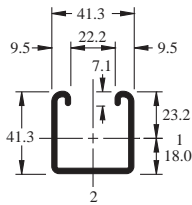
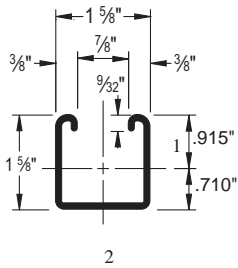


# **METAL FRAMING & FASTENING SYSTEM**



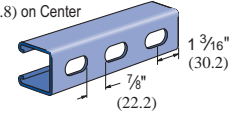


# STRUT CHANNELS



### Slots Pattern

1 1/8" (28.6) x 3/16" (14.3)  
2" (50.8) on Center



## BEAM-LOADING

Wt/100 Ft: 189 Lbs (281 kg/100 m)  
12 Gauge Nominal Thickness .105" (2.7mm)

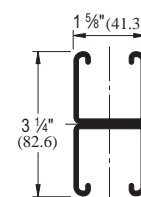
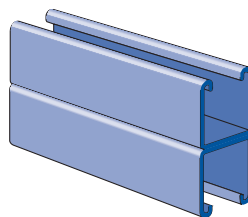
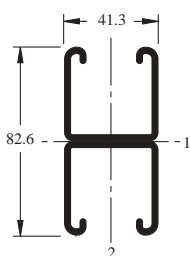
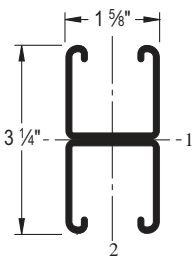
Span In	Max. Allowable Uniform Load Lbs	Defl. at Uniform Load In	Uniform Loading at Deflection		
			Span/180 Lbs	Span/240 Lbs	Span/360 Lbs
24	1,690	0.06	1,690	1,690	1,690
36	1,130	0.13	1,130	1,130	900
48	850	0.22	850	760	500
60	680	0.35	650	480	320
72	560	0.50	450	340	220
84	480	0.68	330	250	160
96	420	0.89	250	190	130
108	380	1.14	200	150	100
120	340	1.40	160	120	80
144	280	2.00	110	80	60
168	240	2.72	80	60	40
192	210	3.55	60	50	NR
216	190	4.58	50	40	NR
240	170	5.62	40	NR	NR

## COLUMN-LOADING

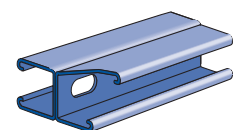
Unbraced Height In	Max. Allowable Load at Slot Face Lbs	Maximum Column Load Applied at C.G.			
		K = 0.65 Lbs	K = 0.80 Lbs	K = 1.0 Lbs	K = 1.2 Lbs
24	3,550	10,740	9,890	8,770	7,740
36	3,190	8,910	7,740	6,390	5,310
48	2,770	7,260	6,010	4,690	3,800
60	2,380	5,910	4,690	3,630	2,960
72	2,080	4,840	3,800	2,960	2,400
84	1,860	4,040	3,200	2,480	1,980
96	1,670	3,480	2,750	2,110	1,660
108	1,510	3,050	2,400	1,810	**
120	1,380	2,700	2,110	**	**
144	1,150	2,180	1,660	**	**



## BACK TO BACK STRUT CHANNEL



Slots Pattern  
1 1/8" (28.6) x 3/16" (14.3)  
2" (50.8) on Center

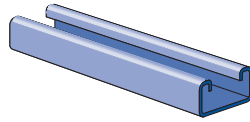
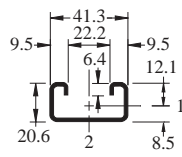
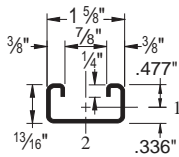


Wt/100 Ft: 378 Lbs (562 kg/100 m)  
12 Gauge Nominal Thickness .105" (2.7mm)





# STRUT CHANNELS



Wt/100 Ft: 98 Lbs (147 kg/100 m)  
14 Gauge Nominal Thickness .075" (1.9mm)

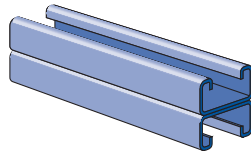
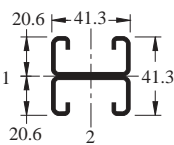
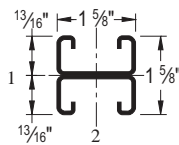
## BEAM- LOADING

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	450	0.11	450	420	280
36	300	0.24	250	190	130
48	230	0.44	140	110	70
60	180	0.67	90	70	50
72	150	0.96	60	50	30
84	130	1.32	50	30	20
96	110	1.67	40	30	20
108	100	2.16	30	20	10
120	90	2.67	20	20	10
144	80	4.09	20	NA	NA
168	60	4.88	NA	NA	NA
192	60	7.28	NA	NA	NA
216	50	8.64	NA	NA	NA
240	50	11.85	NA	NA	NA

## COLUMN- LOADING

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	1,840	5,610	5,210	4,570	3,850
36	1,640	4,660	3,850	2,800	1,960
48	1,310	3,490	2,480	1,590	1,100
60	1,000	2,400	1,590	**	**
72	770	1,670	1,100	**	**

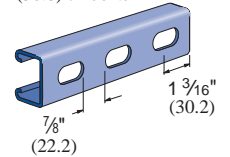
## BACK TO BACK STRUT CHANNEL



Wt/100 Ft: 197 Lbs (293 kg/100 m)  
14 Gauge Nominal Thickness .075" (1.9mm)

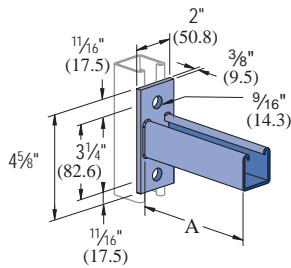
### Slots Pattern

1 1/8" (28.6) x 9/16" (14.3)  
2" (50.8) on Center



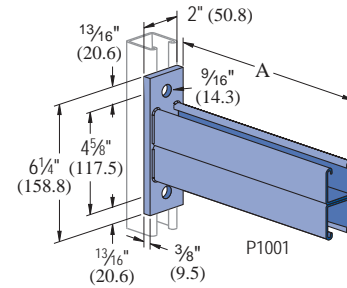


# STRUT BRACKETS



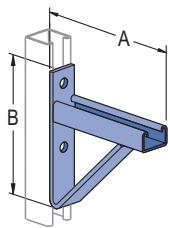
**VI-2001**

Part Number	"A" In (mm)	Wt/100 pcs Lbs (kg)	Uniform Load* Lbs (kN)
VI-2001	6 152.4	185 84	1200 5.34
VI-2002	12 304.8	293 133	600 2.67
VI-2003	18 457.2	401 182	400 1.78
VI-2004	24 609.6	509 231	300 1.33



**VI-3001**

Part Number	"A" In (mm)	Wt/100 pcs Lbs (kg)	Vertical Channel		Uniform Design Load Lbs (kN)
			Part No.	Gauge	
VI-3001	12 304.8	502 228	P1000	12	2,000 (8.90)
			P1100	14	1,400 (6.23)
			P2000	16	1,000 (4.45)
VI-3002	18 457.2	692 314	P1000	12	1,300 (5.78)
			P1100	14	900 (4.00)
			P2000	16	650 (2.89)
VI-3003	24 609.6	882 400	P1000	12	1,000 (4.45)
			P1100	14	700 (3.11)
			P2000	16	500 (2.22)
VI-3004	30 762.0	1,072 486	P1000	12	800 (3.56)
			P1100	14	560 (2.49)
			P2000	16	400 (1.78)
VI-3005	36 914.4	1,262 572	P1000	12	650 (2.89)
			P1100	14	450 (2.00)
			P2000	16	320 (1.42)



**VI-4001**



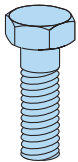
Part Number	"A" In (mm)	"B" In (mm)	Wt/100 pcs Lbs (kg)	Uniform Load* Lbs (kN)
VI-4001	15 381.0	8 3/4 222	420 190.5	1,000 4.45
VI-4002	21 533.4	8 3/4 222	628 284.9	1,000 4.45
VI-4003	27 685.8	11 1/4 286	860 390.1	900 4.00
VI-4004	33 838.2	11 1/4 286	1010 458.1	900 4.00
VI-4005	39 990.6	16 406.4	1257 683.3	800 3.56





# HARDWARE

## HEX HEAD CAP SCREWS



Part No.	Size
VH-101	1/4" x 3/4"
VH-102	1/4" x 1 1/4"
VH-103	3/8" x 7/8"
VH-104	3/8" x 1 1/4"
VH-105	1/2" x 1 1/4"
VH-106	1/2" x 1 1/2"



\* Assembled parts employ this bolt so the fitting will work with any channel depth.

## HEXAGON NUTS



Part No.	Size
VH-107	1/4"
VH-108	3/8"
VH-109	1/2"

## LOCK WASHERS



Part No.	Size
VH-121	1/4"
VH-122	3/8"
VH-123	1/2"

## FLAT WASHERS



Part No.	Size
VH-110	1/4"
VH-111	3/8"
VH-112	1/2"

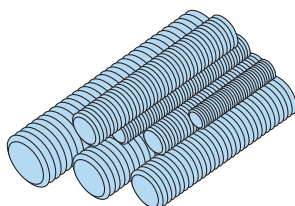
## STEEL THREADED ROD



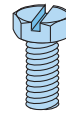
Part No.	Size
VH-113	1/4" x 20
VH-114	3/8" x 16
VH-115	1/2" x 13

Standard Length 10' (3.0m)

Low Carbon Steel  
 $F_y = 32,000$  psi minimum  
 $F_t = 52,000$  psi minimum



## MACHINE SCREWS



Part No.	Size
VH-116	1/4" x 3/4"
VH-117	5/16" x 1"
VH-118	3/8" x 1 1/4"

## SQUARE NUTS



Part No.	Size
VH-119	1/4"
VH-120	3/8"

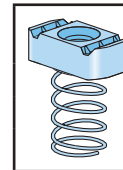
## CHANNEL NUT WITHOUT SPRING



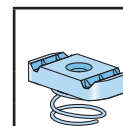
Part No.	Nut Size Thread
VH-124	1/4" - 20
VH-125	3/8" - 16
VH-126	1/2" - 13

Use with any channel

## CHANNEL NUT WITH SPRING



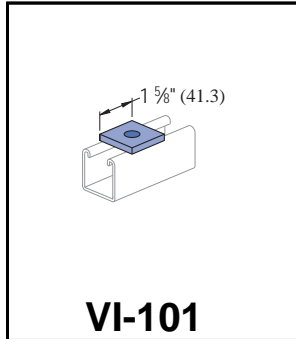
Part No.	Nut Size Thread
VH-127	1/4" - 20
VH-128	3/8" - 16
VH-129	1/2" - 13



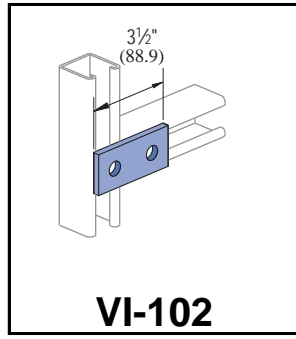
Part No.	Nut Size Thread
VH-130	1/4" - 20
VH-131	3/8" - 16
VH-132	1/2" - 13



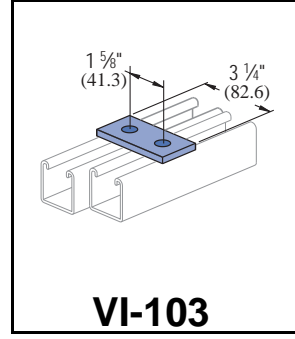
# FLAT FITTINGS



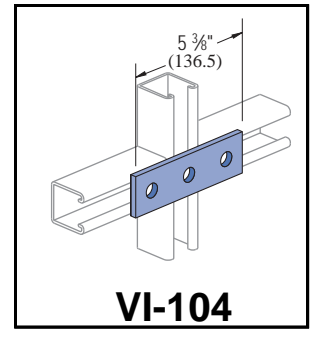
**VI-101**



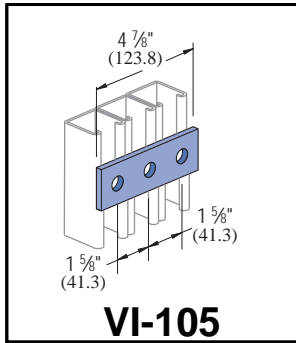
**VI-102**



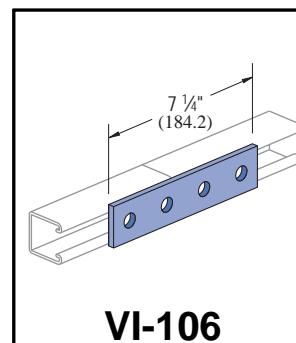
**VI-103**



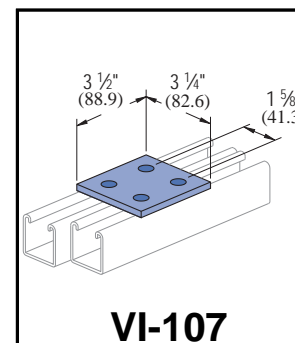
**VI-104**



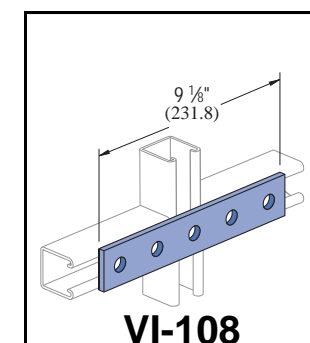
**VI-105**



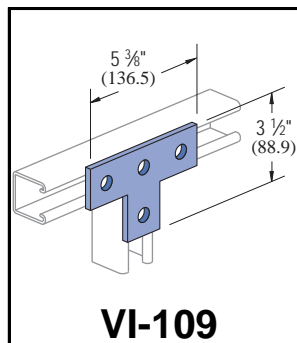
**VI-106**



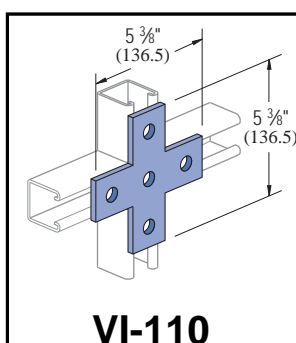
**VI-107**



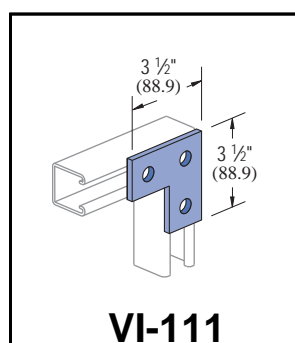
**VI-108**



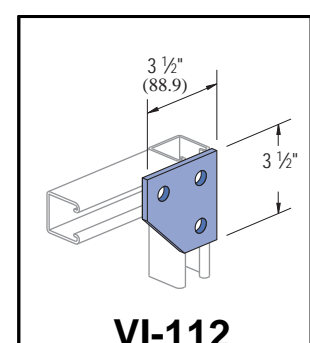
**VI-109**



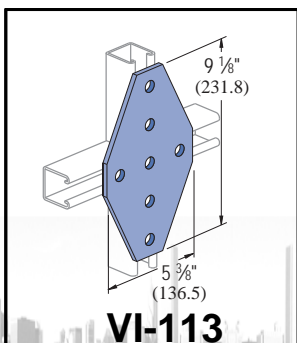
**VI-110**



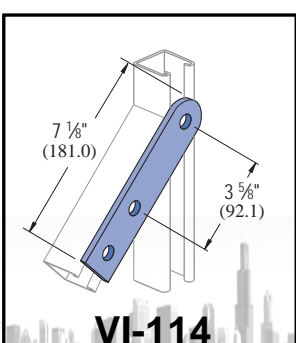
**VI-111**



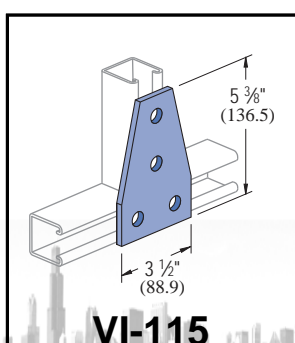
**VI-112**



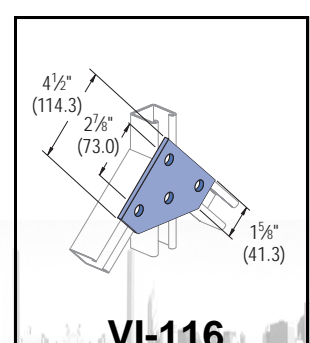
**VI-113**



**VI-114**



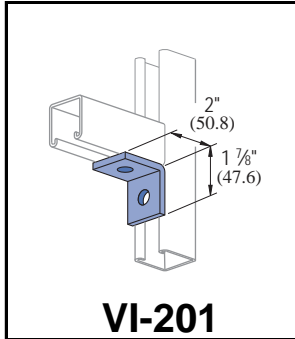
**VI-115**



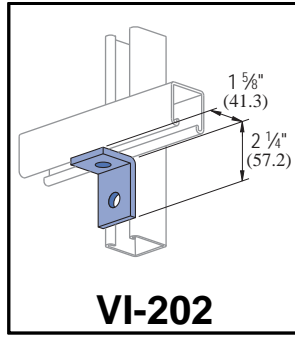
**VI-116**



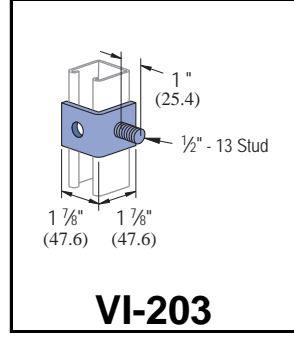
# 90° ANGLE FITTINGS



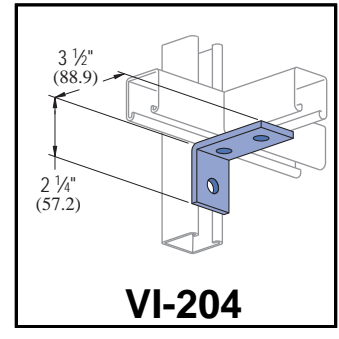
**VI-201**



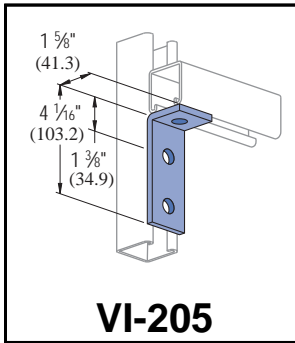
**VI-202**



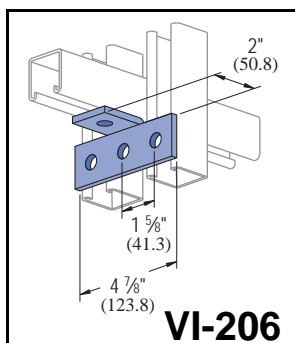
**VI-203**



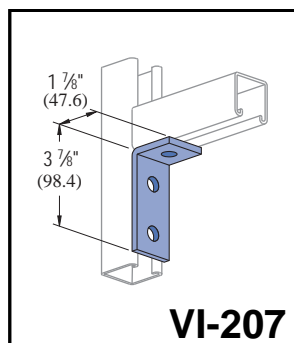
**VI-204**



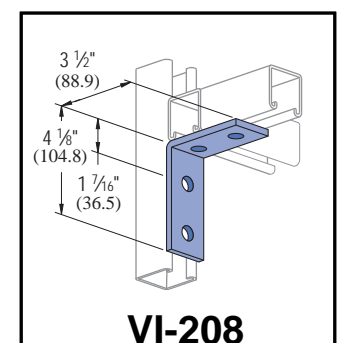
**VI-205**



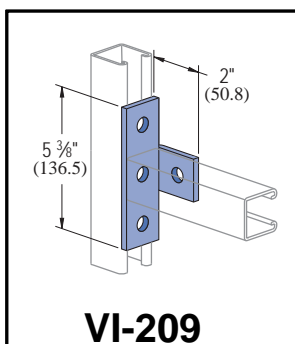
**VI-206**



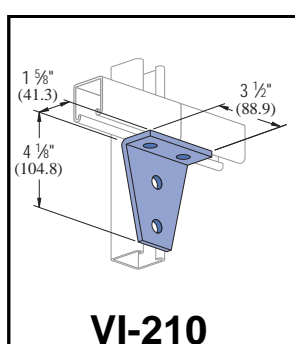
**VI-207**



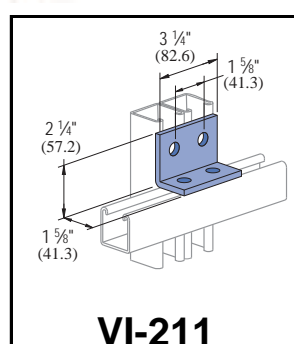
**VI-208**



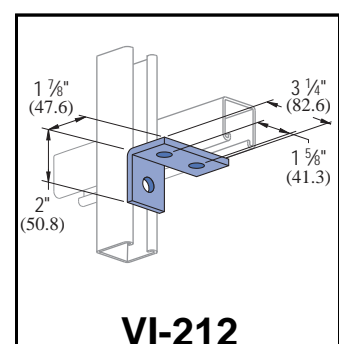
**VI-209**



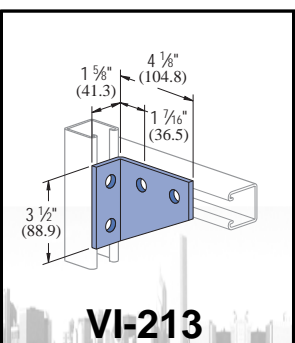
**VI-210**



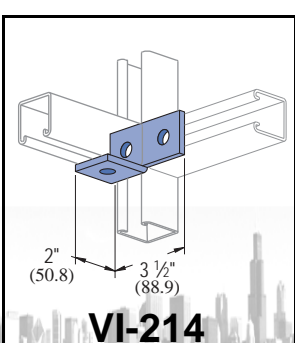
**VI-211**



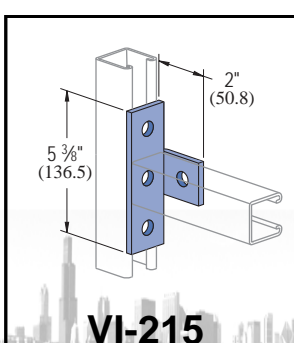
**VI-212**



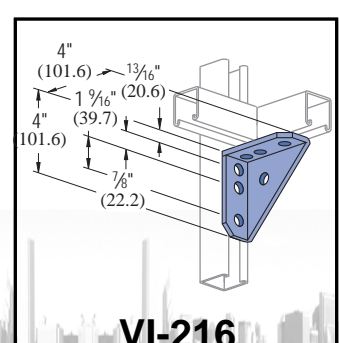
**VI-213**



**VI-214**



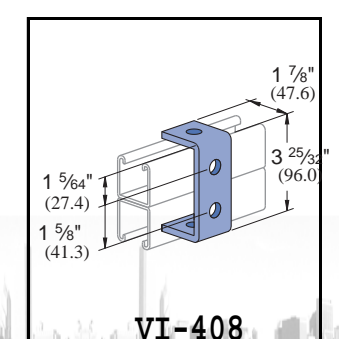
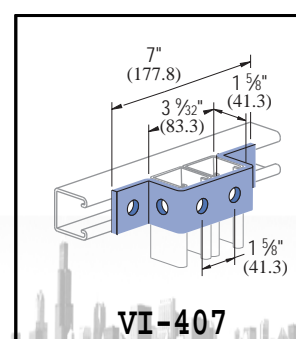
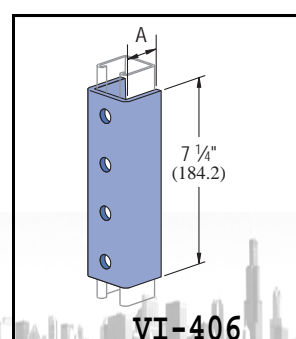
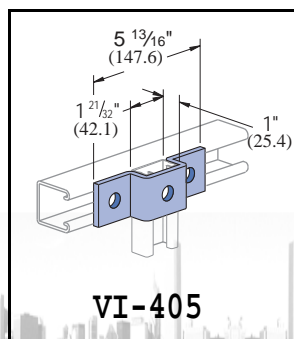
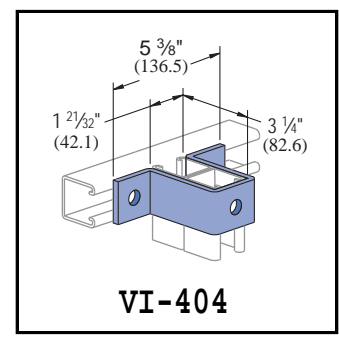
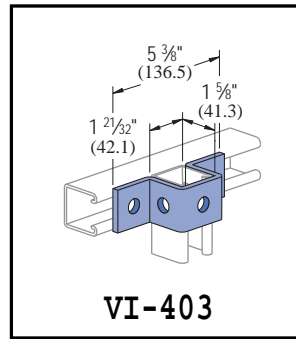
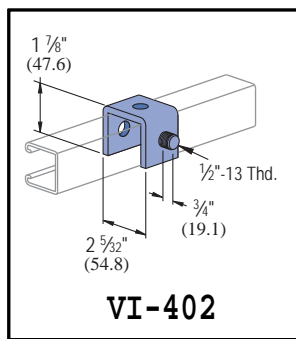
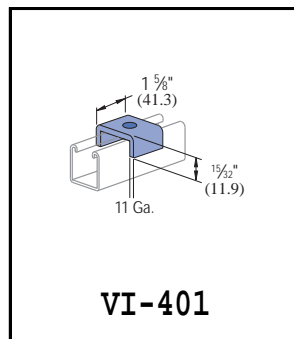
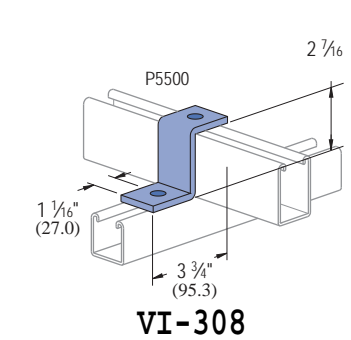
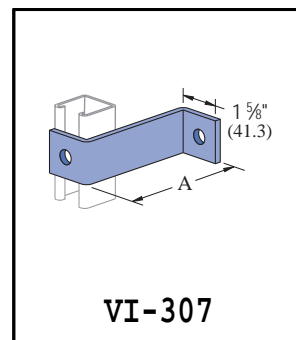
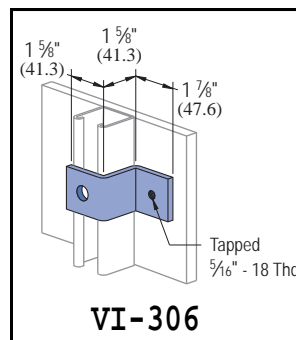
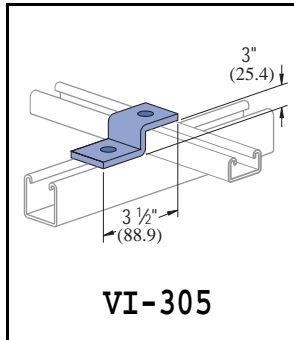
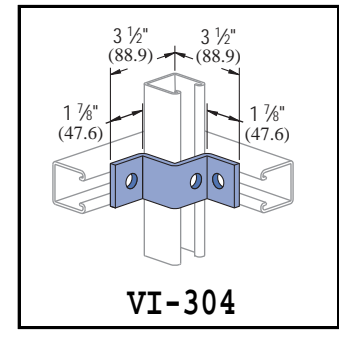
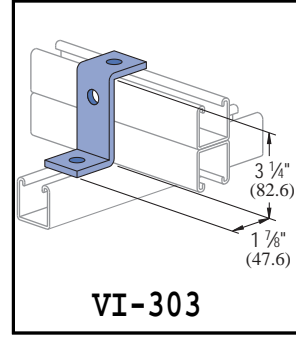
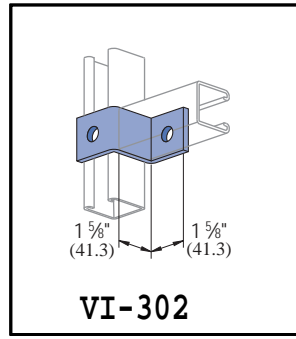
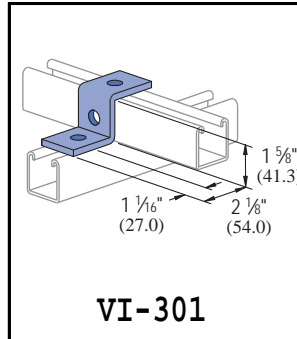
**VI-215**



**VI-216**



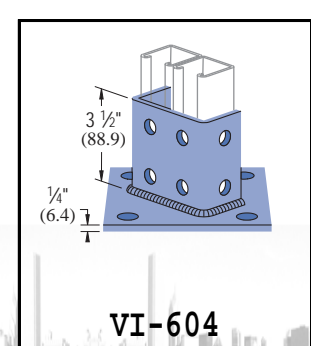
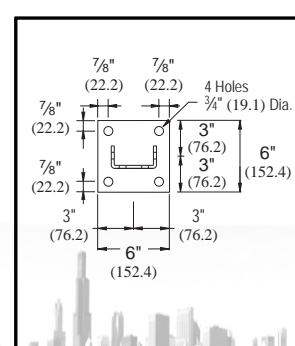
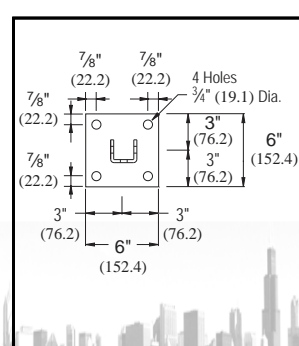
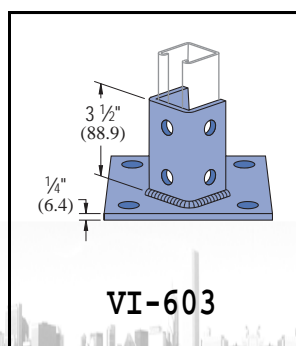
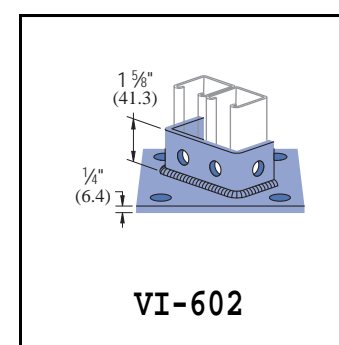
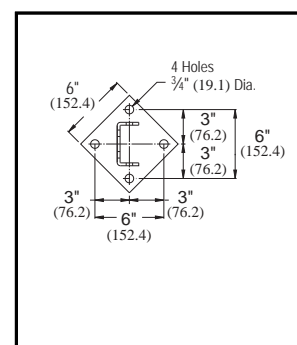
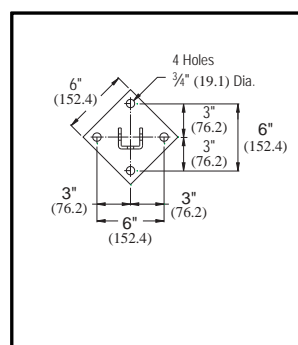
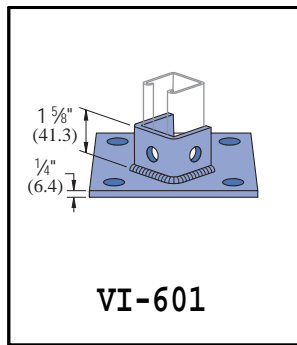
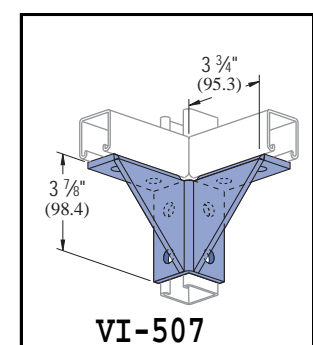
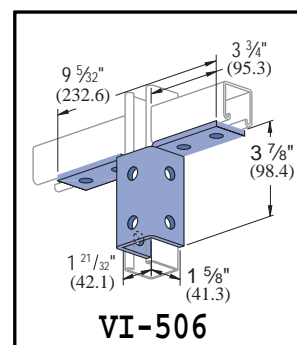
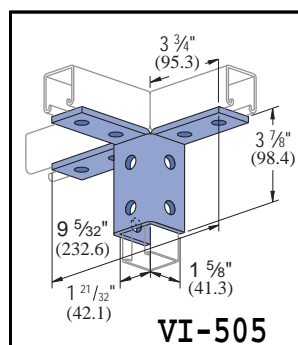
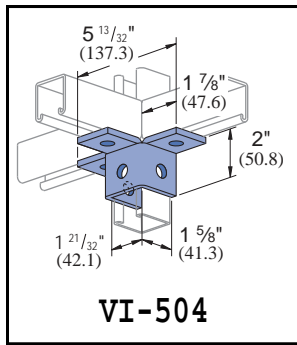
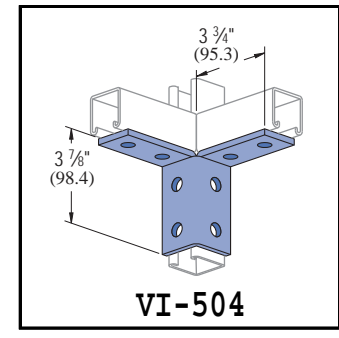
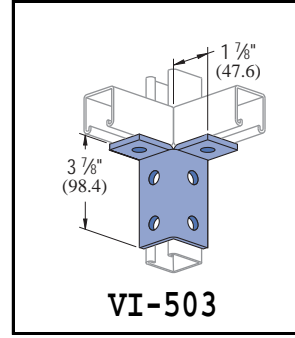
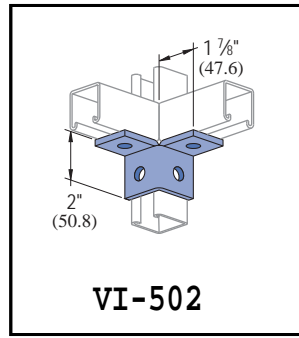
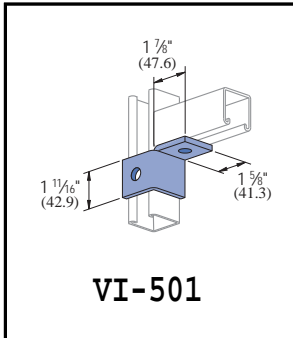
# U & Z FITTINGS





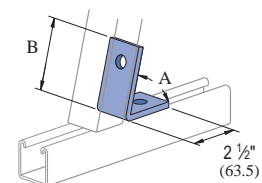
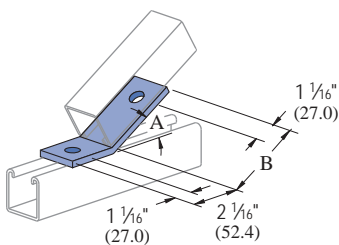
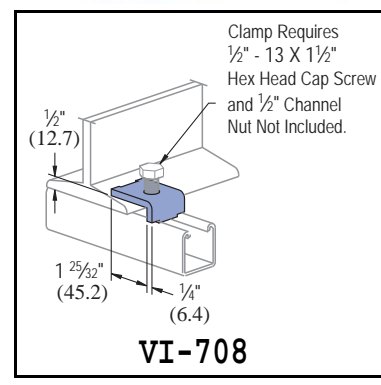
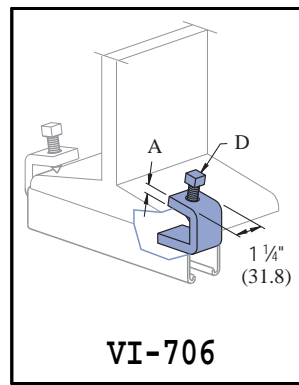
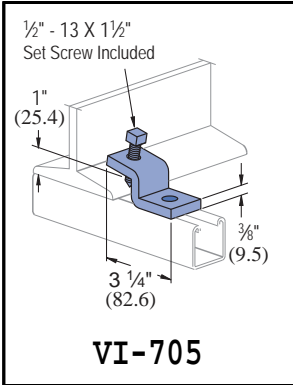
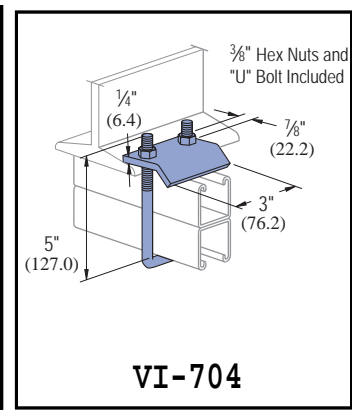
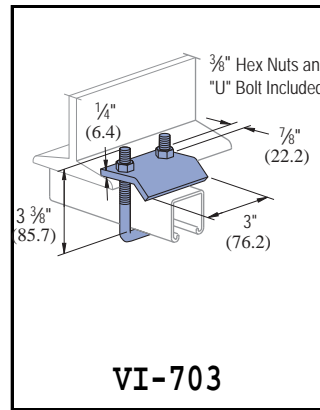
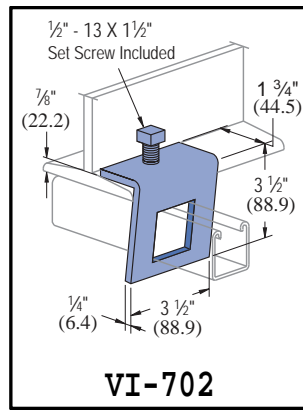
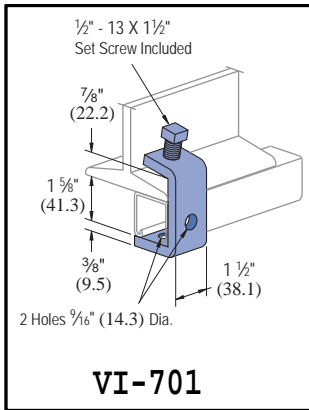


# WING FITTINGS POST BASES





# BEAM CLAMPS ANGULAR FITTINGS



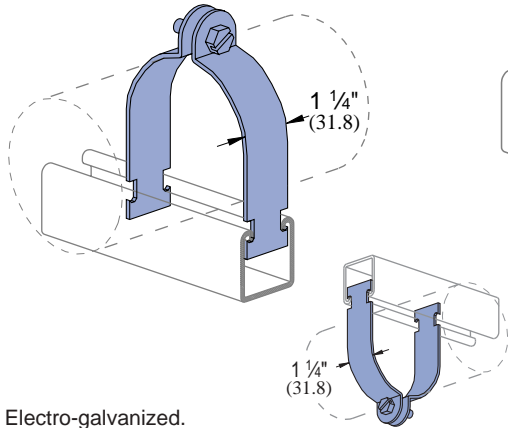
Part Number	"A"		"B"	
	Degree	rad	In	mm
VI-802	30°	.17	3 1/4	82.6
VI-803	22 1/2°	.13	3 5/16	84.1
VI-804	15°	.08	3 3/16	84.1
VI-805	7 1/2°	.04	3 5/16	84.1

Part Number	"A"		"B"	
	Degree	rad	In	mm
VI-807	82 1/2°	.46	3 3/16	81.0
VI-808	75°	.42	3 3/16	81.0
VI-809	67 1/2°	.38	3 3/8	79.4
VI-810	60°	.33	3 1/8	79.4
VI-811	52 1/2°	.29	3 1/16	77.8
VI-812	45°	.25	3 1/8	79.4
VI-813	37 1/2°	.21	3	76.2

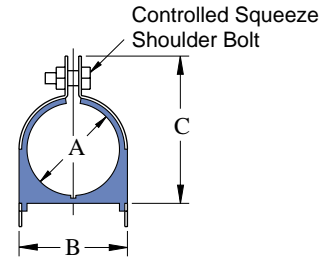
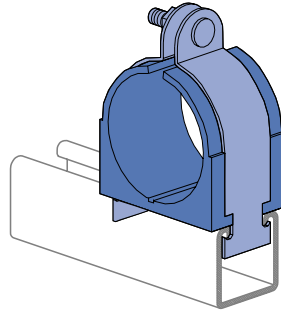


# PIPE CLAMPS

## STRUT FIT CLAMP



Finish: Electro-galvanized.



Clamp: Electro-galvanized or stainless steel.  
 Cushion: Thermoplastic elastomer. (UV Resistant)  
 Includes cushion, clamp and hardware.  
 Temperature Rating:  
 -50°F to +275°F (-45°C to +135°C)  
 Insert Width: 1.56" (39.6)

Part Number	O.D. Size	
	In	mm
VI-1001	1/4	6.4
VI-1002	3/8	9.5
VI-1003	1/2	12.7
VI-1004	5/8	15.9
VI-1005	3/4	19.1
VI-1006	7/8	22.2
VI-1007	1	25.4
VI-1008	1 1/8	28.6
VI-1009	1 1/4	31.8
VI-1010	1 3/8	34.9
VI-1011	1 1/2	38.1
VI-1012	1 5/8	41.3
VI-1013	1 3/4	44.5
VI-1014	1 7/8	47.6
VI-1015	2	50.8
VI-1016	2 1/8	54.0
VI-1017	2 1/4	57.2
VI-1018	2 3/8	60.3
VI-1019	2 1/2	63.5
VI-1020	2 5/8	66.7
VI-1021	2 3/4	69.9
VI-1022	2 7/8	73.0
VI-1023	3	76.2
VI-1024	3 1/8	79.4
VI-1025	3 1/4	82.6
VI-1026	3 3/8	85.7
VI-1027	3 1/2	88.9
VI-1028	3 5/8	92.1
VI-1029	3 3/4	95.3
VI-1030	3 7/8	98.4
VI-1031	4	101.6
VI-1032	4 1/8	104.8
VI-1033	4 1/4	108.0
VI-1034	4 3/8	111.1

Part Number	O.D. Size	
	In	mm
VI-1035	4 1/2	114.3
VI-1036	4 5/8	117.5
VI-1037	4 3/4	120.7
VI-1038	4 7/8	123.8
VI-1039	5	127.0
VI-1040	5 1/8	130.2
VI-1041	5 1/4	133.4
VI-1042	5 3/8	136.5
VI-1043	5 1/2	139.7
VI-1044	5 5/8	142.9
VI-1045	5 3/4	146.1
VI-1046	5 7/8	149.2
VI-1047	6	152.4
VI-1048	6 1/8	155.6
VI-1049	6 1/4	158.8
VI-1050	6 3/8	161.9
VI-1051	6 1/2	165.1
VI-1052	6 5/8	168.3
VI-1053	6 3/4	171.5
VI-1054	6 7/8	174.6
VI-1055	7	177.8
VI-1056	7 1/8	181.0
VI-1057	7 1/4	184.2
VI-1058	7 3/8	187.3
VI-1059	7 1/2	190.5
VI-1060	7 5/8	193.7
VI-1061	7 3/4	196.9
VI-1062	7 7/8	200.0
VI-1063	8	203.2
VI-1064	8 1/8	206.4
VI-1065	8 1/4	209.6
VI-1066	8 3/8	212.7
VI-1067	8 1/2	215.9
VI-1068	8 5/8	219.1



Clevis Clamp



Riser Clamp



Rubber Lined Clevis Clamp



Sprinkler Clamp



Rubber Lined Split Pipe Clamp



Purlin Clip

# VINAYAK INTERNATIONAL

AN ISO 9001:2015 CERTIFIED COMPANY

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