

Design Loads:

Channel	Channel Nut Size-Thread	Gauge	Allowable Pull-Out Strength Lbs (kN)	Resistance to Slip Lbs (kN)	Torque Ft-Lbs (N•m)
P1000 P3000 P4400 P4526 P5000 P5500	7/8" - 9	12	2,500 11.12	1,700 7.56	*125 170
	3/4" - 10	12	2,500 11.12	1,700 7.56	*125 170
	5/8" - 11	12	2,500 11.12	1,500 6.67	*100 135
	1/2" - 13	12	2,000 8.90	1,500 6.67	50 70
	7/16" - 14	12	1,400 6.23	1,000 4.45	35 50
	3/8" - 16	12	1,000 4.45	800 3.56	19 25
	5/16" - 18	12	800 3.56	500 2.22	11 15
	1/4" - 20	12	600 2.67	300 1.33	6 8
P3300	1/2" - 13	12	1,500 6.67	1,500 6.67	50 70
	3/8" - 16	12	1,000 4.45	800 3.56	19 25
	5/16" - 18	12	800 3.56	500 2.22	11 15
	1/4" - 20	12	600 2.67	300 1.33	6 8

Channel	Channel Nut Size-Thread	Gauge	Allowable Pull-Out Strength Lbs (kN)	Resistance to Slip Lbs (kN)	Torque Ft-Lbs (N•m)
P1100 & P4100	1/2" - 13	14	1,400 6.23	1,000 4.45	50 70
	3/8" - 16	14	1,000 4.45	750 3.34	19 25
	5/16" - 18	14	800 3.56	400 1.78	11 15
	1/4" - 20	14	600 2.67	300 1.33	6 8
P2000 & P4000	1/2" - 13	16	1,000 4.45	1,000 4.54	50 70
	3/8" - 16	16	1,000 4.45	750 3.34	19 25
	5/16" - 18	16	800 3.56	400 1.78	11 15
	1/4" - 20	16	600 2.67	300 1.33	6 8

* May require 3/8" or 1/2" thick fitting.

Nut design loads include a minimum safety factor of 3.

Note: Refer to the Channel Nut Selection Chart on the following two pages for the part number.

Notes:

Design loads apply only to Unistrut brand products. Look for "UNISTRUT" on the part.

The loads in the above table do not apply to Stainless Steel and Aluminum Channel Nuts.

Threads:

Threads meet the Unified Screw Thread standard, ANSI B1.1, coarse series (UNC) class 2.

Channel Nuts are also available in many standard metric sizes.

Design Bolt Torque:

BOLT SIZE	1/4"-20	5/16"-18	3/8"-16	1/2"-13	5/8"-11	3/4"-10
Rec. Torque Ft/Lbs (N•m)	6 (8)	11 (15)	19 (26)	50 (68)	100 (136)	125 (170)
Max Torque Ft/Lbs (N•m)	7 (9)	15 (20)	25 (34)	70 (95)	125 (170)	150 (203)