOADING GRAPH

CCH-240/241

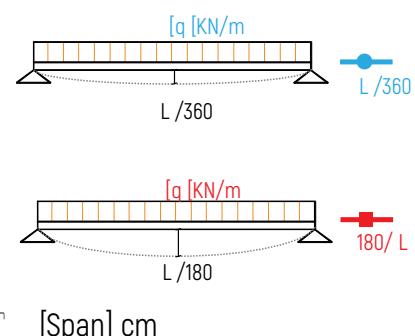
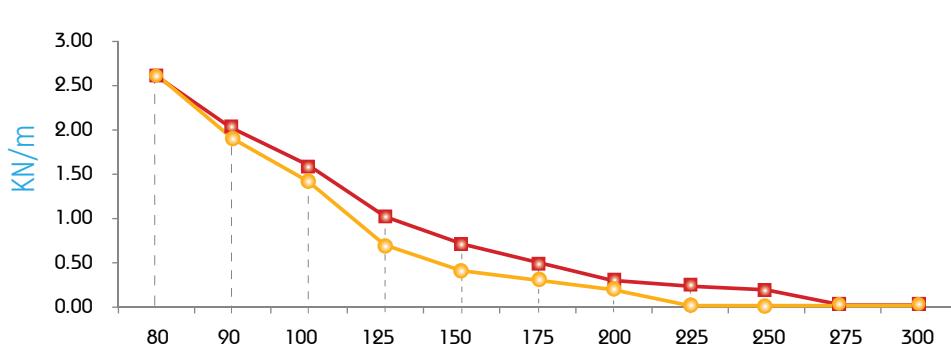
Allowable Loads



Deflection @ Allowable Uniform Load

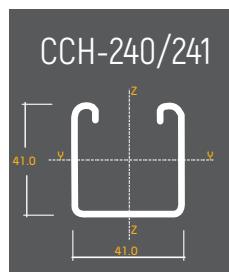


Uniform Load @ Allowable Deflection



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

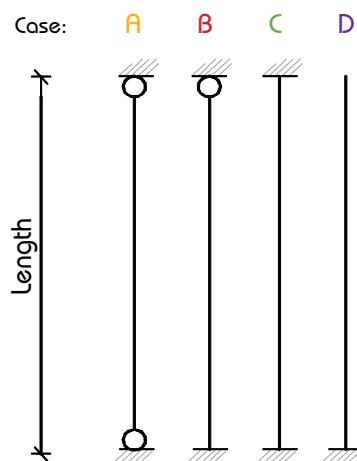


C-Channel: 41 x 41 x 1.5		
Cross Section Area (A)	1.83	cm ²
Moment of Inertia (I_y)	3.87	cm ⁴
Moment of Inertia (I_z)	5.68	cm ⁴
Self weight (G)	1.44	kg/m

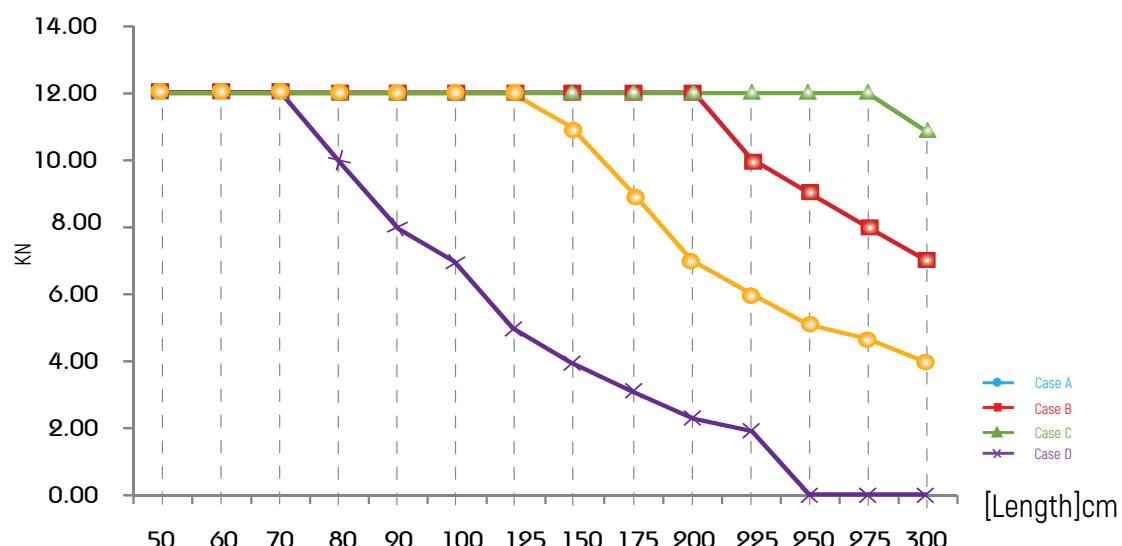


Column Load Data

Span [L] [cm]	Allowable Central Load** [KN]			
	Case A	Case B	Case C	Case D
50	12.00	12.00	12.00	12.00
60	12.00	12.00	12.00	12.00
70	12.00	12.00	12.00	12.00
80	12.00	12.00	12.00	10.00
90	12.00	12.00	12.00	8.00
100	12.00	12.00	12.00	7.00
125	12.00	12.00	12.00	5.00
150	11.00	12.00	12.00	3.90
175	9.00	12.00	12.00	3.00
200	7.00	12.00	12.00	2.30
225	6.00	10.00	12.00	1.90
250	5.00	9.00	12.00	x
275	4.60	8.00	12.00	x
300	3.90	7.00	11.00	x



**Allowable Central Load



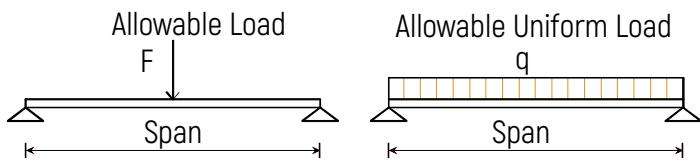
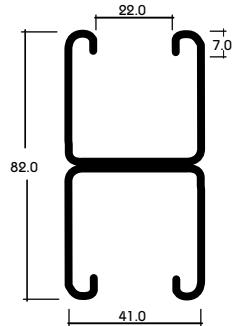
** Given loads are always "allowable characteristic live load"

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_z)	1.43 cm ²
Moment of Inertia (I_y)	21.11 cm ⁴
Moment of Inertia (I_z)	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_{ply})	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

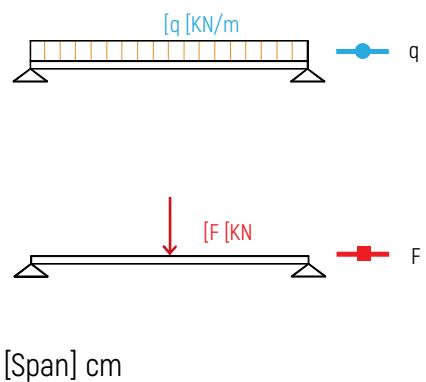
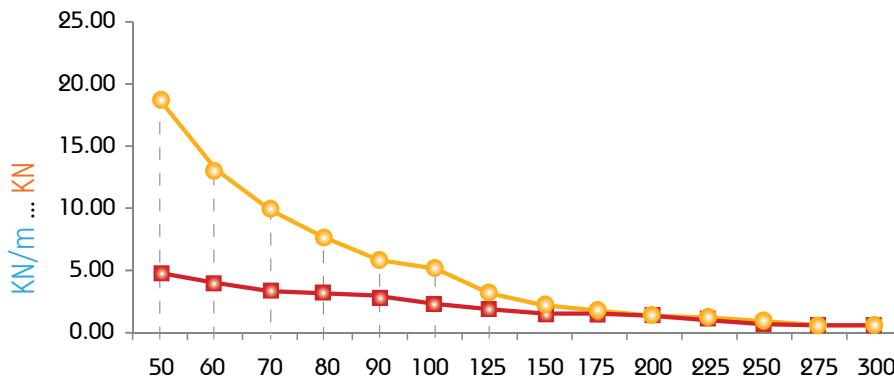
Span [L] [cm]	Allowable Load*		Deflection		Uniform Load* @	
	q [kN/m]	F [kN]	U [mm]	[L / X]	q [kN/m]	q [kN/m]
50	19.20	4.80	0.44	1.130	19.20	19.20
60	13.30	4.00	0.63	950	13.30	13.30
70	9.80	3.40	0.86	810	9.80	9.80
80	7.50	3.00	1.13	710	7.50	7.50
90	5.90	2.70	1.42	630	5.90	5.90
100	4.80	2.40	1.76	570	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"

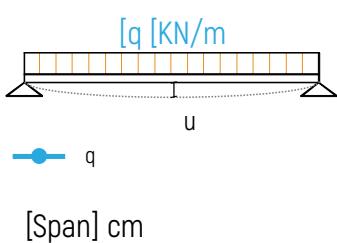
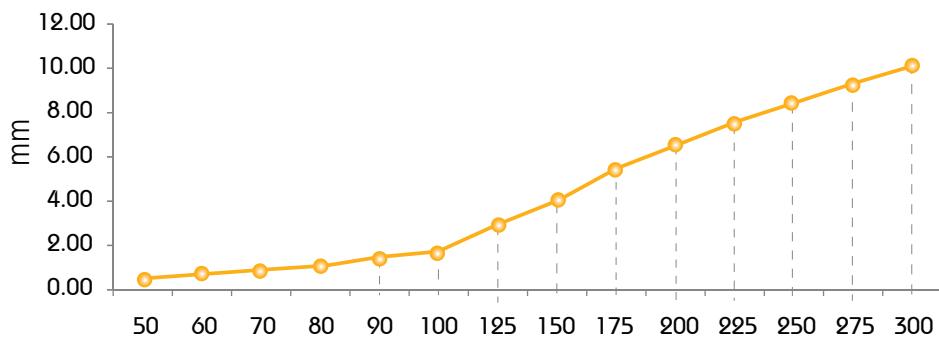
BEAM LOADING GRAPH

CCH-242

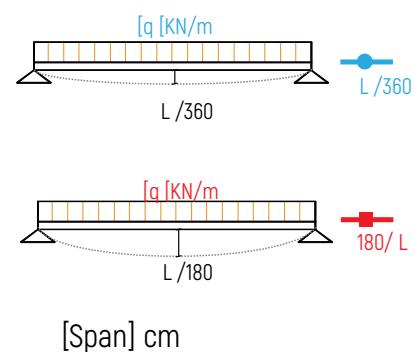
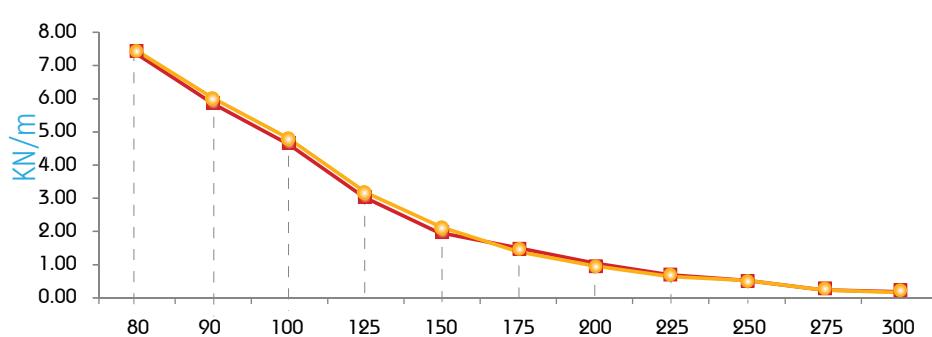
Allowable Loads



Deflection @ Allowable Uniform Load



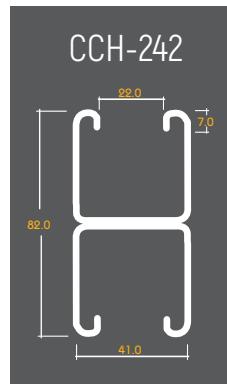
Uniform Load @ Allowable Deflection



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

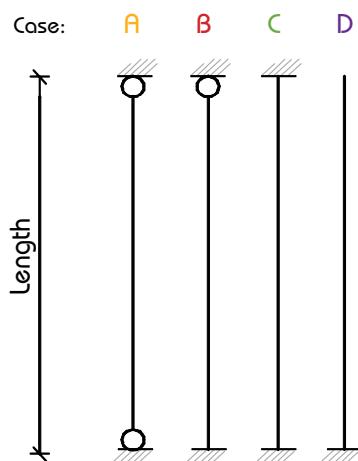
This associated data are considered for perforated and non-perforated c-channel types according to DIN 18.800

C-Channel:	41 x 41 x 1.5 b2b	
Cross Section Area (A)	3.67	cm ²
Moment of Inertia (I_y)	21.11	cm ⁴
Moment of Inertia (I_z)	11.37	cm ⁴
Self weight (G)	2.88	kg/m

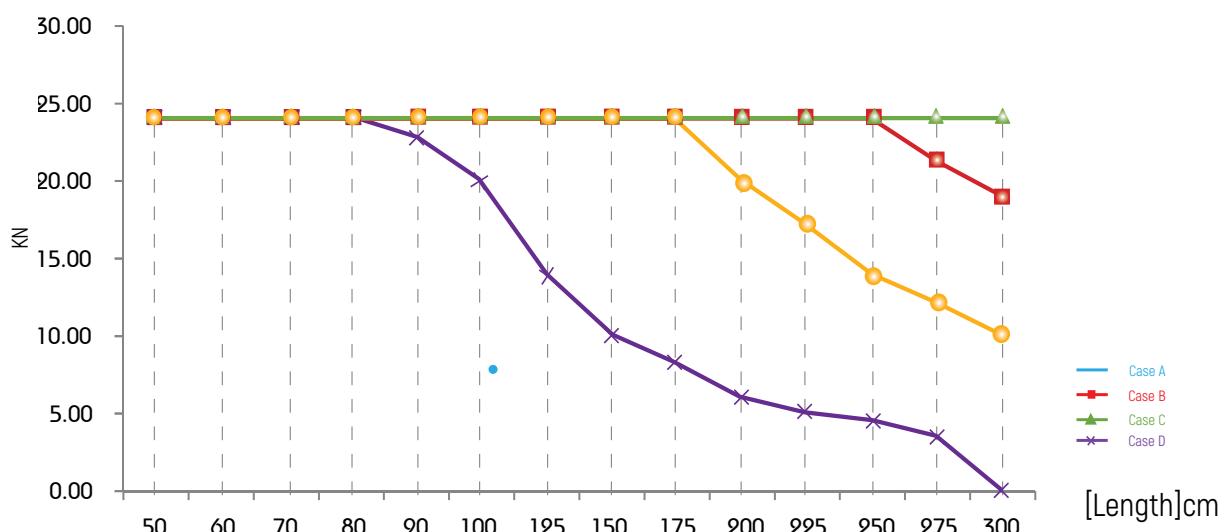


Column Load Data

Span [L] [cm]	Allowable Central Load** [KN]			
	Case A	Case B	Case C	Case D
50	24.00	24.00	24.00	24.00
60	24.00	24.00	24.00	24.00
70	24.00	24.00	24.00	24.00
80	24.00	24.00	24.00	24.00
90	24.00	24.00	24.00	23.00
100	24.00	24.00	24.00	20.00
125	24.00	24.00	24.00	14.00
150	24.00	24.00	24.00	10.00
175	24.00	24.00	24.00	8.00
200	20.00	24.00	24.00	6.00
225	17.00	24.00	24.00	5.00
250	14.00	24.00	24.00	4.40
275	12.00	21.00	24.00	3.70
300	10.00	19.00	24.00	x



**Allowable Central Load



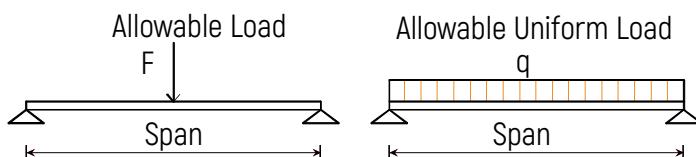
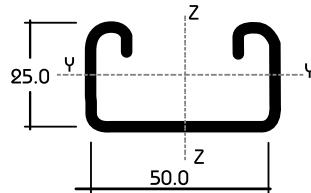
** Given loads are always "allowable characteristic live load"

CCH-260/261

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: 50 x 25 x 1.5

Area of Shear (A_z)	0.52	cm ²
Moment of Inertia (I_y)	1.19	cm ⁴
Moment of Inertia (I_z)	6.13	cm ⁴
min. Section Modulus (S_y)	0.83	cm ³
Warping Constant (I_w)	40.86	cm ⁶
Torsional Constant (I_t)	0.01	cm ⁴
Plastic Moment cap. ($M_{pl,y}$)	0.26	kNm
Self weight (G)	1.20	kg/m

Chosen Material: 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

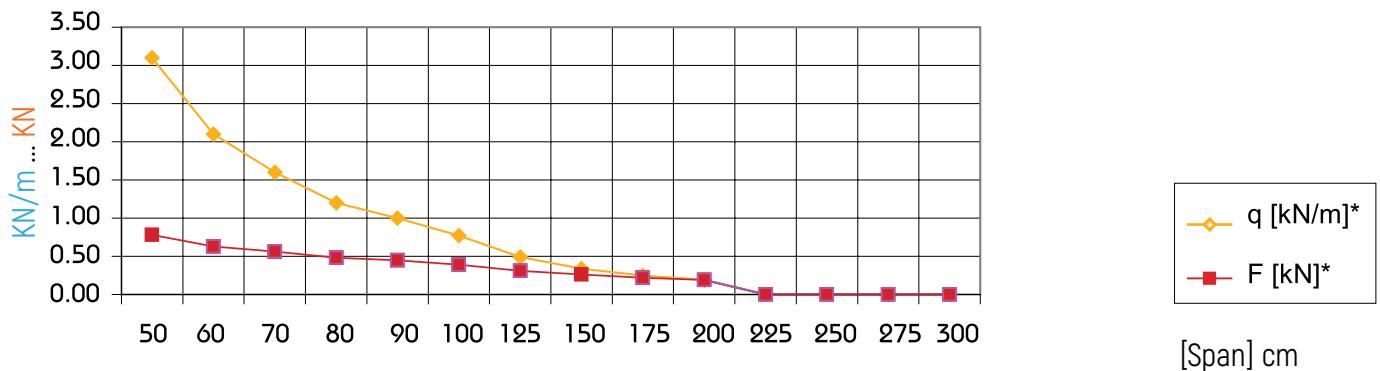
Span (L) [cm]	Allowable Load*		Deflection		Uniform Load* @	
	q [kN/m]	F [kN]	U [mm]	[L/X]	q [kN/m]	q [kN/m]
30	8.60	1.30	0.40	750	8.60	8.60
40	4.80	1.00	0.71	570	4.80	4.80
50	3.10	0.78	1.11	450	3.09	3.09
60	2.10	0.63	1.57	380	1.97	2.15
70	1.60	0.56	2.22	320	1.24	1.58
80	1.20	0.48	2.85	280	0.83	1.21
90	1.00	0.45	3.81	240	0.59	0.95
100	0.77	0.39	4.48	220	0.43	0.77
125	0.49	0.31	7.02	180	0.22	0.44
150	0.34	0.26	10.21	150	x	0.25
175	0.25	0.22	14.08	120	x	x
200	0.19	0.19	18.52	110	x	x
225	x	x	x	x	x	x
250	x	x	x	x	x	x
275	x	x	x	x	x	x
300	x	x	x	x	x	x

* Given loads are always "allowable characteristic live load"

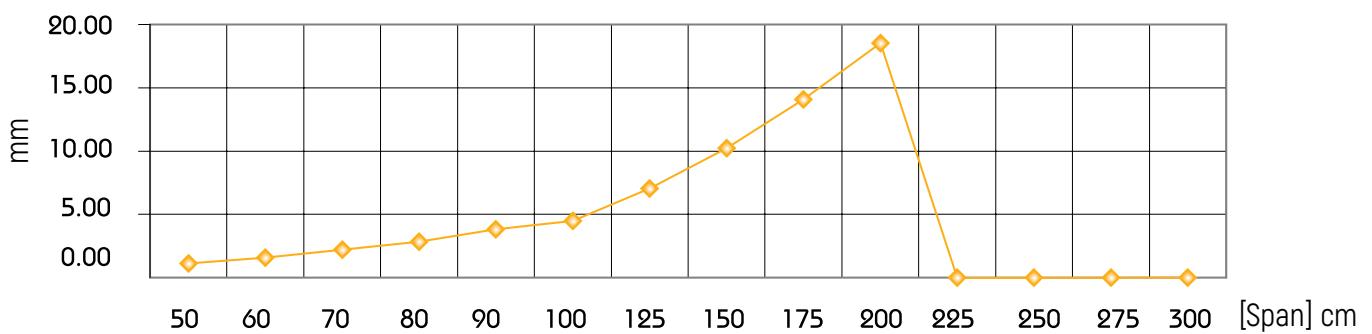
BEAM LOADING GRAPH

CCH-260/261

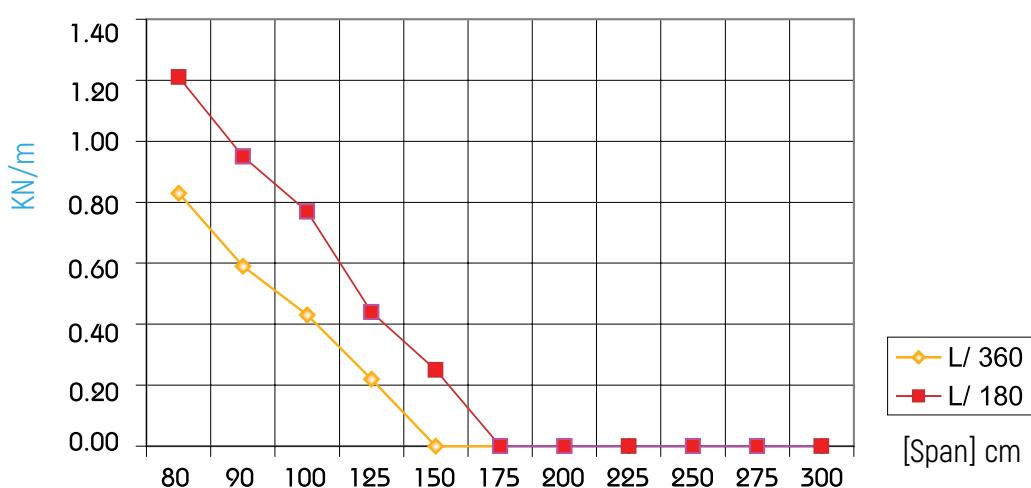
Allowable Loads



Deflection @ Allowable Uniform Load



Uniform Load @ Allowable Deflection

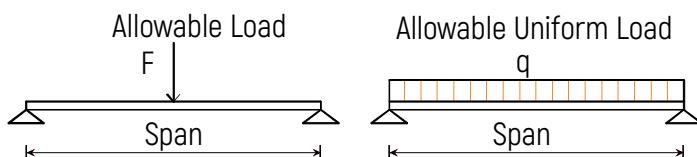
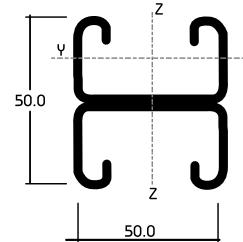


CCH-262

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:	50 x 25 x 1.5 b2b	
Area of Shear (A_z)	1.05	cm ²
Moment of Inertia (I_y)	5.63	cm ⁴
Moment of Inertia (I_z)	12.27	cm ⁴
min. Section Modulus (S_y)	2.25	cm ³
Warping Constant (I_w)	25.85	cm ⁶
Torsional Constant (I_t)	0.03	cm ⁴
Plastic Moment cap. (M_{ply})	0.67	kNm
Self weight (G)	2.30	kg/m

Chosen Material:	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

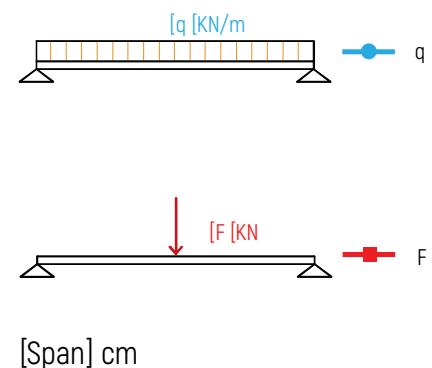
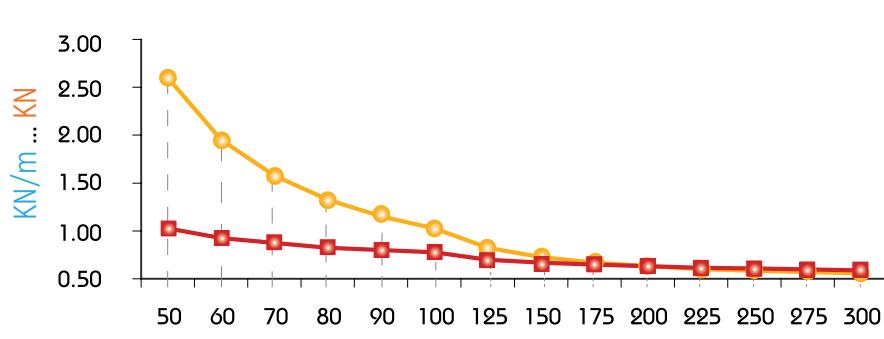
Span (L) [cm]	Uniform Load* @					
	Allowable Load*		Deflection		L / 360	L / 180
[cm]	q [kN/m]	F [kN]	U [mm]	[L / X]	q [kN/m]	q [kN/m]
50	8,40	2,10	0,64	780	8,40	8,40
60	5,80	1,70	0,91	660	5,80	5,80
70	4,30	1,50	1,26	560	4,30	4,30
80	3,30	1,30	1,65	490	3,30	3,30
90	2,60	1,20	2,08	430	2,60	2,60
100	2,10	1,10	2,57	390	2,00	2,10
125	1,30	0,80	3,91	320	1,00	1,30
150	0,90	0,68	5,66	260	0,60	0,93
175	0,68	0,60	7,99	220	0,38	0,68
200	0,52	0,52	10,53	190	0,25	0,50
225	0,41	0,46	13,44	170	0,18	0,35
250	0,34	0,43	17,18	150	x	0,26
275	0,28	0,39	20,99	130	x	0,19
300	0,23	0,35	24,83	120	x	x

* Given loads are always "allowable characteristic live load"

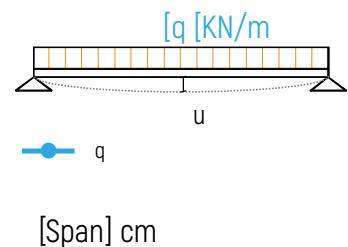
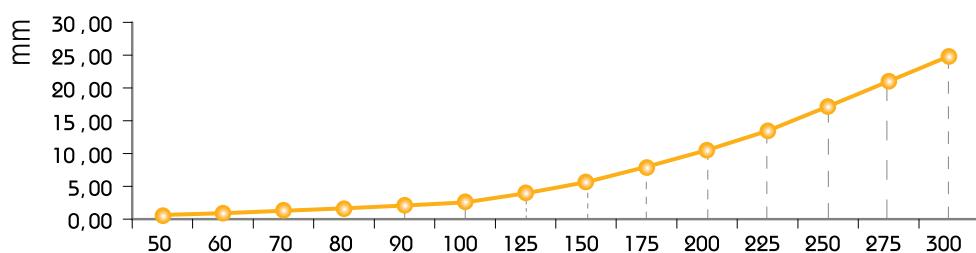
BEAM LOADING GRAPH

CCH-262

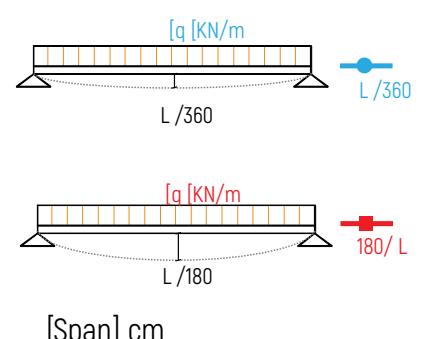
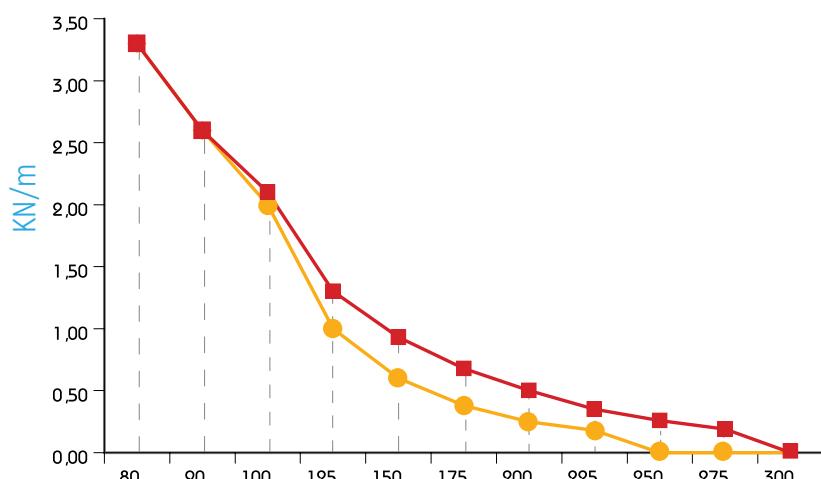
Allowable Loads



Deflection @ Allowable Uniform Load



Uniform Load @ Allowable Deflection

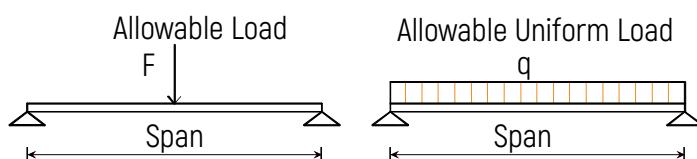
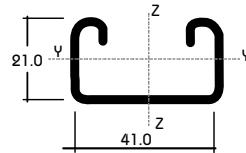


CCH-320/321

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



C-Channel: 41 x 21 x 2.0

Area of Shear (A_z)	0.55	cm ²
Moment of Inertia (I_y)	0.88	cm ⁴
Moment of Inertia (I_z)	4.25	cm ⁴
min. Section Modulus (S_y)	0.75	cm ³
Warping Constant (I_w)	21.34	cm ⁶
Torsional Constant (I_t)	0.02	cm ⁴
Plastic Moment cap. (M_{ply})	0.24	kNm
Self weight (G)	1.27	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

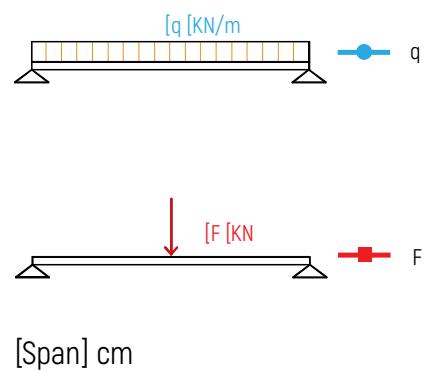
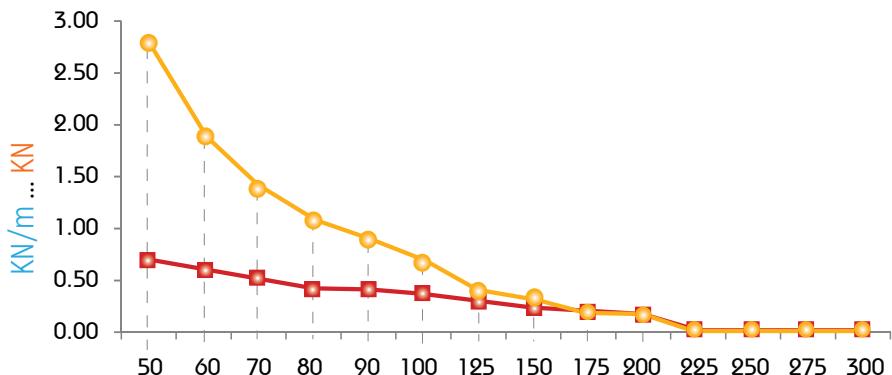
Span (L) [cm]	Allowable Load*		Deflection		Uniform Load* @	
	q [kN/m]	F [kN]	U [mm]	[L / X]	q [kN/m]	q [kN/m]
50	2.80	0.70	1.54	320	2.50	2.80
60	1.90	0.60	2.17	280	1.50	1.90
70	1.40	0.50	2.96	240	0.90	1.40
80	1.10	0.40	3.97	200	0.60	1.10
90	0.90	0.41	5.20	170	0.43	0.86
100	0.70	0.35	6.17	160	0.32	0.63
125	0.45	0.28	9.68	130	0.16	0.32
150	0.31	0.23	13.82	110	x	0.19
175	0.23	0.20	19.00	90	x	x
200	0.17	0.17	23.96	80	x	x
225	x	x	x	x	x	x
250	x	x	x	x	x	x
275	x	x	x	x	x	x
300	x	x	x	x	x	x

* Given loads are always "allowable characteristic live load"

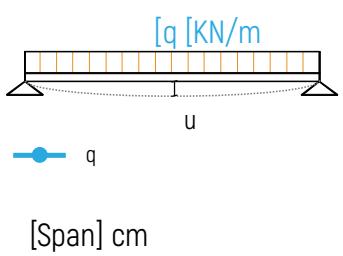
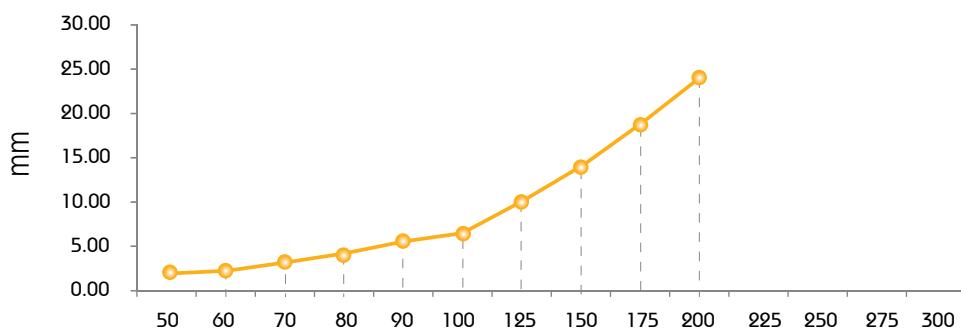
BEAM LOADING GRAPH

CCH-320/321

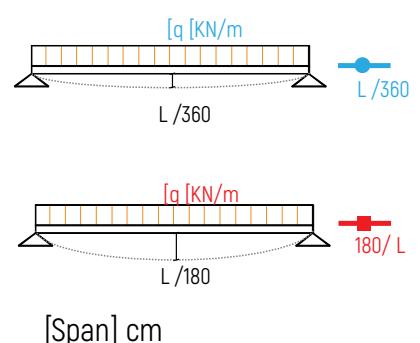
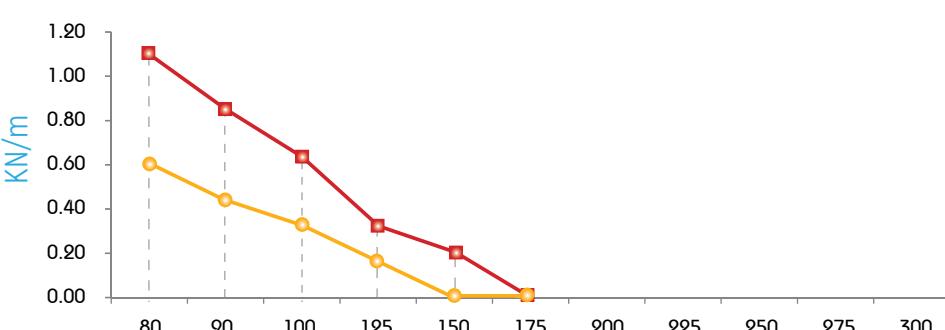
Allowable Loads



Deflection @ Allowable Uniform Load

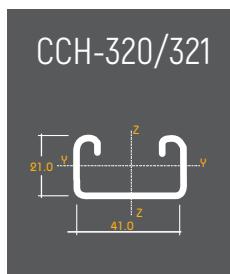


Uniform Load @ Allowable Deflection



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

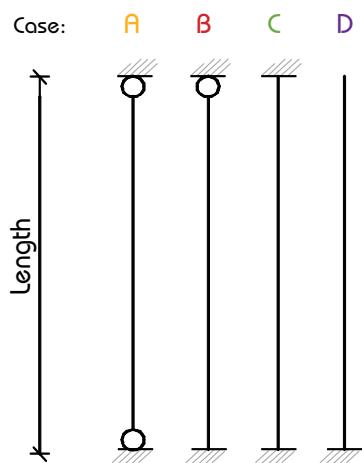


C-Channel: 41 x 21 x 2.0		
Cross Section Area (A)	1.62	cm ²
Moment of Inertia (I_y)	0.88	cm ⁴
Moment of Inertia (I_z)	4.25	cm ⁴
Self weight (G)	1.27	kg/m

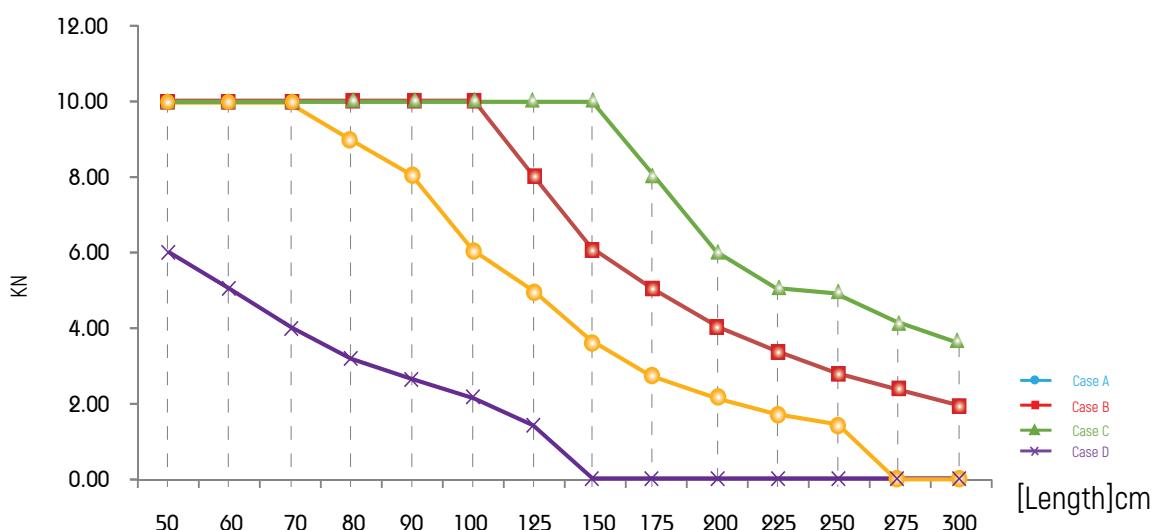


Column Load Data

Span [L] [cm]	Allowable Central Load** [KN]			
	Case A	Case B	Case C	Case D
50	10.00	10.00	10.00	6.00
60	10.00	10.00	10.00	5.00
70	10.00	10.00	10.00	4.00
80	9.00	10.00	10.00	3.20
90	8.00	10.00	10.00	2.60
100	6.00	10.00	10.00	2.10
125	4.90	8.00	10.00	1.40
150	3.60	6.00	10.00	x
175	2.70	5.00	8.00	x
200	2.10	4.00	6.00	x
225	1.70	3.30	5.00	x
250	1.40	2.70	4.90	x
275	x	2.30	4.10	x
300	x	1.90	3.60	x



**Allowable Central Load



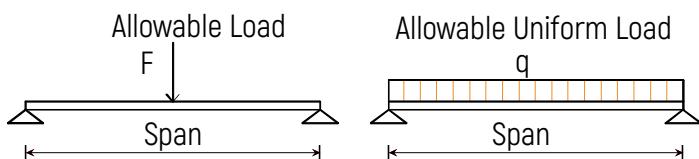
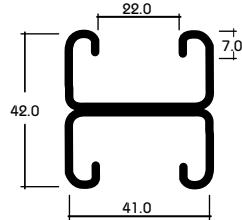
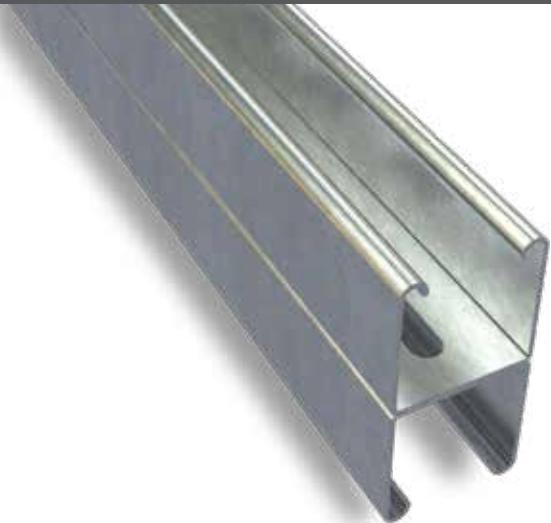
** Given loads are always "allowable characteristic live load"

CCH-322

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: 4ix21x2.0 b2b

Area of Shear (A_z)	0.71	cm^2
Moment of Inertia (I_y)	4.60	cm^4
Moment of Inertia (I_z)	8.51	cm^4
min. Section Modulus (S_y)	2.19	cm^3
Warping Constant (I_w)	19.76	cm^6
Torsional Constant (I_t)	0.06	cm^4
Plastic Moment cap. (M_{ply})	0.66	kNm
Self weight (G)	2.54	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

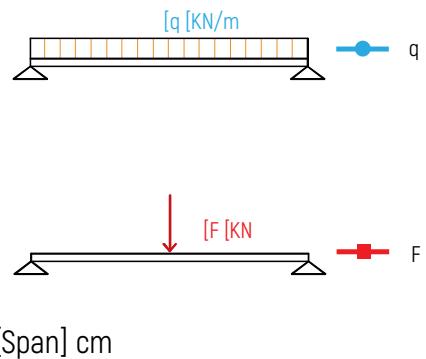
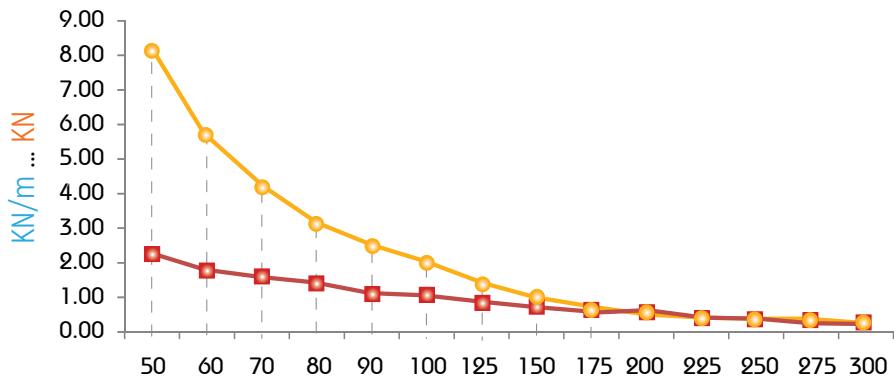
Span [L] [cm]	Allowable Load*		Deflection			L / 360	L / 180
	q [kN/m]	F [kN]	U [mm]	[L / X]	q [kN/m]	q [kN/m]	
50	8.20	2.10	0.86	580	8.20	8.20	
60	5.70	1.70	1.24	480	5.70	5.70	
70	4.20	1.50	1.70	410	4.20	4.20	
80	3.20	1.30	2.21	360	3.20	3.20	
90	2.50	1.10	2.76	330	2.30	2.50	
100	2.00	1.00	3.37	300	1.60	2.00	
125	1.30	0.80	5.35	230	0.80	1.30	
150	0.90	0.70	7.68	200	0.50	0.90	
175	0.67	0.60	10.59	170	0.30	0.60	
200	0.51	0.50	13.75	150	0.20	0.40	
225	0.40	0.50	17.27	130	x	0.30	
250	0.33	0.40	21.72	120	x	0.20	
275	0.27	0.37	26.02	110	x	x	
300	0.23	0.35	31.39	100	x	x	

* Given loads are always "allowable characteristic live load"

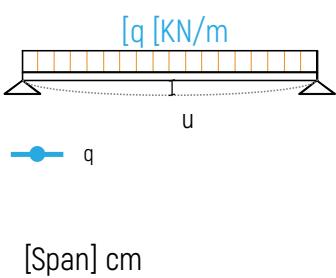
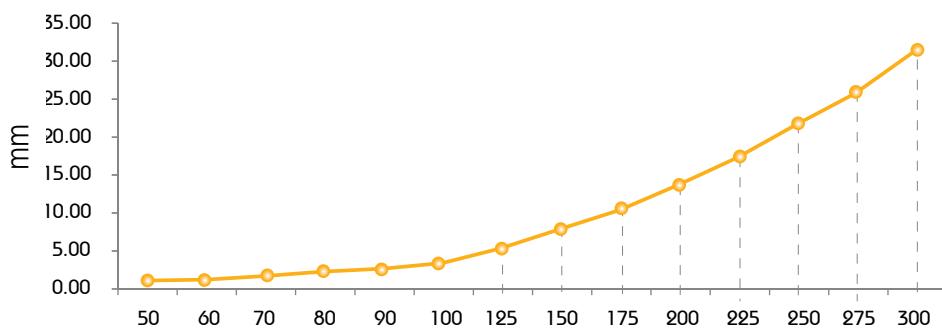
BEAM LOADING GRAPH

CCH-322

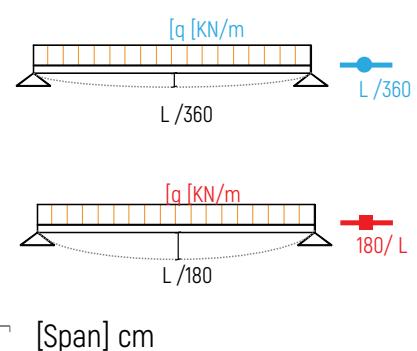
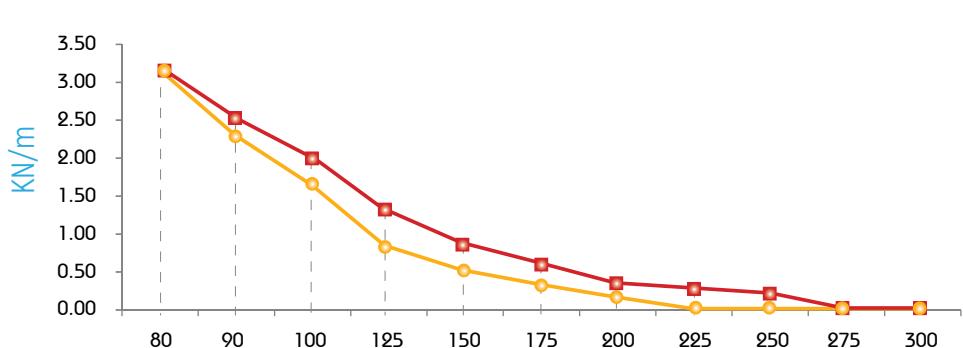
Allowable Loads



Deflection @ Allowable Uniform Load



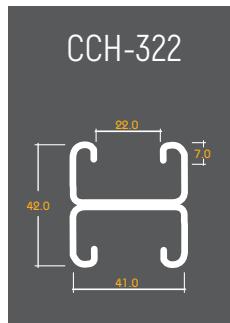
Uniform Load @ Allowable Deflection



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

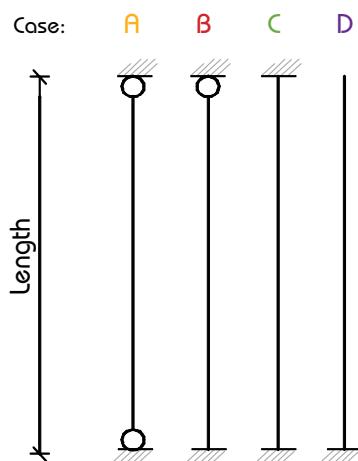
This associated data are considered for perforated and non-perforated c-channel types according to DIN 18.800

C-Channel:	41 x 21 x 2.0 b2b	
Cross Section Area (A)	3.67	cm ²
Moment of Inertia (I_y)	21.11	cm ⁴
Moment of Inertia (I_z)	11.37	cm ⁴
Self weight (G)	2.88	kg/m

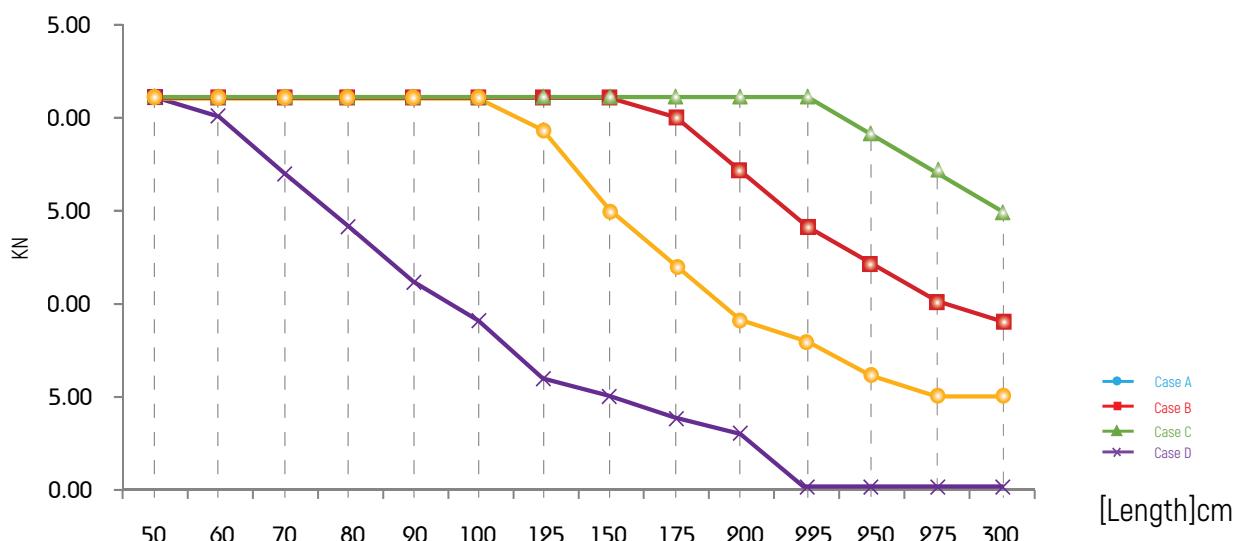


Column Load Data

Span [L] [cm]	Allowable Central Load** [KN]			
	Case A	Case B	Case C	Case D
50	24.00	24.00	24.00	24.00
60	24.00	24.00	24.00	24.00
70	24.00	24.00	24.00	24.00
80	24.00	24.00	24.00	24.00
90	24.00	24.00	24.00	23.00
100	24.00	24.00	24.00	20.00
125	24.00	24.00	24.00	14.00
150	24.00	24.00	24.00	10.00
175	24.00	24.00	24.00	8.00
200	20.00	24.00	24.00	6.00
225	17.00	24.00	24.00	5.00
250	14.00	24.00	24.00	4.40
275	12.00	21.00	24.00	3.70
300	10.00	19.00	24.00	x



**Allowable Central Load



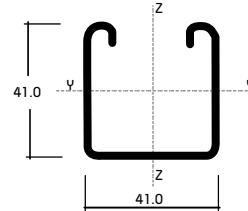
** Given loads are always "allowable characteristic live load"

CCH-340/341

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

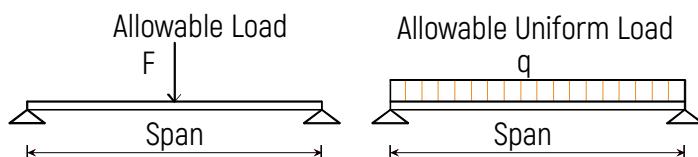
This associated data are considered for perforated and non-perforated c-channel types according to DIN 18.800

Thickness	: 2.0 mm
Standard Length	: 3.00 m
Finishes	: Pre-Galvanized, Hot-Dip Galvanized.



C-Channel: 40x41x2.0

Area of Shear (A_z)	1.34	cm ²
Moment of Inertia (I_y)	4.59	cm ⁴
Moment of Inertia (I_z)	6.99	cm ⁴
min. Section Modulus (S_y)	2.18	cm ³
Warping Constant (I_w)	138.49	cm ⁶
Torsional Constant (I_t)	0.03	cm ⁴
Plastic Moment cap. ($M_{pl,y}$)	0.64	kNm
Self weight (G)	1.83	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

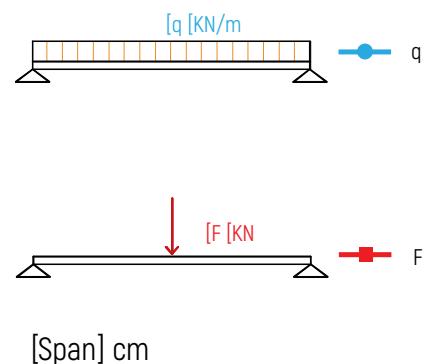
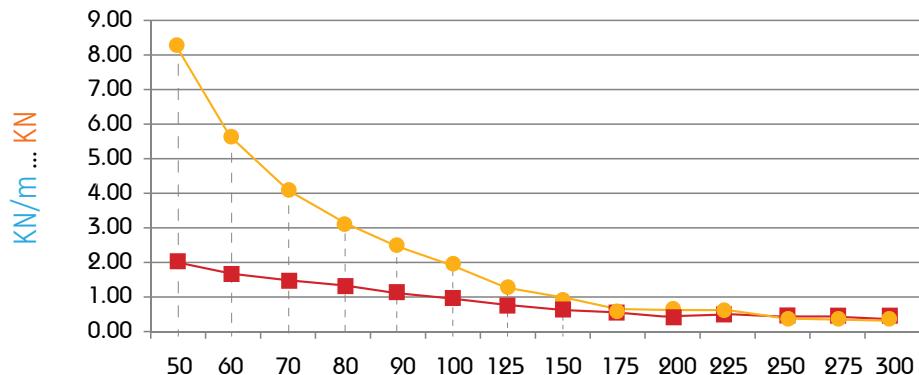
Span [L] [cm]	Allowable Load*		Deflection		Uniform Load* @	
	q [kN/m]	F [kN]	U [mm]	[L / X]	q [kN/m]	q [kN/m]
50	8.10	2.00	0.85	580	8.10	8.10
60	5.60	1.70	1.23	490	5.60	5.60
70	4.10	1.40	1.66	420	4.10	4.10
80	3.20	1.30	2.21	360	3.20	3.20
90	2.50	1.10	2.77	320	2.30	2.50
100	2.00	1.00	3.38	300	1.60	2.00
125	1.30	0.80	5.36	230	0.80	1.30
150	0.90	0.70	7.69	190	0.50	0.90
175	0.66	0.60	10.45	170	0.30	0.60
200	0.51	0.50	13.78	150	0.20	0.40
225	0.40	0.50	17.31	130	x	0.30
250	0.32	0.40	21.11	120	x	0.20
275	0.27	0.37	26.07	110	x	x
300	0.23	0.35	31.46	100	x	x

* Given loads are always "allowable characteristic live load"

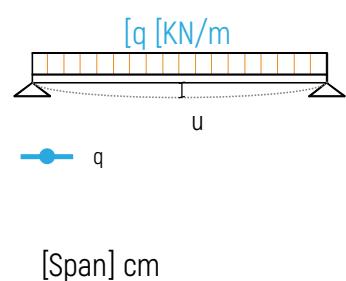
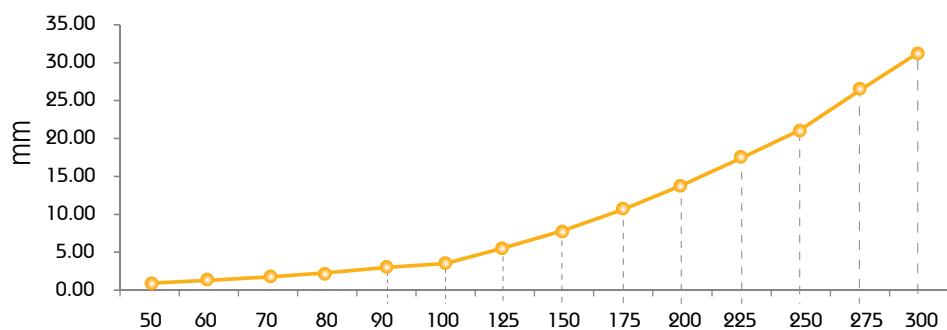
BEAM LOADING GRAPH

CCH-340/341

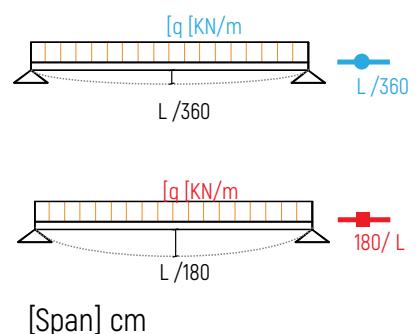
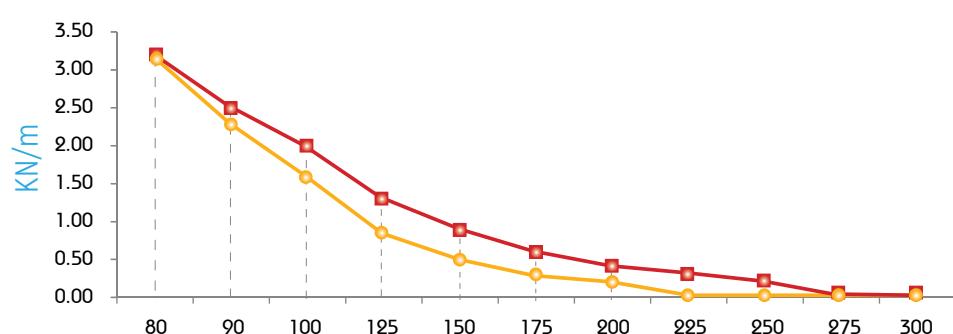
Allowable Loads



Deflection @ Allowable Uniform Load

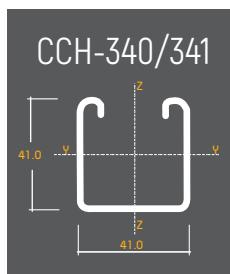


Uniform Load @ Allowable Deflection



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

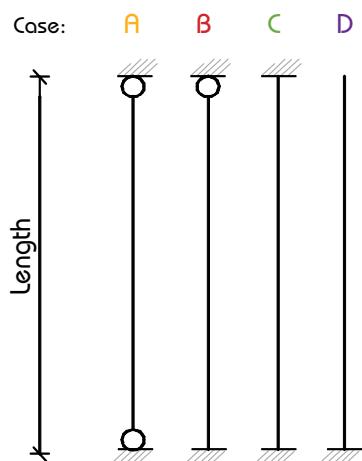


C-Channel: 41 x 41 x 2.0		
Cross Section Area (A)	2.33	cm ²
Moment of Inertia (I_y)	4.59	cm ⁴
Moment of Inertia (I_z)	6.99	cm ⁴
Self weight (G)	1.83	kg/m

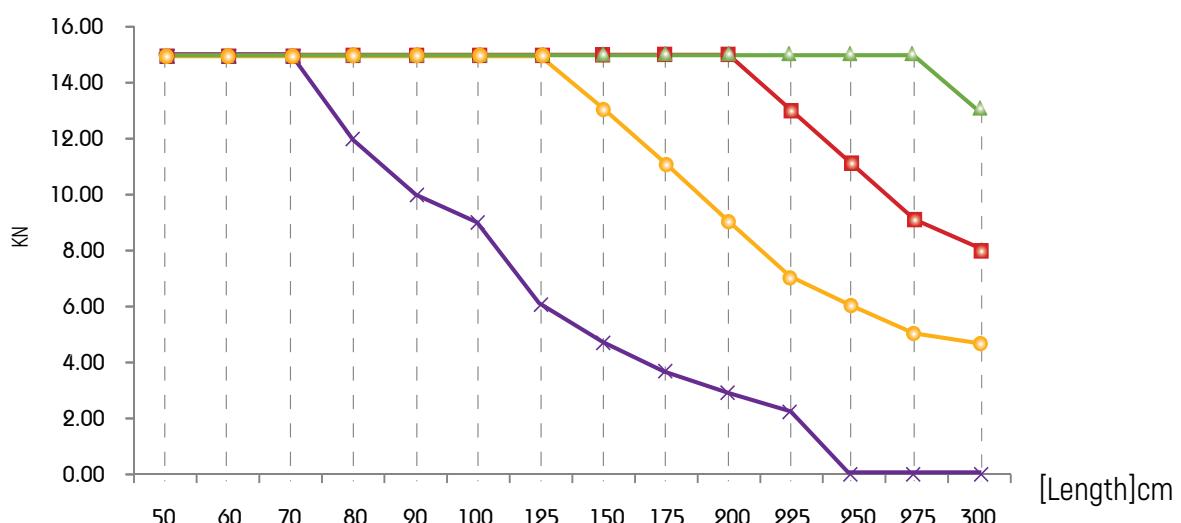


Column Load Data

Span (L) [cm]	Allowable Central Load** [KN]			
	Case A	Case B	Case C	Case D
50	15.00	15.00	15.00	15.00
60	15.00	15.00	15.00	15.00
70	15.00	15.00	15.00	15.00
80	15.00	15.00	15.00	12.00
90	15.00	15.00	15.00	10.00
100	15.00	15.00	15.00	9.00
125	15.00	15.00	15.00	6.00
150	13.00	15.00	15.00	4.70
175	11.00	15.00	15.00	3.60
200	9.00	15.00	15.00	2.80
225	7.00	13.00	15.00	2.20
250	6.00	11.00	15.00	x
275	5.00	9.00	15.00	x
300	4.70	8.00	13.00	x



**Allowable Central Load



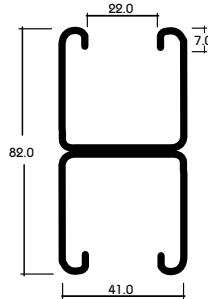
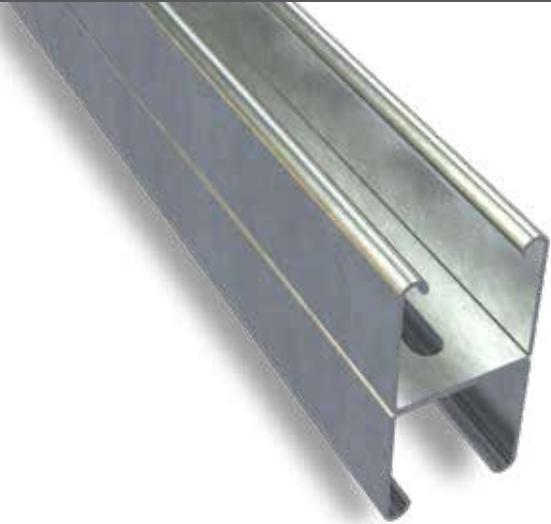
** Given loads are always "allowable characteristic live load"

CCH-342

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

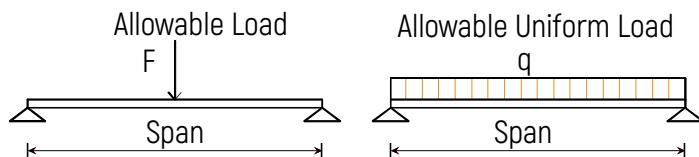


C-Channel: 41x41x2.0 b2b

Area of Shear (A_z)	1.88	cm ²
Moment of Inertia (I_y)	26.81	cm ⁴
Moment of Inertia (I_z)	14.04	cm ⁴
min. Section Modulus (S_y)	6.62	cm ³
Warping Constant (I_w)	113.65	cm ⁶
Torsional Constant (I_t)	0.08	cm ⁴
Plastic Moment cap. (M_{ply})	1.98	kNm
Self weight (G)	3.76	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



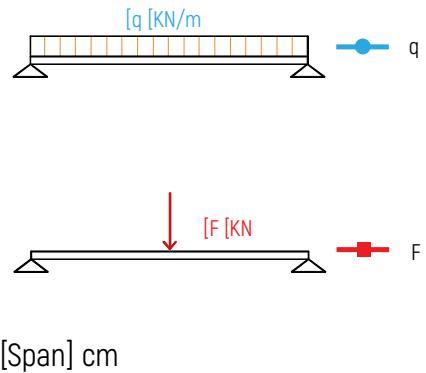
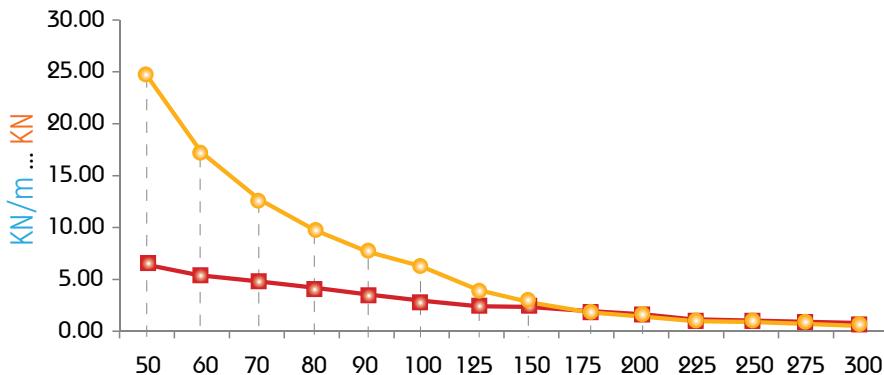
Span [L] [cm]	Allowable Load*		Deflection			Uniform Load* @	
	q [kN/m]	F [kN]	U [mm]	[L / X]	q [kN/m]	q [kN/m]	
50	24.70	6.20	0.45	1.120	24.70	24.70	
60	17.10	5.10	0.64	940	17.10	17.10	
70	12.60	4.40	0.87	800	12.60	12.60	
80	9.60	3.80	1.14	700	9.60	9.60	
90	7.60	3.40	1.44	620	7.60	7.60	
100	6.20	3.10	1.79	560	6.20	6.20	
125	3.90	2.40	2.75	450	3.90	3.90	
150	2.70	2.00	3.9	380	2.70	2.70	
175	2.00	1.80	5.42	320	1.80	2.00	
200	1.50	1.50	6.4	290	1.20	1.50	
225	1.10	1.20	8.15	280	0.80	1.10	
250	0.90	1.10	10.16	250	0.60	0.90	
275	0.66	0.90	10.91	250	0.50	0.70	
300	0.52	0.80	12.18	250	0.40	0.50	

* Given loads are always "allowable characteristic live load"

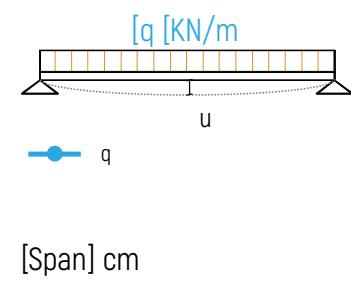
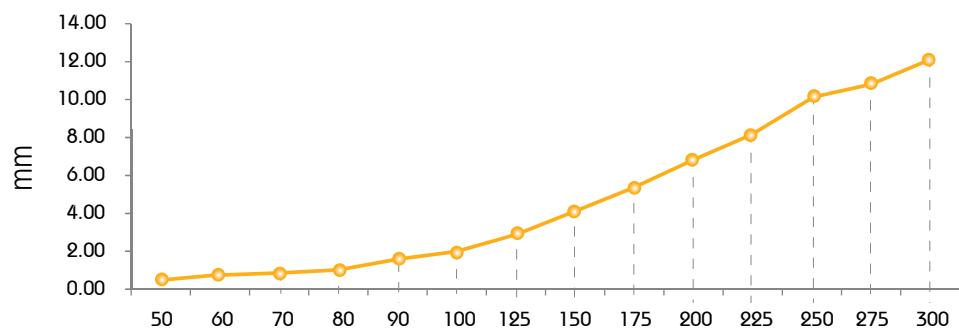
BEAM LOADING GRAPH

CCH-342

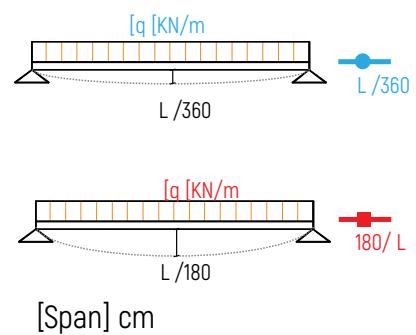
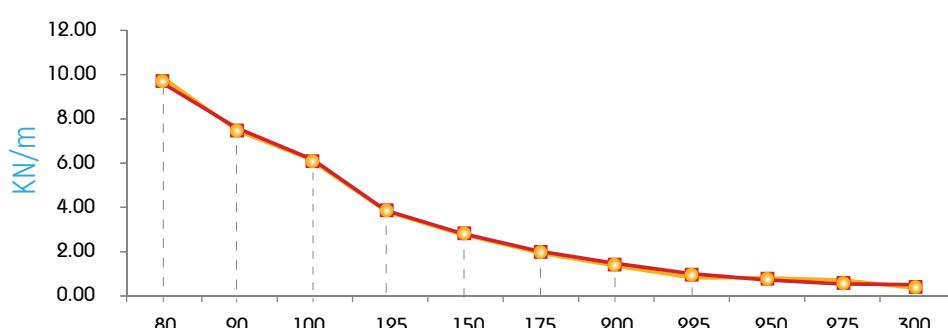
Allowable Loads



Deflection @ Allowable Uniform Load



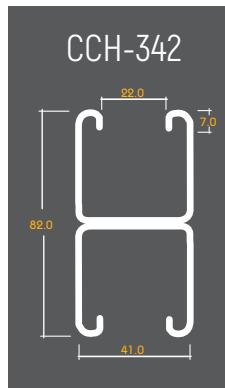
Uniform Load @ Allowable Deflection



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

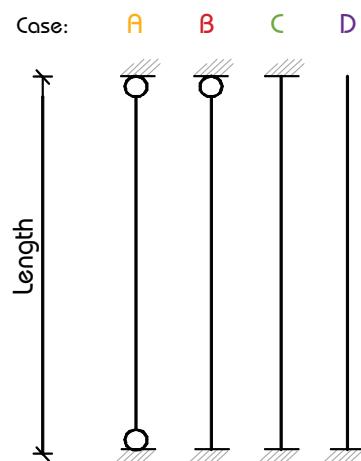
This associated data are considered for perforated and non-perforated c-channel types according to DIN 18.800

C-Channel:	41 x 41 x 2.0 b2b	
Cross Section Area (A)	4.79	cm ²
Moment of Inertia (I_y)	26.81	cm ⁴
Moment of Inertia (I_z)	14.04	cm ⁴
Self weight (G)	3.76	kg/m

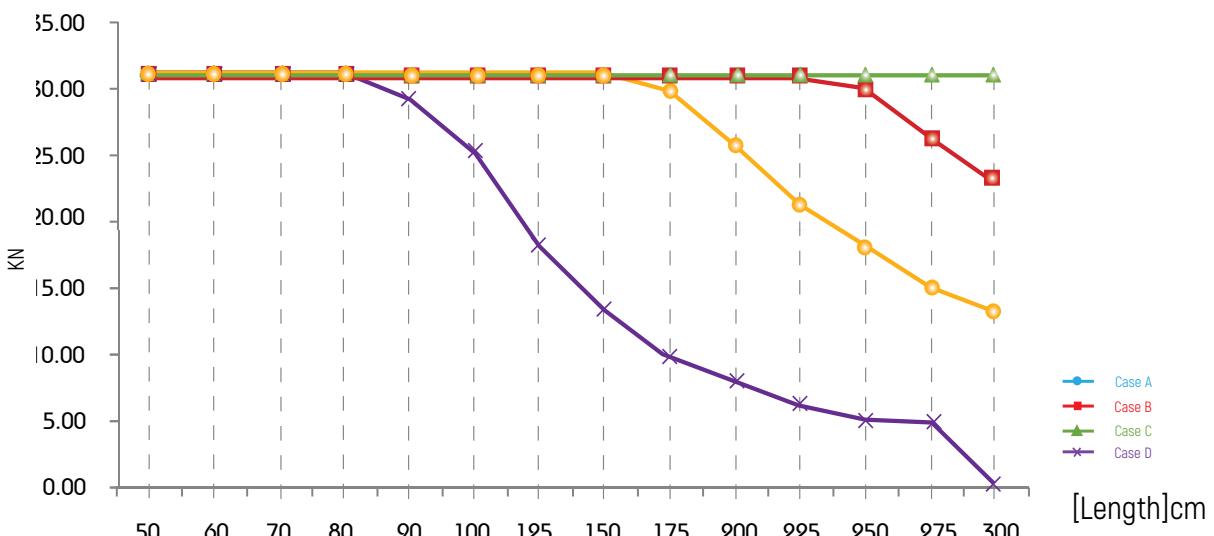


Column Load Data

Span [L] [cm]	Allowable Central Load** [KN]			
	Case A	Case B	Case C	Case D
50	31.00	31.00	31.00	31.00
60	31.00	31.00	31.00	31.00
70	31.00	31.00	31.00	31.00
80	31.00	31.00	31.00	31.00
90	31.00	31.00	31.00	29.00
100	31.00	31.00	31.00	25.00
125	31.00	31.00	31.00	18.00
150	31.00	31.00	31.00	13.00
175	30.00	31.00	31.00	10.00
200	25.00	31.00	31.00	8.00
225	21.00	31.00	31.00	6.00
250	18.00	30.00	31.00	5.00
275	15.00	26.00	31.00	4.60
300	13.00	23.00	31.00	x



**Allowable Central Load



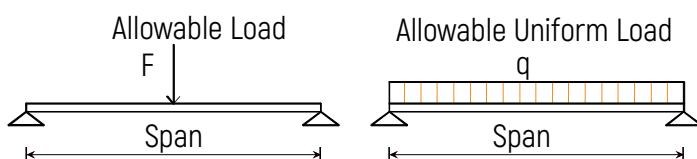
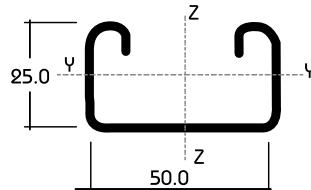
** Given loads are always "allowable characteristic live load"

CCH-360/361

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



C-Channel: 50 x 25 x 2.0

Area of Shear (A_z)	0.68	cm ²
Moment of Inertia (I_y)	1.51	cm ⁴
Moment of Inertia (I_z)	7.87	cm ⁴
min. Section Modulus (S_y)	1.05	cm ³
Warping Constant (I_w)	50.65	cm ⁶
Torsional Constant (I_t)	0.03	cm ⁴
Plastic Moment cap. (M_{ply})	0.34	kNm
Self weight (G)	1.55	kg/m

Chosen Material: 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

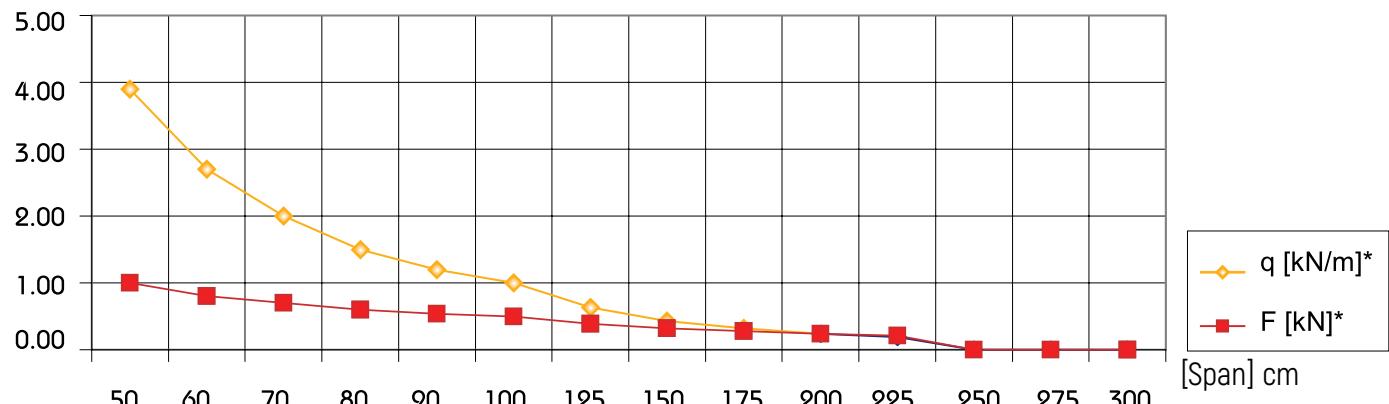
Span (L)	Uniform Load* @					
	L / 360	L / 180	Allowable Load*		Deflection	
[cm]	q [kN/m]	F [kN]	U [mm]	[L/X]	q [kN/m]	q [kN/m]
30	10.90	1.60	0.40	750	10.90	10.90
40	6.10	1.20	0.71	570	6.10	6.10
50	3.90	1.00	1.11	450	3.90	3.90
60	2.70	0.80	1.59	380	2.50	2.70
70	2.00	0.70	2.19	320	1.58	1.99
80	1.50	0.60	2.80	290	1.06	1.53
90	1.20	0.54	3.60	250	0.74	1.21
100	1.00	0.50	4.59	220	0.54	0.98
125	0.63	0.39	7.12	180	0.28	0.55
150	0.43	0.32	10.19	150	0.16	0.32
175	0.32	0.28	14.21	120	x	0.20
200	0.24	0.24	18.46	110	x	x
225	0.19	0.21	23.79	90	x	x
250	x	x	x	x	x	x
275	x	x	x	x	x	x
300	x	x	x	x	x	x

* Given loads are always "allowable characteristic live load"

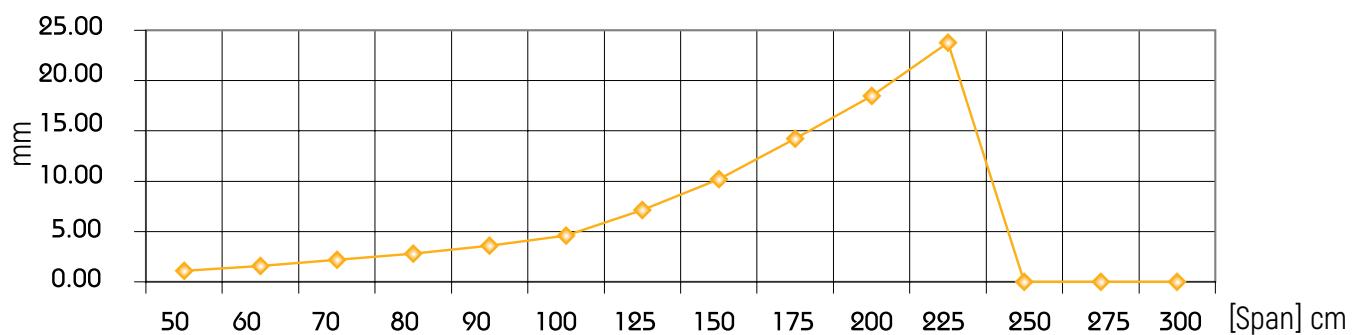
BEAM LOADING GRAPH

CCH-360/361

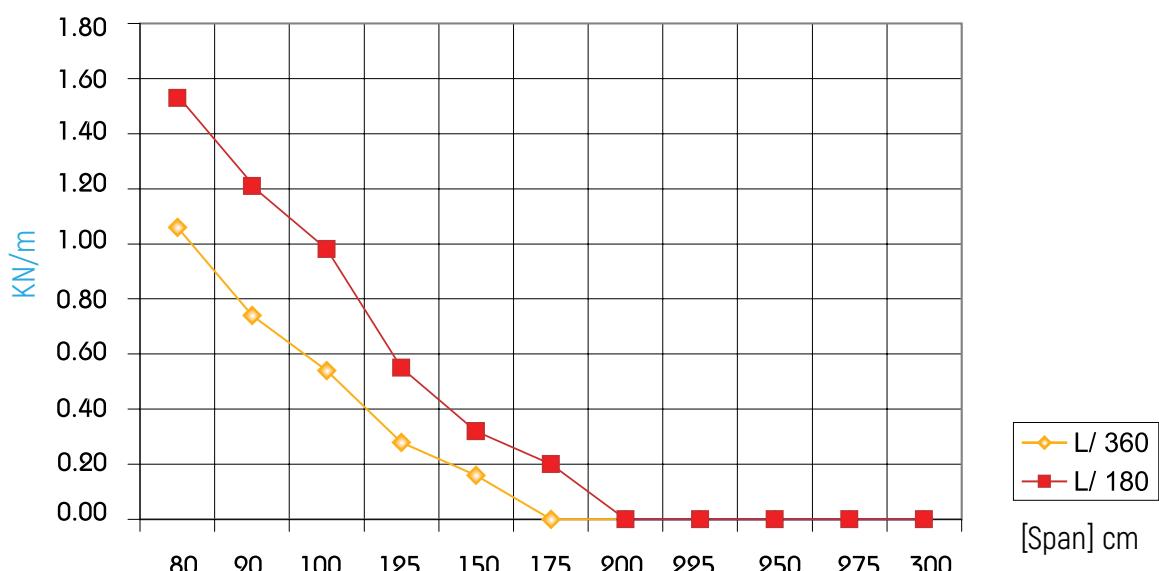
Allowable Loads



Deflection @ Allowable Uniform Load



Uniform Load @ Allowable Deflection

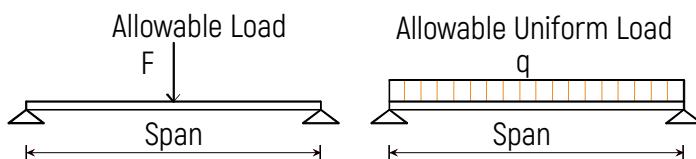
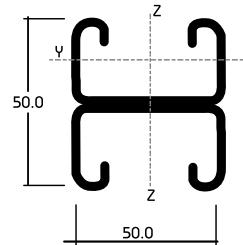


CCH-362

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



C-Channel: 50 x 25 x 2.0 b2b		
Area of Shear (A_z)	1.39	cm ²
Moment of Inertia (I_y)	7.33	cm ⁴
Moment of Inertia (I_z)	15.75	cm ⁴
min. Section Modulus (S_y)	2.93	cm ³
Warping Constant (I_w)	43.54	cm ⁶
Torsional Constant (I_t)	0.06	cm ⁴
Plastic Moment cap. (M_{ply})	0.88	kNm
Self weight (G)	3.00	kg/m

Chosen Material: 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

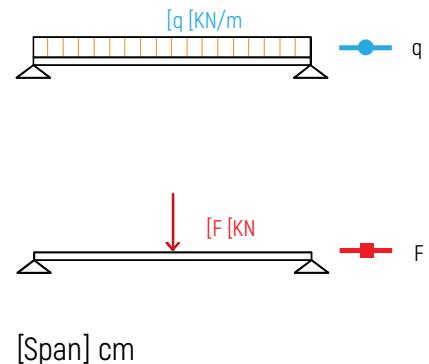
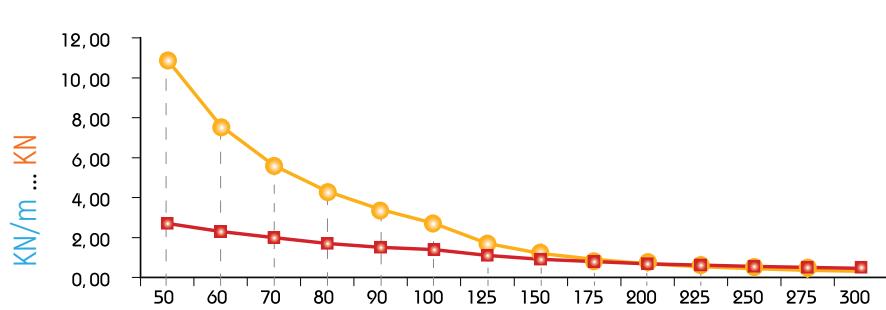
Span (L)	Allowable Load*		Deflection		L / 360	L / 180
	[cm]	q [kN/m]	F [kN]	U [mm]	[L / X]	
50	10,90	2,70	0,64	790	10,90	10,90
60	7,60	2,30	0,92	650	7,60	7,60
70	5,60	2,00	1,26	560	5,60	5,60
80	4,30	1,70	1,65	480	4,30	4,30
90	3,40	1,50	2,09	430	3,40	3,40
100	2,70	1,40	2,54	390	2,60	2,70
125	1,70	1,10	3,93	320	1,30	1,70
150	1,20	0,90	5,79	260	0,80	1,20
175	0,90	0,79	8,12	220	0,49	0,89
200	0,68	0,68	10,57	190	0,33	0,66
225	0,54	0,61	13,59	170	0,23	0,46
250	0,44	0,55	17,08	150	0,17	0,34
275	0,36	0,50	20,75	130	x	0,25
300	0,30	0,45	24,87	120	x	0,19

* Given loads are always "allowable characteristic live load"

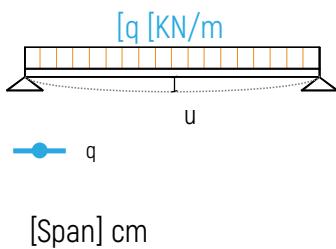
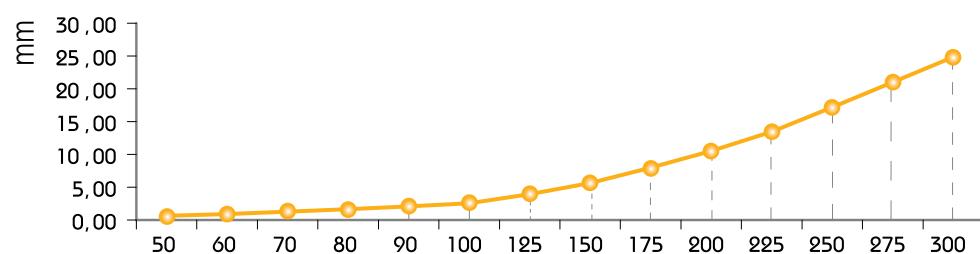
BEAM LOADING GRAPH

CCH-362

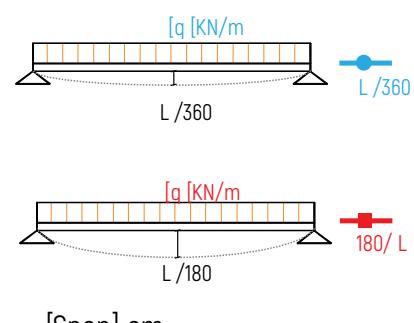
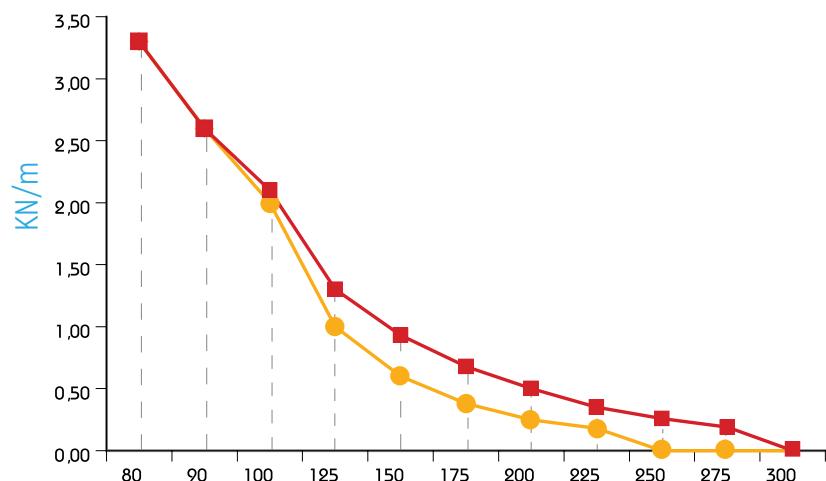
Allowable Loads



Deflection @ Allowable Uniform Load



Uniform Load @ Allowable Deflection



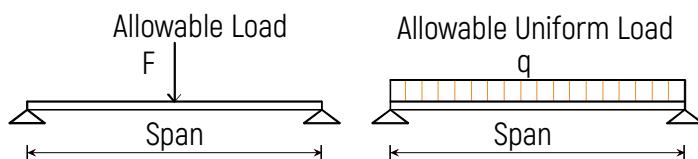
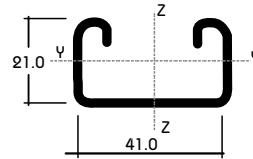
[Span] cm

CCH-420/421

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



C-Channel:

40x21x2.5		
Area of Shear (A_z)	0.67	cm ²
Moment of Inertia (I_y)	1.03	cm ⁴
Moment of Inertia (I_z)	5.07	cm ⁴
min. Section Modulus (S_y)	0.89	cm ³
Warping Constant (I_w)	24.34	cm ⁶
Torsional Constant (I_t)	0.06	cm ⁴
Plastic Moment cap. ($M_{pl,y}$)	0.29	kNm
Self weight (G)	1.56	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

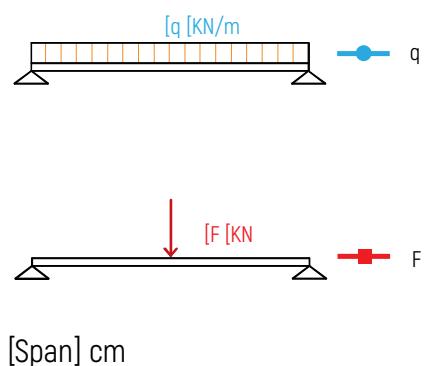
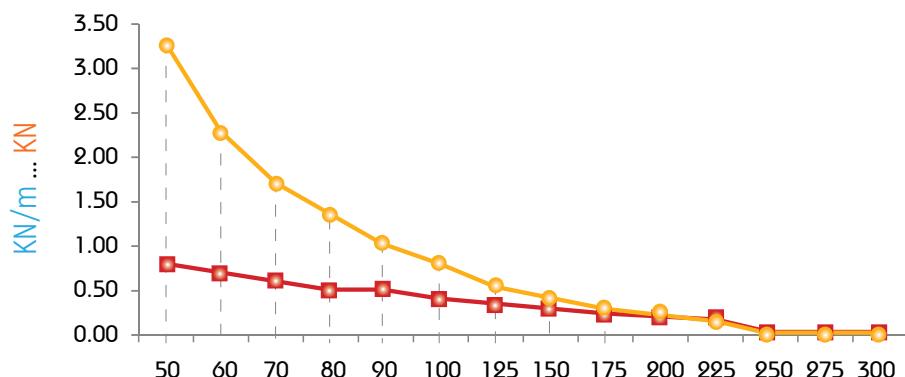
Span [L] [cm]	Allowable Load*		Deflection		Uniform Load* @ L / 360		L / 180	
	q [kN/m]	F [kN]	U [mm]	[L / X]	q [kN/m]	q [kN/m]	X	X
50	3.30	0.80	1.55	320	3.00	3.30		
60	2.30	0.70	2.24	270	1.70	2.30		
70	1.70	0.60	3.07	230	1.10	1.70		
80	1.30	0.50	4.01	200	0.70	1.30		
90	1.00	0.50	4.94	180	0.50	1.00		
100	0.80	0.40	6.02	170	0.40	0.70		
125	0.53	0.33	9.74	130	0.19	0.38		
150	0.37	0.28	14.09	110	X	0.22		
175	0.27	0.24	19.05	90	X	X		
200	0.21	0.21	25.28	80	X	X		
225	0.16	0.28	30.86	70	X	X		
250	X	X	X	X	X	X		
275	X	X	X	X	X	X		
300	X	X	X	X	X	X		

* Given loads are always "allowable characteristic live load"

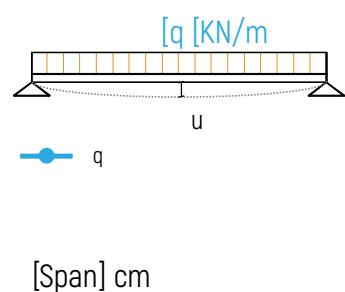
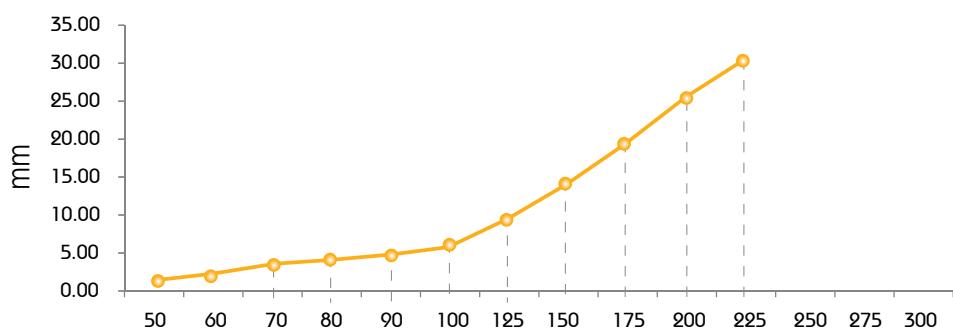
BEAM LOADING GRAPH

CCH-420/421

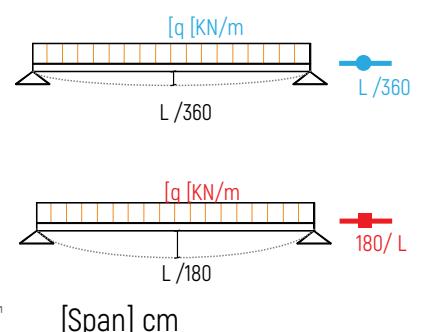
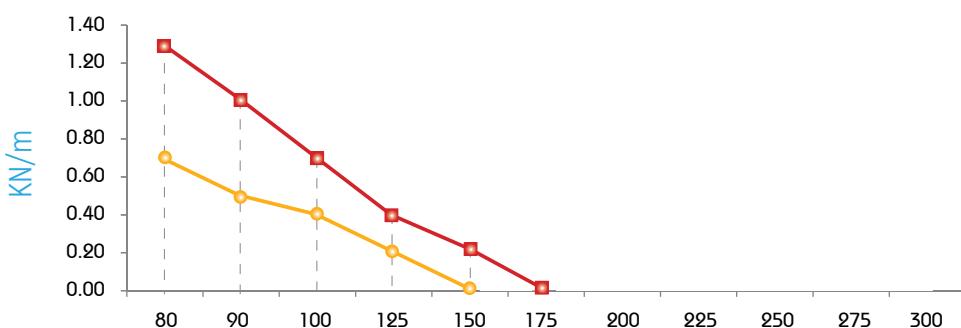
Allowable Loads



Deflection @ Allowable Uniform Load

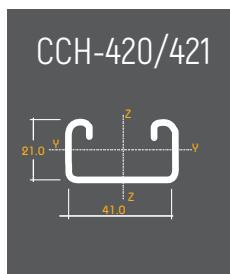


Uniform Load @ Allowable Deflection



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

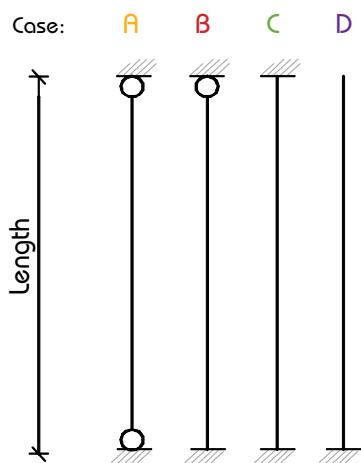


C-Channel: 41 x 21 x 2.5		
Cross Section Area (A)	1.99	cm ²
Moment of Inertia (I_y)	1.03	cm ⁴
Moment of Inertia (I_z)	5.07	cm ⁴
Self weight (G)	1.56	kg/m

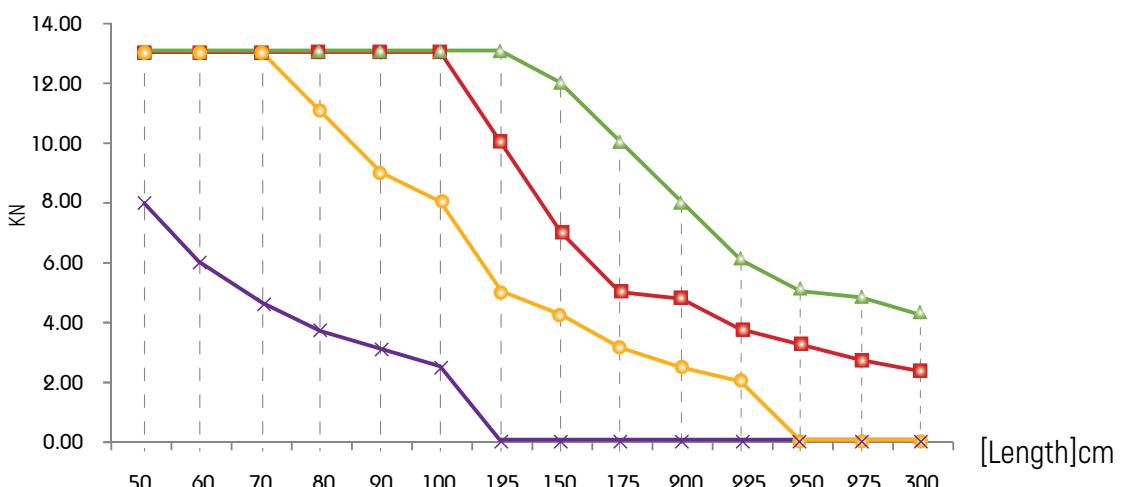


Column Load Data

Span [L] [cm]	Allowable Central Load** [KN]			
	Case A	Case B	Case C	Case D
50	13.00	13.00	13.00	8.00
60	13.00	13.00	13.00	6.00
70	13.00	13.00	13.00	4.70
80	11.00	13.00	13.00	3.70
90	9.00	13.00	13.00	3.00
100	8.00	13.00	13.00	2.50
125	5.00	10.00	13.00	x
150	4.20	7.00	12.00	x
175	3.20	5.00	10.00	x
200	2.50	4.70	8.00	x
225	2.00	3.80	6.00	x
250	x	3.20	5.00	x
275	x	2.70	4.90	x
300	x	2.30	4.20	x



**Allowable Central Load



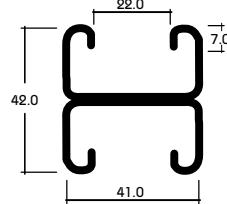
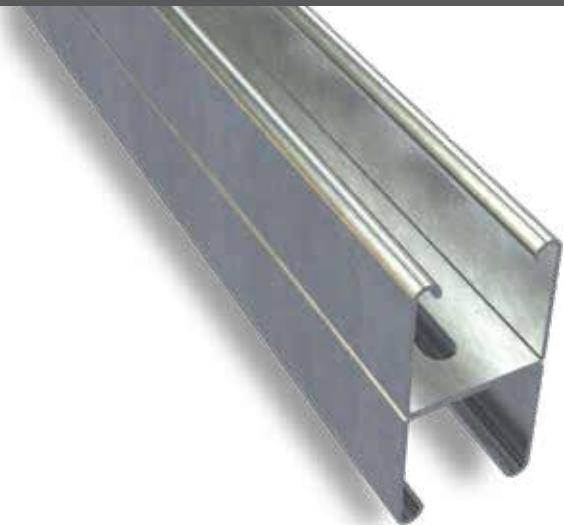
** Given loads are always "allowable characteristic live load"

CCH-422

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



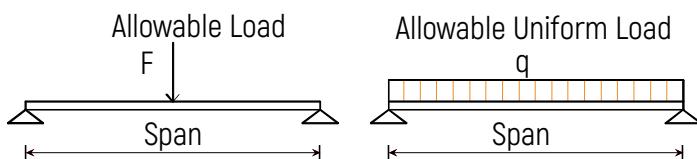
C-Channel:

4ix21x2.5 b2b		
Area of Shear (A_z)	0.88	cm^2
Moment of Inertia (I_y)	5.55	cm^4
Moment of Inertia (I_z)	10.14	cm^4
min. Section Modulus (S_y)	2.65	cm^3
Warping Constant (I_w)	22.30	cm^6
Torsional Constant (I_t)	0.12	cm^4
Plastic Moment cap. (M_{ply})	0.82	kNm
Self weight (G)	3.13	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



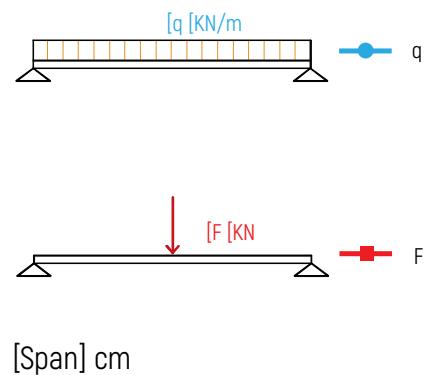
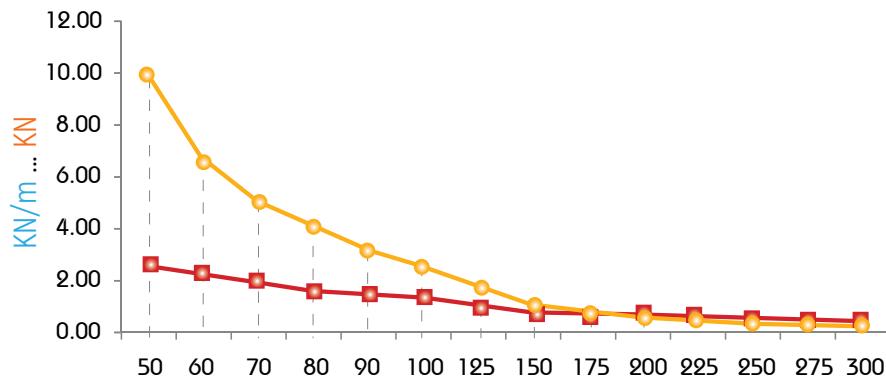
Span [L] [cm]	Allowable Load*		Deflection			Uniform Load* @	
	q [kN/m]	F [kN]	U [mm]	[L / X]	q [kN/m]	q [kN/m]	
50	9.90	2.50	0.86	580	9.90	9.90	
60	6.90	2.10	1.25	480	6.90	6.90	
70	5.00	1.80	1.68	420	5.00	5.00	
80	3.90	1.60	2.23	360	3.90	3.90	
90	3.00	1.40	2.75	330	2.70	3.00	
100	2.50	1.30	3.49	290	2.00	2.50	
125	1.60	1.00	5.46	230	1.00	1.60	
150	1.10	0.80	7.78	190	0.60	1.10	
175	0.80	0.70	10.48	170	0.40	0.70	
200	0.62	0.60	13.85	140	0.20	0.50	
225	0.49	0.60	17.54	130	0.20	0.30	
250	0.39	0.50	21.27	120	x	0.30	
275	0.33	0.50	26.36	100	x	0.20	
300	0.27	0.40	30.54	100	x	x	

* Given loads are always "allowable characteristic live load"

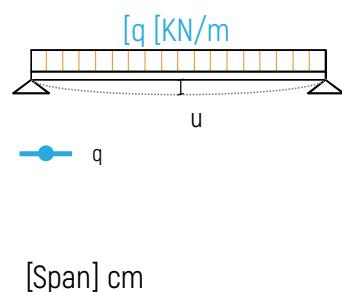
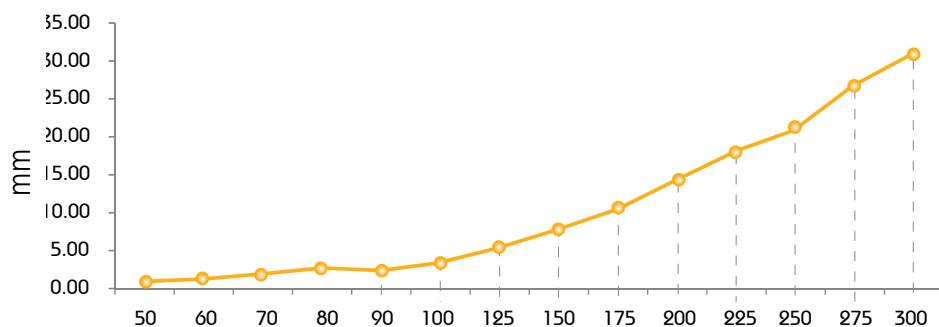
BEAM LOADING GRAPH

CCH-442

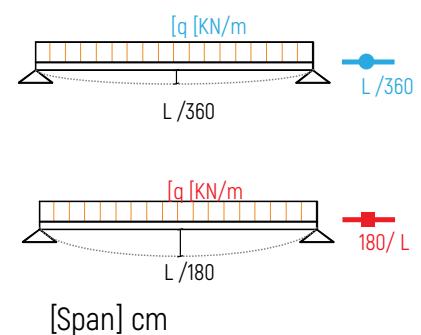
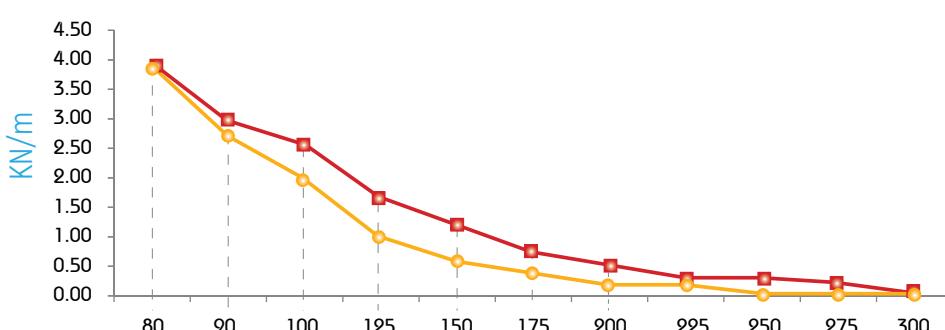
Allowable Loads



Deflection @ Allowable Uniform Load



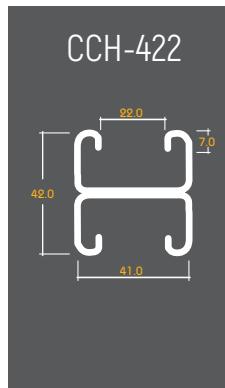
Uniform Load @ Allowable Deflection



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

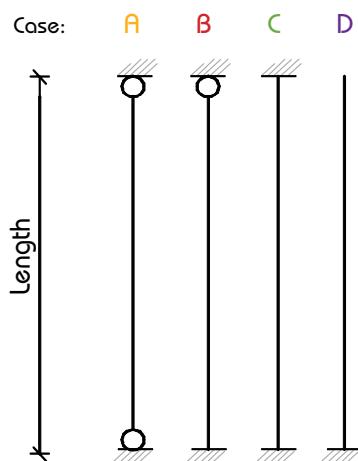
This associated data are considered for perforated and non-perforated c-channel types according to DIN 18.800

C-Channel:	41 x 21 x 2.5 b2b	
Cross Section Area (A)	3.99	cm ²
Moment of Inertia (I_y)	5.55	cm ⁴
Moment of Inertia (I_z)	10.14	cm ⁴
Self weight (G)	3.13	kg/m

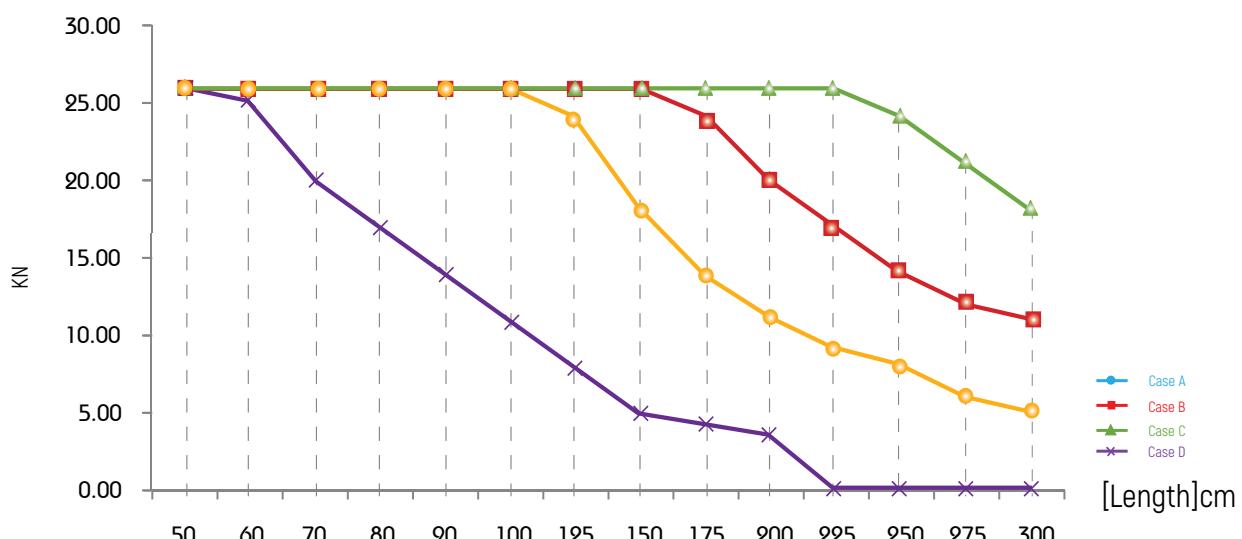


Column Load Data

Span [L] [cm]	Allowable Central Load** [KN]			
	Case A	Case B	Case C	Case D
50	26.00	26.00	26.00	26.00
60	26.00	26.00	26.00	25.00
70	26.00	26.00	26.00	20.00
80	26.00	26.00	26.00	17.00
90	26.00	26.00	26.00	14.00
100	26.00	26.00	26.00	11.00
125	24.00	26.00	26.00	8.00
150	18.00	26.00	26.00	5.00
175	14.00	24.00	26.00	4.40
200	11.00	20.00	26.00	3.50
225	9.00	17.00	26.00	x
250	8.00	14.00	24.00	x
275	6.00	12.00	21.00	x
300	5.00	11.00	18.00	x



**Allowable Central Load



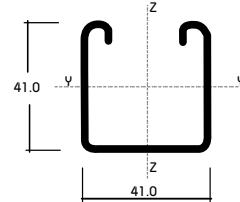
** Given loads are always "allowable characteristic live load"

CCH-440/441

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



C-Channel:

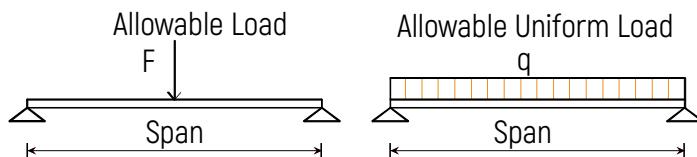
40x41x2.5

Area of Shear (A_z)	1.67	cm ²
Moment of Inertia (I_y)	5.87	cm ⁴
Moment of Inertia (I_z)	8.76	cm ⁴
min. Section Modulus (S_y)	2.72	cm ³
Warping Constant (I_w)	171.52	cm ⁶
Torsional Constant (I_t)	0.07	cm ⁴
Plastic Moment cap. ($M_{pl,y}$)	0.82	kNm
Self weight (G)	2.32	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

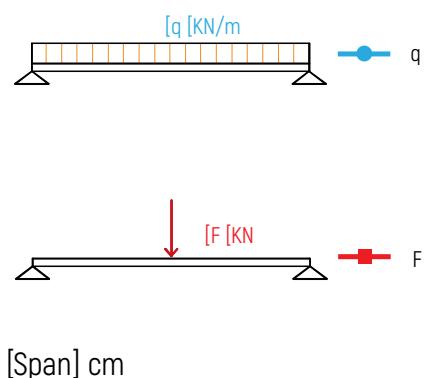
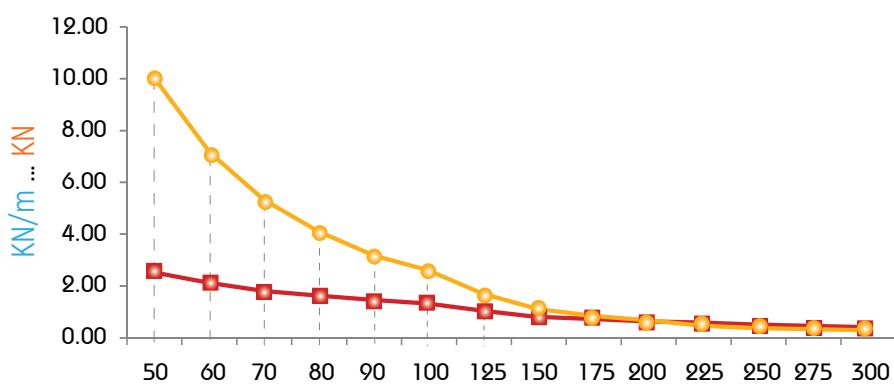


Span (L) [cm]	Allowable Load*		Deflection		L / 360 [q [kN/m]]	L / 180 [q [kN/m]]
	[q [kN/m]]	[F [kN]]	[U [mm]]	[L / X]		
50	10.10	2.50	0.83	600	10.10	10.10
60	7.00	2.10	1.20	500	7.00	7.00
70	5.20	1.80	1.65	420	5.20	5.20
80	4.00	1.60	2.16	370	4.00	4.00
90	3.10	1.40	2.69	340	2.90	3.10
100	2.50	1.30	3.30	300	2.10	2.50
125	1.60	1.00	5.16	240	1.10	1.60
150	1.10	0.80	7.35	200	0.60	1.10
175	0.80	0.70	9.91	180	0.40	0.80
200	0.63	0.60	13.31	150	0.30	0.50
225	0.50	0.60	16.92	130	0.20	0.40
250	0.41	0.50	21.15	120	x	0.30
275	0.33	0.50	24.92	110	x	0.20
300	0.28	0.40	29.95	100	x	x

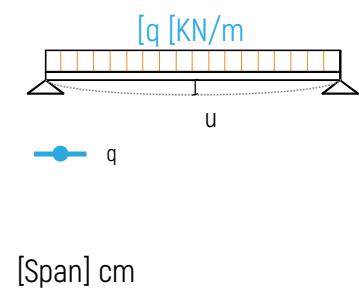
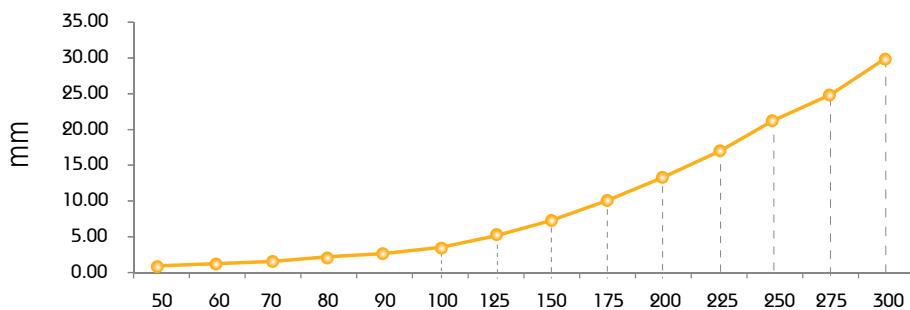
BEAM LOADING GRAPH

CCH-440/441

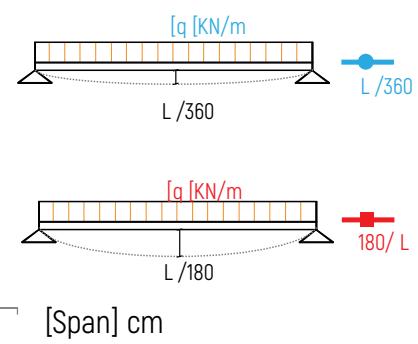
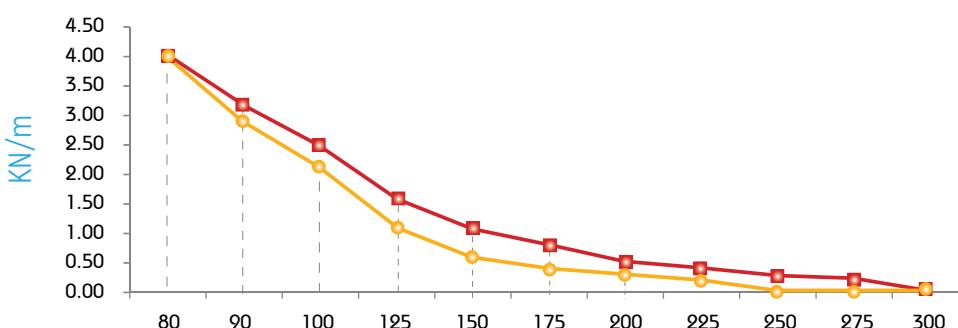
Allowable Loads



Deflection @ Allowable Uniform Load

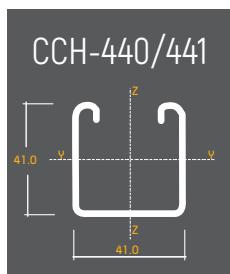


Uniform Load @ Allowable Deflection



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

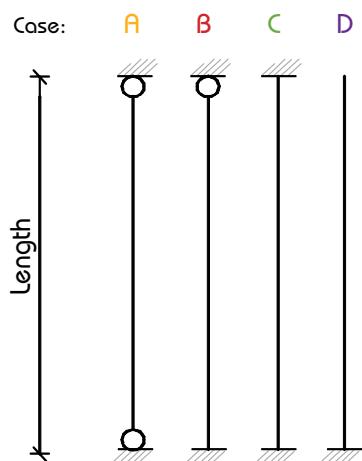


C-Channel: 41 x 41 x 2.5		
Cross Section Area (A)	2.95	cm ²
Moment of Inertia (I_y)	5.87	cm ⁴
Moment of Inertia (I_z)	8.76	cm ⁴
Self weight (G)	2.32	kg/m

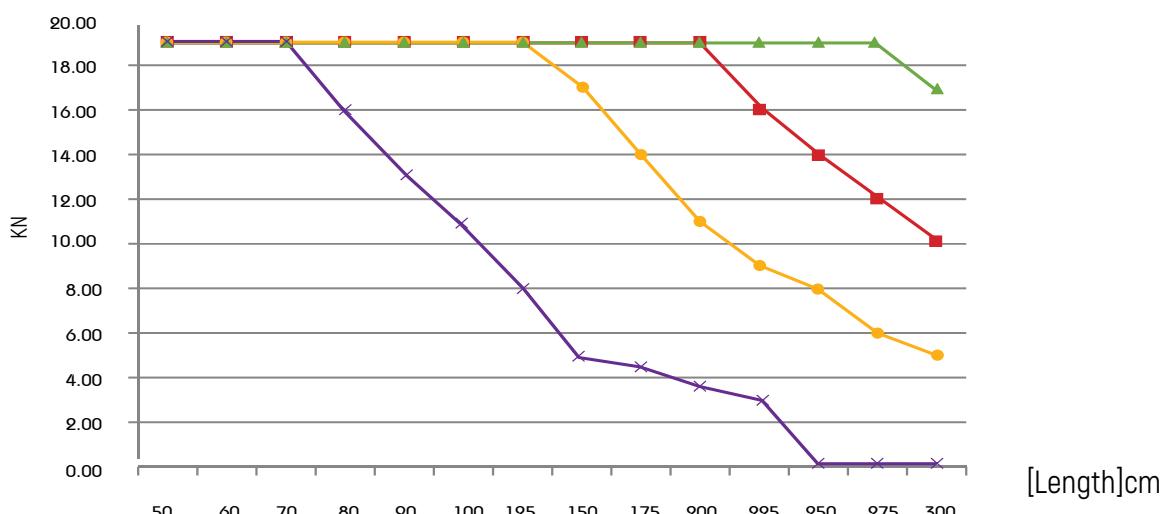


Column Load Data

Span [L] [cm]	Allowable Central Load** [KN]			
	Case A	Case B	Case C	Case D
50	19.00	19.00	19.00	19.00
60	19.00	19.00	19.00	19.00
70	19.00	19.00	19.00	19.00
80	19.00	19.00	19.00	16.00
90	19.00	19.00	19.00	13.00
100	19.00	19.00	19.00	11.00
125	19.00	19.00	19.00	8.00
150	17.00	19.00	19.00	5.00
175	14.00	19.00	19.00	4.50
200	11.00	19.00	19.00	3.60
225	9.00	16.00	19.00	2.90
250	8.00	14.00	19.00	x
275	6.00	12.00	19.00	x
300	5.00	10.00	17.00	x



**Allowable Central Load



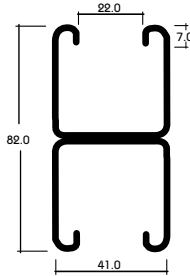
** Given loads are always "allowable characteristic live load"

CCH-42

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

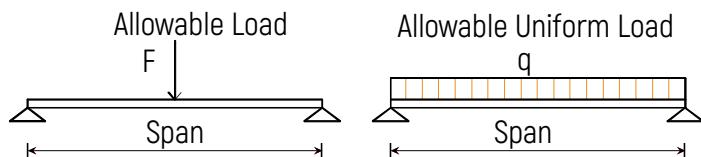


C-Channel: 41x41x2.5 b2b

Area of Shear (A_z)	2.37	cm ²
Moment of Inertia (I_y)	34.08	cm ⁴
Moment of Inertia (I_z)	17.56	cm ⁴
min. Section Modulus (S_y)	8.31	cm ³
Warping Constant (I_w)	140.95	cm ⁶
Torsional Constant (I_t)	0.16	cm ⁴
Plastic Moment cap. (M_{ply})	2.51	kNm
Self weight (G)	4.70	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



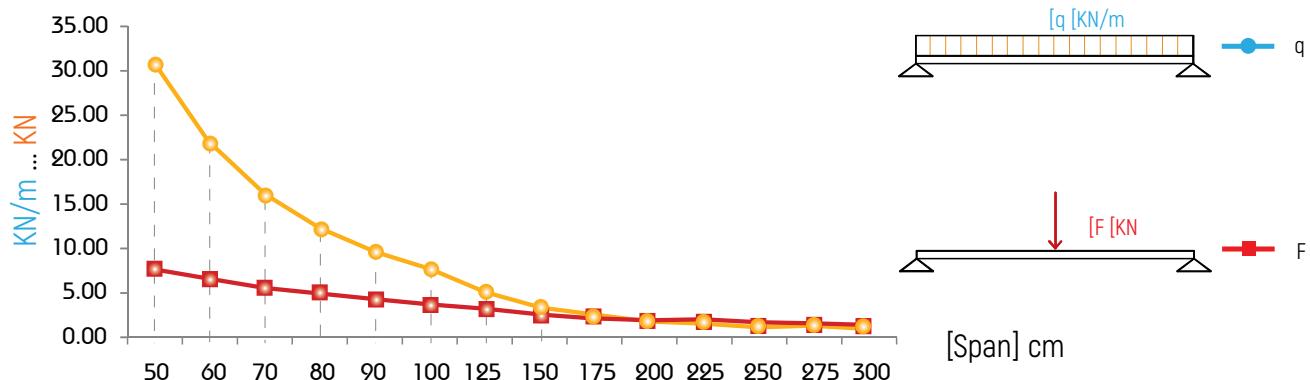
Span [L] [cm]	Allowable Load*		Deflection			Uniform Load* @	
	q [kN/m]	F [kN]	U [mm]	[L / X]	q [kN/m]	q [kN/m]	
50	30.90	7.70	0.44	1.140	30.90	30.90	
60	21.50	6.50	0.63	950	21.50	21.50	
70	15.80	5.50	0.86	810	15.80	15.80	
80	12.10	4.80	1.13	710	12.10	12.10	
90	9.60	4.30	1.43	630	9.60	9.60	
100	7.70	3.90	1.75	570	7.70	7.70	
125	5.00	3.10	2.78	450	5.00	5.00	
150	3.40	2.60	3.91	380	3.40	3.40	
175	2.50	2.20	5.33	330	2.30	2.50	
200	1.90	1.90	6.91	290	1.50	1.90	
225	1.50	1.70	8.74	260	1.10	1.50	
250	1.20	1.50	10.66	230	0.80	1.20	
275	1.00	1.40	13.01	210	0.60	1.00	
300	0.77	1.20	14.18	210	0.50	0.80	

* Given loads are always "allowable characteristic live load"

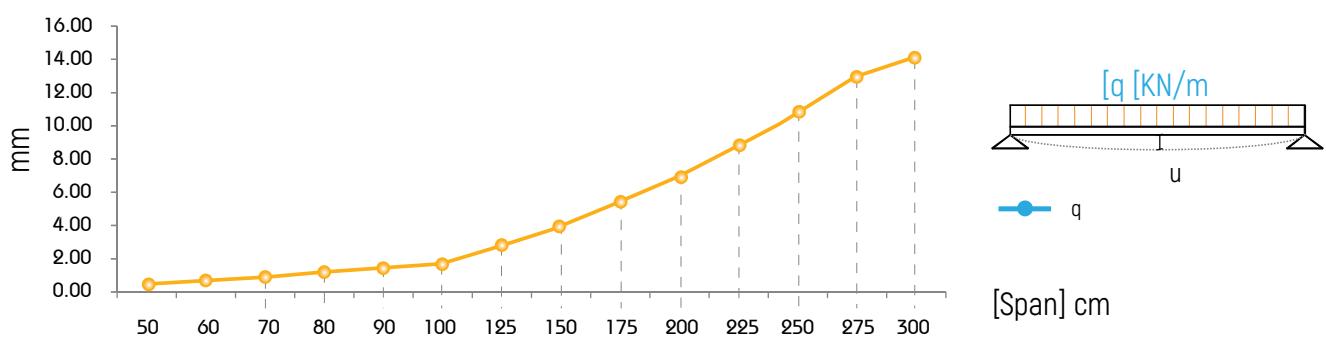
BEAM LOADING GRAPH

CCH-442

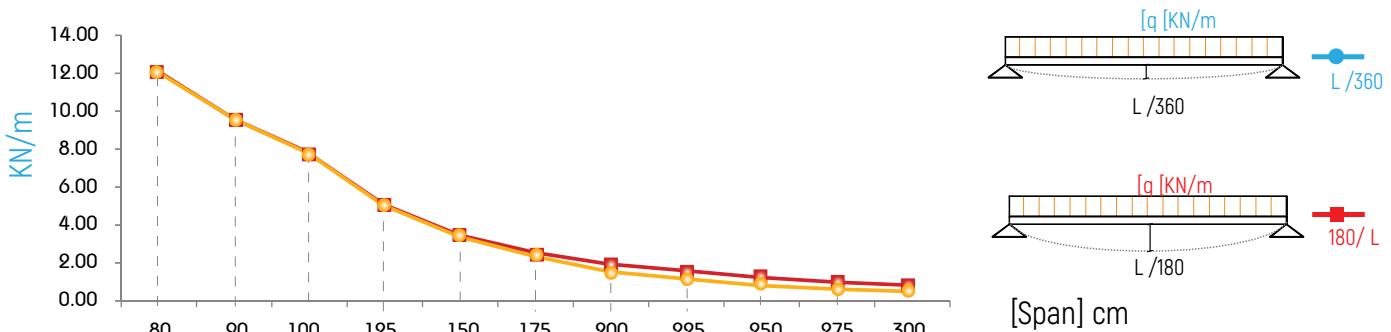
Allowable Loads



Deflection @ Allowable Uniform Load



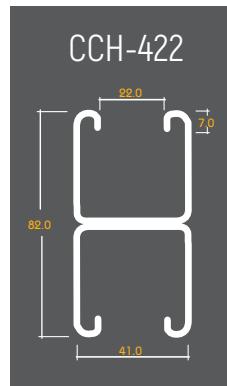
Uniform Load @ Allowable Deflection



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

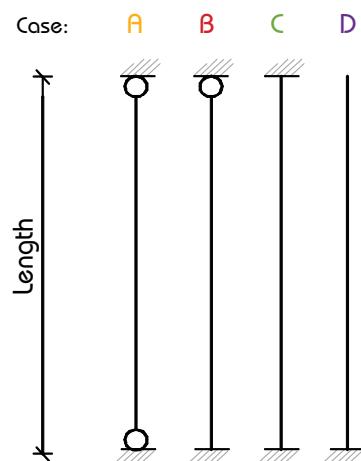
This associated data are considered for perforated and non-perforated c-channel types according to DIN 18.800

C-Channel:	41 x 41 x 2.5 b2b	
Cross Section Area (A)	5.99	cm ²
Moment of Inertia (I_y)	34.08	cm ⁴
Moment of Inertia (I_z)	17.56	cm ⁴
Self weight (G)	4.70	kg/m

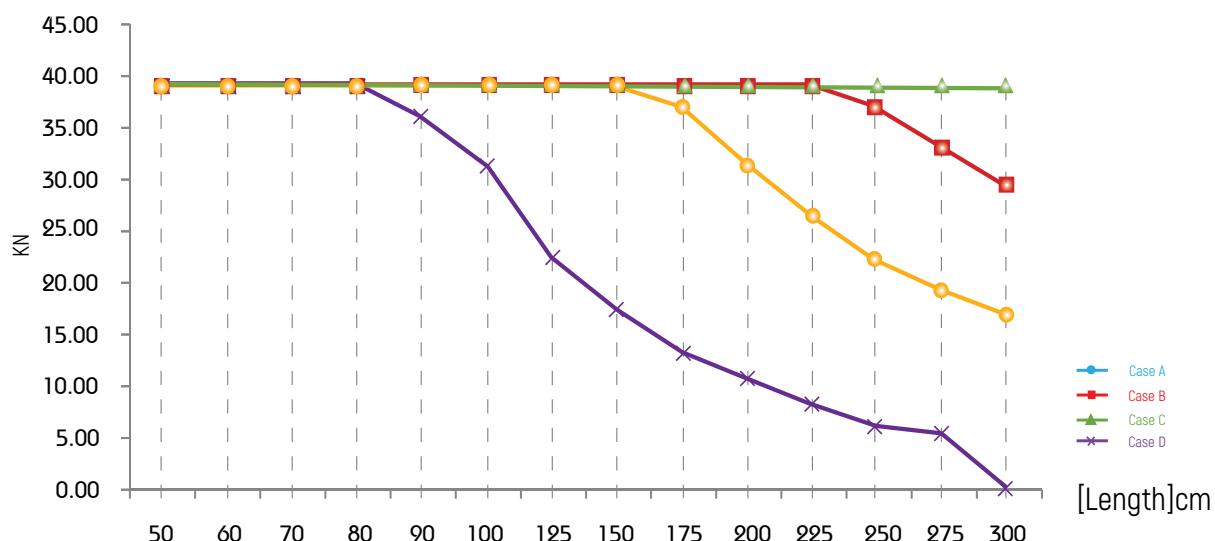


Column Load Data

Span [L] [cm]	Allowable Central Load** [KN]			
	Case A	Case B	Case C	Case D
50	39.00	39.00	39.00	39.00
60	39.00	39.00	39.00	39.00
70	39.00	39.00	39.00	39.00
80	39.00	39.00	39.00	39.00
90	39.00	39.00	39.00	36.00
100	39.00	39.00	39.00	31.00
125	39.00	39.00	39.00	22.00
150	39.00	39.00	39.00	17.00
175	37.00	39.00	39.00	13.00
200	31.00	39.00	39.00	10.00
225	26.00	39.00	39.00	8.00
250	22.00	37.00	39.00	6.00
275	19.00	33.00	39.00	5.00
300	17.00	29.00	39.00	x



**Allowable Central Load



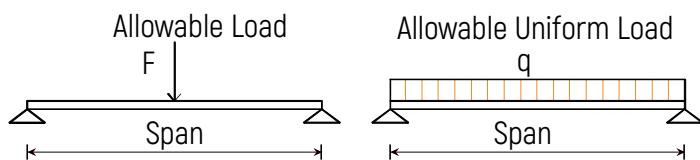
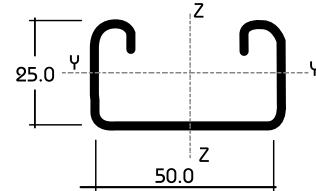
** Given loads are always "allowable characteristic live load"

CCH-460/461

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



C-Channel: 50 x 25 x 2.5

Area of Shear (A_z)	0.83	cm ²
Moment of Inertia (I_y)	1.78	cm ⁴
Moment of Inertia (I_z)	9.46	cm ⁴
min. Section Modulus (S_y)	1.25	cm ³
Warping Constant (I_w)	58.73	cm ⁶
Torsional Constant (I_t)	0.06	cm ⁴
Plastic Moment cap. (M_{ply})	0.41	kNm
Self weight (G)	1.90	kg/m

Chosen Material: 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

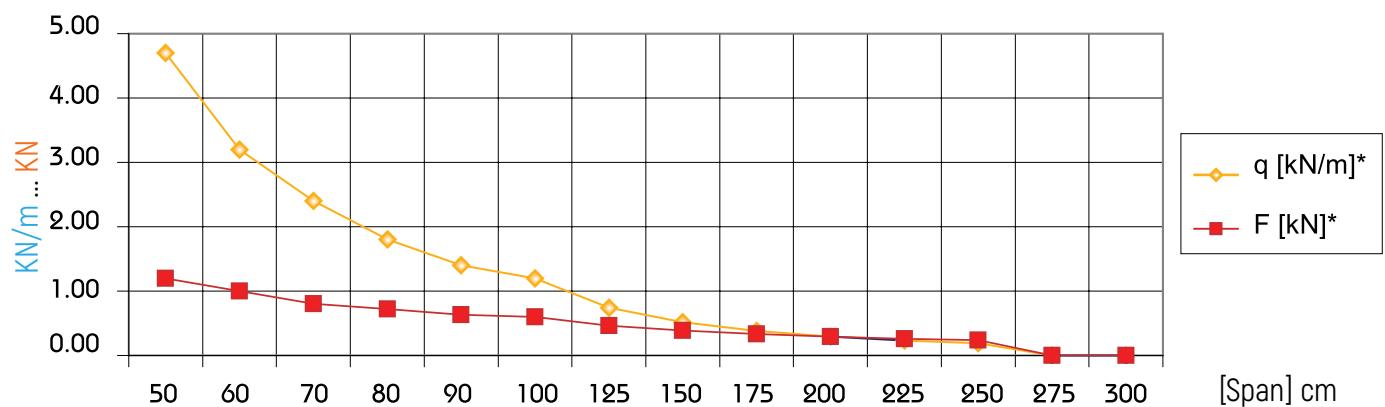
Span (L) [cm]	Allowable Load*		Deflection		Uniform Load* @	
	q [kN/m]	F [kN]	U [mm]	[L/X]	q [kN/m]	q [kN/m]
30	12.90	1.90	0.40	750	12.90	12.90
40	7.30	1.50	0.72	560	7.30	7.30
50	4.70	1.20	1.13	440	4.70	4.70
60	3.20	1.00	1.60	380	3.00	3.20
70	2.40	0.80	2.23	310	1.90	2.40
80	1.80	0.72	2.85	280	1.25	1.82
90	1.40	0.63	3.57	250	0.88	1.44
100	1.20	0.60	4.67	210	0.64	1.16
125	0.74	0.46	7.10	180	0.33	0.65
150	0.52	0.39	10.46	140	0.19	0.38
175	0.38	0.33	14.34	120	x	0.24
200	0.29	0.29	18.94	110	x	x
225	0.23	0.26	24.45	90	x	x
250	0.19	0.24	31.28	80	x	x
275	x	x	x	x	x	x
300	x	x	x	x	x	x

* Given loads are always "allowable characteristic live load"

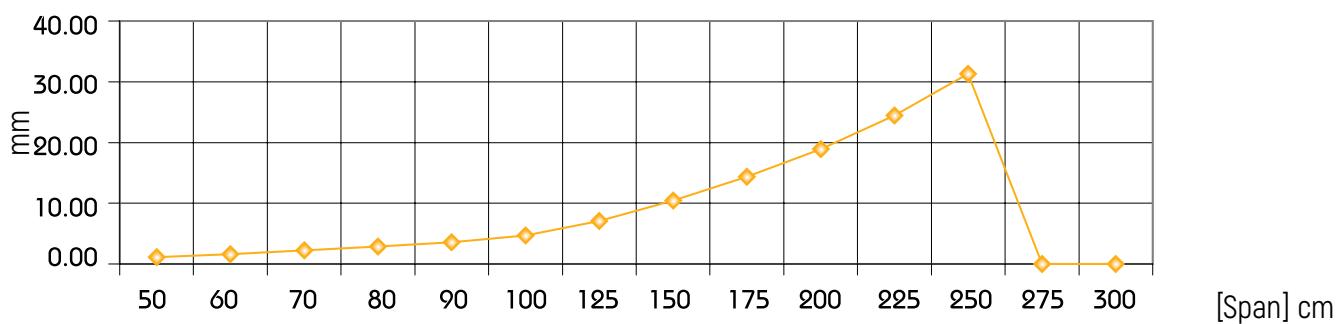
BEAM LOADING GRAPH

CCH-460/461

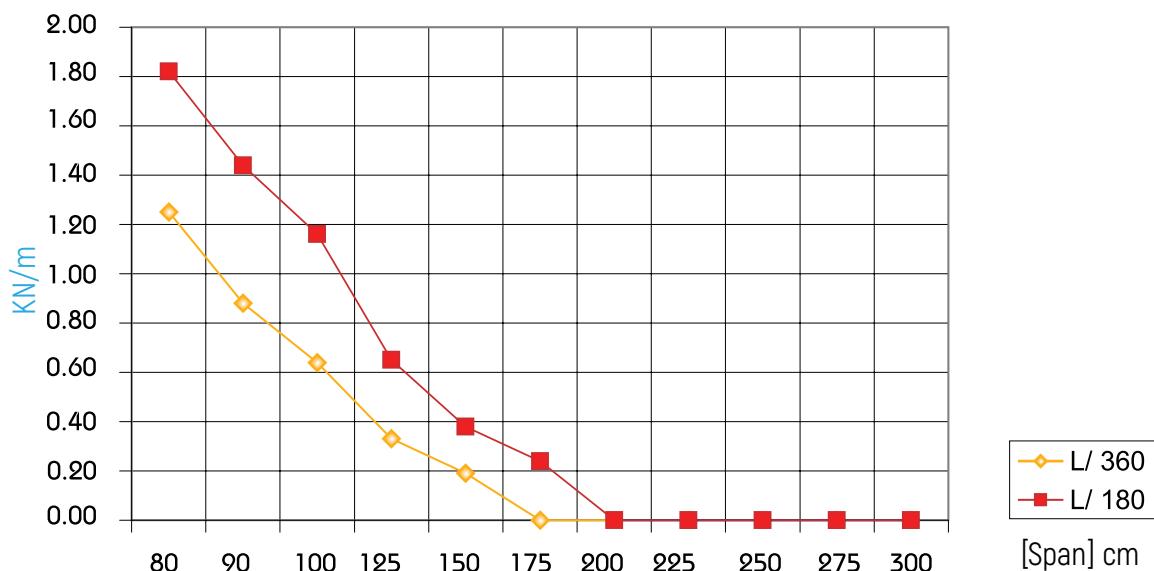
Allowable Loads



Deflection @ Allowable Uniform Load



Uniform Load @ Allowable Deflection

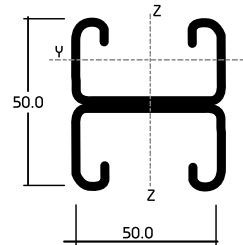


CCH-462

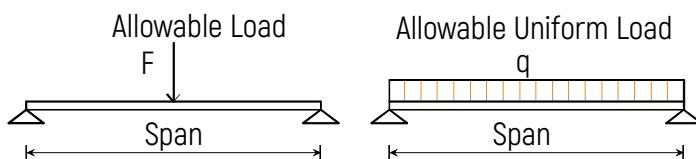
Load table for single beam with uniform (characteristic) Live-Load

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

Thickness	: 2.0 mm
Standard Length	: 3.00 m
Finishes	: Pre-Galvanized, Hot-Dip Galvanized.



C-Channel: 50 x 25 x 2.0 b2b		
Area of Shear (A_z)	1.72	cm ²
Moment of Inertia (I_y)	8.93	cm ⁴
Moment of Inertia (I_z)	18.93	cm ⁴
min. Section Modulus (S_y)	3.57	cm ³
Warping Constant (I_w)	49.43	cm ⁶
Torsional Constant (I_t)	0.11	cm ⁴
Plastic Moment cap. (M_{ply})	1.09	kNm
Self weight (G)	3.70	kg/m



Chosen Material: S 235 JRG2		
Allowable Bending Stress	21.28	kN/cm ²
Allowable Shear Stress	12.60	kN/cm ²
Modulus of Elasticity	21.000	kN/cm ²

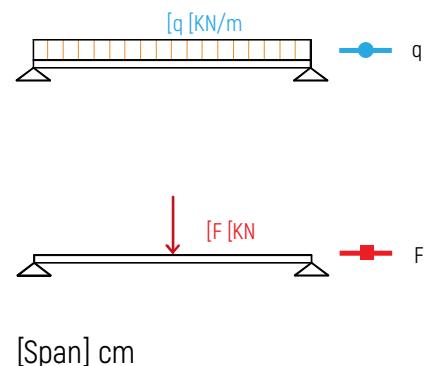
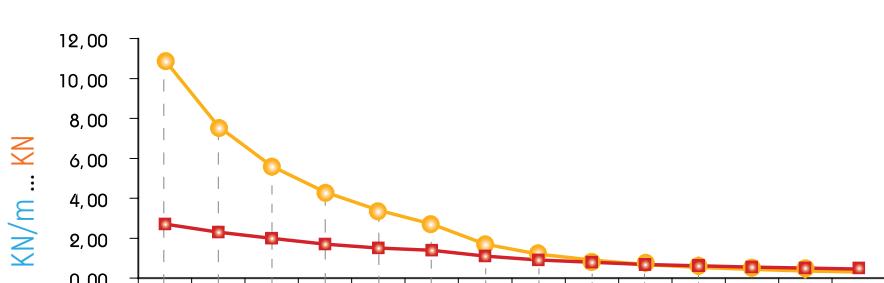
Span [L] [cm]	Uniform Load* @					
	Allowable Load*		Deflection		L / 360	L / 180
	q [kN/m]	F [kN]	U [mm]	[L / X]	q [kN/m]	q [kN/m]
50	13,30	3,30	0,64	790	13,30	13,30
60	9,20	2,80	0,91	660	9,20	9,20
70	6,80	2,40	1,25	560	6,80	6,80
80	5,20	2,10	1,64	490	5,20	5,20
90	4,10	1,80	2,07	430	4,10	4,10
100	3,30	1,70	2,55	390	3,20	3,30
125	2,10	1,30	3,98	310	1,60	2,10
150	1,50	1,10	5,94	250	0,90	1,50
175	1,10	1,00	8,14	210	0,60	1,10
200	0,80	0,80	10,23	200	0,40	0,80
225	0,66	0,74	13,64	160	0,28	0,56
250	0,53	0,66	16,92	150	0,20	0,41
275	0,44	0,61	20,84	130	x	0,31
300	0,37	0,56	25,18	120	x	0,24

* Given loads are always "allowable characteristic live load"

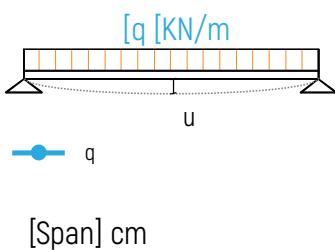
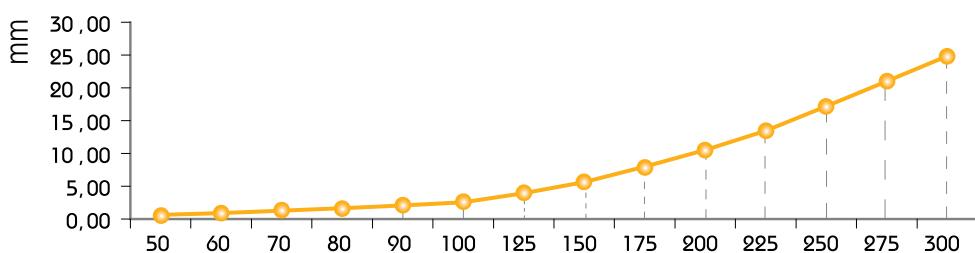
BEAM LOADING GRAPH

CCH-462

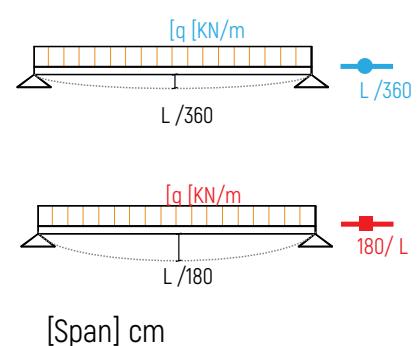
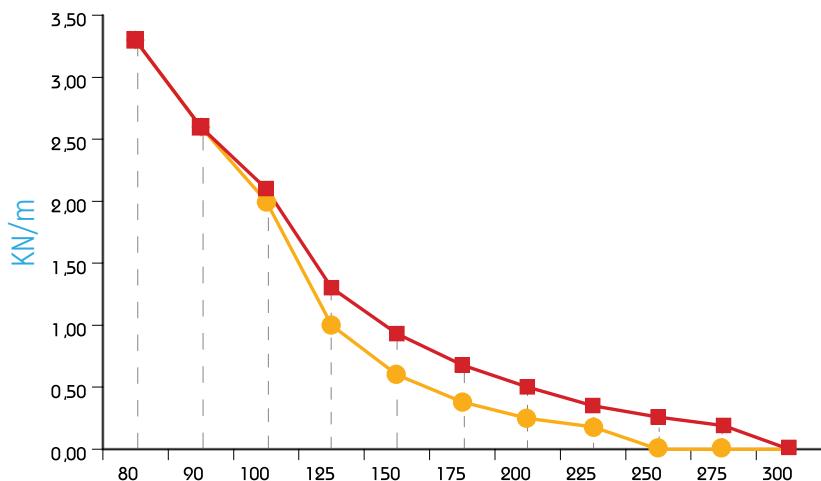
Allowable Loads



Deflection @ Allowable Uniform Load



Uniform Load @ Allowable Deflection



Ordering Codes

Slotted Channel

Codes	Dimensions	Lenght	Thickness	Materials & Finishes
(41x21) mm				
SC42_F_00041008	41 x 21	3000 mm	1.2 mm	Galvanized
SC42_F_00041012	41 x 21	6000 mm	1.2 mm	Galvanized
SC42_F_00041022	41 x 21	3000 mm	1.35 mm	Galvanized
SC42_F_00041026	41 x 21	6000 mm	1.35 mm	Galvanized
SC42_F_00064699	41 x 21	3000 mm	140 mm	Galvanized
SC42_F_00106321	41 x 21	3000 mm	1.50 mm	Galvanized
SC42_F_00041034	41 x 21	6000 mm	1.50 mm	Galvanized
SC42_F_00041058	41 x 21	3000 mm	1.80 mm	Galvanized
SC42_F_00041062	41 x 21	6000 mm	1.80 mm	Galvanized
SC42_F_00105027	41 x 21	3000 mm	2.00 mm	HDG
SC42_F_00064719	41 x 21	3000 mm	2.00 mm	Galvanized
SC42_F_00041094	41 x 21	3000 mm	2.35 mm	Galvanized
SC42_F_00041098	41 x 21	6000 mm	2.35 mm	Galvanized
SC42_F_00054009	41 x 21	3000 mm	2.40 mm	Galvanized
SC42_F_00041102	41 x 21	3000 mm	2.50 mm	Galvanized
SC42_F_00068847	41 x 21	3300 mm	2.50 mm	Galvanized
SC42_F_00068843	41 x 21	4800 mm	2.50 mm	Galvanized
SC42_F_00041106	41 x 21	6000 mm	2.50 mm	Galvanized
SC42_F_00041186	41 x 21	3000 mm	1.20 mm	HDG
SC42_F_00041194	41 x 21	3000 mm	1.35 mm	HDG
SC42_F_00041198	41 x 21	6000 mm	1.35 mm	HDG
SC42_F_00043128	41 x 21	3000 mm	140 mm	HDG
SC42_F_00043124	41 x 21	6000 mm	140 mm	HDG
SC42_F_00065221	41 x 21	3000 mm	1.50 mm	HDG
SC42_F_00049079	41 x 21	3000 mm	1.80 mm	Black Steel
SC42_F_00041244	41 x 21	3000 mm	1.80 mm	HDG
SC42_F_00041268	41 x 21	3000 mm	2.00 mm	HDG
SC42_F_00053489	41 x 21	3000 mm	2.00 mm	Galvanized
SC42_F_00041272	41 x 21	6000 mm	2.00 mm	HDG
SC42_F_00065965	41 x 21	3000 mm	2.30 mm	HDG
SC42_F_00041310	41 x 21	3000 mm	2.50 mm	HDG
SC42_F_00078019	41 x 21	3000 mm	2.50 mm	Galvanized
SC42_F_00074043	41 x 21	3000 mm	2.00 mm	Galvanized
SC42_F_00074007	41 x 21	3000 mm	1.50 mm	Galvanized
SC42_F_00060481	41 x 21	3000 mm	2.00 mm	Galvanized
SC42_F_00041008	41 x 21	3000 mm	1.2 mm	Galvanized
SC42_F_00041012	41 x 21	6000 mm	1.2 mm	Galvanized
SC42_F_00041022	41 x 21	3000 mm	1.35 mm	Galvanized
SC42_F_00041026	41 x 21	6000 mm	1.35 mm	Galvanized
SC42_F_00064699	41 x 21	3000 mm	140 mm	Galvanized
SC42_F_00106321	41 x 21	3000 mm	1.50 mm	Galvanized
SC42_F_00041034	41 x 21	6000 mm	1.50 mm	Galvanized
SC42_F_00041058	41 x 21	3000 mm	1.80 mm	Galvanized
SC42_F_00041062	41 x 21	6000 mm	1.80 mm	Galvanized
SC42_F_00105027	41 x 21	3000 mm	2.00 mm	HDG
SC42_F_00064719	41 x 21	3000 mm	2.00 mm	Galvanized
SC42_F_00041094	41 x 21	3000 mm	2.35 mm	Galvanized
SC42_F_00041098	41 x 21	6000 mm	2.35 mm	Galvanized
SC42_F_00054009	41 x 21	3000 mm	2.40 mm	Galvanized
SC42_F_00041102	41 x 21	3000 mm	2.50 mm	Galvanized
SC42_F_00068847	41 x 21	3300 mm	2.50 mm	Galvanized
SC42_F_00068843	41 x 21	4800 mm	2.50 mm	Galvanized
SC42_F_00041106	41 x 21	6000 mm	2.50 mm	Galvanized
SC42_F_00041186	41 x 21	3000 mm	1.20 mm	HDG
SC42_F_00041194	41 x 21	3000 mm	1.35 mm	HDG
SC42_F_00041198	41 x 21	6000 mm	1.35 mm	HDG
SC42_F_00043128	41 x 21	3000 mm	140 mm	HDG
SC42_F_00043124	41 x 21	6000 mm	140 mm	HDG
SC42_F_00065221	41 x 21	3000 mm	1.50 mm	HDG
SC42_F_00049079	41 x 21	3000 mm	1.80 mm	Black Steel
SC42_F_00041244	41 x 21	3000 mm	1.80 mm	HDG
SC42_F_00041268	41 x 21	3000 mm	2.00 mm	HDG
SC42_F_00053489	41 x 21	3000 mm	2.00 mm	Galvanized
SC42_F_00041272	41 x 21	6000 mm	2.00 mm	HDG
SC42_F_00065965	41 x 21	3000 mm	2.30 mm	HDG
SC42_F_00041310	41 x 21	3000 mm	2.50 mm	HDG
SC42_F_00078019	41 x 21	3000 mm	2.50 mm	Galvanized
SC42_F_00074043	41 x 21	3000 mm	2.00 mm	Galvanized
SC42_F_00074007	41 x 21	3000 mm	1.50 mm	Galvanized
SC42_F_00060481	41 x 21	3000 mm	2.00 mm	Galvanized

HDG : Hot-dip Galvanized

Ordering Codes

Slotted Channel

Codes	Dimensions	Lenght	Thickness	Materials & Finishes					
(41x41) mm									
SC44_F_00040792	41 x 41	6000 mm	1.50 mm	Galvanized	SC44_F_00049555	41 x 41	3000 mm	2.50 mm	Black Steel
SC44_F_00040820	41 x 41	3000 mm	1.80 mm	Galvanized	SC44_F_00077185	41 x 41	3000 mm	2.50 mm	HDG
SC44_F_00040824	41 x 41	6000 mm	1.80 mm	Galvanized	SC44_F_00040980	41 x 41	6000 mm	2.50 mm	HDG
SC44_F_00040852	41 x 41	3000 mm	2.00 mm	Galvanized	SC44_F_00063965	41 x 41	6000 mm	2.50 mm	Galvanized
SC44_F_00087313	41 x 41	6000 mm	2.00 mm	Galvanized	SC44_F_00064225	41 x 41	3000 mm	2.70 mm	HDG
SC44_F_00040884	41 x 41	3000 mm	2.35 mm	Galvanized	SC44_F_00064317	41 x 41	3000 mm	2.70 mm	Galvanized
SC44_F_00040896	41 x 41	6000 mm	2.35 mm	Galvanized	SC44_F_00049429	41 x 41	6000 mm	2.70 mm	HDG
SC44_F_00056519	41 x 41	3000 mm	240 mm	Galvanized	SC44_F_00055585	41 x 41	3000 mm	2.00 mm	Galvanized
SC44_F_00040940	41 x 41	3000 mm	2.50 mm	Galvanized	SC44_F_00055573	41 x 41	6000 mm	2.50 mm	Galvanized
SC44_F_00040952	41 x 41	6000 mm	2.50 mm	Galvanized	SC44_F_00059597	41 x 41	3000 mm	1.50 mm	Galvanized
SC44_F_00040744	41 x 41	3000 mm	1.20 mm	HDG	SC44_F_00059341	41 x 41	3000 mm	2.00 mm	Galvanized
SC44_F_00040764	41 x 41	3000 mm	1.35 mm	HDG	SC44_F_00048314	41 x 41	3000 mm	2.50 mm	Galvanized
SC44_F_00040768	41 x 41	6000 mm	1.35 mm	HDG	SC44_F_00049555	41 x 41	3000 mm	2.50 mm	Black Steel
SC44_F_00043092	41 x 41	3000 mm	1.40 mm	HDG	SC44_F_00077185	41 x 41	3000 mm	2.50 mm	HDG
SC44_F_00043096	41 x 41	6000 mm	1.40 mm	HDG	SC44_F_00040980	41 x 41	6000 mm	2.50 mm	HDG
SC44_F_00049537	41 x 41	3000 mm	1.50 mm	Black Steel	SC44_F_00063965	41 x 41	6000 mm	2.50 mm	Galvanized
SC44_F_00040796	41 x 41	3000 mm	1.50 mm	HDG	SC44_F_00064225	41 x 41	3000 mm	2.70 mm	HDG
SC44_F_00040800	41 x 41	6000 mm	1.50 mm	HDG	SC44_F_00064317	41 x 41	3000 mm	2.70 mm	Galvanized
SC44_F_00049089	41 x 41	3000 mm	1.80 mm	Black Steel	SC44_F_00049429	41 x 41	6000 mm	2.70 mm	HDG
SC44_F_00043076	41 x 41	3000 mm	1.80 mm	HDG	SC44_F_00055585	41 x 41	3000 mm	2.00 mm	Galvanized
SC44_F_00049551	41 x 41	3000 mm	2.00 mm	Black Steel	SC44_F_00055573	41 x 41	6000 mm	2.50 mm	Galvanized
SC44_F_00040860	41 x 41	3000 mm	2.00 mm	HDG	SC44_F_00059597	41 x 41	3000 mm	1.50 mm	Galvanized
SC44_F_00084503	41 x 41	3000 mm	2.00 mm	Galvanized	SC44_F_00059341	41 x 41	3000 mm	2.00 mm	Galvanized
SC44_F_00053757	41 x 41	3050 mm	2.00 mm	Galvanized	SC44_F_00048314	41 x 41	3000 mm	2.50 mm	Galvanized
SC44_F_00053761	41 x 41	3150 mm	2.00 mm	Galvanized					
SC44_F_00076625	41 x 41	3250 mm	2.00 mm	Galvanized					
SC44_F_00053765	41 x 41	3300 mm	2.00 mm	Galvanized					
SC44_F_00083681	41 x 41	3350 mm	2.00 mm	Galvanized					
SC44_F_00049569	41 x 41	3080 mm	2.00 mm	HDG					
SC44_F_00045946	41 x 41	3050 mm	2.00 mm	HDG					
SC44_F_00053773	41 x 41	3600 mm	2.00 mm	HDG					
SC44_F_00095227	41 x 41	3650 mm	2.00 mm	HDG					
SC44_F_00059639	41 x 41	3750 mm	2.00 mm	HDG					
SC44_F_00095219	41 x 41	3800 mm	2.00 mm	HDG					
SC44_F_00076607	41 x 41	3800 mm	2.00 mm	Galvanized					
SC44_F_00085655	41 x 41	3000 mm	2.30 mm	Galvanized					
SC44_F_00094751	41 x 41	3000 mm	2.35 mm	HDG					
SC44_F_00049047	41 x 41	6000 mm	2.35 mm	Black Steel					
SC44_F_00040904	41 x 41	6000 mm	2.35 mm	HDG					
SC44_F_00071295	41 x 41	6000 mm	2.35 mm	Galvanized					
SC44_F_00081063	41 x 41	3000 mm	240 mm	HDG					
SC44_F_00100989	41 x 41	6000 mm	240 mm	HDG					

Ordering Codes

Slotted Channel

Codes	Dimensions	Lenght	Thickness	Materials & Finishes
(50x20) mm				
SCUC_F_00268249	50x20	3000 mm	1.2 mm	Galvanized
SCUC_F_00268255	50x20	6000 mm	1.2 mm	Galvanized
SCUC_F_00268267	50x20	3000 mm	1.35 mm	Galvanized
SCUC_F_00268261	50x20	6000 mm	1.35 mm	Galvanized
SCUC_F_00268273	50x20	3000 mm	1.40 mm	Galvanized
SCUC_F_00268279	50x20	3000 mm	1.50 mm	Galvanized
SCUC_F_00268285	50x20	6000 mm	1.50 mm	Galvanized
SCUC_F_00268291	50x20	3000 mm	1.80 mm	Galvanized
SCUC_F_00268297	50x20	6000 mm	1.80 mm	Galvanized
SCUC_F_00268303	50x20	3000 mm	2.00 mm	HDG
SCUC_F_00268309	50x20	3000 mm	2.00 mm	Galvanized
SCUC_F_00268315	50x20	3000 mm	2.35 mm	Galvanized
SCUC_F_00268321	50x20	6000 mm	2.35 mm	Galvanized
SCUC_F_00268327	50x20	3000 mm	2.40 mm	Galvanized
SCUC_F_00268333	50x20	3000 mm	2.50 mm	Galvanized
SCUC_F_00268339	50x20	3300 mm	2.50 mm	Galvanized
SCUC_F_00268345	50x20	4800 mm	2.50 mm	Galvanized
SCUC_F_00268351	50x20	6000 mm	2.50 mm	Galvanized
SCUC_F_00268909	50x20	3000 mm	1.20 mm	HDG
n/a	50x20	3000 mm	1.35 mm	HDG
n/a	50x20	6000 mm	1.35 mm	HDG
SCUC_F_00268915	50x20	3000 mm	1.40 mm	HDG
SCUC_F_00268921	50x20	6000 mm	1.40 mm	HDG
SCUC_F_00268927	50x20	3000 mm	1.50 mm	HDG
SCUC_F_00268933	50x20	3000 mm	1.80 mm	Black Steel
SCUC_F_00268939	50x20	3000 mm	1.80 mm	HDG
SCUC_F_00268945	50x20	3000 mm	2.00 mm	HDG
SCUC_F_00268309	50x20	3000 mm	2.00 mm	Galvanized
SCUC_F_00268957	50x20	6000 mm	2.00 mm	HDG
SCUC_F_00268963	50x20	3000 mm	2.30 mm	HDG
SCUC_F_00268969	50x20	3000 mm	2.50 mm	HDG
SCUC_F_00268333	50x20	3000 mm	2.50 mm	Galvanized
SCUC_F_00268309	50x20	3000 mm	2.00 mm	Galvanized
SCUC_F_00268279	50x20	3000 mm	1.50 mm	Galvanized
SCUC_F_00268309	50x20	3000 mm	2.00 mm	Galvanized

HDG : Hot Dip Galvanized

Ordering Codes

Slotted Channel

Codes	Dimensions	Lenght	Thickness	Materials & Finishes
(50x25) mm				
SCUC_F_00268975	50x25	3000 mm	1.2 mm	Galvanized
SCUC_F_00268981	50x25	6000 mm	1.2 mm	Galvanized
SCUC_F_00270347	50x25	3000 mm	1.35 mm	Galvanized
SCUC_F_00270353	50x25	6000 mm	1.35 mm	Galvanized
SCUC_F_00268987	50x25	3000 mm	1.40 mm	Galvanized
SCUC_F_00268993	50x25	3000 mm	1.50 mm	Galvanized
SCUC_F_00268999	50x25	6000 mm	1.50 mm	Galvanized
SCUC_F_00269005	50x25	3000 mm	1.80 mm	Galvanized
SCUC_F_00269011	50x25	6000 mm	1.80 mm	Galvanized
SCUC_F_00269017	50x25	3000 mm	2.00 mm	HDG
SCUC_F_00269023	50x25	3000 mm	2.00 mm	Galvanized
SCUC_F_00269037	50x25	3000 mm	2.35 mm	Galvanized
SCUC_F_00269043	50x25	6000 mm	2.35 mm	Galvanized
SCUC_F_00269049	50x25	3000 mm	2.40 mm	Galvanized
SCUC_F_00269055	50x25	3000 mm	2.50 mm	Galvanized
SCUC_F_00269061	50x25	3300 mm	2.50 mm	Galvanized
SCUC_F_00269067	50x25	4800 mm	2.50 mm	Galvanized
SCUC_F_00269079	50x25	6000 mm	2.50 mm	Galvanized
SCUC_F_00269093	50x25	3000 mm	1.20 mm	HDG
n/a	50x25	3000 mm	1.35 mm	HDG
n/a	50x25	6000 mm	1.35 mm	HDG
SCUC_F_00269099	50x25	3000 mm	140 mm	HDG
SCUC_F_00269105	50x25	6000 mm	140 mm	HDG
SCUC_F_00269111	50x25	3000 mm	1.50 mm	HDG
SCUC_F_00269117	50x25	3000 mm	1.80 mm	Black Steel
SCUC_F_00269123	50x25	3000 mm	1.80 mm	HDG
SCUC_F_00269017	50x25	3000 mm	2.00 mm	HDG
SCUC_F_00269023	50x25	3000 mm	2.00 mm	Galvanized
SCUC_F_00269129	50x25	6000 mm	2.00 mm	HDG
SCUC_F_00269135	50x25	3000 mm	2.30 mm	HDG
SCUC_F_00269141	50x25	3000 mm	2.50 mm	HDG
SCUC_F_00269055	50x25	3000 mm	2.50 mm	Galvanized
SCUC_F_00269023	50x25	3000 mm	2.00 mm	Galvanized
SCUC_F_00268993	50x25	3000 mm	1.50 mm	Galvanized
SCUC_F_00269023	50x25	3000 mm	2.00 mm	Galvanized

HDG : Hot-dip Galvanized

Ordering Codes

Plain Channel

Codes	Dimensions	Lenght	Thickness	Materials & Finishes
(41x21) mm				
SC42_F_0004110	41 x 21	3000 mm	1.20 mm	Galvanized
SC42_F_0004114	41 x 21	6000 mm	1.20 mm	Galvanized
SC42_F_0004118	41 x 21	3000 mm	1.35 mm	Galvanized
SC42_F_0004122	41 x 21	6000 mm	1.35 mm	Galvanized
SC42_F_00043148	41 x 21	3000 mm	1.40 mm	Galvanized
SC42_F_00043152	41 x 21	6000 mm	1.40 mm	Galvanized
SC42_F_00041126	41 x 21	3000 mm	1.50 mm	Galvanized
SC42_F_00041130	41 x 21	6000 mm	1.50 mm	Galvanized
SC42_F_00041154	41 x 21	3000 mm	1.80 mm	Galvanized
SC42_F_00041158	41 x 21	6000 mm	1.80 mm	Galvanized
SC42_F_00041162	41 x 21	3000 mm	2.00 mm	Galvanized
SC42_F_00041166	41 x 21	6000 mm	2.00 mm	Galvanized
SC42_F_00041170	41 x 21	3000 mm	2.35 mm	Galvanized
SC42_F_00041174	41 x 21	6000 mm	2.35 mm	Galvanized
SC42_F_00041178	41 x 21	3000 mm	2.50 mm	Galvanized
SC42_F_00041182	41 x 21	6000 mm	2.50 mm	Galvanized
SC42_F_00041190	41 x 21	3000 mm	1.20 mm	HDG
SC42_F_00041212	41 x 21	3000 mm	1.35 mm	HDG
SC42_F_00041216	41 x 21	6000 mm	1.35 mm	HDG
SC42_F_00043132	41 x 21	3000 mm	140 mm	HDG
SC42_F_00043116	41 x 21	6000 mm	140 mm	HDG
SC42_F_00041228	41 x 21	3000 mm	1.50 mm	HDG
SC42_F_00041238	41 x 21	6000 mm	1.50 mm	HDG
SC42_F_00041252	41 x 21	3000 mm	1.80 mm	HDG
SC42_F_00041264	41 x 21	6000 mm	1.80 mm	HDG
SC42_F_00041278	41 x 21	3000 mm	2.00 mm	HDG
SC42_F_00067931	41 x 21	3000 mm	2.00 mm	Galvanized
SC42_F_00041282	41 x 21	6000 mm	2.00 mm	HDG
SC42_F_00048938	41 x 21	6000 mm	2.00 mm	Galvanized
SC42_F_00041294	41 x 21	3000 mm	2.35 mm	HDG
SC42_F_00074871	41 x 21	3000 mm	2.35 mm	Galvanized
SC42_F_00041298	41 x 21	6000 mm	2.35 mm	HDG
SC42_F_00041318	41 x 21	3000 mm	2.50 mm	HDG
SC42_F_00067761	41 x 21	5000 mm	2.50 mm	Galvanized
SC42_F_00041322	41 x 21	6000 mm	2.50 mm	HDG

HDG : Hot-dip Galvanized

Ordering Codes

Plain Channel

Codes	Dimensions	Lenght	Thickness	Materials & Finishes
(41x41) mm				
SC42_F_00041110	41 x 41	3000 mm	1.20 mm	Galvanized
SC42_F_00041114	41 x 41	6000 mm	1.20 mm	Galvanized
SC42_F_00041118	41 x 41	3000 mm	1.35 mm	Galvanized
SC42_F_00041122	41 x 41	6000 mm	1.35 mm	Galvanized
SC42_F_00043148	41 x 41	3000 mm	1.40 mm	Galvanized
SC42_F_00043152	41 x 41	6000 mm	1.40 mm	Galvanized
SC42_F_00041126	41 x 41	3000 mm	1.50 mm	Galvanized
SC42_F_00041130	41 x 41	6000 mm	1.50 mm	Galvanized
SC42_F_00041154	41 x 41	3000 mm	1.80 mm	Galvanized
SC42_F_00041158	41 x 41	6000 mm	1.80 mm	Galvanized
SC42_F_00041162	41 x 41	3000 mm	2.00 mm	Galvanized
SC42_F_00041166	41 x 41	6000 mm	2.00 mm	Galvanized
SC42_F_00041170	41 x 41	3000 mm	2.35 mm	Galvanized
SC42_F_00041174	41 x 41	6000 mm	2.35 mm	Galvanized
SC42_F_00041178	41 x 41	3000 mm	2.50 mm	Galvanized
SC42_F_00041182	41 x 41	6000 mm	2.50 mm	Galvanized
SC42_F_00041190	41 x 41	3000 mm	1.20 mm	HDG
SC42_F_00041212	41 x 41	3000 mm	1.35 mm	HDG
SC42_F_00041216	41 x 41	6000 mm	1.35 mm	HDG
SC42_F_00043132	41 x 41	3000 mm	140 mm	HDG
SC42_F_00043116	41 x 41	6000 mm	140 mm	HDG
SC42_F_00041228	41 x 41	3000 mm	1.50 mm	HDG
SC42_F_00041238	41 x 41	6000 mm	1.50 mm	HDG
SC42_F_00041252	41 x 41	3000 mm	1.80 mm	HDG
SC42_F_00041264	41 x 41	6000 mm	1.80 mm	HDG
SC42_F_00041278	41 x 41	3000 mm	2.00 mm	HDG
SC42_F_00067931	41 x 41	3000 mm	2.00 mm	Galvanized
SC42_F_00041282	41 x 41	6000 mm	2.00 mm	HDG
SC42_F_00048938	41 x 41	6000 mm	2.00 mm	Galvanized
SC42_F_00041294	41 x 41	3000 mm	2.35 mm	HDG
SC42_F_00074871	41 x 41	3000 mm	2.35 mm	Galvanized
SC42_F_00041298	41 x 41	6000 mm	2.35 mm	HDG
SC42_F_00041318	41 x 41	3000 mm	2.50 mm	HDG
SC42_F_00067761	41 x 41	5000 mm	2.50 mm	Galvanized
SC42_F_00041322	41 x 41	6000 mm	2.50 mm	HDG

HDG : Hot-dip Galvanized

Ordering Codes

Plain Channel

Codes	Dimensions	Lenght	Thickness	Materials & Finishes
(50x20) mm				
SCUC_F_00269147	50x20	3000 mm	1.20 mm	Galvanized
SCUC_F_00269153	50x20	6000 mm	1.20 mm	Galvanized
SCUC_F_00270359	50x20	3000 mm	1.35 mm	Galvanized
SCUC_F_00270365	50x20	6000 mm	1.35 mm	Galvanized
SCUC_F_00269159	50x20	3000 mm	1.40 mm	Galvanized
SCUC_F_00269165	50x20	6000 mm	1.40 mm	Galvanized
SCUC_F_00269171	50x20	3000 mm	1.50 mm	Galvanized
SCUC_F_00269177	50x20	6000 mm	1.50 mm	Galvanized
SCUC_F_00269183	50x20	3000 mm	1.80 mm	Galvanized
SCUC_F_00269189	50x20	6000 mm	1.80 mm	Galvanized
SCUC_F_00269195	50x20	3000 mm	2.00 mm	Galvanized
SCUC_F_00269201	50x20	6000 mm	2.00 mm	Galvanized
SCUC_F_00269207	50x20	3000 mm	2.35 mm	Galvanized
SCUC_F_00269213	50x20	6000 mm	2.35 mm	Galvanized
SCUC_F_00269219	50x20	3000 mm	2.50 mm	Galvanized
SCUC_F_00269225	50x20	6000 mm	2.50 mm	Galvanized
SCUC_F_00269231	50x20	3000 mm	1.20 mm	HDG
n/a	50x20	3000 mm	1.35 mm	HDG
n/a	50x20	6000 mm	1.35 mm	HDG
SCUC_F_00269237	50x20	3000 mm	140 mm	HDG
SCUC_F_00269243	50x20	6000 mm	140 mm	HDG
SCUC_F_00269249	50x20	3000 mm	1.50 mm	HDG
SCUC_F_00269255	50x20	6000 mm	1.50 mm	HDG
SCUC_F_00269261	50x20	3000 mm	1.80 mm	HDG
SCUC_F_00269267	50x20	6000 mm	1.80 mm	HDG
SCUC_F_00269273	50x20	3000 mm	2.00 mm	HDG
SCUC_F_00269195	50x20	3000 mm	2.00 mm	Galvanized
SCUC_F_00269279	50x20	6000 mm	2.00 mm	HDG
SCUC_F_00269201	50x20	6000 mm	2.00 mm	Galvanized
SCUC_F_00269285	50x20	3000 mm	2.35 mm	HDG
SCUC_F_00269207	50x20	3000 mm	2.35 mm	Galvanized
SCUC_F_00269291	50x20	6000 mm	2.35 mm	HDG
SCUC_F_00269297	50x20	3000 mm	2.50 mm	HDG
SCUC_F_00269303	50x20	5000 mm	2.50 mm	Galvanized
SCUC_F_00269309	50x20	6000 mm	2.50 mm	HDG

HDG : Hot-dip Galvanized

Ordering Codes

Plain Channel

Codes	Dimensions	Lenght	Thickness	Materials & Finishes
(50x25) mm				
SCUC_F_00269327	50x25	3000 mm	1.20 mm	Galvanized
SCUC_F_00269333	50x25	6000 mm	1.20 mm	Galvanized
SCUC_F_00270371	50x25	3000 mm	1.35 mm	Galvanized
SCUC_F_00270377	50x25	6000 mm	1.35 mm	Galvanized
SCUC_F_00269339	50x25	3000 mm	1.40 mm	Galvanized
SCUC_F_00269345	50x25	6000 mm	1.40 mm	Galvanized
SCUC_F_00269351	50x25	3000 mm	1.50 mm	Galvanized
SCUC_F_00269357	50x25	6000 mm	1.50 mm	Galvanized
SCUC_F_00269363	50x25	3000 mm	1.80 mm	Galvanized
SCUC_F_00269369	50x25	6000 mm	1.80 mm	Galvanized
SCUC_F_00269375	50x25	3000 mm	2.00 mm	Galvanized
SCUC_F_00269381	50x25	6000 mm	2.00 mm	Galvanized
SCUC_F_00269387	50x25	3000 mm	2.35 mm	Galvanized
SCUC_F_00269393	50x25	6000 mm	2.35 mm	Galvanized
SCUC_F_00269399	50x25	3000 mm	2.50 mm	Galvanized
SCUC_F_00269405	50x25	6000 mm	2.50 mm	Galvanized
SCUC_F_00269411	50x25	3000 mm	1.20 mm	HDG
n/a	50x25	3000 mm	1.35 mm	HDG
n/a	50x25	6000 mm	1.35 mm	HDG
SCUC_F_00269417	50x25	3000 mm	1.40 mm	HDG
SCUC_F_00269423	50x25	6000 mm	1.40 mm	HDG
SCUC_F_00269429	50x25	3000 mm	1.50 mm	HDG
SCUC_F_00269435	50x25	6000 mm	1.50 mm	HDG
SCUC_F_00269441	50x25	3000 mm	1.80 mm	HDG
SCUC_F_00269447	50x25	6000 mm	1.80 mm	HDG
SCUC_F_00269453	50x25	3000 mm	2.00 mm	HDG
SCUC_F_00269375	50x25	3000 mm	2.00 mm	Galvanized
SCUC_F_00269459	50x25	6000 mm	2.00 mm	HDG
SCUC_F_00269381	50x25	6000 mm	2.00 mm	Galvanized
SCUC_F_00269465	50x25	3000 mm	2.35 mm	HDG
SCUC_F_00269387	50x25	3000 mm	2.35 mm	Galvanized
SCUC_F_00269471	50x25	6000 mm	2.35 mm	HDG
SCUC_F_00269477	50x25	3000 mm	2.50 mm	HDG
SCUC_F_00269483	50x25	5000 mm	2.50 mm	Galvanized
SCUC_F_00269489	50x25	6000 mm	2.50 mm	HDG

HDG : Hot-dip Galvanized

Ordering Codes

B2B Slotted Channel

Codes	Dimensions	Lenght	Thickness	Materials & Finishes
(41x41) mm				
GNA_F_00064403	41 x 41	3000 mm	2.70 mm	HDG
GNA_F_00064415	41 x 41	3100 mm	2.70 mm	HDG
GNA_F_00064431	41 x 41	3170 mm	2.70 mm	HDG
GNA_F_00064435	41 x 41	3200 mm	2.70 mm	HDG
GNA_F_00064443	41 x 41	3450 mm	2.70 mm	HDG
GNA_F_00064395	41 x 41	3600 mm	2.70 mm	HDG
GNA_F_00064439	41 x 41	4200 mm	2.70 mm	HDG
GNA_F_00078023	41 x 42	3000 mm	2.50 mm	HDG

HDG : Hot-dip Galvanized

Codes	Dimensions	Lenght	Thickness	Materials & Finishes
(50x20) mm				
GNA_F_00270111	50x20	3000 mm	2.70 mm	HDG
GNA_F_00270115	50x20	3100 mm	2.70 mm	HDG
GNA_F_00270119	50x20	3170 mm	2.70 mm	HDG
GNA_F_00270123	50x20	3200 mm	2.70 mm	HDG
GNA_F_00270127	50x20	3450 mm	2.70 mm	HDG
GNA_F_00270131	50x20	3600 mm	2.70 mm	HDG
GNA_F_00270135	50x20	4200 mm	2.70 mm	HDG
GNA_F_00252131	50x20	3000 mm	2.50 mm	HDG

HDG : Hot-dip Galvanized

Codes	Dimensions	Lenght	Thickness	Materials & Finishes
(50x25) mm				
GNA_F_00270139	50x25	3000 mm	2.70 mm	HDG
GNA_F_00270143	50x25	3100 mm	2.70 mm	HDG
GNA_F_00270147	50x25	3170 mm	2.70 mm	HDG
GNA_F_00270151	50x25	3200 mm	2.70 mm	HDG
GNA_F_00270155	50x25	3450 mm	2.70 mm	HDG
GNA_F_00270159	50x25	3600 mm	2.70 mm	HDG
GNA_F_00270163	50x25	4200 mm	2.70 mm	HDG
GNA_F_00252131	50x25	3000 mm	2.50 mm	HDG

HDG : Hot-dip Galvanized

Codes	Dimensions	Lenght	Thickness	Materials & Finishes
(41x82) mm				
GNA_F_00086833	41 x 82	3000 mm	2.30 mm	HDG
GNA_F_00065183	41 x 82	3000 mm	2.50 mm	HDG
GNA_F_00049613	41 x 82	3350 mm	2.50 mm	HDG
GNA_F_00083685	41 x 82	3350 mm	2.00 mm	HDG
GNA_F_00049581	41 x 82	3380 mm	2.00 mm	HDG



Ordering Codes

B2B Slotted Channel

Codes	Dimensions	Lenght	Thickness	Materials & Finishes
(41x82) mm				
GNA_F_00053797	41 x 82	3500 mm	2.50 mm	HDG
GNA_F_00053801	41 x 82	4000 mm	2.50 mm	HDG
GNA_F_00049589	41 x 82	4000 mm	2.00 mm	HDG
GNA_F_00053805	41 x 82	4300 mm	2.50 mm	HDG
GNA_F_00053817	41 x 82	4500 mm	2.50 mm	HDG
GNA_F_00049645	41 x 82	450 mm	2.50 mm	HDG
GNA_F_00104449	41 x 82	700 mm	2.50 mm	HDG
GNA_F_00043468	41 x 82	3000 mm	1.50 mm	HDG
GNA_F_00043456	41 x 82	3000 mm	1.80 mm	HDG
GNA_F_00077197	41 x 82	3000 mm	2.35 mm	HDG
GNA_F_00043444	41 x 82	3000 mm	2.00 mm	HDG
GNA_F_00102261	41 x 82	3500 mm	1.80 mm	HDG
GNA_F_00102265	41 x 82	3550 mm	1.80 mm	HDG
GNA_F_00102269	41 x 82	3560 mm	1.80 mm	HDG
GNA_F_00081537	41 x 82	3750 mm	2.00 mm	HDG
GNA_F_00102273	41 x 82	4750 mm	1.80 mm	HDG
GNA_F_00043950	41 x 82	6000 mm	1.50 mm	HDG
GNA_F_00043934	41 x 82	6000 mm	1.80 mm	HDG
GNA_F_00055459	41 x 82	6000 mm	2.30 mm	HDG
GNA_F_00043920	41 x 82	6000 mm	2.50 mm	HDG
GNA_F_00043924	41 x 82	6000 mm	2.00 mm	HDG
GNA_F_00043496	41 x 82	3000 mm	2.50 mm	HDG
GNA_F_00049187	41 x 82	3000 mm	1.80 mm	Galvanized
GNA_F_00049051	41 x 82	3000 mm	2.35 mm	Galvanized
GNA_F_00077769	41 x 82	300 mm	2.50 mm	Galvanized
GNA_F_00071299	41 x 82	6000 mm	2.35 mm	Galvanized
GNA_F_00071291	41 x 82	6000 mm	2.30 mm	Galvanized
GNA_F_00043508	41 x 82	3000 mm	2.50 mm	HDG
GNA_F_00043520	41 x 82	3000 mm	2.50 mm	HDG
GNA_F_00044110	41 x 82	6000 mm	1.50 mm	HDG
GNA_F_00095549	41 x 82	6000 mm	1.80 mm	HDG
GNA_F_00043996	41 x 82	6000 mm	2.50 mm	HDG
GNA_F_00044048	41 x 82	6000 mm	2.00 mm	HDG
GNA_F_00095533	41 x 82	3000 mm	1.50 mm	HDG
GNA_F_00043900	41 x 82	3000 mm	1.80 mm	HDG
GNA_F_00043524	41 x 82	3000 mm	2.00 mm	HDG
GNA_F_00104487	41 x 82	3500 mm	1.80 mm	HDG
GNA_F_00054213	41 x 82	3000 mm	2.50 mm	HDG

HDG : Hot-dip Galvanized

Ordering Codes

B2B Plain Channel

Codes	Dimensions	Lenght	Thickness	Materials & Finishes
(50x20) mm				
GNA_F_00270221	50x20	3000 mm	2.50 mm	HDG
GNA_F_00270221	50x20	3000 mm	2.50 mm	HDG
GNA_F_00270225	50x20	6000 mm	1.50 mm	HDG
GNA_F_00270229	50x20	6000 mm	1.80 mm	HDG
GNA_F_00270233	50x20	6000 mm	2.50 mm	HDG
GNA_F_00270237	50x20	6000 mm	2.00 mm	HDG
GNA_F_00270241	50x20	3000 mm	1.50 mm	HDG
GNA_F_00270245	50x20	3000 mm	1.80 mm	HDG
GNA_F_00270249	50x20	3000 mm	2.00 mm	HDG
GNA_F_00270253	50x20	3500 mm	1.80 mm	HDG
GNA_F_00270221	50x20	3000 mm	2.50 mm	HDG

HDG : Hot-dip Galvanized

Codes	Dimensions	Lenght	Thickness	Materials & Finishes
(50x25) mm				
GNA_F_00270311	50x25	3000 mm	2.50 mm	HDG
GNA_F_00270311	50x25	3000 mm	2.50 mm	HDG
GNA_F_00270315	50x25	6000 mm	1.50 mm	HDG
GNA_F_00270319	50x25	6000 mm	1.80 mm	HDG
GNA_F_00270323	50x25	6000 mm	2.50 mm	HDG
GNA_F_00270327	50x25	6000 mm	2.00 mm	HDG
GNA_F_00270331	50x25	3000 mm	1.50 mm	HDG
GNA_F_00270335	50x25	3000 mm	1.80 mm	HDG
GNA_F_00270339	50x25	3000 mm	2.00 mm	HDG
GNA_F_00270343	50x25	3500 mm	1.80 mm	HDG
GNA_F_00270311	50x25	3000 mm	2.50 mm	HDG

HDG : Hot-dip Galvanized



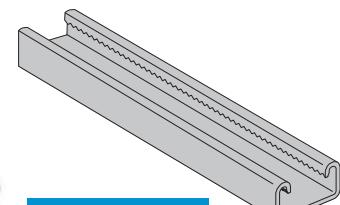
**TOOTHED
CHANNELS**

CCH-220T/221T (41X21X1.5)

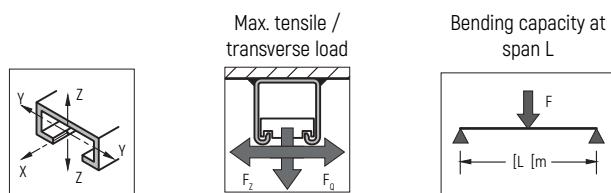
Thickness : 1.5 mm
Standard Length : 3.00 m
Finishes : Pre-Galvanized,
Hot-Dip Galvanized.



Due to its positive locking feature, this channel is ideally suited when increased loading capacities in longitudinal direction are required



CCH - 220T



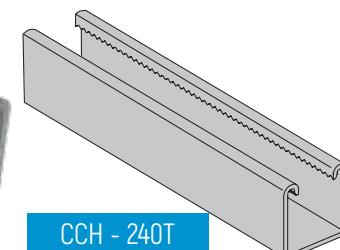
Channel CCH	Channel Weight G [Kg/m]	Cross Section A [cm²]	Moment of inertia		Section modulus		Bending capacity at span L		
			I_y [cm⁴]	I_z [cm⁴]	W_y [cm³]	W_z [cm³]	m 0.50	m 1.00	m 1.50
									[F [KN]]
220T	1.09	1.39	0.81	3.36	0.64	1.91	1.12	0.56	0.19
221T	0.97	1.23	0.70	3.34	0.60	1.70	1.04	0.52	0.17
222T	1.94	2.47	3.55	6.69	1.69	3.82	2.94	1.47	0.49

CCH-240T/241T (41X41X1.5)

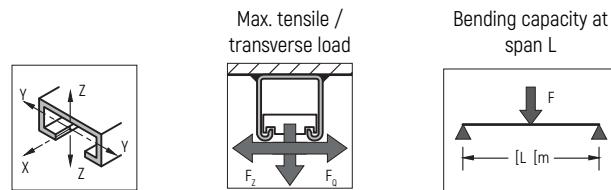
Thickness : 1.5 mm
Standard Length : 3.00 m
Finishes : Pre-Galvanized,
Hot-Dip Galvanized.



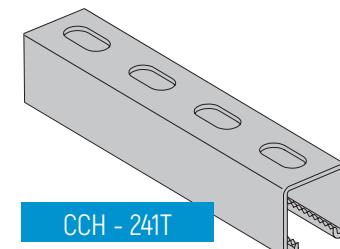
Due to its positive locking feature, this channel is ideally suited when increased loading capacities in longitudinal direction are required



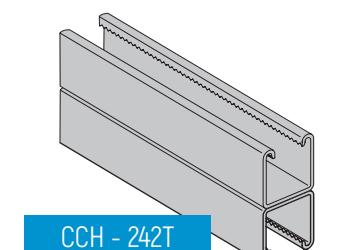
CCH - 240T



Channel CCH	Channel Weight G [Kg/m]	Cross Section A [cm²]	Moment of inertia		Section modulus		Bending capacity at span L		
			I_y [cm⁴]	I_z [cm⁴]	W_y [cm³]	W_z [cm³]	m 0.50	m 1.00	m 1.50
									[F [KN]]
240T	1.56	1.99	4.36	5.70	1.86	2.99	3.24	1.62	1.08
241T	1.44	1.83	3.87	5.68	1.76	2.66	3.06	1.53	1.02
242T	2.88	3.67	21.11	11.37	5.15	5.98	8.98	4.49	2.90



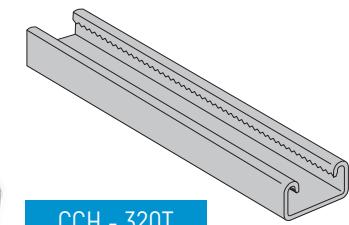
CCH - 241T



CCH - 242T

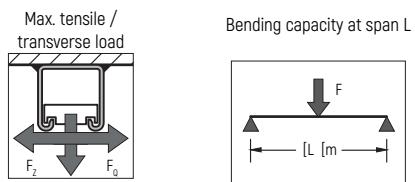
CCH-320T/321T (41X21X2.0)

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



CCH - 320T

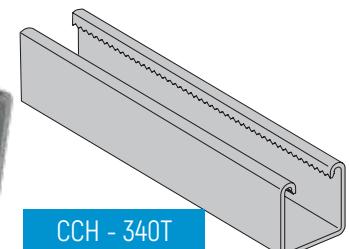
Due to its positive locking feature, this channel is ideally suited when increased loading capacities in longitudinal direction are required



Channel CCH	Channel Weight G [Kg/m]	Cross Section A [cm ²]	Moment of inertia		Section modulus		Bending capacity at span L		
			I _y [cm ⁴]	I _z [cm ⁴]	W _y [cm ³]	W _z [cm ³]	m 0.50	m 1.00	m 1.50
									[F [KN]]
320T	1.44	1.83	0.99	4.77	0.84	2.37	1.46	0.73	0.24
321T	1.27	1.62	0.88	4.25	0.75	2.11	1.30	0.65	0.22
322T	2.54	3.24	4.60	8.51	2.19	4.74	3.80	1.91	1.27

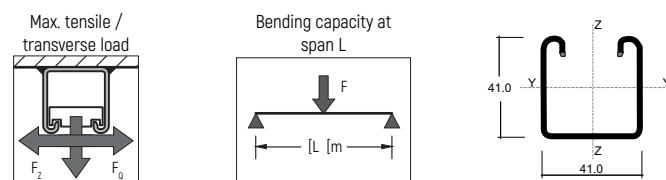
CCH-340T/341T (41X41X2.0)

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

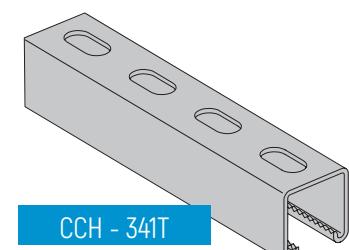


CCH - 340T

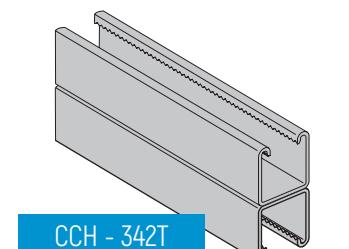
Due to its positive locking feature, this channel is ideally suited when increased loading capacities in longitudinal direction are required



Channel CCH	Channel Weight G [Kg/m]	Cross Section A [cm ²]	Moment of inertia		Section modulus		Bending capacity at span L		
			I _y [cm ⁴]	I _z [cm ⁴]	W _y [cm ³]	W _z [cm ³]	m 0.50	m 1.00	m 1.50
									[F [KN]]
340T	2.04	2.60	5.41	7.03	2.35	3.86	4.10	2.05	1.37
341T	1.83	2.33	4.59	6.99	2.18	3.43	3.80	1.90	1.26
342T	3.76	4.79	26.81	14.04	6.62	7.72	11.54	5.77	3.85



CCH - 341T



CCH - 342T

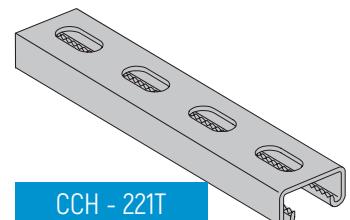
CCH-420T/421T (41X21X2.5)

Thickness	: 2.5 mm
Standard Length	: 3.00 m
Finishes	: Pre-Galvanized, Hot-Dip Galvanized.

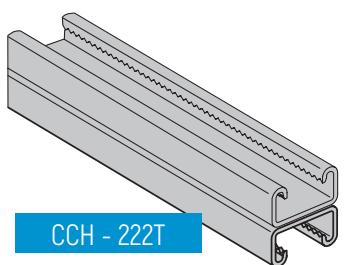


Due to its positive locking feature, this channel is ideally suited when increased loading capacities in longitudinal direction are required

CCH - 220T



CCH - 221T

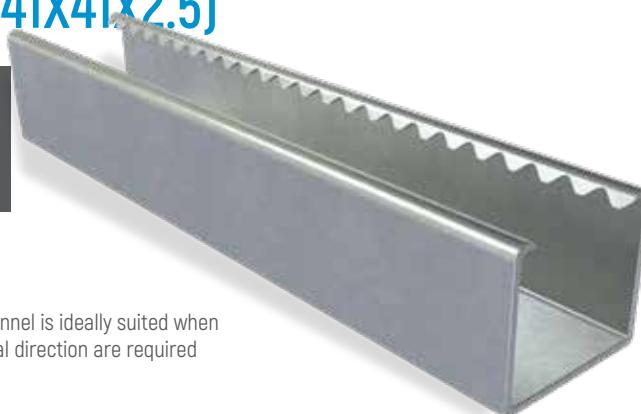


CCH - 222T

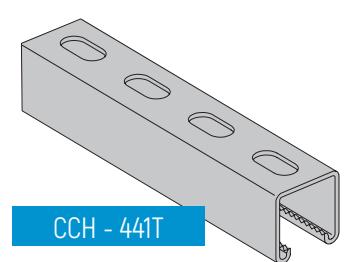
Channel CCH	Channel Weight G [Kg/m]	Cross Section A [cm ²]	Moment of inertia		Section modulus		Bending capacity at span L		
			I _y [cm ⁴]	I _z [cm ⁴]	W _y [cm ³]	W _z [cm ³]	m 0.50	m 1.00	m 1.50
									[F [KN]]
420T	1.75	2.18	1.15	4.92	0.89	2.50	1.55	0.78	0.32
421T	1.54	1.95	1.01	4.99	0.86	2.49	1.5	0.75	0.3
422T	3.50	4.48	5.55	10.15	2.63	5.31	4.58	2.29	1.53

CCH-440T/441T (41X41X2.5)

Thickness	: 2.5 mm
Standard Length	: 3.00 m
Finishes	: Pre-Galvanized, Hot-Dip Galvanized.

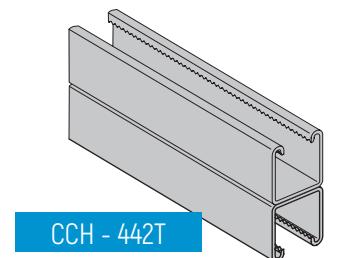


CCH - 440T



CCH - 441T

Channel CCH	Channel Weight G [Kg/m]	Cross Section A [cm ²]	Moment of inertia		Section modulus		Bending capacity at span L		
			I _y [cm ⁴]	I _z [cm ⁴]	W _y [cm ³]	W _z [cm ³]	m 0.50	m 1.00	m 1.50
									[F [KN]]
440T	2.57	3.28	6.52	8.78	2.76	4.39	4.81	2.41	1.60
441T	2.30	2.91	5.62	8.74	2.57	4.35	4.48	2.24	1.49
442T	4.90	6.34	32.02	17.54	8.11	8.85	14.14	7.07	4.71



CCH - 442T

FITTINGS

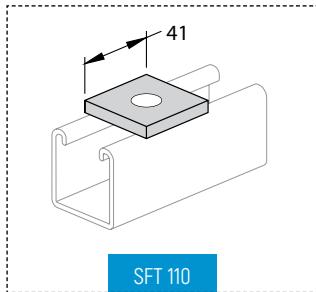
This part offers a full section of fittings and accessories to complete SFSP's metal framing system.

Standard Finishes: Hot Dip Galvanized .

Fitting Specifications (unless noted): Hole Size 13.0mm Diameter; Hole Spacing 20.0mm from end and 48.0 mm Width 41.0mm; Thickness, 6.0mm (Order hardware separately).

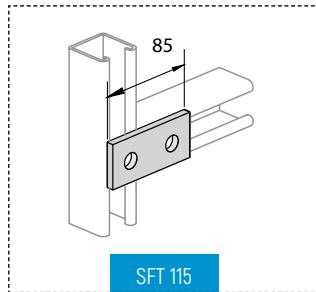
on center;

Square Washer



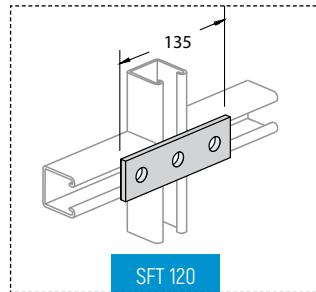
SFT 110

Splice Plate



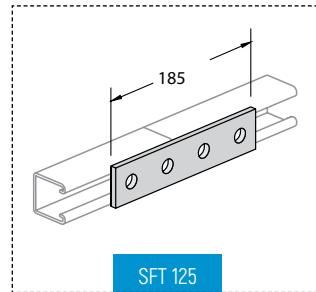
SFT 115

Splice Plate



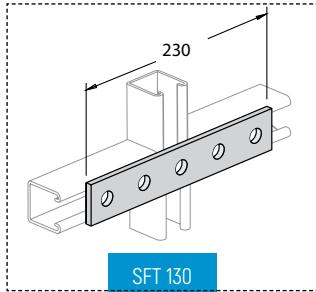
SFT 120

Splice Plate



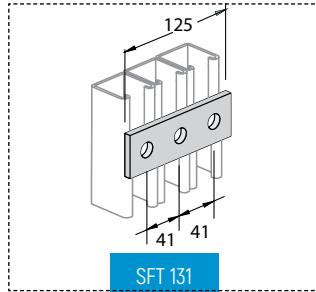
SFT 125

Splice Plate



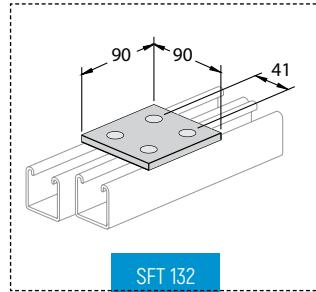
SFT 130

Splice Plate



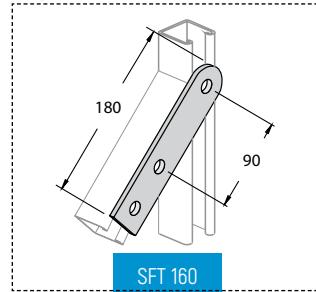
SFT 131

Square Splice Plate



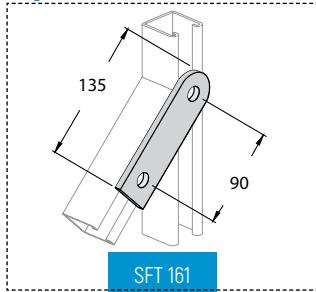
SFT 132

Angle Plate



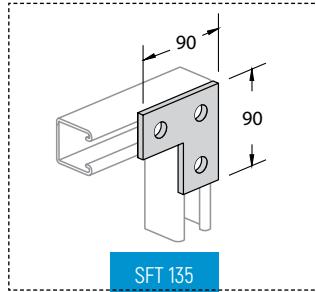
SFT 160

Angle Plate



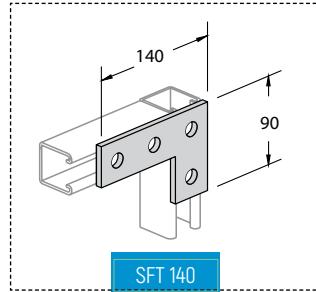
SFT 161

L - Plate



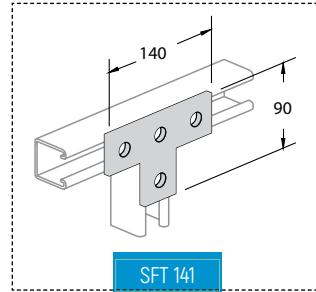
SFT 135

L - Plate



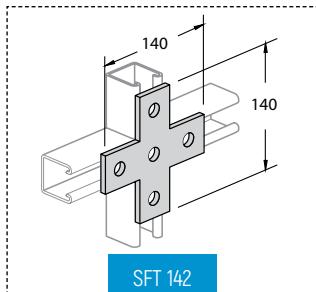
SFT 140

T - Plate



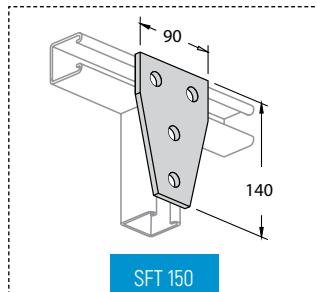
SFT 141

Plus Plate



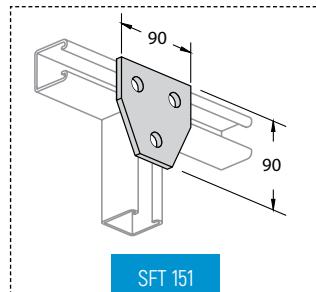
SFT 142

T - Plate



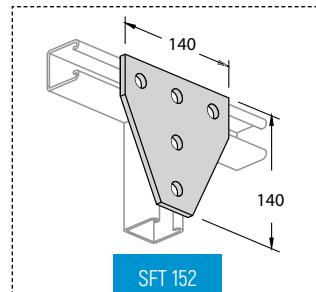
SFT 150

T - Plate



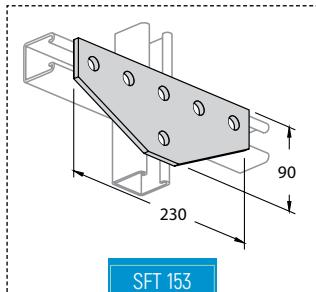
SFT 151

T - Plate



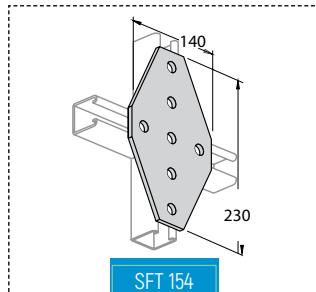
SFT 152

T - Plate



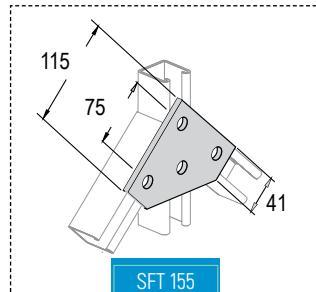
SFT 153

Plus Plate



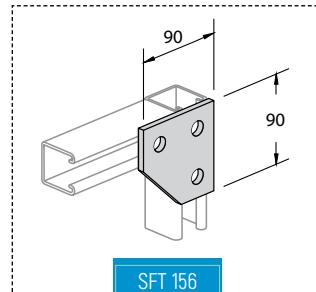
SFT 154

45° Plate



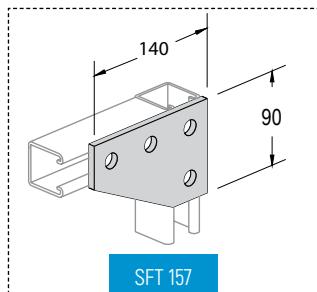
SFT 155

90° Plate

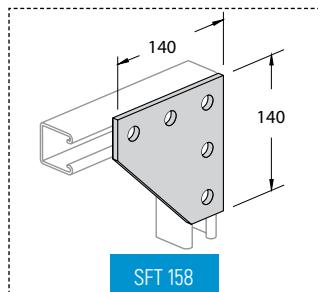


SFT 156

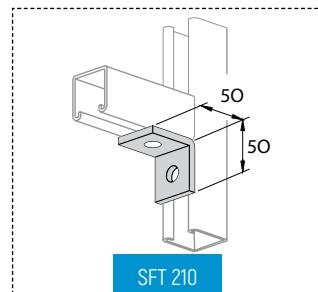
90° Plate



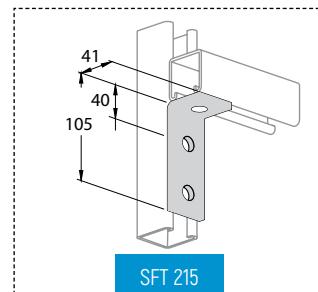
90° Plate



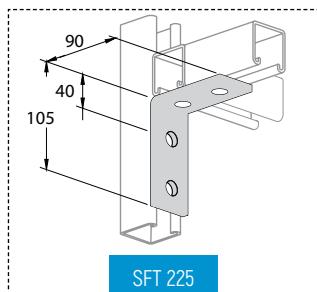
L - Bracket



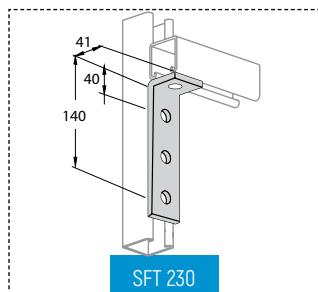
L - Bracket



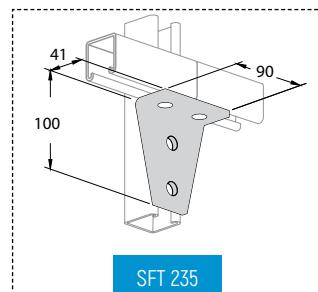
L - Bracket



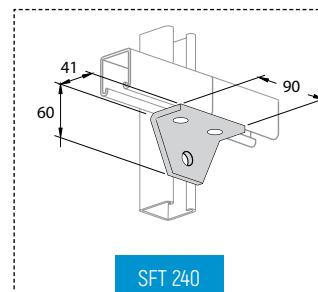
L - Bracket



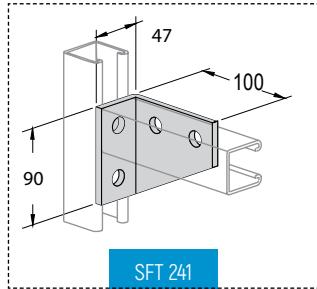
L - Plate



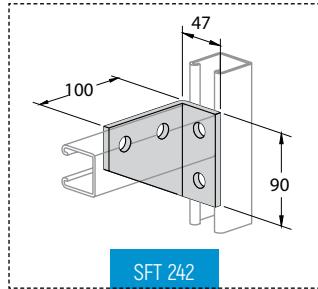
L - Plate



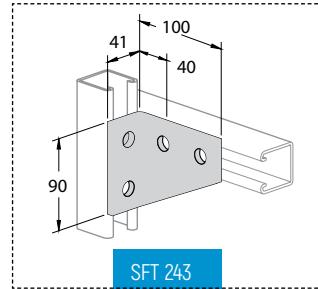
Angle Plate



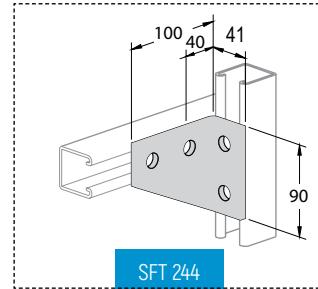
Angle Plate



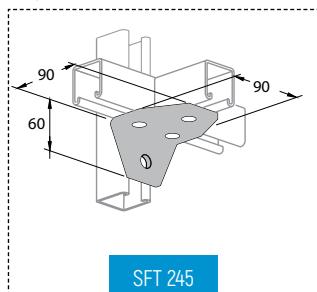
Angle Plate



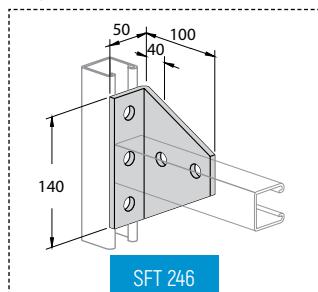
Angle Plate



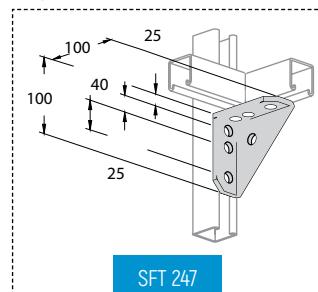
Angle Plate



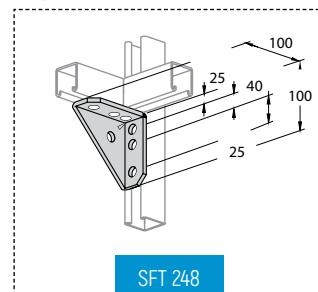
Angle Plate



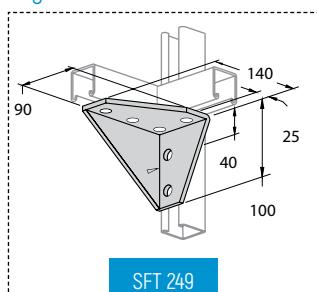
Angle Plate



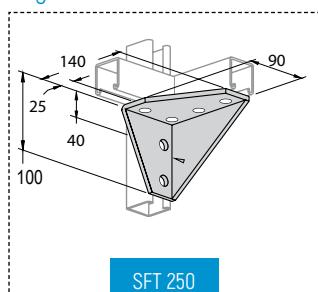
Angle Plate



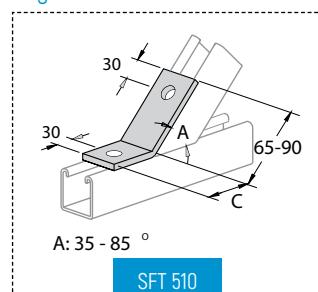
Angle Plate



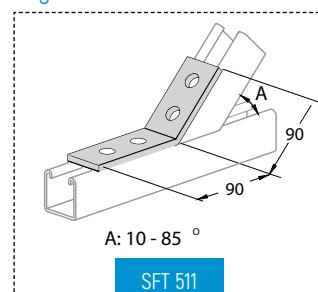
Angle Plate

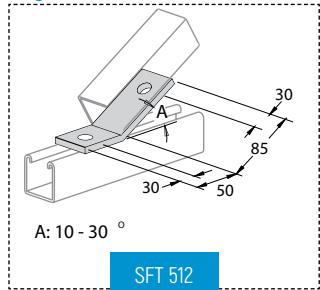
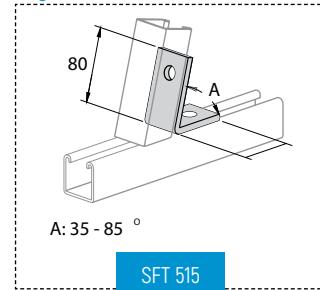
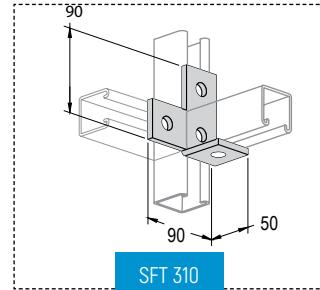
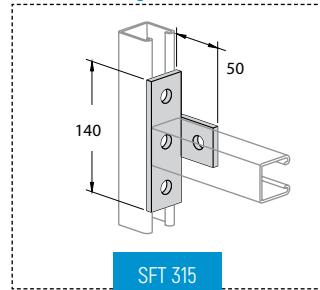
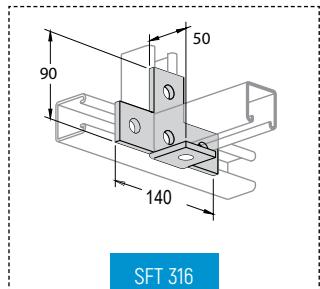
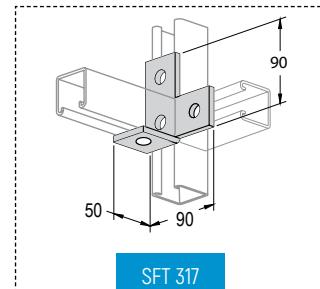
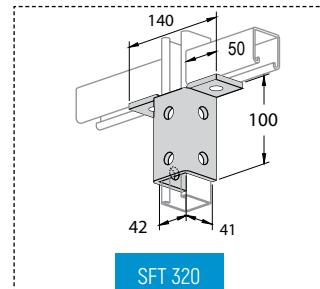
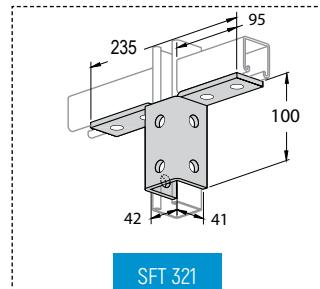
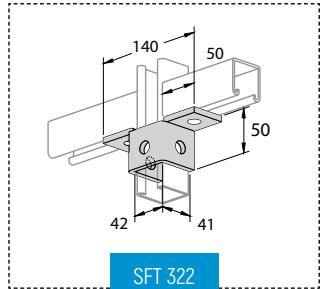
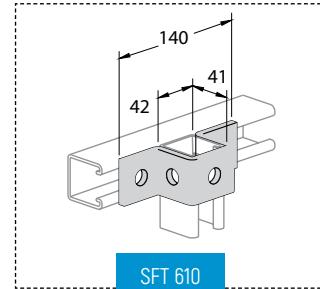
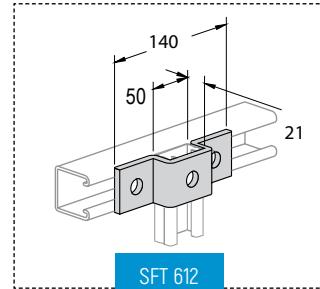
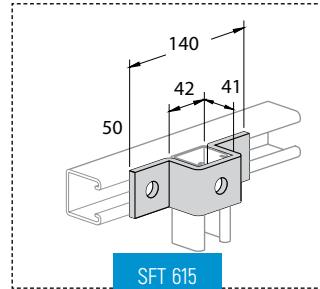
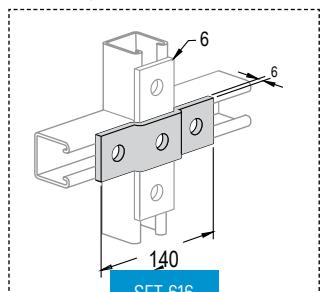
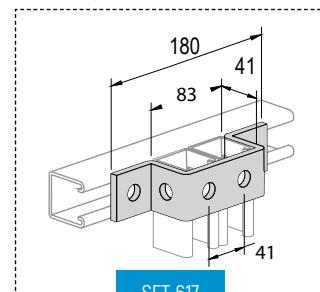
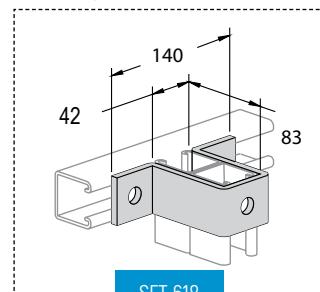
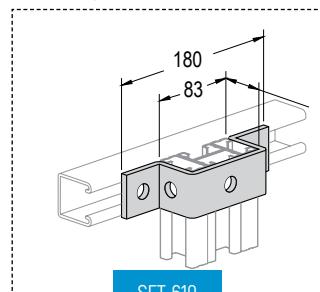
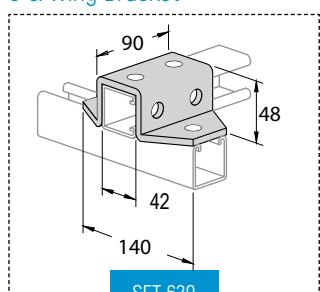
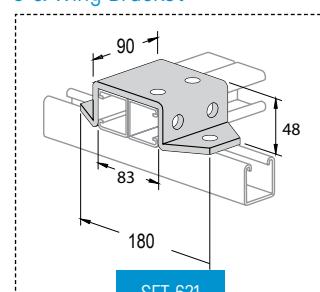
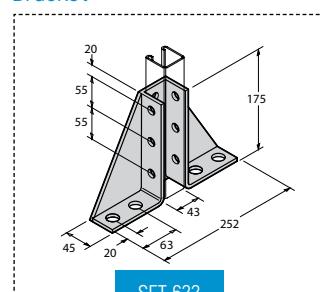
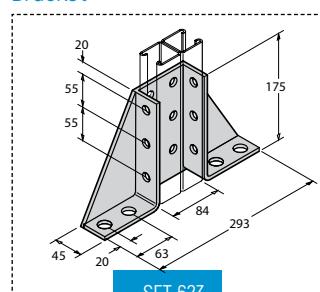


Angular Bracket

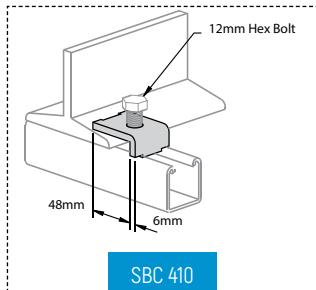


Angular Bracket



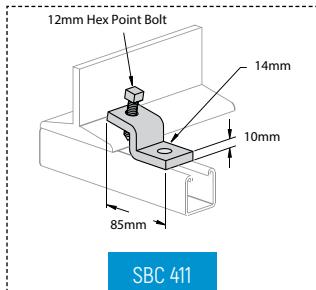
Angular Bracket**Angular Bracket****T - Corner Left****T - Corner Right****T - Center****T - Corner Right****Double Wing Joint****Double Wing Joint****Double Wing Joint****U & Wing Bracket****U & Wing Bracket****U & Wing Bracket****U & Wing Bracket****U & Wing Bracket****U & Wing Bracket****U & Wing Bracket****U & Wing Bracket****U & Wing Bracket****Single Channel Gusseted Bracket****Double Channel Gusseted Bracket**

Beam Clamp



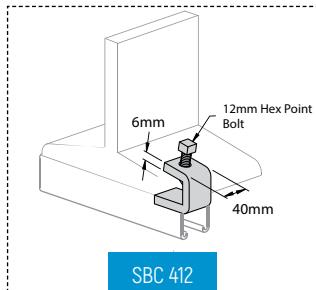
SBC 410

Beam Clamp



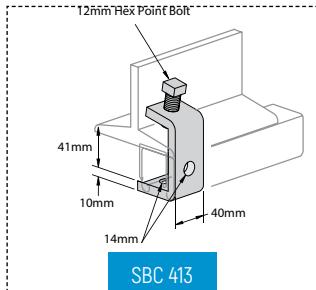
SBC 411

Beam Clamp



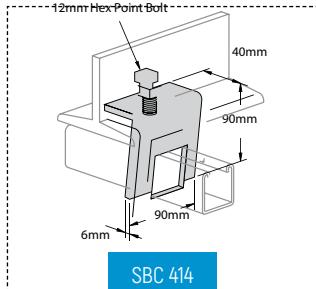
SBC 412

Beam Clamp



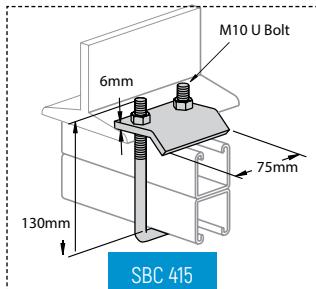
SBC 413

Beam Clamp



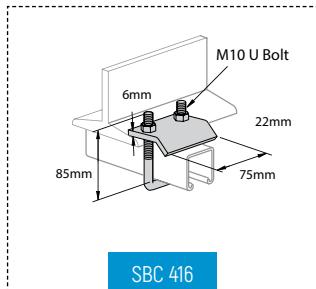
SBC 414

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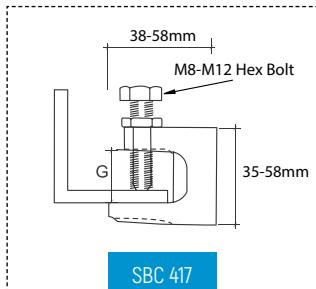
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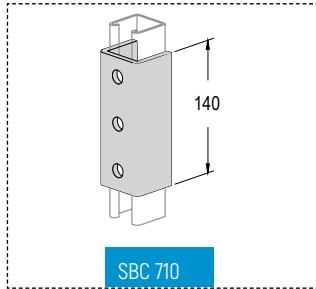
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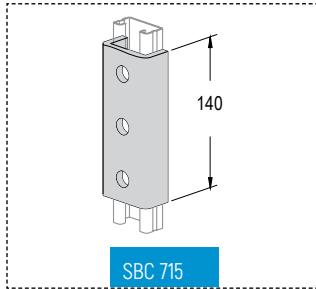
SBC 417

U - Joint Bracket



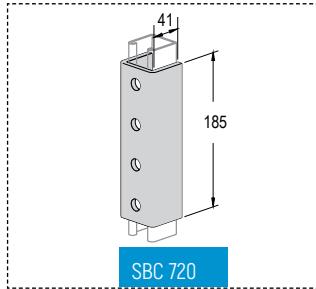
SBC 710

U - Joint Bracket



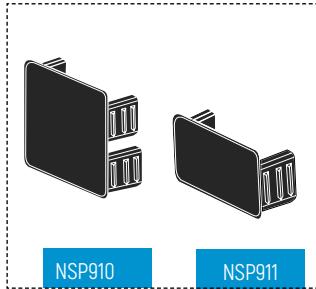
SBC 715

U - Joint Bracket



SBC 720

Plastic End Caps For Channels



NSP910

NSP911

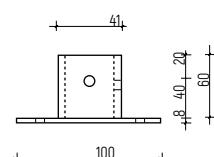
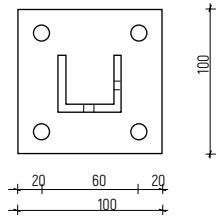
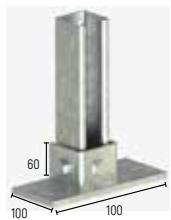
Ordering Codes

Codes	Fittings	Codes	Fittings	Codes	Fittings
STWS_F_00088861	SFT 110	STLB_F_00073395	SFT 246 HDG	STLB_F_00044676	SBC 410
STWS_F_00044120	SFT 115	STFP_F_00073407	SFT 247 OR 248	STZB_F_00044700	SBC 411
STWS_F_00044126	SFT 120	STLB_F_00044430	SFT 315	STCB_F_00044694	SBC 412
STWS_F_00044132	SFT 125	STLB_F_00044436	SFT 510	STCB_F_00044682	SBC 413
STWS_F_00044138	SFT 130	STLB_F_00044442	SFT 515	STLB_F_00044688	SBC 414
STFP_F_00044386	SFT [135-151-156]	STOM_F_00044156	SFT 610	STFP_F_00044730	SBC 415+416
STFP_F_00044392	SFT 140	STOM_F_00044150	SFT 615	SCUC_F_00044614	SBC 710
STFP_F_00050393	SFT 141	STOM_F_00097307	SFT 617	SCUC_F_00044628	SBC 715
STFP_F_00044404	SFT 150	STOM_F_00073389	SFT 618	SCUC_F_00044650	SBC 720
STLB_F_00044162	SFT 210	STOM_F_00104453	SFT 620	SCUC_F_00086843	SBC 720
STLB_F_00044168	SFT 215	STFP_F_00044398	[SFT [145-142		
STLB_F_00111075	SFT 220	STOM_F_00081325	SFT 615		
STLB_F_00044174	SFT 225	GNA_F_00044784	SFT 622		
STLB_F_00059565	SFT 225	GNA_F_00092261	SFT 622		
STLB_F_00044180	SFT 230	GNA_F_00044788	SFT 623		
STLB_F_00044410	SFT 235	SCUC_F_00044608	SFT 320		
STLB_F_00044420	SFT 240	SCUC_F_00044602	SFT 321		

Post Base

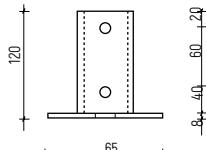
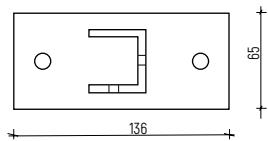
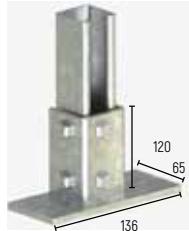
Base Plate
with Single Fix

SFT 340



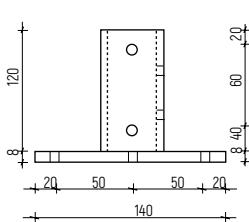
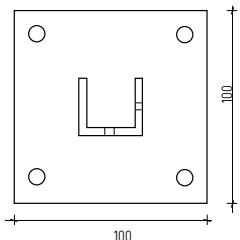
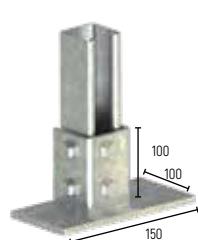
Base Plate with
Double Fix

SFT 345



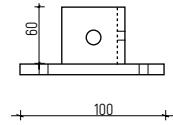
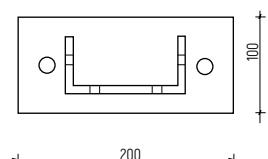
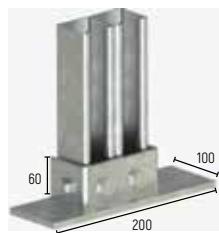
Base Plate with
Double Fix

SFT 346



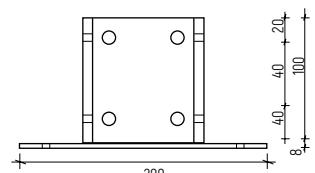
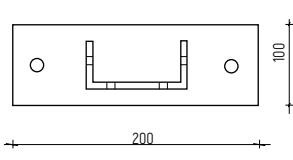
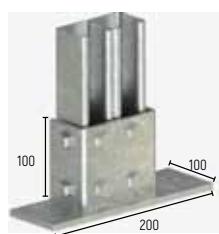
Base Plate with
Double Channel

SFT 350



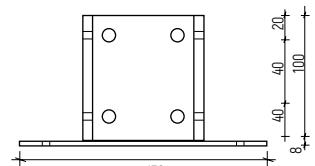
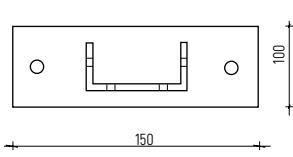
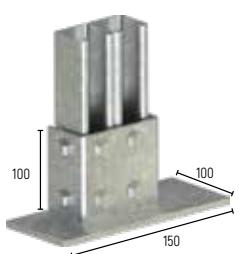
Base Plate with Double
Channel Double Fix

SFT 355



Base Plate with Double
Channel Double Fix

SFT 356



Ordering Codes

Codes	Fittings
GNA_F_00044280	SFT340 HDG
GNA_F_00054005	{SFT345[2 HOLES
GNA_F_00044284	SFT345[2 HOLES] HDG
GNA_F_00096889	-{SFT345[2 HOLES [PLATE 10MM [0303

Codes	Fittings
GNA_F_00044288	SFT345 [4 HOLES] HDG
GNA_F_00088403	{SFT345[4 HOLES](I-231
GNA_F_00044292	SFT350 HDG
GNA_F_00044298	SFT355 HDG
GNA_F_00088393	{SFT355(I-231

HDG : Hot-dip Galvanized

ACCESSORIES

Framing Systems

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

Threaded Rod [STR] - DIN 975 - ASTM A36

Zinc Plated Thread	Length [mm]	Load cap. [kN]
M6	2000/3000	2.2
M8	2000/3000	4.0
M10	2000/3000	6.4
M12	2000/3000	12.9
M16	2000/3000	17.3
M18	2000	22.0
M20	2000	27.0



Square Washers SSW

Square Washers (SSW)

H.D. Galvanized Bolt	Stainless Steel Bolt	a x b x d [mm]
M8	M10	40 x 40 x [4-5-6]
M10	M12	40 x 40 x [4-5-6]
M12	M16	40 x 40 x [4-5-6]



ASTM F436

Washers (SRW) | DIN 125 | ASTM F436

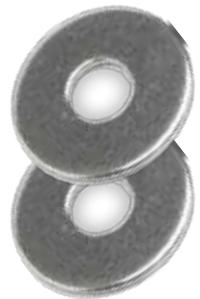
Zinc Plated	Stainless Steel	D [mm]	d [mm]	S [mm]
M6	M6	12	6.4	1.6
M8	M8	16	8.4	1.6
M10	M10	21	10.5	2
M12	M12	24	13	2.5
M16	M16	30	17	3
M18	M18	34	19	3.2
M20	M20	39	20.5	3.6



Round Washers DIN 440, DIN 9021

Washers (SRW) | DIN 440 | DIN 9021

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



Hexagon Nuts DIN 934, DIN EN 24032

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

Zinc Plated Thread	S/m DIN [mm]	S/m ISO [mm]	e [mm]
M6	10/5	10/6	11.5
M8	13/6.5	13/7.5	15.0
M10	17/8	16/9.5	19.6
M12	19/10	18/12	21.9
M16	24/13	24/15.5	27.7



Square Washers SSW

Square Washers (SSW)

H.D. Galvanized Bolt	Stainless Steel Bolt	a x b x d [mm]
M8	M10	40 x 40 x [4-5-6]
M10	M12	40 x 40 x [4-5-6]
M12	M16	40 x 40 x [4-5-6]



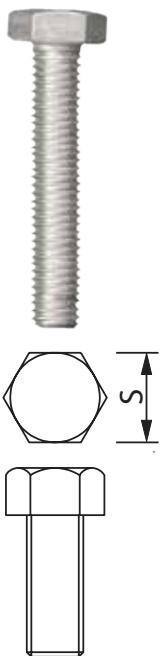
Framing Systems

Machine HexHead Bolts DIN 933, DIN 24017

Zinc Plated Dimension	S DIN [mm]	S EN [mm]
M 6 x 12		
M 6 x 25	10	10
M 8 x 25		
M 8 x 40	13	13
M 10 x 20		
M 10 x 30		
M 10 x 45	17	16
M 10 x 60		
M 10 x 70		
M 12 x 22		
M 12 x 25		
M 12 x 30		
M 12 x 40		
M 12 x 50	19	18
M 12 x 60		
M 12 x 80		
M 12 x 90		
M 16 x 40		
M 16 x 60	24	24
M 16 x 90		

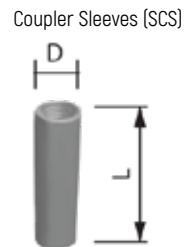
Order Example : SHB - M 12

Hex Head Bolt [SHB]
DIN 933 or EN 24017 (without nut)



Coupler Sleeves Rounded

Electroplated Thread	D [mm]	L [mm]	Load cap [kN]
M6	10/10	15	2.2
M8	12/14	20	4.0
M10	13/16	25	6.4
M12	16/20	30	9.3
M16	21/25	40	17.3
M20	26/32	50	27.0



Order Example: SCS - M 16

Hexagonal Rod Coupler

Electroplated Thread	D [mm]	L [mm]	Load cap [kN]
M10	13	40	6.4
M12	17	40	9.3
M16	22	50	17.3

Hexagonal Rod Coupler with view hole [SHR]

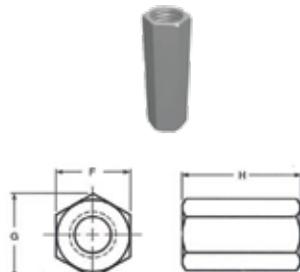


Order Example: SHR - ZP - M 12

Hexagonal Rod Coupler with view hole

Size	G		F		H	
	Min.	Max.	Min.	Max.	Min.	Max.
M6	11.05	9.78	10	17.6	18	
M8	14.38	12.73	13	23.5	24	
M10	18.9	16.73	17	29.5	30	
M12	21.1	18.67	19	35.4	36	
M16	26.75	23.67	24	47.0	48	
M20	32.95	29.16	30	58.1	60	
M24	39.55	35.00	36	70.1	72	
M30	50.85	45.00	46	87.8	90	

Hexagonal Rod Coupler with view hole [SHR]



Finishing Available : Electroplated, HDG, SS AISI 304 & 316

Specification Requirements:

Dimensions: H, F and G - as above

Threads type: 6H

Mechanical Properties: class 6. Proof Load Strength 600MPa

Finish: Electro-plated

Remarks:

1. Above Coupling Nut to be used with Threaded Rod Class 4.6 or less

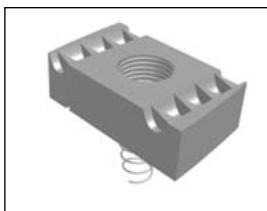
2. Threaded Rod to be extended inside the Coupler with distance equal or greater than the nominal Threaded diameter which is equal to H/2

Channel Nuts

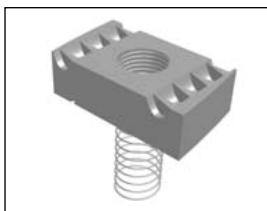
Nut without Spring



Nut with Short Spring



Nut with Long Spring

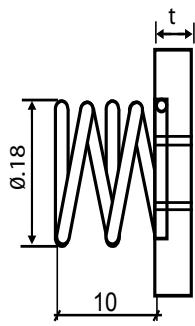
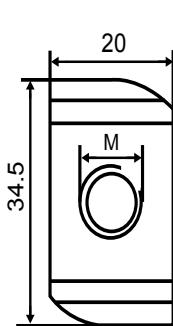


Hammer Head Bolt

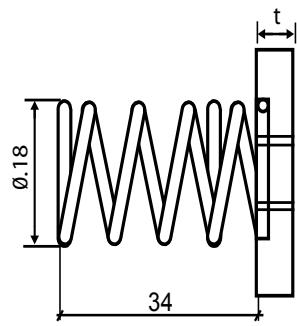


Material: Zinc plated steel and stainless steel 304 (A2), 316 (A4).

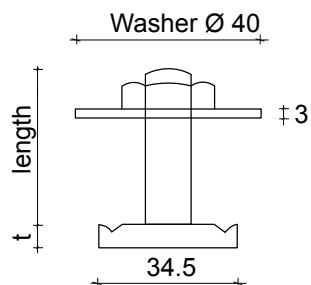
Tolerance: Metric thread 6 H acc. DIN 13-20.



Short Spring



Long Spring



Available length: L 30mm, 40mm, 50mm, 60mm.

Material: Zinc plated.

Allowable Load Capacities for channel nuts and bolts

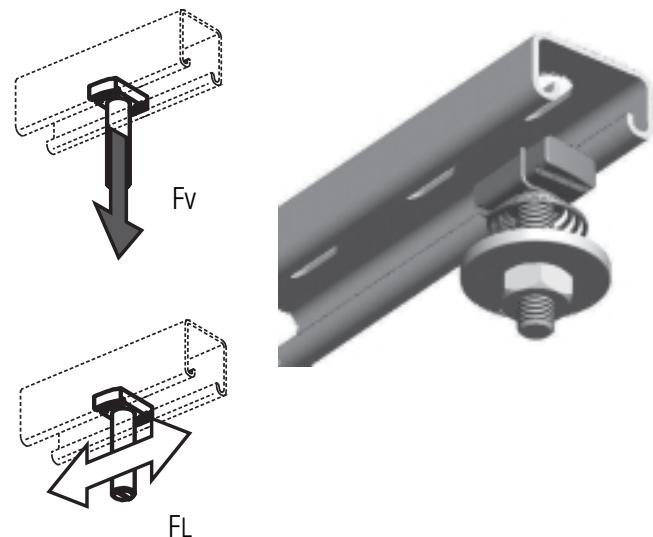
Mild Steel Channels, Bolt Material zinc plated or hot dip-galvanized

Thread Size	Pull out (Force Fv [kN])	Longitudinal (Force FL [kN])	Tightening (Torque [Nm])
M6	5.0	1.0	12.0
M8	6.0	2.4	28.0
M10	7.0	3.5	55.0
M12	7.0	5.0	55.0

Stainless Steel Channels, Bolt Material Stainless steel A4

Threaded Size	Pull out (Force Fv [kN])	Longitudinal (Force FL [kN])	Tightening Torque ([Nm])
M6	5.0	0.3	6.5
M8	6.0	0.6	16.0
M10	7.0	1.2	31.5
M12	7.0	1.7	55.0

Note: Do not exceed channel capacity



Allowable Load Capacities for Toothed channel nuts and bolts

Mild Steel Toothed Channels, Bolt Material zinc plated or hot dip-galvanized

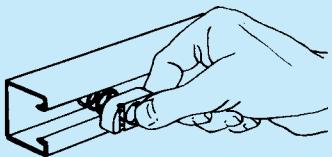
Bolt Size	Longitudinal Force [FL [kN]]	Tension Load [Fv]	Tightening (Torque [Nm])
M6	2.2	5.0	12
M8	4.0	6.0	28
M10	5.0	7.0	55
M12	5.0	7.0	55

Stainless Steel Toothed Channels, Bolt Material Stainless steel A4

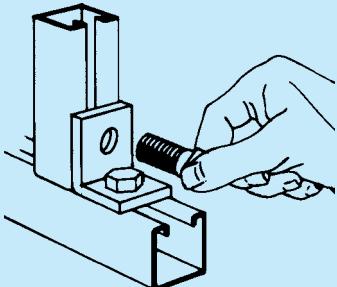
Bolt Size	Longitudinal Force [FL [kN]]	Tension Load [Fv]	Tightening (Torque [Nm])
M6	2.2	5.0	6,5
M8	4.0	6.0	16.0
M10	5.0	7.0	31,5
M12	5.0	7.0	55.0

Installation & Features

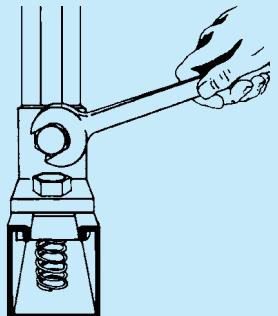
No Welding , No Drilling , No Special Tools, Strong, Fast, Economical and Adjustable.



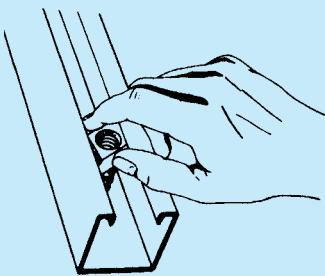
- 1** Insert the spring nut anywhere along the continuous slotted channel. The rounded nut ends permit easy insertion.



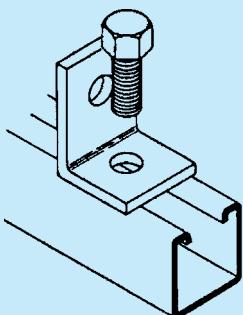
- 4** Additional channel sections can now be bolted to the fitting already in place by following procedure described in steps 1-3.



- 5** Tightening with a wrench locks the serrated teeth of the nut into the in turned edges of the channel, to complete a strong, vise-like connection.



- 2** A 90° clockwise turn aligns the grooves in the nut with the inturned edges of the channel. The need for drilling holes is eliminated.



- 3** Insert the bolt through the fitting and into the spring nut.
(See illustration 5 for end view showing the nut in place)

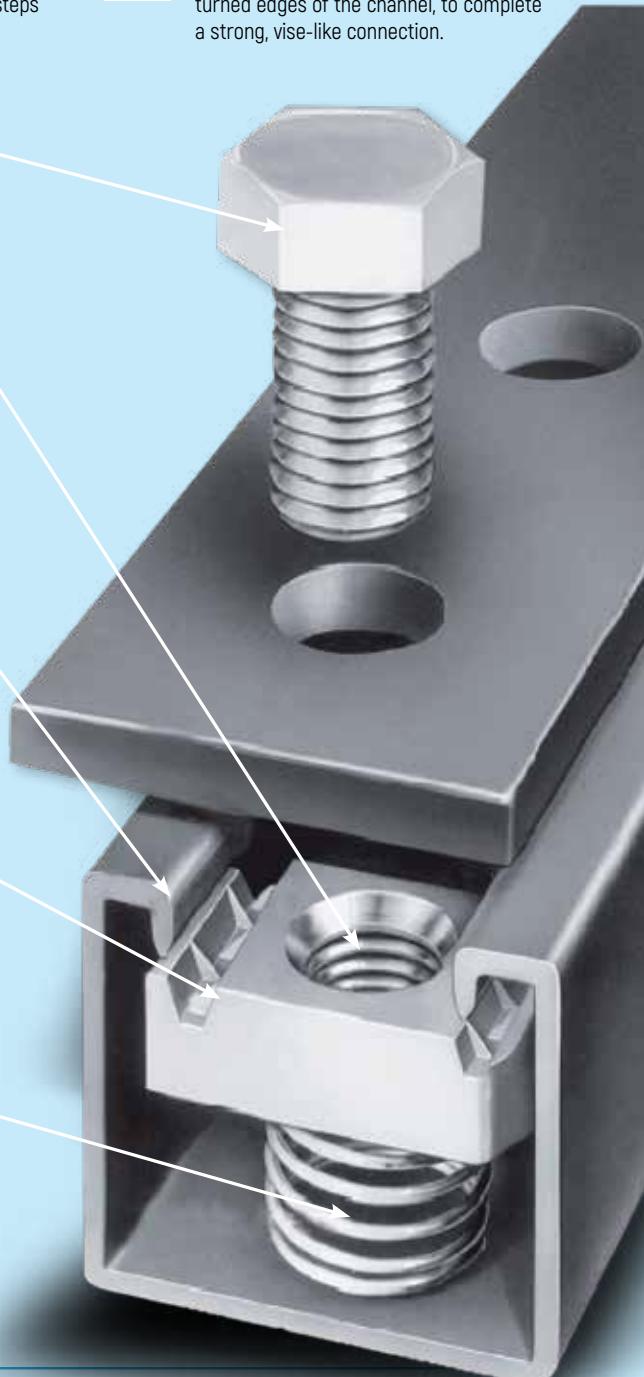
Hex-head bolt connects fitting to channel as it is threaded into spring nut.

Chamfer in the nut eases starting of the bolt. Nut teeth make a strong, vise-like grip when tightened against the inturned channel edges.

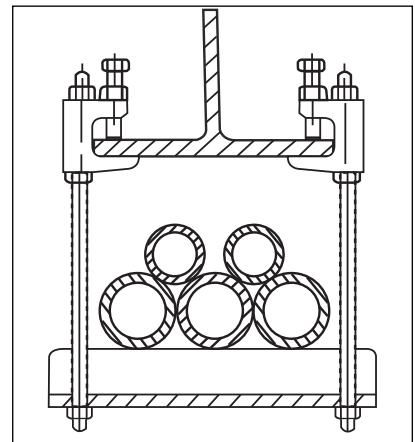
Channel edges and the nut's tapered grooves act as guides to provide fool-proof alignment of connection.

Nut teeth grip the channel's inturned edges, tying the channel sides together in a "box" configuration for added strength.

Spring allows precision placement anywhere along channel length, then holds the nut in position while the connection is completed.

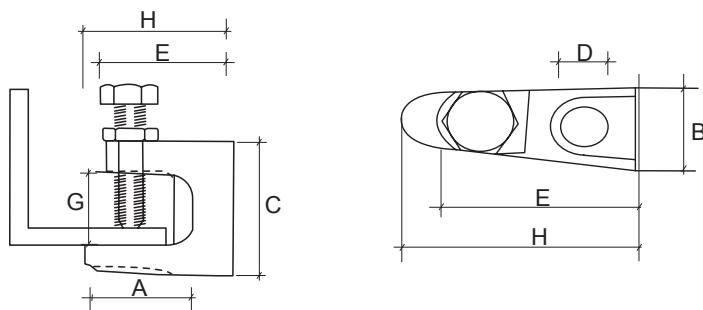


Beam Clamp - SBC



Material: Cast Iron ,hot dip galvanized casting tolerance according to DIN 1684- GTA /17.

- With hexagon head screw DIN 933 8.8, threaded end with cup point according to EN ISO 4753 and locknut DIN 439 .
- For sprinkler systems, heating, ventilation and air conditioning, acoustic tubes and sanitary installation machines and steel constructions.



Type	A	B	C	D	E	F	G	H	Weight	Safe working load
	[mm]	[g]	[KN]							
SBC8	21.0	19.0	35.0	M8	35.0	M8	18.0	38.0	81.0	1.2
SBC10	29.0	21.0	35.0	M8	41.0	M10	23.0	50.0	147.0	2.5
SBC10	23.0	21.0	42.0	M10	41.0	M10	20.0	44.0	143.0	2.5
SBC12	35.0	23.5	54.0	M12	48.0	M10	26.0	58.0	216.0	3.5
SBC16	30.0	29.5	58.0	M16	55.5	M12	28.0	58.3	318.0	5.5

- Beam Clamps can generally be secured by safety straps.
- Beam Clamps shall be secured when using Beam for pipes larger than DN65 to avoid slipping of beam.

ANCHORS

heavy duty Anchors

General Information

Direction of Loading

The direction of the applied load shall be considered to determine the most appropriate anchor .

The tension and shear components shall be less than the recommended load/design resistance in the direction concerned.

Tensile Loads

Tensile loads are applied along the axis of fixing (see Fig.1).

Common examples include suspended ceiling applications and the suspension of mechanical services, pipework, ductwork, etc.

Shear Loads

Shear loads act at right angles to the axis of fixing and directly against the face of the structural material (see Fig.2).

Shear performance is governed mainly by the shear strength of the bolt material and by the compressive strength of the supporting substrate.

Oblique / Combined Loads

Oblique loads are a combination of tension and shear components (see Fig.3).

If the angle of the applied oblique load is within 10° of pure tension or pure shear, the safe working load for that direction may be assumed. Otherwise, the applied oblique load shall be resolved into its shear and tensile components.

Offset Loads

Offset loads act at right angles to the fixing axis but are offset from the surface (see Fig4).

In this situation, the deflection of the bolt due to bending needs to be considered as well as the shear capacity of the anchor.

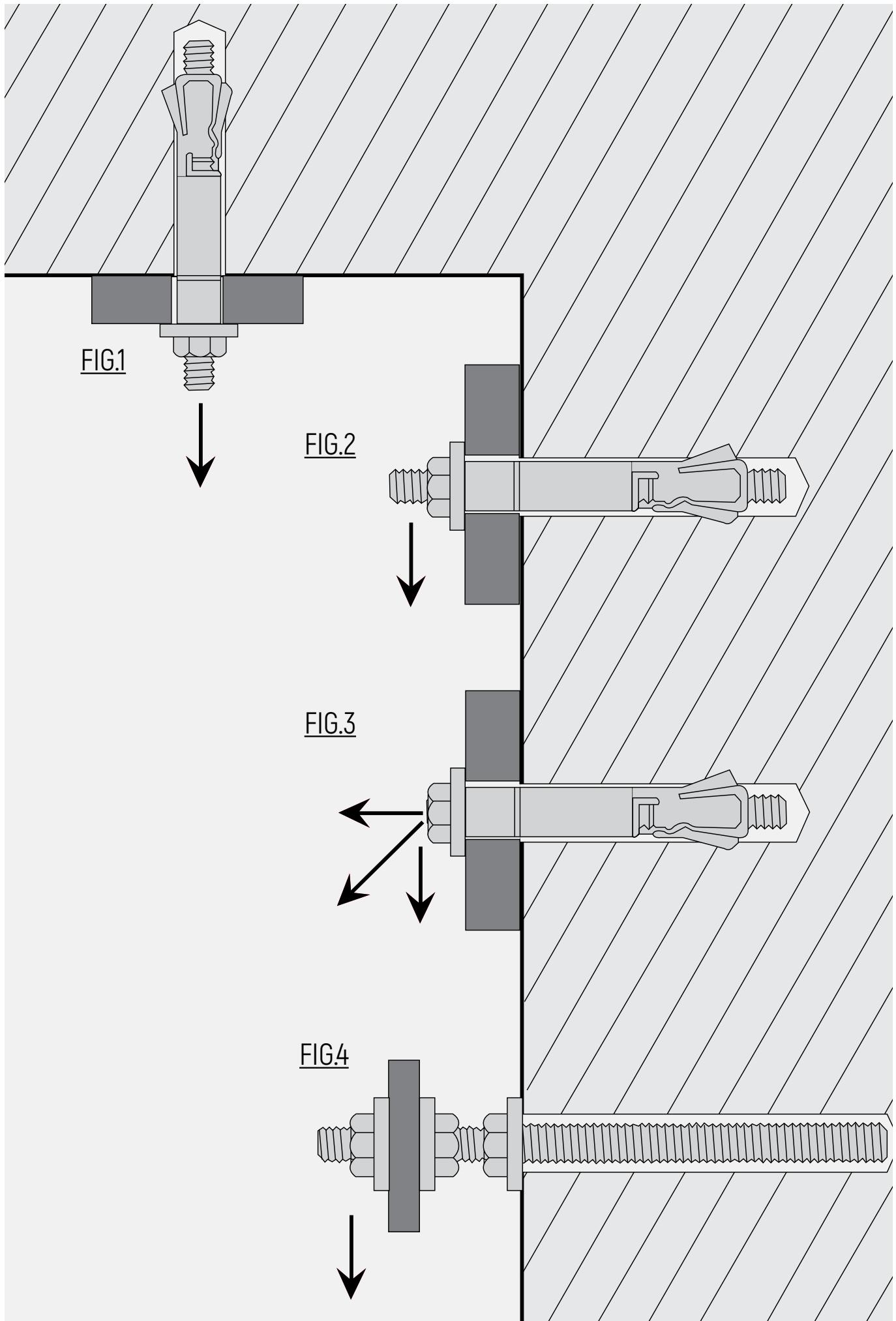
Slotted Holes in Fixture

When fixing anchors through slotted holes; it is important to ensure that there is an adequate surface contact between the washer and the fixture to guarantee a positive clamping force. If in doubt, a square plate washer with a thickness of 3mm or above would be recommended in place of the standard washer supplied.

Diamond Drilled Holes

When holes are formed in the structure using a diamond drilling system; extra care is required to ensure the holes are thoroughly cleaned by brushing and blowing for at least three times.

Also, to make a key for the anchor (particulary if a bonded anchor is installed) the sides of the hole shall be roughened up by inserting a standard masonry bit into the hole attached to a hammer action drilling machine. A resin with minimal shrinkage shall be selected for diamond drilled holes.



Expansion Steel Anchor - STM

Typical Applications:

Cable trays, handrails, brackets, staircases, ladders, machines, window panels, base plates, scaffoldings and frameworks.

STM

Expansion Steel Anchor



STM/H



Features:

- Suitable for all screws or threaded bolts with metric thread.
- Low energy impact, power-saving assembly.
- Multiple removing and fixing.
- Inside threaded anchor, allows great flexibility.
- Can use variable lengths and art of threaded rods or bolts.
- Small edge distance and small distance between anchors.
- Provide uniform load by tightening the screw or hexagon nut, the cone pulls into the expansion anchor and tightens against the drilled hole.
- Suitable for use in concrete and natural stone.

Materials:

- zinc plated steel.
- stainless steel [SS 304 (A2), SS 316 (A4)].

Technical Data:

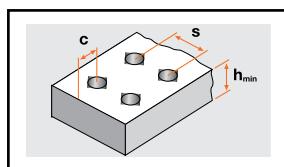
Recommended loads (non-cracked concrete C 20/25).

Type (order No)	Tension Load (kN)	Shear Load (kN)	Torque Moment (Nm)	Screw Grade
M6	2.5	2.3	10	4.6
M8	3.3	44	17	4.6
M10	4.7	6.5	34	4.6
M12	6.9	8.5	60	4.6

*for cracked Concrete we shall use 0,5 x this value (approximately)

Setting Data:

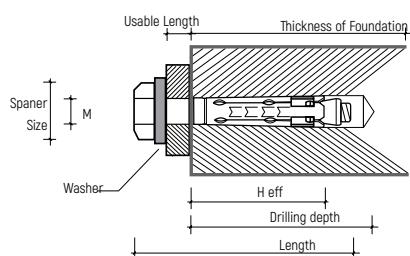
Edge distance > 1,5 x H eff, distance between anchors > 3 x H eff.
Thickness of foundation > 2 x H eff.



Size	H eff. (mm)	Edge Distance C (mm)	Distance Between Anchors S (mm)	Thickness of Foundation h_min (mm)	Washer Ø	Tightening Torque (Nm)	Spanner size (mm)
M6	40	60	120	100	x 1.6 12	10	10
M8	45	68	135	100	x 1.6 16	20	13
M10	55	83	165	110	x 2.0 20	40	17
M12	70	105	210	140	x 2.5 24	75	19

Installation Parameters:

H eff = Effective anchorage depth.



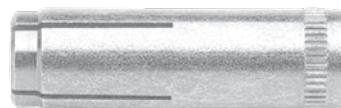
Bolt Size	Length exp.unit (mm)	Drill Ø (mm)	Drilling depth (mm)	H eff. (mm)	Usable Length (mm)	Screw Ø x Length (mm)
M6	45	10	55	40	5	M6 x 50
M8	50	12	60	45	10	M8 x 60
M10	60	15	80	55	20	M10 x 80
M12	75	18	90	70	25	M12 x 90

Drop in Anchor - SDA

Typical Applications:

- Pipes, ventilation ducts, suspended ceilings, sprinkler systems, brackets, threaded rods, cable trays.

SDA



Features:

- Provides permanently fixed threaded socket in concrete.
- Use in non-cracked concrete or cracked concrete and natural stone.
- The anchor will spread and tighten against the drilled hole after inserting with setting tool.
- Low setting depth, reduced drilling time.
- Enables cost-effective assembly .
- Multiple removing and fixing.

Materials:

- zinc plated steel.
- stainless steel [SS 304 (A2) , SS 316 (A4)].

Technical Data:

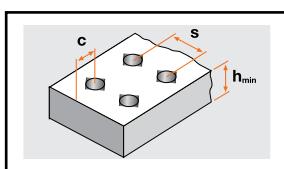
Recommended loads (non-cracked concrete C 20/25).

Threaded size	Tension Load (kN)	Shear Load (kN)	Torque Moment (Nm)
M6	2.0	1.2	4.0
M8	3.5	2.2	8.0
M10	4.25	3.5	15.0
M12	5.55	5.0	35.0

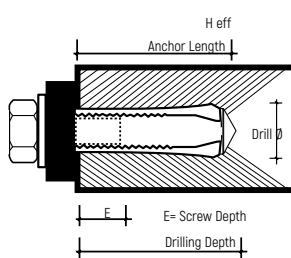
*for cracked Concrete we shall use 0,5 x this value (approximately)

Setting Data:

Edge distance > 1.5 x effective anchorage depth, distance between anchors > 3,0 x effective anchorage depth, min. thickness of foundation > 2,5 x H eff.



Size	H eff. (mm)	Edge Distance C (mm)	Distance Between Anchors S (mm)	Thickness of Foundation h_min (mm)	Tightening Torque (Nm)	Spanner size
M6	25	37.5	75	100	4	10
M8	30	45	90	100	9	13
M10	40	60	120	130	17	17
M12	50	75	150	140	30	19



Installation Parameters:

H eff = Effective anchorage depth.

Thread Size	Anchor Length (mm)	Thread Length (mm)	Drill Ø (mm)	Drilling Depth (mm)	Effective Anchorage Depth H eff. (mm)	Min. Screw Depth E (mm)	Max. Screw Depth E (mm)
M6	25	11	8	25	25	6	12
M8	30	13	10	30	30	8	13
M10	40	15	12	40	40	10	17
M12	50	20	16	50	50	12	18

Sleeve Anchor - SAS

Typical Applications:

Uni-channel ,railings, steel constructions , machines, high-racks, cable support systems and mechanical fixations.

SAS



Features:

- Suitable for use in concrete, natural stone, brickwork and blockwork- small distance between anchors.
- Optimum performance in most base material types.
- No protruding threads after installation.
- Small distance between anchors and from edge.
- Controlled expansion.
- Zinc plated > 5µm.
- Effective force distribution in the drilled hole.
- Sleeve anchor with hexagon screw or with threaded bolt.

Materials:

- zinc plated steel.
- stainless steel [SS 304 (A2) , SS 316 (A4)].

Technical Data:

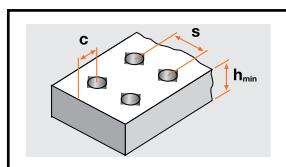
Recommended loads (non-cracked concrete C 20/25).

Bolt Size	Tension Load (kN)	Shear Load (kN)	Torque Moment (Nm)
M6	140	2.0	10
M8	245	3.3	25.0
M10	3.5	5.0	40.0
M12

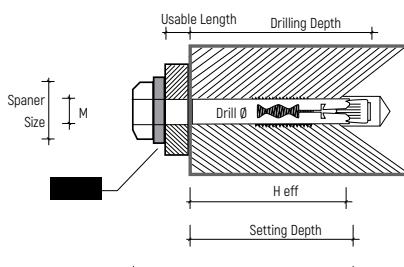
*for cracked Concrete we shall use 0,5 x this value (approximately)

Setting Data:

Edge distance > 1.5 x effective anchorage depth, distance between anchors > 3,0 x effective anchorage depth, min. thickness of foundation > 2,5 x H eff.



Bolt Size	H eff. (mm)	Edge Distance C (mm)	Distance Between Anchors S (mm)	Thickness of Foundation h_min (mm)	Washer Ø (mm)	Tightening Torque (Nm)	Spanner size
M6	35	52.5	105	70	x 1.6 18	8	10
M8	40	60	120	80	x 1.6 16	25	13
M10	50	75	150	100	x 2.0 20	40	17
M12	75	112.5	225	150	x 2.0 26	50	19



Sleeve Anchor - SAS:

with hexagon screw (non-cracked concrete C20/25).

Size	Length (mm)	Drill Ø (mm)	Hole Ø in Fixture (mm)	Drilling Depth (mm)	Setting Depth (Ø)	H eff. (mm)	Min.Usable Length (mm)
M6	45	8	10	55	35	35	5
M6	60	8	10	55	35	35	15
M8	60	10	12	60	40	40	15
M8	80	10	12	60	40	40	25
M10	70	12	14	70	50	50	15
M10	100	12	14	70	60	50	35

*for cracked Concrete we shall use 0,5 x this value (approximately).

Through Bolt (Wedge Anchor) - STB

Typical Applications:

Uni - channel, hand rails, steel construction, cable trays, supports, bracket, ducts and shelf feet.

STB

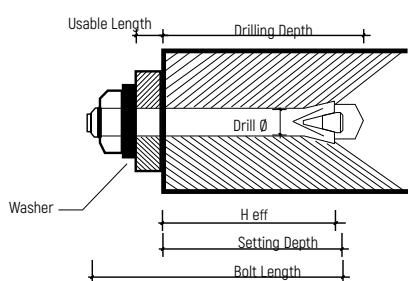
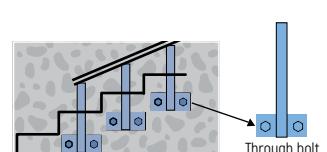
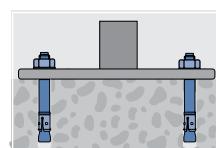
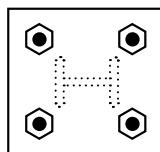


Features:

- Suitable for use in cracked concrete or in non-cracked concrete and in natural stone.
- Special design of the clip in stainless steel which ensures a safe hold in the hole.
- Torque controlled expansion.
- Zinc plated > 5µm.
- User friendly, face fixing or through fixing.

Materials:

- zinc plated steel.
- stainless steel [SS 304 (A2) , SS 316 (A4)].



Technical Data:

Through bolt zinc plated (non-cracked concrete C20/25).

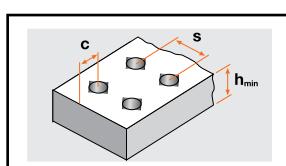
Bolt Size	Tension Load (kN)	Shear Load (kN)	Torque Moment (Nm)
M6	2.0	1.90	4.0
M8	4.0	4.0	15.0
M10	5.95	5.95	30.0
M12	7.5	10.0	50.0
M16	12.0	16.0	100

*for cracked Concrete we shall use 0,5 x this value (approximately)

Setting Data:

Edge distance > 1,5 H eff., distance between anchors > 3 x H eff.

Thickness of foundation > 2 x H eff.



Bolt Size	H eff. (mm)	Edge Distance C (mm)	Distance Between Anchors S (mm)	Washer (Ø)	Thickness of Foundation h_min (mm)	Tightening Torque (Nm)	Spanner Size
M6	40	60	120	x 1.6 12	100	7	10
M8	50	75	150	x 1.6 16	100	14	13
M10	58	87	174	x 2.0 20	120	30	17
M12	68	102	204	x 2.5 24	140	35	19
M16	80	120	240	x 3.0 30	160	80	24

Shield Anchor - SHA

Typical Applications:

For fixing : steel construction, handrail, console, bracket, ladders, gate and spacing design.

SHA

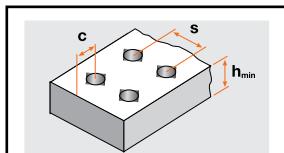


Features:

- Assembly detachable, multiple removing and fixing.
- Low energy impact, power-saving assembly.
- Force controlled expansion.
- Flexibility inside threaded anchor.
- Variable length and art of threaded rods or bolts.
- By tightening the screw, the cone pulls into the sleeve and tense against the drill hole.
- Small edge distance and small distance between anchor.
- Expansion elements are held together by a spring.
- Optimum taper nut angle for maximum expansion.
- Pressed steel segment ensure consistent dimensional accuracy.
- Provide a projecting stud to support fixture during installation and removal.
- Suitable for use in concrete, natural stone, Brick and sand stone.

Materials:

- zinc plated and die-cast.



Technical Data:

Recommended loads (concrete C 20/25 and in brick work).

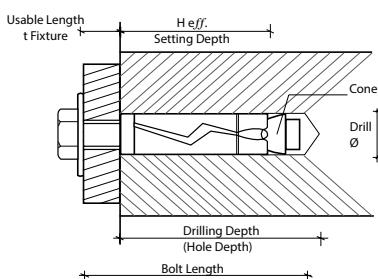
Bolt Size	Tension Load (kN)	Shear Load (kN)	Torque Moment (Nm)
M6	1.2	1.2	10
M8	1.6	1.6	25
M10	3.2	3.2	40
M12	4.8	4.8	60

*for cracked Concrete we shall use 0,5 x this value (approximately)

Setting Data:

Edge distance > 1,5 x H eff., distance between anchors > 3 x H eff.

Thickness of foundation > 2 x H eff.



Bolt Size	H eff. (mm)	Edge Distance C (mm)	Distance Between Anchors S (mm)	Thickness of Foundation h_min (mm)	Washer (Ø) [mm]	Tightening Torque (Nm)	Spanner size
M6	52.5	105	70	35	x 1.6 18	8	10
M8	60	120	80	40	x 1.6 16	25	13
M10	75	150	100	50	x 2.0 20	40	17
M12	90	180	120	60	x 2.0 26	50	19

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