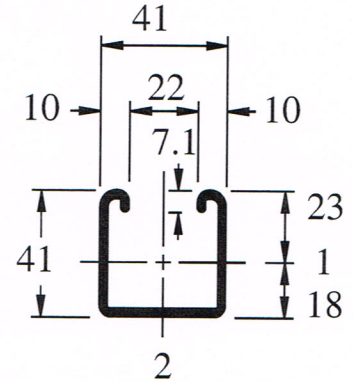
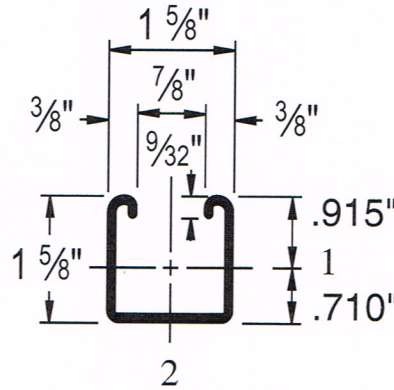
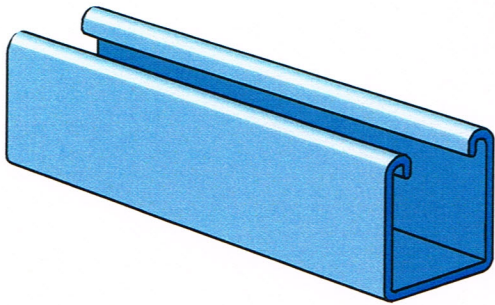




P1000®



**Notes:**

\* Load limited by spot weld shear.

\*\*  $KL/r > 200$

NR = Not Recommended.

1. Above loads include the weight of the member. This weight must be deducted to arrive at the net allowable load the beam will support.
2. Long span beams should be supported in such a manner as to prevent rotation and twist.
3. Allowable uniformly distributed loads are listed for various simple spans, that is, a beam on two supports. If load is concentrated at the center of the span, multiply load from the table by 0.5 and corresponding deflection by 0.8.
4. For Pierced Channel, Beam Load Values in the tables are multiplied by the following factor:

"DS" Series	70%	"T" Series	85%
"KO" Series	95%	"H3" Series	90%
"SL" Series	85%	"HS" Series	90%

Wt/100 Ft: 189 Lbs (281 kg/100 m)  
 Allowable Moment 5,070 In-Lbs (570 N·m)  
 12 Gauge Nominal Thickness .105" (2.7mm)

## MATERIAL

Unistrut channels are accurately and carefully cold formed to size from low-carbon strip steel. All spot-welded combination members, except P1001T, are welded 3" (76 mm) maximum on center.

**STEEL: PLAIN**

12 Ga. (2.7 mm), 14 Ga. (1.9 mm) and  
 16 Ga. (1.5 mm) ASTM A1011 SS GR 33.

**STEEL: PRE-GALVANIZED**

12 Ga. (2.7 mm), 14 Ga. (1.9 mm) and  
 16 Ga. (1.5mm) ASTM A653 GR 33.

For other materials, see Special Metals or Fiberglass sections.

## FINISHES

All channels are available in:

- Perma Green III (GR).
- Pre-galvanized (PG), conforming to ASTM A653 G90.
- Hot-dipped galvanized (HG), conforming to ASTM A123.
- Plain (PL).

**Project:** SMH CATH LAB2 UNISTRUT SUPPORT SYSTEM

**Architect / Engineer:** DAMMON ENGINEERING

**Date:** 3/16/2013 **Phone:** (985) 649-5832

**Contractor:** NATAL

**Address:**

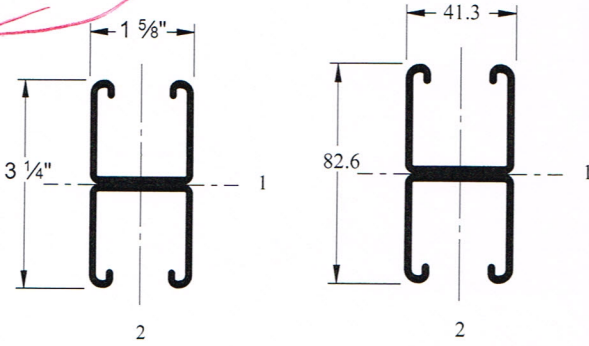
**Notes 1:**

**Notes 2:**

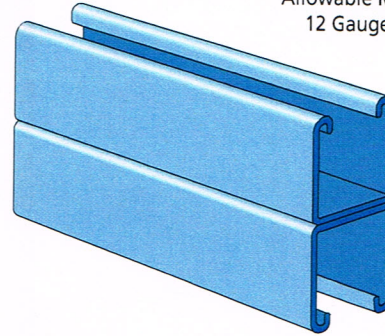
**Approval Stamp:**



### P1001



Wt/100 Ft: 380 Lbs (566 kg/100 m)  
 Allowable Moment 14,390 In-Lbs (1,630 N\*m)  
 12 Gauge Nominal Thickness .105" (2.7mm)



Channel Finishes:  
 PL, GR, HG, PG;  
 Standard Lengths:  
 10' & 20'

### COLUMN LOADING – P1001

Unbraced Height In	Maximum Allowable Load at Slot Face Lbs	Maximum Column Load Applied at C.G.			
		K = 0.65 Lbs	K = 0.80 Lbs	K = 1.0 Lbs	K = 1.2 Lbs
24	6,430	25,060	24,620	23,900	23,050
36	6,230	24,000	23,050	21,570	19,890
48	5,950	22,590	21,030	18,690	16,170
60	5,620	20,890	18,690	15,540	12,400
72	5,240	18,990	16,170	12,400	8,960
84	4,830	16,970	13,640	9,470	6,580
96	4,390	14,900	11,200	7,250	5,040
108	3,930	12,860	8,960	5,730	3,980
120	3,510	10,910	7,250	4,640	**

### BEAM LOADING – P1001

Span In	Max Allowable Uniform Load Lbs	Defl. at Uniform Load In	Uniform Loading at Deflection		
			Span/180 Lbs	Span/240 Lbs	Span/360 Lbs
24	3,130 *	0.03	3,130 *	3,130 *	3,130 *
36	3,130 *	0.07	3,130 *	3,130 *	3,130 *
48	2,400	0.13	2,400	2,400	2,400
60	1,920	0.20	1,920	1,920	1,630
72	1,600	0.28	1,600	1,600	1,130
84	1,370	0.39	1,370	1,240	830
96	1,200	0.50	1,200	950	640
108	1,070	0.64	1,000	750	500
120	960	0.79	810	610	410
144	800	1.13	560	420	280
168	690	1.54	410	310	210
192	600	2.01	320	240	160
216	530	2.55	250	190	130
240	480	3.15	200	150	100

### MATERIAL

Unistrut channels are accurately and carefully cold formed to size from low-carbon strip steel. All spot-welded combination members, except P1001T, are welded 3" (76 mm) maximum on center.

#### STEEL: PLAIN

12 Ga. (2.7 mm), 14 Ga. (1.9 mm) and 16 Ga. (1.5 mm)  
 ASTM A1011 GR33

#### STEEL: PRE-GALVANIZED

12 Ga. (2.7 mm), 14 Ga. (1.9 mm) and 16 Ga. (1.5mm)  
 ASTM A653 GR 33

For other materials, see Special Metals or Fiberglass sections.

### FINISHES

All channels are available in:

- Perma Green II (GR)
- Pre-galvanized (PG), conforming to ASTM A653 G90
- Hot-dipped galvanized (HG), conforming to ASTM A123
- Plain (PL)

Project: SMH CATH LAB2 UNISTRUT SUPPORT SYSTEM

Architect / Engineer: DAMMON ENGINEERING

Date: 3/16/2013 Phone: 985-649-5832

Contractor: NATAL

Address:

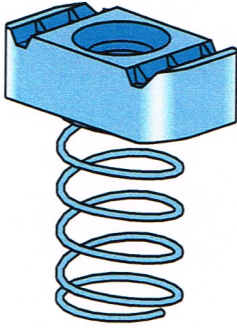
Notes 1:

Notes 2:

Approval Stamp:



### CHANNEL NUT WITH SPRING



Part Number	Nut Size Thread	Wt/100 pcs Lbs (kg)	Use With
P1006-0832	#8 -32	7 (3.2)	P1000, P1100, P2000, P3000
P1006-1024	#10 -24	7 (3.2)	
P1006-1420	1/4" -20	7 (3.2)	
P1007	5/16" -18	6 (2.7)	
P1008	3/8" -16	10 (4.5)	
P1009	7/16" -14	9 (4.1)	
P1010	1/2" -13	12 (5.4)	

### MATERIAL

Unistrut channel nuts are manufactured from mild steel bars, and after machining operations are completed, they are case hardened, assuring positive biting action into the inturred edge of the Unistrut channel.

Bolt Size	Channel Nut ASTM
1/4" & 5/16"	A1011 SS GR45
3/8", 7/16" & 1/2"	A576 GR1015 Modified
5/8" & 3/4"	A36 or A675 GR60
7/8"	A36

### FINISHES

Nuts, bolts and washers are electro-galvanized (EG), ASTM B633 Type III SC1 finish, unless otherwise noted.

Many hardware items are also available in stainless steel. Consult factory for ordering information.

**Project:** SMH CATH LAB2 UNISTRUT SUPPORT SYSTEM

**Architect / Engineer:** DAMMON ENGINEERING INC.

**Date:** 3/16/2013 **Phone:** 985-649-5832

**Contractor:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**Notes 1:** \_\_\_\_\_

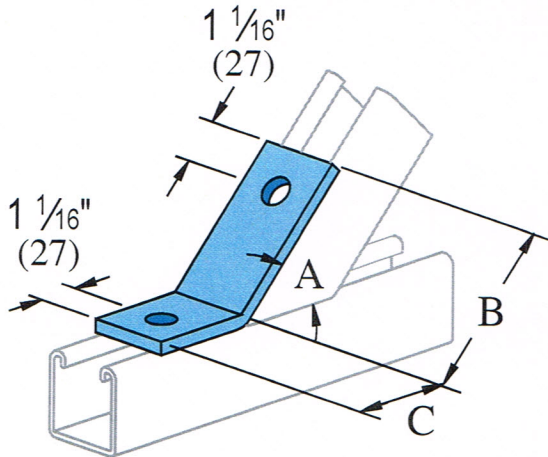
**Notes 2:** \_\_\_\_\_

**Approval Stamp:**



### P1546, P2094 THRU P2100

Wt/100 pcs: 58 Lbs (26.3 kg)



Part No.	"A" Degree (rad)	"B" In (mm)	"C" In (mm)
P2094	82½° 1.44	3¾ 91	1⅞ 43
P2095	75° 1.31	3¾ 91	1⅞ 43
P2096	67½° 1.18	3½ 89	1¾ 44
P2097	60° 1.05	3½ 86	1½ 48
P2098	52½° 0.92	¾ 83	2⅞ 52
P1546	45° 0.79	3 76	2⅞ 59
P2099	37½° 0.65	3½ 89	1⅞ 46
P2100	37½° 0.65	2⅞ 68	2⅞ 67

Standard Dimensions for 1 5/8" (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: 1 7/8" (48mm); Width: 1 5/8" (41mm); Thickness: 1/4" (6mm)

#### 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. 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, aluminum and fiberglass. Consult factory for ordering information.

#### FINISHES

Fittings are available in:

Perma-Green III (GR),

Electro-galvanized (EG), conforming to ASTM B633 Type III SC1;

Hot-dipped galvanized (HG), conforming to ASTM A123 or A153 and

Plain (PL).

Project: SMH CATH LAB2 UNISTRUT SUPPORT SYSTEM

Architect / Engineer: DAMMON ENGINEERING

Date: 3/16/2013 Phone: (985) 649-5832

Contractor: NATAL

Address: \_\_\_\_\_

Notes 1: \_\_\_\_\_

Notes 2: \_\_\_\_\_

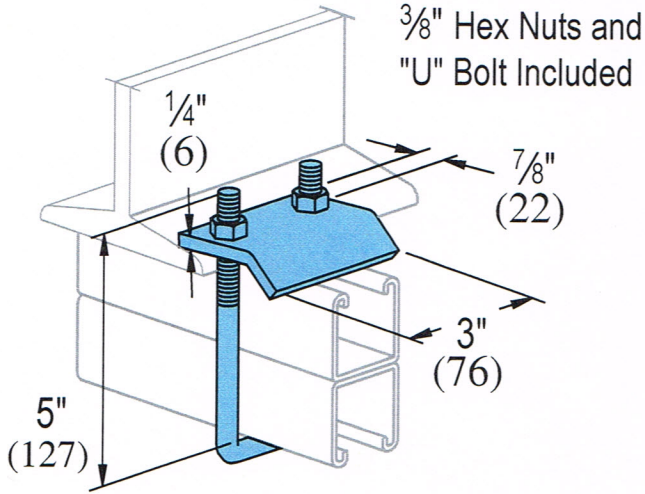
Approval Stamp:



**P2786**

Wt/100 pcs: 92 Lbs (41.7 kg)

• For use with Beams up to 3/4" (19)  
Flanges and with  
Channels P1001, P1101, P2001,  
P3001, P5000, and P5500.



Design Load Each  
1000 Lbs (4.45 kN)  
Use in Pairs Only

**Note:** When used for mechanical supports, load capacities of brackets and fittings should be in compliance with the American Standard Code for Pressure Piping. Clamps are designed to be used with W, M, S & HP Shape beams, Standard C & Misc. MC Channels, Angles & Structural Tees. Clamps must be used in pairs where indicated. For beam clamps with HG finish, standard hardware is EG finish. For optional stainless steel hardware, please contact the factory for availability.

### 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. 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, aluminum and fiberglass. Consult factory for ordering information.

### FINISHES

Fittings are available in:

Perma-Green III (GR),

Electro-galvanized (EG), conforming to  
ASTM B633 Type III SC1;

Hot-dipped galvanized (HG), conforming to  
ASTM A123 or A153 and

Plain (PL).

<b>Project:</b> <u>SMH CATH LAB2 UNISTRUT SUPPORT SYSTEM</u>	<b>Approval Stamp:</b>
<b>Architect / Engineer:</b> <u>DAMMON ENGINEERING INC.</u>	
<b>Date:</b> <u>3/16/2013</u> <b>Phone:</b> <u>985-649-5832</u>	
<b>Contractor:</b> _____	
<b>Address:</b> _____	
<b>Notes 1:</b> _____	
<b>Notes 2:</b> _____	