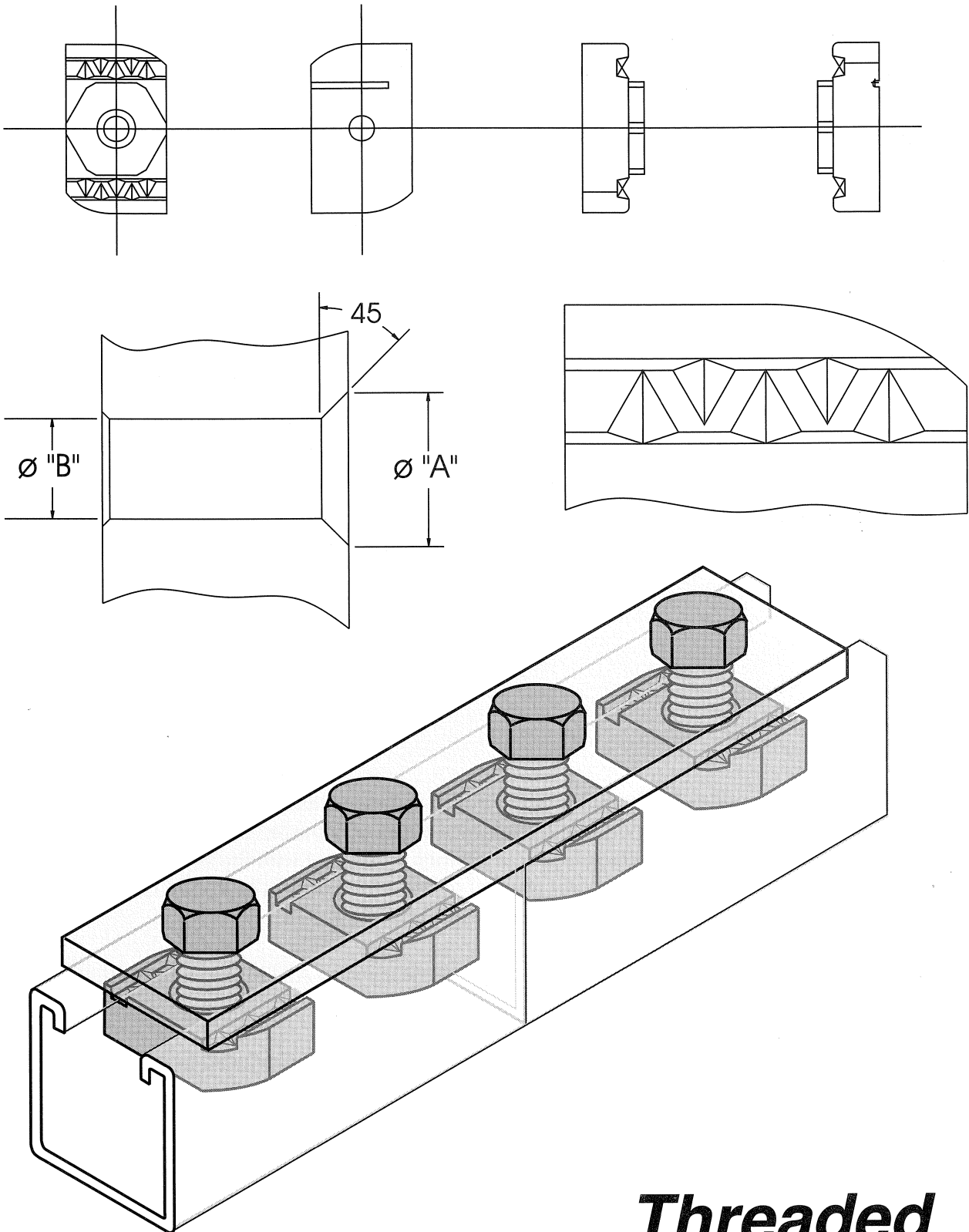




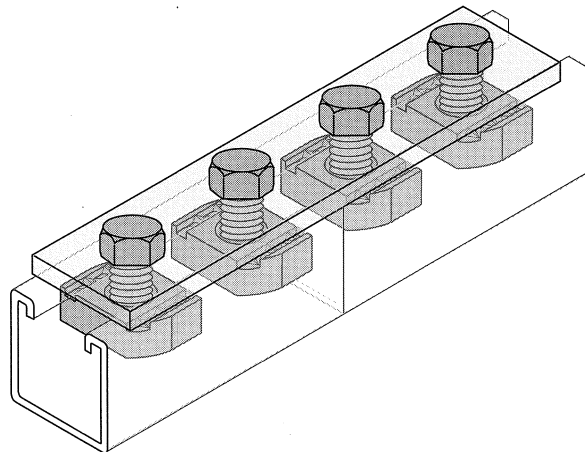
Threaded Fasteners Section B



VERSABAR CORPORATION

SECTION "B" INTRODUCTION

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VXE Swivel Eyelets	B-10



Material:

Versabar lateral locking channel nuts are cold pressed, punched, tapped, and cyanide hardened, so that their teeth will provide a positive "biting" action into the inturned edges of Versabar channel sections. The nut bodies are designed with beveled ends which lock into position by contact with the interior side walls of the channel when turned 90°. Standard carbon steel channel nuts conform to ASTM #A576 GR 1015. Selected nuts are also stocked in aluminum, as well as stainless steel types 304 & 316.

Finishes:

Standard finish on carbon steel nuts is Electro-Galvanized conforming to ASTM B633 Type III SC1. We also offer a hot-dipped galvanized finish on selected nuts.

Dimensions:

All imperial dimensions provided are in inches. Metric dimensions are also included in parenthesis. Unless noted, metric dimensions are in millimeters.

Threads:

Unless noted otherwise, fasteners and channel nuts shown in this section are U.S. Coarse thread.

Torque:

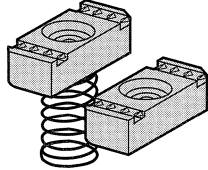
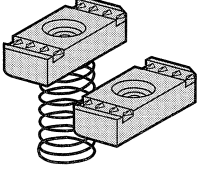
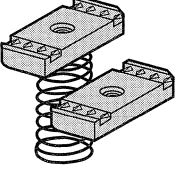
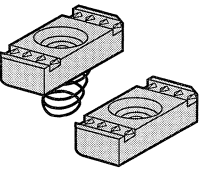
Fastener diameter dictates desired torque.

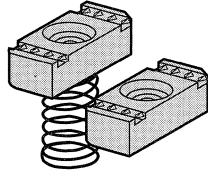
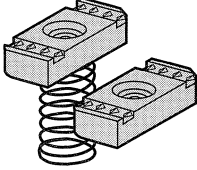
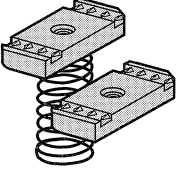
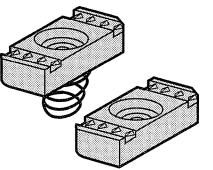
1/4"-20	6 ft/lbs.
5/16"-18	11 ft/lbs.
3/8"-16	19 ft/lbs.
1/2"-13	50 ft/lbs.
5/8"-11	100 ft/lbs.
3/4"-10	125 ft/lbs.

VERSABAR CORPORATION

LOAD BEARING DATA FOR CHANNEL NUTS



Design Loading - "Pull-Out" loading for channel nuts					
For 1-5/8" (41.3) deep channels				For 13/16" (20.6) deep channels	
NOTE: Design Loading figures provided on this page require a minimum 1/4" (6.35 mm) thick fitting mounted on the slot surface. Refer to footnote (A) below.					
	Channel Gauge & No.	<i>Ex: VSN-1050 or VN-1050</i>	<i>Ex: VSN-1037 or VN-1037</i>	<i>Ex: VSN-1025 or VN-1025</i>	Channel Gauge & No. <i>Ex: VSN-4050 or VN-4050</i>
	12 (VA-1)	2000 lb. (8.9 kN)	1100 lb. (4.9 kN)	550 lb. (2.45 kN)	12 (VA-13) 1400 lb. (6.23 kN)
	14 (VA-2)	1400 lb. (6.23 kN)	1000 lb. (4.45 kN)	550 lb. (2.45 kN)	14 (VA-4) 1400 lb. (6.23 kN)
	16 (VA-12)	1000 lb. (4.45 kN)	1000 lb. (4.45 kN)	550 lb. (2.45 kN)	16 (VA-5) 1000 lb. (4.45 kN)

Design Loading - "Slip Resistance" for channel nuts					
For 1-5/8" (41.3) deep channels				For 13/16" (20.6) deep channels	
NOTE: Design Loading figures provided on this page require a minimum 1/4" (6.35 mm) thick fitting mounted on the slot surface. Refer to footnote (A) below.					
	Channel Gauge & No.	<i>Ex: VSN-1050 or VN-1050</i>	<i>Ex: VSN-1037 or VN-1037</i>	<i>Ex: VSN-1025 or VN-1025</i>	Channel Gauge & No. <i>Ex: VSN-4050 or VN-4050</i>
	12 (VA-1)	1500 lb. (6.68 kN)	800 lb. (3.56 kN)	300 lb. (1.34 kN)	12 (VA-13) 1300 lb. (5.79 kN)
	14 (VA-2)	1000 lb. (4.45 kN)	700 lb. (3.12 kN)	300 lb. (1.34 kN)	14 (VA-4) 1000 lb. (4.45 kN)
	16 (VA-12)	1000 lb. (4.45 kN)	700 lb. (3.12 kN)	300 lb. (1.34 kN)	16 (VA-5) 1000 lb. (4.45 kN)

Note:

- 1.) Data compiled by independent testing services, records on file.
- 2.) Load bearing data is valid only if correct bolt torque is applied.
- 3.) Load bearing data is valid only if correct channel and nut combinations are used.
- 4.) **Do not apply load to nuts without a 1/4" (6.3mm) thick fitting, or bracket, properly mounted on the channel slot surface. Verify load rating of rods (and/or) bolts independently.**
- 5.) S.F. = 3

(A.) **WARNING:** All load bearing data is contingent upon basic assembly techniques as outlined on introduction page 4.

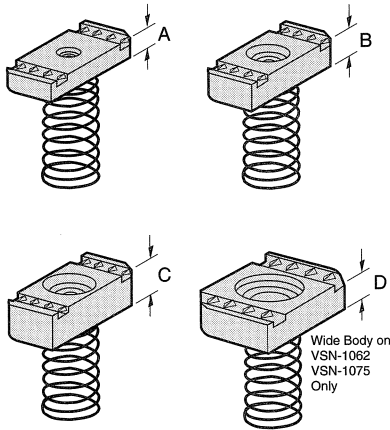


VERSABAR CORPORATION

PLATED NUTS WITH SPRINGS FOR 1-5/8" (41.3) WIDE CHANNEL

VSN-1000 Series Fits: VA-1, VA-2, VA-6, VA-7 & VA-12 Channel

These nuts fit all 1-5/8 wide channels which are 1-3/8" thru 1-5/8" deep.



Lateral Locking Nuts / Medium Spring

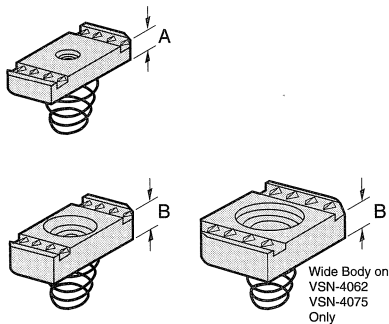
Part#	Thread Diameter	Blank Style & Thickness	Weight Per "C" Pcs.
VSN-1010-0832	No. 8-32	"A" 1/4" (6.35)	8 lbs. (3.63 kg)
VSN-1010-1024	No. 10-24	"A" 1/4" (6.35)	8 lbs. (3.63 kg)
VSN-1010-1032	No. 10-32	"A" 1/4" (6.35)	8 lbs. (3.63 kg)
VSN-1025**	1/4" -20	"A" 1/4" (6.35)	8 lbs. (3.63 kg)
VSN-1031	5/16"-18	"B" 3/8" (9.53)	9 lbs. (4.09 kg)
VSN-1037**	3/8" -16	"B" 3/8" (9.53)	10 lbs. (4.54 kg)
VSN-1044	7/16"-14	"B" 3/8" (9.53)	10 lbs. (4.54 kg)
VSN-1050**	1/2" -13	"C" 1/2" (12.7)	12 lbs. (5.45 kg)
VSN-1062*	5/8" -11	"D" 7/16" (11.1)	20 lbs. (9.08 kg)
VSN-1075	3/4" -10	"D" 7/16" (11.1)	18 lbs. (8.17 kg)

**Available in Stainless, Aluminum and Hot Dipped Galvanized

* Available in Stainless

VSN-4000 Series Fits: VA-4, VA-5, VA-8, VA-10 & VA-13 Channel

These nuts fit all 1-5/8 wide channels which are 13/16" thru 1" deep.



Lateral Locking Nuts / Short Spring

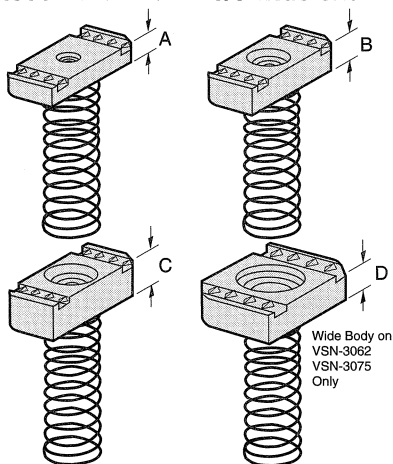
Part#	Thread Diameter	Blank Style & Thickness	Weight Per "C" Pcs.
VSN-4010-0832	No. 8-32	"A" 1/4" (6.35)	8 lbs. (3.63 kg)
VSN-4010-1024	No. 10-24	"A" 1/4" (6.35)	8 lbs. (3.63 kg)
VSN-4010-1032	No. 10-32	"A" 1/4" (6.35)	8 lbs. (3.63 kg)
VSN-4025*	1/4" -20	"A" 1/4" (6.35)	8 lbs. (3.63 kg)
VSN-4031	5/16"-18	"B" 3/8" (9.53)	9 lbs. (4.09 kg)
VSN-4037*	3/8" -16	"B" 3/8" (9.53)	10 lbs. (4.54 kg)
VSN-4044	7/16"-14	"B" 3/8" (9.53)	10 lbs. (4.54 kg)
VSN-4050*	1/2" -13	"B" 3/8" (9.53)	9 lbs. (4.09 kg)
VSN-4062	5/8" -11	"B" 3/8" (9.53)	13 lbs. (5.90 kg)
VSN-4075	3/4" -10	"B" 3/8" (9.53)	12 lbs. (5.44 kg)

* Available in Stainless

VSN-3000 Series

Fits: VA-3 & VA-11 Channel

These nuts fit all 1-5/8 wide channels which are 2-1/2" thru 3-1/4" deep.



Lateral Locking Nuts / Long Spring

Part#	Thread Diameter	Blank Style & Thickness	Weight Per "C" Pcs.
VSN-3010-0832*	No. 8-32	"A" 1/4" (6.35)	8 lbs. (3.63 kg)
VSN-3010-1024*	No. 10-24	"A" 1/4" (6.35)	8 lbs. (3.63 kg)
VSN-3010-1032*	No. 10-32	"A" 1/4" (6.35)	8 lbs. (3.63 kg)
VSN-3025	1/4" -20	"A" 1/4" (6.35)	8 lbs. (3.63 kg)
VSN-3031	5/16"-18	"B" 3/8" (9.53)	9 lbs. (4.09 kg)
VSN-3037	3/8" -16	"B" 3/8" (9.53)	10 lbs. (4.54 kg)
VSN-3044	7/16"-14	"B" 3/8" (9.53)	10 lbs. (4.54 kg)
VSN-3050	1/2" -13	"C" 1/2" (12.7)	12 lbs. (5.45 kg)
VSN-3062	5/8" -11	"D" 7/16" (11.1)	20 lbs. (9.08 kg)
VSN-3075	3/4" -10	"D" 7/16" (11.1)	18 lbs. (8.17 kg)

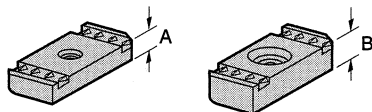
* Special Order



VN-1000 Series 1

For All 1-5/8" (41.3) Wide Channels

Lateral Locking Nuts #8-32 thru 7/16" Diameter Thread



Part#	Thread Diameter	Blank Style & Thickness	Weight Per "C" Pcs.
VN-1010-0832	No. 8-32	"A" 1/4" (6.35)	8 lbs. (3.63 kg)
VN-1010-1024	No. 10-24	"A" 1/4" (6.35)	8 lbs. (3.63 kg)
VN-1010-1032	No. 10-32	"A" 1/4" (6.35)	8 lbs. (3.63 kg)
VN-1025*	1/4" -20	"A" 1/4" (6.35)	8 lbs. (3.63 kg)
VN-1031	5/16"-18	"B" 3/8" (9.53)	9 lbs. (4.09 kg)
VN-1037*	3/8" -16	"B" 3/8" (9.53)	10 lbs. (4.54 kg)
VN-1044	7/16"-14	"B" 3/8" (9.53)	10 lbs. (4.54 kg)

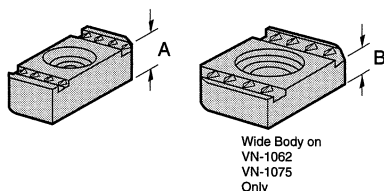
*Available in Stainless, Aluminum and Hot Dipped Galvanized

VN-1000 Series 2

*Fits: VA-1, VA-2,
VA-3, VA-6,
VA-7, VA-8,
VA-10 & VA-11*

For Deep Standard Width Channels

Lateral Locking Nuts 1/2" thru 3/4" Diameter Thread



Part#	Thread Diameter	Blank Style & Thickness	Weight Per "C" Pcs.
VN-1050**	1/2"- 13	"A" 1/2" (12.7)	12 lbs. (5.45 kg)
VN-1062*	5/8"- 11	"B" 7/16" (11.1)	20 lbs. (9.08 kg)
VN-1075	3/4"- 10	"B" 7/16" (11.1)	18 lbs. (8.17 kg)

**Available in Stainless & Aluminum

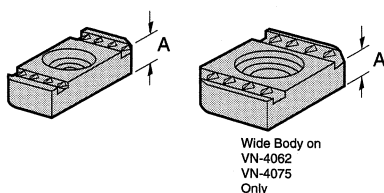
*Available in Stainless

VN-4000 Series

Fits: VA-4, VA-5 & VA-13

For Shallow Standard Width Channels

Lateral Locking Nuts 1/2" thru 3/4" Diameter Thread



Part#	Thread Diameter	Blank Style & Thickness	Weight Per "C" Pcs.
VN-4050*	1/2"- 13	"A" 3/8" (9.53)	9 lbs. (4.09 kg)
VN-4062	5/8"- 11	"A" 3/8" (9.53)	13 lbs. (5.90 kg)
VN-4075	3/4"- 10	"A" 3/8" (9.53)	12 lbs. (5.44 kg)

*Available in Stainless



VERSABAR CORPORATION

SINTERED STAINLESS CHANNEL NUTS FOR 1-5/8" (41.3) WIDE CHANNEL

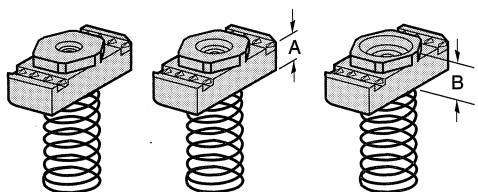
VSN-1000-H Series

Stainless Steel T316

Fits: VA-1, VA-2, VA-6, VA-7 & VA-12 Channel

(all 1-5/8 (41.3) wide channels which are 1-3/8" thru 1-5/8" deep)

Lateral Locking Nuts / Medium Spring / Hex Top
1/4" thru 1/2" Diameter Thread



Part#	Thread Diameter	Dim. "A"	Dim. "B"	Weight Per "C" Pcs.
VSN-1025-H-SIN	1/4"- 20	3/8" (9.53)	1/2" (12.7)	10 lbs. (4.5 kg)
VSN-1037-H-SIN	3/8"- 16	3/8" (9.53)	1/2" (12.7)	10 lbs. (4.5 kg)
VSN-1050-H-SIN	1/2"- 13	3/8" (9.53)	1/2" (12.7)	10 lbs. (4.5 kg)

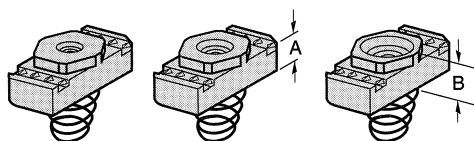
VSN-4000-H Series

Stainless Steel T316

Fits: VA-4, VA-5, VA-8, VA-10 & VA-13 Channel

(all 1-5/8 (41.3) wide channels which are 13/16" thru 1" deep)

Lateral Locking Nuts / Short Spring / Hex Top
1/4" thru 1/2" Diameter Thread



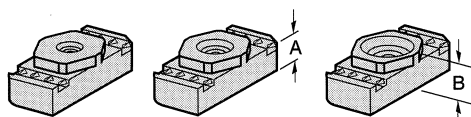
Part#	Thread Diameter	Dim. "A"	Dim. "B"	Weight Per "C" Pcs.
VSN-4025-H-SIN	1/4"- 20	3/8" (9.53)	1/2" (12.7)	10 lbs. (4.5 kg)
VSN-4037-H-SIN	3/8"- 16	3/8" (9.53)	1/2" (12.7)	10 lbs. (4.5 kg)
VSN-4050-H-SIN	1/2"- 13	3/8" (9.53)	1/2" (12.7)	10 lbs. (4.5 kg)

VN-1000-H Series

Stainless Steel T316

Fits: All 1-5/8" (41.3) Wide Standard Channels

Lateral Locking Nuts / No Spring / Hex Top
1/4" thru 1/2" Diameter Thread



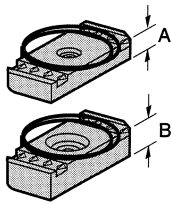
Part#	Thread Diameter	Dim. "A"	Dim. "B"	Weight Per "C" Pcs.
VN-1025-H-SIN	1/4"- 20	3/8" (9.53)	1/2" (12.7)	9 lbs. (4.1 kg)
VN-1037-H-SIN	3/8"- 16	3/8" (9.53)	1/2" (12.7)	9 lbs. (4.1 kg)
VN-1050-H-SIN	1/2"- 13	3/8" (9.53)	1/2" (12.7)	9 lbs. (4.1 kg)

VERSABAR CORPORATION

"TMS" GRIP NUTS & AND STUD NUTS

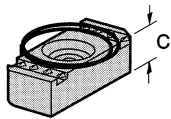


VSN-1000-TMS Series



Lateral Locking Nuts / Top Mounted Retainer Spring 1/4"-20 thru 1/2"-13 Diameter Thread

Fits all 1-5/8" (41.3) wide channels.



Fits all 1-5/8" (41.3) wide channels which are 1" (25.4) or deeper.

Part#	Thread Diameter	Blank Style & Thickness	Weight Per "C" Pcs.
VSN-1025-TMS	1/4" -20	"A" 1/4" (6.35)	8 lbs. (3.63 kg)
VSN-1031-TMS	5/16"-18	"B" 3/8" (9.53)	9 lbs. (4.09 kg)
VSN-1037-TMS	3/8" -16	"B" 3/8" (9.53)	10 lbs. (4.54 kg)
VSN-1050-TMS*	1/2" -13	"C" 1/2" (12.7)	12 lbs. (5.45 kg)

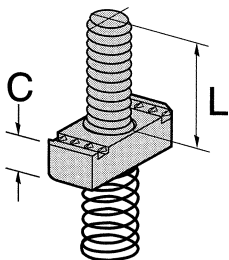
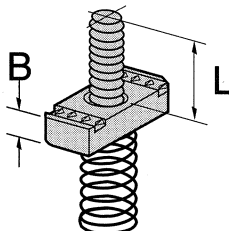
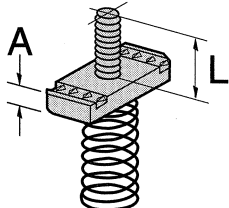
* Use VSN-4050 conventional spring nut with shallow channels if 1/2"-13 thread is required.

SSN & SN

Studded Channel Nuts

SSN Style

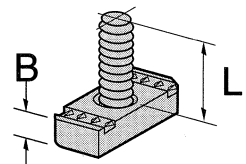
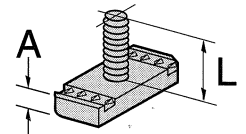
"SSN" Nuts with spring shown below fit:
VA-1, VA-2, VA-6, VA-7 & VA-12



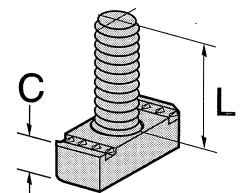
Part# With Spring	Thread Diameter	Blank Style & Thickness	Weight Per "C" Pcs.	Part# Without Spring
SSN-25075	1/4"-20	"A" 1/4" (6.35)	8 lb. (3.6)	SN-25075
SSN-25100	1/4"-20	"A" 1/4" (6.35)	9 lb. (4.1)	SN-25100
SSN-25125	1/4"-20	"A" 1/4" (6.35)	9 lb. (4.1)	SN-25125
SSN-25150	1/4"-20	"A" 1/4" (6.35)	9 lb. (4.1)	SN-25150
SSN-25175	1/4"-20	"A" 1/4" (6.35)	10 lb. (4.5)	SN-25175
SSN-25200	1/4"-20	"A" 1/4" (6.35)	10 lb. (4.5)	SN-25200
SSN-31075	5/16"-18	"B" 3/8" (9.53)	13 lb. (5.9)	SN-31075
SSN-31100	5/16"-18	"B" 3/8" (9.53)	13 lb. (5.9)	SN-31100
SSN-31125	5/16"-18	"B" 3/8" (9.53)	14 lb. (6.4)	SN-31125
SSN-31150	5/16"-18	"B" 3/8" (9.53)	14 lb. (6.4)	SN-31150
SSN-31175	5/16"-18	"B" 3/8" (9.53)	15 lb. (6.8)	SN-31175
SSN-31200	5/16"-18	"B" 3/8" (9.53)	15 lb. (6.8)	SN-31200
SSN-37075	3/8"-16	"B" 3/8" (9.53)	13 lb. (5.9)	SN-37075
SSN-37100	3/8"-16	"B" 3/8" (9.53)	13 lb. (5.9)	SN-37100
SSN-37125	3/8"-16	"B" 3/8" (9.53)	14 lb. (6.4)	SN-37125
SSN-37150	3/8"-16	"B" 3/8" (9.53)	15 lb. (6.8)	SN-37150
SSN-37175	3/8"-16	"B" 3/8" (9.53)	16 lb. (7.3)	SN-37175
SSN-37200	3/8"-16	"B" 3/8" (9.53)	16 lb. (7.3)	SN-37200
SSN-37225	3/8"-16	"B" 3/8" (9.53)	17 lb. (7.7)	SN-37225
SSN-37250	3/8"-16	"B" 3/8" (9.53)	17 lb. (7.7)	SN-37250
SSN-50062	1/2"-13	"C" 1/2" (12.7)	13 lb. (5.9)	SN-50062
SSN-50087	1/2"-13	"C" 1/2" (12.7)	15 lb. (6.8)	SN-50087
SSN-50112	1/2"-13	"C" 1/2" (12.7)	15 lb. (6.8)	SN-50112
SSN-50137	1/2"-13	"C" 1/2" (12.7)	17 lb. (7.7)	SN-50137
SSN-50162	1/2"-13	"C" 1/2" (12.7)	17 lb. (7.7)	SN-50162
SSN-50187	1/2"-13	"C" 1/2" (12.7)	19 lb. (8.6)	SN-50187
SSN-50200	1/2"-13	"C" 1/2" (12.7)	20 lb. (9.1)	SN-50200
SSN-50225	1/2"-13	"C" 1/2" (12.7)	22 lb. (10.0)	SN-50225
SSN-50250	1/2"-13	"C" 1/2" (12.7)	23 lb. (10.4)	SN-50250
SSN-50275	1/2"-13	"C" 1/2" (12.7)	24 lb. (10.9)	SN-50275
SSN-50300	1/2"-13	"C" 1/2" (12.7)	26 lb. (11.8)	SN-50300
SSN-50325	1/2"-13	"C" 1/2" (12.7)	26 lb. (11.8)	SN-50325

SN Style

"SN" Nuts shown below fit ALL CHANNELS



"SN" Nut shown below fits ALL Channels EXCEPT VA-4, VA-5, VA-13



*Many items available in Stainless



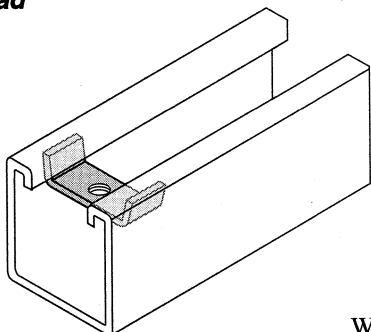
VERSABAR CORPORATION

SPECIAL APPLICATION NUTS and COMMON FASTENERS

VN-1 Light Duty Channel Nut

These nuts fit all 1-5/8 (41.3) wide channels.

1/4"-20 Thread

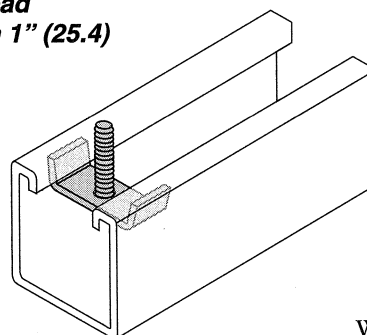


Wt/C 1.5 Lbs.
(.681 kg.)

VN-1-ST Light Duty Stud Nut

These stud nuts fit all 1-5/8 (41.3) wide channels.

1/4"-20 Thread
Stud Length 1" (25.4)

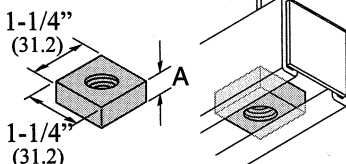


Wt/C 3.1 Lbs.
(1.41 kg.)

VCN Insert Nuts

For use with VC-1 spot inserts or any other continuous slot, concrete insert channel. (Excluding VA-4, VA-5 & VA-13 inserts)

NOTE: Must be used with flat fitting mounted on slot surface.

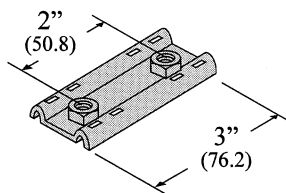


Part Number	Thread Dia.	Blank Size "A"	Weight Per "C"
VCN-25	1/4"-20	1/4" (6.4)	8 lbs. (3.6)
VCN-31	5/16"-18	1/4" (6.4)	11 lbs. (5.0)
VCN-37	3/8"-16	3/8" (9.5)	13 lbs. (5.9)
VCN-50	1/2"-13	1/2" (12.7)	14 lbs. (6.4)
VCN-62	5/8"-11	1/2" (12.7)	18 lbs. (8.2)
VCN-75	3/4"-10	1/2" (12.7)	16 lbs. (7.3)
VCN-37-RP	3/8" PIPE TAP	1/2" (12.7)	14 lbs. (6.4)
VCN-50-RP	1/2" PIPE TAP	1/2" (12.7)	14 lbs. (6.4)

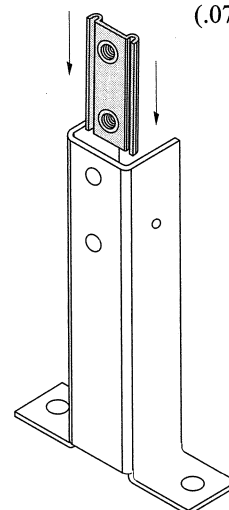
VF-5803-GRS

**Footing
Double Nut**

Wt/ea .17 Lbs.
(.077 kg.)

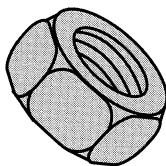


3/8"-16 Threads



Hex Nuts

**U.S. Standard Coarse Thread
Double Chamfer
Zinc plated***

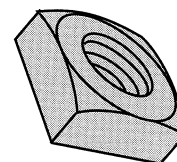


Part Number	Thread Dia.	Weight Per "C"
1/4" H.N.	1/4" -20	.6 lbs. (.27 kg.)
5/16" H.N.	5/16"-18	1.2 lbs. (.54 kg.)
3/8" H.N.	3/8" -16	1.6 lbs. (.73 kg.)
1/2" H.N.	1/2" -13	4.8 lbs. (2.2 kg.)
5/8" H.N.	5/8" -11	7.3 lbs. (3.3 kg.)

* Also Available in Stainless

Square Nuts

**U.S. Standard Coarse Thread
Single Side Chamfer
Zinc plated**

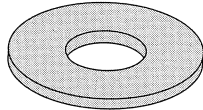


Part Number	Thread Dia.	Weight Per "C"
1/4" SQ.N.	1/4" -20	.90 lbs. (.41 kg.)
5/16" SQ.N.	5/16"-18	1.60 lbs. (.73 kg.)
3/8" SQ.N.	3/8" -16	2.65 lbs. (1.2 kg.)
1/2" SQ.N.	1/2" -13	5.83 lbs. (2.6 kg.)
5/8" SQ.N.	5/8" -11	10.70 lbs. (4.9 kg.)



Flat Washers

*Zinc plated**

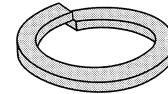


Part Number	For Thread Dia.	Weight Per "C"
1/4" F.W.	1/4" -20	.70 lbs. (.32 kg.)
5/16" F.W.	5/16" -18	1.00 lbs. (.45 kg.)
3/8" F.W.	3/8" -16	1.50 lbs. (.68 kg.)
1/2" F.W.	1/2" -13	3.50 lbs. (1.6 kg.)
5/8" F.W.	5/8" -11	7.70 lbs. (3.5 kg.)

* Also Available in Stainless

Split Lock Washers

*Zinc plated**

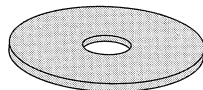


Part Number	For Thread Dia.	Weight Per "C"
1/4" L.W.	1/4" -20	.25 lbs. (.10 kg.)
5/16" L.W.	5/16" -18	.41 lbs. (.20 kg.)
3/8" L.W.	3/8" -16	.63 lbs. (.30 kg.)
1/2" L.W.	1/2" -13	1.32 lbs. (.60 kg.)

* Also Available in Stainless

Fender Washers

Zinc plated



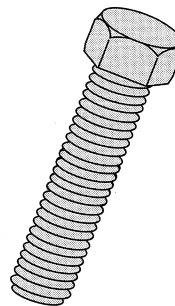
Part Number	For Thread Dia.	Weight Per "C"
FEN-25	1/4" -20	3.00 lbs. (1.4 kg.)
FEN-31	5/16" -18	3.00 lbs. (1.4 kg.)
FEN-37	3/8" -16	2.50 lbs. (1.1 kg.)
FEN-50	1/2" -13	2.40 lbs. (1.0 kg.)
FEN-50-2*	1/2" -13	6.00 lbs. (2.7 kg.)

*FEN-50-2 has a 2" (50.8) O.D.

Hex Head Cap Screws

*Zinc plated**

U.S. Coarse Thread



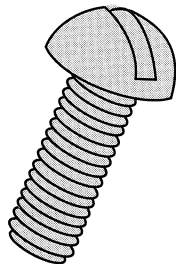
Part Number	Wgt Per "C"
1/4" x 1/2" HHCS	1.00 lb. (.45)
1/4" x 3/4" HHCS	1.30 lb. (.59)
1/4" x 1" HHCS	1.70 lb. (.77)
1/4" x 1-1/4" HHCS	2.00 lb. (.91)
3/8" x 3/4" HHCS	3.50 lb. (1.6)
3/8" x 1" HHCS	5.28 lb. (2.4)
3/8" x 1-1/4" HHCS	5.30 lb. (2.4)
3/8" x 1-1/2" HHCS	6.05 lb. (2.8)
3/8" x 2" HHCS	7.59 lb. (3.6)
3/8" x 2-1/4" HHCS	8.90 lb. (4.0)
3/8" x 2-1/2" HHCS	9.50 lb. (4.3)
1/2" x 15/16" HHCS	9.10 lb. (4.1)
1/2" x 1-1/4" HHCS	10.60 lb. (4.8)
1/2" x 1-1/2" HHCS	11.65 lb. (5.3)
1/2" x 1-3/4" HHCS	13.10 lb. (6.0)
1/2" x 2" HHCS	14.56 lb. (6.6)
1/2" x 2-1/4" HHCS	16.02 lb. (7.3)
1/2" x 2-1/2" HHCS	17.48 lb. (7.9)
1/2" x 3-1/2" HHCS	20.00 lb. (9.1)

* Also Available in Stainless

Round Head Machine Screws

*Zinc plated**

U.S. Coarse Thread

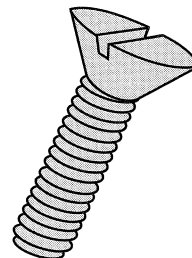


Part Number	Weight Per "C"
1/4" x 1/2" RHMS	1.00 lbs. (.45 kg.)
1/4" x 3/4" RHMS	1.24 lbs. (.56 kg.)
1/4" x 1" RHMS	1.50 lbs. (.68 kg.)
1/4" x 1-1/4" RHMS	2.00 lbs. (.91 kg.)
5/16" x 1" RHMS	2.60 lbs. (1.2 kg.)
3/8" x 1" RHMS	4.07 lbs. (1.9 kg.)

Flat Head Machine Screws

*Zinc plated**

U.S. Coarse Thread



Part Number	Weight Per "C"
1/4" x 5/8" FHMS	1.40 lbs. (.64 kg.)
1/4" x 3/4" FHMS	1.50 lbs. (.68 kg.)
3/8" x 1" FHMS	3.40 lbs. (1.5 kg.)
1/2" x 1" FHMS	9.30 lbs. (4.2 kg.)

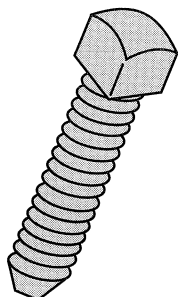


VERSABAR CORPORATION

COMMON FASTENERS & VXE WELDED SWIVEL EYELETS

Square Head Set Screws

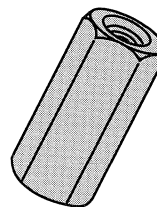
Zinc plated
U.S. Coarse Thread



Part Number	Weight Per "C"
5/16" x 1-1/2" SQ.HD.SS	4.2 lbs. (1.9 kg.)
3/8" x 1-1/2" SQ.HD.SS	4.5 lbs. (2.1 kg.)
3/8" x 2" SQ.HD.SS	6.1 lbs. (2.8 kg.)
3/8" x 2-1/4" SQ.HD.SS	7.0 lbs. (3.2 kg.)
1/2" x 1-1/2" SQ.HD.SS	8.5 lbs. (3.9 kg.)
1/2" x 2" SQ.HD.SS	11.4 lbs. (5.2 kg.)
5/8" x 1-1/2" SQ.HD.SS	14.5 lbs. (6.6 kg.)

Rod Coupling Nuts

Zinc plated*

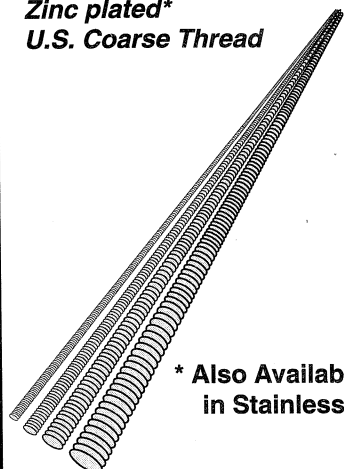


Part Number	Thread Dia.	Weight Per "C"
VTRC-25	1/4" -20	8 lbs. (3.6 kg.)
VTRC-37	3/8" -16	14 lbs. (6.4 kg.)
VTRC-50	1/2" -13	28 lbs. (12.7 kg.)
VTRC-62	5/8" -11	48 lbs. (21.7 kg.)

* Also Available in Stainless

Threaded Rod

Zinc plated*
U.S. Coarse Thread



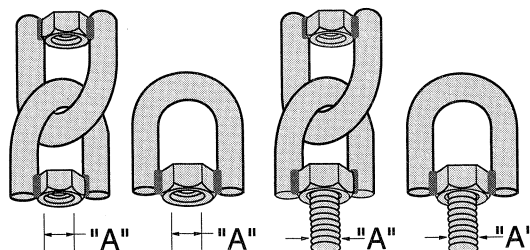
* Also Available in Stainless

Part Number	Thread Dia.	Length	Weight Per "C" Pcs.	Nom. Rod Dia.	Root Area In ²	mm ²	Max. Safe Load @ Temperature 650 Deg F (343C)
VTR-25-6	1/4"-20	6' (1.83m)	77 lbs (35kg.)				
VTR-25-10	1/4"-20	10' (3.05m)	128 lbs. (58kg.)				
VTR-25-12	1/4"-20	12' (3.66m)	154 lbs. (70kg.)				
VTR-37-6	3/8"-16	6' (1.83m)	174 lbs. (79kg.)	3/8"	.068	43.9	610 lbs.(2.7 kN)
VTR-37-10	3/8"-16	10' (3.05m)	290 lbs.(132kg.)	1/2"	.126	81.3	1130 lbs.(5.0 kN)
VTR-37-12	3/8"-16	12' (3.66m)	348 lbs.(158kg.)	5/8"	.202	130.4	1810 lbs.(8.0 kN)
VTR-50-6	1/2"-13	6' (1.83m)	324 lbs.(147kg.)				
VTR-50-10	1/2"-13	10' (3.05m)	540 lbs.(245kg.)				
VTR-50-12	1/2"-13	12' (3.66m)	648 lbs.(294kg.)				
VTR-62-6	5/8"-11	6' (1.83m)	507 lbs.(230kg.)				
VTR-62-10	5/8"-11	10' (3.05m)	845 lbs.(384kg.)				
VTR-62-12	5/8"-11	12' (3.66m)	1014 lbs.(460kg.)				

Loading data per A.S.A B31.1-1973
Pertains to rod conforming to:
ASTM A575 & A576

VXE Swivel Eyelets

Zinc plated
U.S. Coarse Thread



VXE-1 VXE-2 VXE-3 VXE-4

Part Number	Thread Dia.	Weight Per "C"	Part Number	Thread Dia.	Weight Per "C"
VXE-1-3/8	3/8"-16	22 lbs. (10.0 kg)	VXE-1-5/8	5/8"-11	36 lbs. (16.3 kg)
VXE-2-3/8	3/8"-16	11 lbs. (5.0 kg)	VXE-2-5/8	5/8"-11	18 lbs. (8.2 kg)
VXE-3-3/8	3/8"-16	25 lbs. (11.4 kg)	VXE-3-5/8	5/8"-11	44 lbs. (20.0 kg)
VXE-4-3/8	3/8"-16	14 lbs. (6.4 kg)	VXE-4-5/8	5/8"-11	24 lbs. (10.8 kg)
VXE-1-1/2	1/2"-13	28 lbs. (12.7 kg)	VXE-1-3/4	3/4"-10	56 lbs. (25.4 kg)
VXE-2-1/2	1/2"-13	14 lbs. (6.4 kg)	VXE-2-3/4	3/4"-10	28 lbs. (12.7 kg)
VXE-3-1/2	1/2"-13	33 lbs. (15.0 kg)	VXE-3-3/4	3/4"-10	60 lbs. (27.2 kg)
VXE-4-1/2	1/2"-13	19 lbs. (8.6 kg)	VXE-4-3/4	3/4"-10	32 lbs. (14.5 kg)