

Overview

Finishes

1. Galv-Krom®

Commonly referred to as “gold,” the Galv-Krom® finish is a combination of .5 mils electro-plated zinc and a gold trivalent chromium finish, offering superior rust protection and excellent electrical conductivity.

2. SilverGalv® (Suffix EG)

Often referred to as “zinc plated” or “electroplated zinc,” the SilverGalv® finish applies .5 mils of zinc and a clear conversion coat. Electro-galvanizing is available for channel as well as small fittings, hardware and threaded products.

3. Pre-galvanized Steel (Suffix PG)

In addition to the standard Galv-Krom® finish, all Kindorf® channels are available in pre-galvanized steel. This material is identical to the standard steel except for its ASTM G-90 zinc coating. This coating is applied at the steel mill prior to the channel fabrication.

4. Green Coated (Suffix GR)

Green urethane powder resins are applied electrostatically to the steel after fabrication. Once the material is completely covered with the powdered-form urethane, it proceeds through a 400° baking process for ten minutes, creating a chemical bond. This results in a minimum of 1.5 mil thickness of urethane coating providing excellent resistance to chipping or peeling.

5. Hot-Dipped Galvanized (Suffix HD)

The material is zinc coated after fabrication providing total product protection on all surfaces. The fabricated channel or fitting is suspended and then dipped into tanks of hot zinc for a prolonged period, creating a coherent bond. The result is superior corrosion resistance as compared to pre-galvanized material. Hot-dipped galvanizing is not recommended for threaded products, considering the zinc coating thickness will often disrupt the threads.

Kindorf® hot-dipped galvanized channel is in conformance with ASTM Specifications A-123 (formerly A-386) and A-153.

Kindorf® channels maintain a minimum 1.5 ounces of zinc per square foot of steel or 2.5 mils (ASTM A-123, Thickness Grade 65). This finish is also referred to as “Hot-dipped galvanized after fabrication.”

6. PVC Coated (Prefix P)

A polyvinyl chloride (PVC) plastic coating is fused to the channel, fitting or accessory after fabrication by immersing the part in fluidized PVC tanks. The fused-melt mixed powder PVC coating thickness is 15 mils (.015") plus or minus five mils. PVC material is a thermoplastic and will soften in high temperatures. An inherent weakness with PVC coatings occurs when field alterations are applied, such as cutting or drilling. These acts disrupt the sealed PVC product and warrant field touch-up. Thomas & Betts cannot be held responsible for field-altered PVC coated products.

Materials

1. Standard Steel

The standard Kindorf® Channel is made from high-quality ASTM A570 Grade 40 carbon steel sheet. These sections are cold formed into a unique and modular profile by an efficient roll forming process. Additionally, the process “cold works” the steel to give it greater mechanical properties.

2. Extruded Aluminum (Suffix AL)

For more corrosive environments, T&B also offers extruded aluminum channel sections. These section are nearly identical to their steel counterparts. Aluminum channel is made from 6063 Aluminum and heat treated to a T-6 specification.

3. Non-Metallic (Suffix N)

Kindorf® channels are also available in fiberglass-reinforced polyester and vinylester. These products are pultruded into shapes similar to steel channels. They offer a high degree of corrosion protection and are very lightweight.

4. Stainless Steel (Suffix SS)

For the most corrosive environments, T&B offers Type 304 Stainless Steel channel sections and accessories. Type 316 stainless available upon request. Contact your local sales rep. These products are identical to their carbon steel counterparts except for a much greater corrosion resistance.

Warning

Load tables, charts and design criteria provided in this catalog are intended as guides only. Selection of proper product, installation intervals, erection and placement are the responsibility of the user.

Kindorf® products are intended to be used for the support and bracing of fixtures, cable, pipe and conduit. Improper use or installation may result in injury to persons or damage to property.

Material and finish specifications are subject to change without notice.

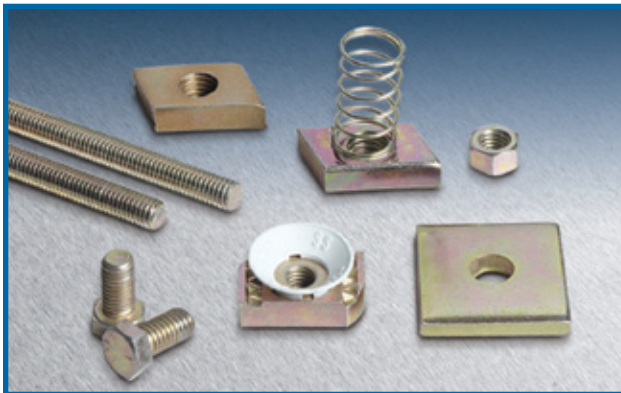
Channels, Nuts and Fittings

Channel Nuts

Kindorf® Channel Nuts are manufactured from mild steel and are case hardened.

Design Data

Kindorf® self-aligning channel nuts are designed to provide resistance to pull out and resistance to side slip in excess of the full strength of the channels with which they are used. The extreme resistance to side slip results from the unique design of the alternate teeth, spaced and designed to develop a wedging action that increases with pressure or load.



Load Ratings of Steel Channel and Insert Nuts

(B-910-1/2 or B-911-1/2) when used in slot of 12 ga. Kindorf® channel and tightened to a torque of 50 ft. Pounds are as follows:

Withdrawal resistance to pull out safe-load rating = 1,600 lbs.
Slip resistance safe-load rating = 400 lbs.

(B-910-1/2 or B-912-1/2) when used in slot of 14 ga. Kindorf channel and tightened to a torque of 50 ft. Pounds are as follows:

Withdrawal resistance to pull out safe-load rating = 1,300 lbs.
Slip resistance safe-load rating = 400 lbs.

Load ratings are based on safety factor of 3.

BC-910 Universal Cone Nut

Eliminates the inventory and installation hassles of conventional spring nuts. Fits all 1½" channel, regardless of depth, with a simple twist of your thumb. Pliable nylon cone secures the nut in place through the entire range of construction site temperatures.

Screw Threads

THREAD SIZE	B	J	C	D
Threads per inch	20	18	16	13
Design Torque (ft.-lbs.)	6	11	19	50

All threaded products are American Standard thread, free fit class 2.

Galv-Krom® hardware finish is standard for all Superstrut products. This is a multi-process finish of electro-plated zinc, followed by gold-colored trivalent chromium finish to give excellent corrosion resistance and a superior paint base.

Standard Finish — Galv-Krom®, unless otherwise stated.

Trapnut® Strut Fastener



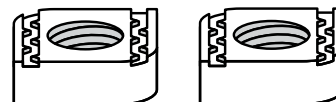
H 122 3/8
Trapnut® Strut
Fastener Galv-Krom®



H 122 3/8 EG
Trapnut® Strut
Fastener SilverGalv®

CAT. NO.	DESCRIPTION	SIZE (IN.)	DESIGN LOAD LBS.	STD. CTN.
H 122 1/4	¼" Galv-Krom®	¼"	150	50
H 122 3/8	¾" Galv-Krom®	¾"	590	50
H 122 1/2	½" Galv-Krom®	½"	1,080	50
H 122 1/4 EG	¼" SilverGalv®	¼"	150	50
H 122 3/8 EG	¾" SilverGalv®	¾"	590	50
H 122 1/2 EG	½" SilverGalv®	½"	1,080	50
H 122 1/4 SS6	¼" Type 316 Stainless Steel	¼"	150	50
H 122 3/8 SS6	¾" Type 316 Stainless Steel	¾"	590	50
H 122 1/2 SS6	½" Type 316 Stainless Steel	½"	1,080	50

Channel Nuts — Standard Finish: Galv-Krom® B-910 Series



For use with all Kindorf® channels

CAT. NO.	SIZE (IN.)	THICKNESS (IN.)	WT. LBS./C
B 910 1/4	¼–20	⅜	7.5
B-910-5/16	⅝–18	⅝	7.3
B-910-3/8	¾–16	⅝	9.15
B-910-1/2	½–13	¾	9.9

Load Ratings for B-910 Strut Nuts

CHANNEL NUT SIZES	SLIP TEST RATING	PULL TEST RATING (IN.)
¼	300	500
¾	750	1000
½	1,200	2000

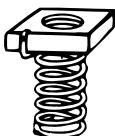
If connections will be subjected to dynamic or seismic loading conditions, contact the factory for design assistance.

1. All ratings have safety factor of 3 applied.
2. Load ratings are for Static Applications.

Channels, Nuts and Fittings

B-911 Series

Self-holding clamping nut with spring attached.
For use with 1½" deep channels.

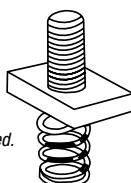


CAT. NO.	SIZE (IN.)	THICKNESS (IN.)	WT. LBS./C
B 911 1/4	¼-20	⅜	8
B-911-5/16	⅝-18	⅝	8.25
B-911-3/8	¾-16	⅝	10
B-911-D-3/8*	¾-16	⅝	12
B-911-1/2	½-13	¾	10
B-911-D-1/2*	½-13	¾	13

* For clamping nuts with spring for 3" deep channels add suffix D to catalog number.

B-911-SN Series

Stud nut self-holding clamping nut with spring attached.



CAT. NO.	SIZE (IN.)	THICKNESS (IN.)	WT. LBS./C
B 911 3/8 SN1†	¾-16	⅝	12.5
B-911-3/8-SN2†	¾-16	⅝	13.0
B-911-1/2-SN1†	½-13	¾	16.0
B-911-1/2-SN2†	½-13	¾	17.0

†B-911-3/8-SN1, Stud: ⅝ Dia., 1" Long and B-911-3/8-SN2, Stud: ⅝ Dia., 1¼" Long.

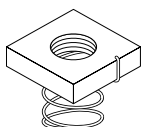
Accepts Kindorf® Nuts H-114C (hex), H-116-C (square).

B-911-1/2-SN1, Stud: ½ Dia., 1" Long. and B-911-1/2-SN2, Stud: ½ Dia., 1¼" Long.

Accepts Kindorf® Nuts H-114D (hex), H-116-D (square).

B-912 Series

Self-holding clamping nut with spring attached.
For use with ¾" deep channels.



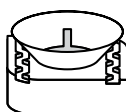
CAT. NO.	SIZE (IN.)	THICKNESS (IN.)	WT. LBS./C
B 912 1/4	¼-20	⅜	8.0
B-912-5/16	⅝-18	⅝	7.5
B-912-3/8	¾-16	⅝	9.5
B-912-1/2	½-13	¾	9.8

Standard finish: Galv-Krom®

BC-910 Series

- Universal nylon cone nut
- Sizes: ¼", ⅜" & ½"

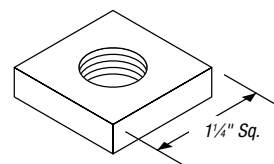
For all 1¼" & 1½" channels. May be used with ALL strut depths



CAT. NO.	SIZE (IN.)	FINISH
BC910 1/4	¼-20	Galv-Krom®
BC910 3/8	¾-16	Galv-Krom®
BC910 1/2	½-13	Galv-Krom®

B-914 Series

Square nuts for use with channel and spot-type concrete inserts.

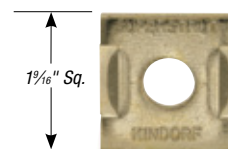


CAT. NO.	SIZE (IN.)	THICKNESS (IN.)	WT. LBS./C
B 914 1/4	¼-20	⅜	10.50
B-914-3/8	¾-16	⅝	13.25
B-914-1/2	½-13	¾	14.00
B-914-5/8	⅝-11	¾	14.00
B-914-3/4	¾-10	¾	12.00
B-914-7/8	⅞-9	¾	10.50
B-914-3/8P	¾-18**	¾	12.00
B-914-1/2P	½-14**	¾	11.00

** Standard Pipe Threads.

Standard finish: Galv-Krom®.

Located Square Washers

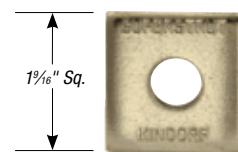


CAT. NO.	BOLT SIZE (IN.)	STD. CTN.
AB-241L-1/4	¼	100
AB-241L-5/16	⅝	100
AB-241L-3/8	¾	100
AB-241L-1/2	½	100
AB-241L-5/8	⅝	100

GoldGalv® is standard finish.

Add "EG" suffix for SilverGalv®.

Square Washers



CAT. NO.	BOLT SIZE (IN.)	STD. CTN.
AB-241-1/4	¼	100
AB-241-5/16	⅝	100
AB-241-3/8	¾	100
AB-241-1/2	½	100
AB-241-5/8	⅝	50

GoldGalv® is standard finish.

Add "EG" suffix for SilverGalv®.