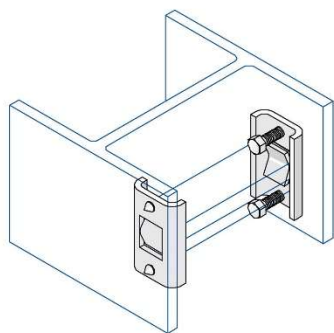


GIRDER CLAMPS-SSS53

(Metric Size)



FINISH

Zinc Plated - Z

Pre-Galvanized - PG

Hot-Dip Galvanized - H

Zinc Flake Coating - ZF

Stainless Steel Type 304 - S4

Stainless Steel Type 316 - S6

LOADING DATA

Part No	Channel type	Pull out load KN	Slip load	Packing /Pallet
SSS 53/H	41X41X2.5	4.41	3.53	10
SSS 53/H	41X41X1.5	2.11	1.32	10
SSS 53S6	41X41X2.5	4.41	3.53	10
SSS 53S6	41X41X1.5	2.11	1.32	10
SSS 53Z	41X41X2.5	4.41	3.53	10
SSS 53/H	41X41X1.5	2.11	1.32	10

DESCRIPTION

MATERIAL

Unless otherwise noted, all fittings are punch press formed from plate or strip steel.

FITTING APPLICATION

All product drawings illustrate only one application of each fitting. In most cases many other applications are possible. The members shown in the illustrations are SC 41/2.5, except where noted otherwise. All 14mm diameter holes use M12 x 24 hex head set screws and M12 nuts - CNL 12, CNS 12 - depending on the Strut used. Nuts and bolts are not included with the fitting and must be ordered separately.

DESIGN LOAD DATA

Design load data, where shown, is based on the ultimate strength of the connection with a safety factor of 2.5.

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Standard Dimensions for 15/8" (41mm) width series channel fittings (Unless Otherwise Shown on Drawing) hole Diameter: 9/16" (14mm); hole spacing - From end: 13/16" (21mm); hole spacing - On Center : 17/8" (48mm); Width: 15/8"(41mm); thickness: 1/4" (6mm)

Manufactured to BSEN 6946 :1988

MATERIAL : Fittings, unless noted, are made from hot-rolled, pickled and oiled steel plates, strip or coil, and conform to ASTM specifications A575, A576, A635, or A36 / BS EN 10025 / S315MC OR grade S275 mild steel. Stainless Steel fittings are available to EN10088-2 grade 1.4404 (Grade 316L). The fitting steel also meets the physical requirements of ASTM A1011 SS GR 33. The pickling of the steel produces a smooth surface free from scale. Many fittings are also available in stainless steel, aluminium and fiberglass. Consult our manufacturing for ordering information.

Mild steel channels are rolled using material formed from BS EN 10025 with guaranteed yield 280N/mm² and minimum ultimate tensile strength of 370N/mm². Stainless steel channels are rolled using material formed from BS EN10088-2 grade 1.4404 (Grade 316L).

FINISH :

Electro-galvanized (Z) : An alternative to a Pre Galvanised product and generally used for internal applications. Zinc Plated applications are often used in sterile environments. Conforming to ASTM B633 Type III SC1/AS1789 /EN ISO 2178 . Strut, fittings and components are electroplated generally in accordance with AS1789. Fasteners are electroplated generally in accordance with AS1897

Hot-dipped galvanized (H) : Processed in accordance with BS EN ISO 1461: 2009/ ASTM A123 / A153/AS/NZS4680 It is an excellent solution for outdoor environments and has a unique metallurgical structure which gives outstanding resistance to mechanical damage. *55µm minimum thickness.

Plain Oiled (PO) : Plain oil to BS EN 10025 standards. Pickled & Oiled with a min. yield 280 n/mm². Excellent for welding and finishing on site. Ideal base for powder coating and other surface finishes

Power Coated (PC) : A variety of powder coating finishes are available. Often used to provide a pleasing aesthetic finish to projects such as shops and retail environments. Strut and parts are carefully cleaned and phosphated. Immediately after phosphating, a uniform coat of thermosetting polyester powder is electrostatically applied then baked. Minimum coating thickness to exterior surfaces is 50 microns. The polyester coating is ultra-violet stabilised.

Pre-galvanise (PG) : The most popular finish, generally used for internal applications. Pre Galvanised to Z275- BS EN 10346 1.0244 / AS1397 /Z275 standards. Supplied with a zinc coating to a nominal coat of 20µm.

STAINLESS STEEL 304 (S4) : Excellent for marine applications . Pickle & Passivate is available upon request.

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STAINLESS STEEL 316 (S6) : Stainless steel to 1.4404 (316L) BS EN10088-2 standards. Excellent for marine applications and extreme environmental conditions. Pickle & Passivate is available upon request. The material is slit to width and roll formed to shape. Grade 316 stainless steel has excellent corrosion resistance and has advantages over grade 304 stainless steel,

such as:

- Resistance to pitting and crevice corrosion in chloride environments.
- Superior resistance to ordinary rusting in most applications.
- Regularly used in aggressive coastal and marine environments.
- Highly recommended for food processing environments where it can be easily cleaned and has a greater resistance to organic and
- inorganic chemical substances.

Aluminium (AL) : Aluminium Struts & Accessories are manufactured from high strength alloy 6106-T6 for all extruded components and 5005 for sheet or plate components. These alloys are suitable for marine applications and offer excellent all round corrosion resistance.

Zinc Flake/Aluminium (ZF) : Coated to standard EN10346-2015 ,Zinc-Aluminium offers excellent coating resistance compared to traditional Zinc coatings. Zinc Aluminium typically offers a coating which is 95% Zn & 5% Al. Perfect for outdoor applications.

Zinc Magnesium (ZM) : Coated to standard EN10346-2015, Zinc-Aluminium-Magnesium is a coating whose main component is zinc, and the content of aluminium and magnesium is between 1.5-8% (where the magnesium content is not less than 0.2%). Compared with traditional coatings such as Hot-Dip Galvanising and Pre-Galvanised Steel, Zinc-Aluminium-Magnesium coated steels boast better corrosion resistance and self-healing properties. Ideal for extreme environmental conditions or high specification applications.

Zinc Dichromate (ZM) : Often used for clean rooms, Data Centres and other sterile environments.

Electro Deposition (ED) : ED-coating is a method of painting which uses electrical current to deposit the paint. The process works on the principal of "Opposites Attract".

Fibre Reinforced Plastic (FRP) : Polyester and vinyl ester channels are manufactured from the pultrusion process and are color coded gray and beige respectively. Components are made by reinforcing a polymer resin (polyester or vinyl ester) with multiple strands of glass filament, alternating layers of glass mat and U.V. resistant surfacing veils. The glass is drawn through the liquid resin, which coats and saturates the Fibers. The combination of resin, glass and veil is then continuously guided and pulled (pultruded) through a heated die that determines the shape of the component. In the die, the resin is cured to form a reinforced part which can be cut to length. The hardened fiberglass pultrusion is reinforced with an internal arrangement of permanently bonded continuous glass fibers to increase its strength.

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