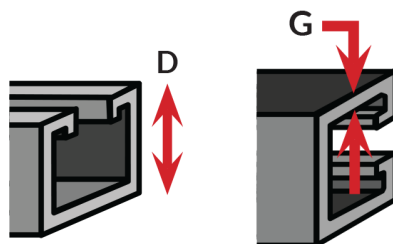
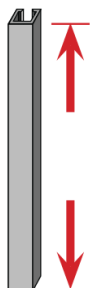


Gauge and Depth



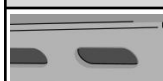
12 GAUGE 0.102
1-5/8" x 7/8" D

Length



- **STANDARD 10'** (Shorter runs for easy handling)
- **STANDARD 20'** (Typical for longer runs)
- **6'8"** (Typical for commercial joists distance)
- **CUSTOM CUT-TO-LENGTH**

Perforation



OVAL SLOT (Half slot) [9/16" x 11/8" x 2" on ctr.]



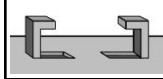
LONG SLOT (Elongated slot) [13/32" x 3" x 4" on ctr.]



ROUND HOLE [9/16" DIAM x 1-7/8" on ctr.]



KNOCK OUT [7/8" DIAM x 6" on ctr.]

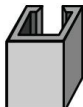


CONTINUOUS CONCRETE INSERT

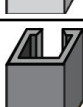


SOLID (No perforation)

Material

	STEEL (Carbon steel, structural grade, 33,000 min yield)
	STAINLESS STEEL [304 or 316]
	ALUMINUM
	FIBERGLASS

Finish

	PRE-GALVANIZED (Continuous galvanized) - G90 zinc coating weight for cost-effective long-term galvanic and barrier corrosion protection
	HOT DIPPED Galvanized (HDG – after fabrication, batch dip) where aqueous or exterior applications require greater corrosion protection
	GREEN Powder or “e”-coated painted topical coating
	PVC COAT Heavy PVC coat for extended barrier protection or cosmetic effects (May PVC coat over plain or galvanized)
	WIZCoat™ GALVANNEAL Paintable pregalvanized material requires no pre-treatment. Easily spray painted post-installation
	PLAIN Untreated, “plain” steel with no topical/barrier coating
	GOLD Yellow zinc dichromate electro-galvanized
	CUSTOM COLORS Custom powder coating available in virtually any color variations



G782 SERIES METAL FRAMING STRUT CHANNEL

Gregory G-STRUT Submittal Form

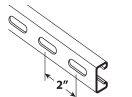
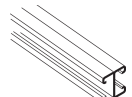
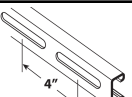
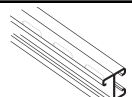
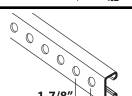
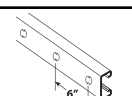
Project Name	
Project Start Date	
Architect or Engineer	
Phone	
Contractor(s)	
Address	
City	
State	
Zip	

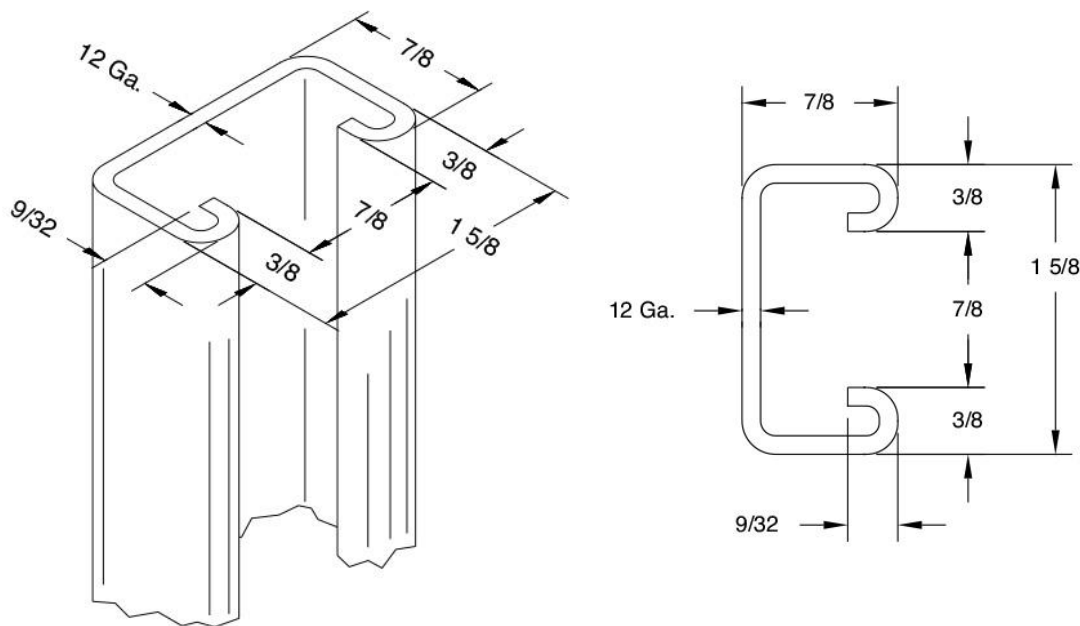
Approval



G782 SERIES METAL FRAMING STRUT CHANNEL

1-5/8" x 7/8" (1.625" x 0.875") • 12 gauge (0.102" thick)

	G782OS [Oval-Slot] 9/16" x 1-1/8" - 2" ON CTR		G782A [Back-to-Back] WELDED
	G782LS [Long-Slot] 13/32" x 3" - 4" ON CTR		G782AOS [Back-to-Back Oval-Slot] WELDED
	G782H [Holes] 9/16" DIAM. - 1-7/8" ON CTR		G782KO [KNOCK OUT] 7/8" DIAM. - 6" ON CTR



ITEM	QNT'Y	DESCRIPTION	MATERIAL
		ROLLFORM TOLERANCES	
SCALE	FULL	CHK'D BY	LENGTH $\pm 0.125"$
DWN BY	IDI	02-02-02	APP'D BY
G-STRUT CHANNEL, PART # G782			
CAD FILENAME G782	GREGORY STRUT PRODUCTS Division of GRegory Industries		REF. No.
LAST PLOT DATE 02-02-02	4100 13th Street SW, Canton, OH 44710 PH: 330-477-4800 • FX: 330-477-0626		DRWG No. G782

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G782 SERIES METAL FRAMING STRUT CHANNEL

ELEMENTS OF SECTION								
			X-X AXIS			X-Y AXIS		
Strut Section No.	Weight/Foot lbs.	Area of Section in. ²	Moment of Inertia in. ⁴	Section Modules in. ³	Radius of Gyration in.	Moment of Inertia in. ⁴	Section Modules in. ³	Radius of Gyration in.
G782	1.307	0.384	0.036	0.069	0.306	0.141	0.174	0.606
G782A	2.613	0.768	0.168	0.192	0.331	0.282	0.347	0.428

BEAM & COLUMN LOADS					
Strut Section Number	Beam Span or Column Height	Maximum Column Load	Total Uniform Load @ 25,000 psi	Deflection @ 25000 psi	Uniform Load @ 1/240 Span Deflection
	in.	lbs.	lbs.	in.	lbs.
G782	12	6820	1150	0.02	1150
	18	6290	760	0.05	760
	24	5680	570	0.09	570
	30	4970	460	0.15	370
	36	4180	380	0.22	250
	42	3300	320	0.29	180
	48	2520	280	0.38	140
	54	1990	250	0.49	110
	60	1610	230	0.61	90
	66	1330	200	0.71	70
	72	1120	190	0.88	60
	84	-	160	1.18	40
	96	-	140	1.54	30
	108	-	120	1.88	20
	120	-	110	2.37	20
	132	-	100	2.86	10
	144	-	90	3.35	10
	156	-	80	3.78	10
	168	-	80	4.73	10
	180	-	70	5.09	10
	192	-	70	6.17	0
	204	-	60	6.35	0
	216	-	60	7.54	0
	228	-	60	8.86	0
	240	-	50	8.62	0



G782A SERIES METAL FRAMING STRUT CHANNEL

BEAM & COLUMN LOADS

Strut Section Number	Beam Span or Column Height	Maximum Column Load	Total Uniform Load @25,000 psi	Deflection @ 25000 psi	Uniform Load @ 1/240 Span Deflection
	in.	lbs.	lbs.	in.	lbs.
G782A	12	14060	3200	0.01	3200
	18	13330	2130	0.03	2130
	24	12480	1600	0.05	1600
	30	11530	1280	0.09	1280
	36	10470	1060	0.13	1060
	42	9310	910	0.18	880
	48	8050	800	0.23	670
	54	6660	710	0.29	530
	60	5400	640	0.36	430
	66	4460	580	0.44	350
	72	3750	530	0.52	300
	84	-	450	0.71	220
	96	-	400	0.94	LS
	108	-	350	1.17	H
	120	-	320	1.47	130
	132	-	290	1.78	100
	144	-	260	2.07	80
	156	-	240	2.43	70
	168	-	220	2.78	60
	180	-	210	3.27	50
	192	-	200	3.78	40
	204	-	180	4.08	40
	216	-	170	4.57	30
	228	-	160	5.06	30
	240	-	160	5.91	20

For Perforated Channels, Reduce Total Beam Load Values as Follows:

G812/G812A	OS	15%
G812/G812A	LS	34%
G812/G812A	H	18%
G812/G812A	KO	10%
E = 29000; Fy = 42700; K = 0.8		



G782 SERIES METAL FRAMING STRUT CHANNEL

$E = 29000$; $F_y = 42700$; $K = 0.8$

COLUMN LOADS: Column loads are for allowable axial loads for the unsupported heights listed (including a K value of 0.80). Column loads must be reduced for eccentric loading.

BEAM LOADS: Loads listed are distributed uniformly. For loads concentrated at center of span, multiply uniform load by 0.5 and deflection by 0.8. Where deflection is not a factor, use stress of 25,000 PSI. When deflection is a factor, use deflection of 1/240 span.