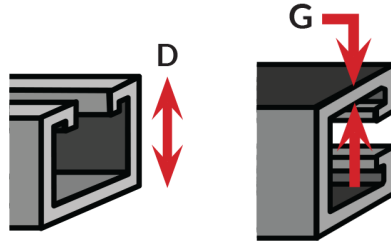
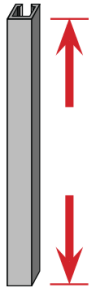


### Gauge and Depth



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

### Length

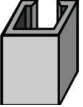





- **STANDARD 10'** (Shorter runs for easy handling)
- **STANDARD 20'** (Typical for longer runs)
- **6'8"** (Typical for commercial joists distance)
- **CUSTOM CUT-TO-LENGTH**





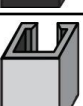
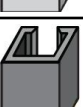


### Perforation

	<b>OVAL SLOT (Half slot)</b> [9/16" x 11/8" x 2" on ctr.]
	<b>LONG SLOT (Elongated slot)</b> [13/32" x 3" x 4" on ctr.]
	<b>ROUND HOLE</b> [9/16" DIAM x 1-7/8" on ctr.]
	<b>KNOCK OUT</b> [7/8" DIAM x 6" on ctr.]
	<b>CONTINUOUS CONCRETE INSERT</b>
	<b>SOLID (No perforation)</b>

## Material

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

## Finish

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



### Gregory G-STRUT Submittal Form

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

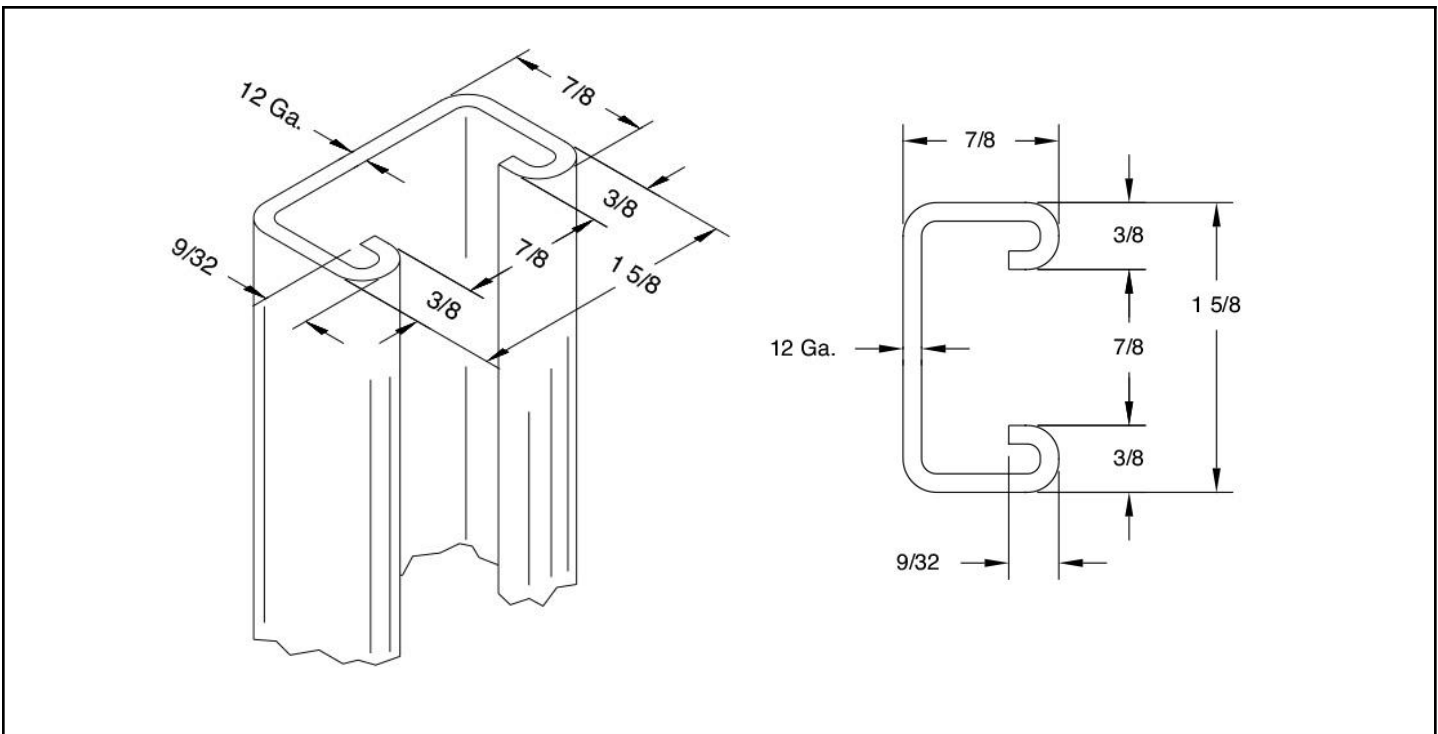
Approval



# G782 SERIES METAL FRAMING STRUT CHANNEL

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

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



ITEM	QNT'Y	DESCRIPTION	MATERIAL
			ROLLFORM TOLERANCES
SCALE	FULL	CHK'D BY	LENGTH ± 0.125"
DWN BY	IDI	02-02-02	APP'D BY
ALL OTHER DIMENSIONS ± 0.020"			

## G-STRUT CHANNEL, PART # G782

CAD FILENAME <b>G782</b>	<b>GREGORY STRUT PRODUCTS</b> Division of GRegory Industries 4100 13th Street SW, Canton, OH 44710 PH: 330-477-4800 • FX: 330-477-0626	REF. No.
LAST PLOT DATE <b>02-02-02</b>		DRWG No. <b>G782</b>

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## G782 SERIES METAL FRAMING STRUT CHANNEL

ELEMENTS OF SECTION								
			X-X AXIS			Y-Y AXIS		
Strut Section No.	Weight/ Foot lbs.	Area of Section in. <sup>2</sup>	Moment of Inertia in. <sup>4</sup>	Section Modulus in. <sup>3</sup>	Radius of Gyration in.	Moment of Inertia in. <sup>4</sup>	Section Modulus in. <sup>3</sup>	Radius of Gyration in.
G782	1.307	0.384	0.037	0.069	0.306	0.141	0.174	0.606
G782A	2.613	0.768	0.168	0.192	0.468	0.282	0.347	0.606

BEAM & COLUMN LOADS					
Strut Section Number	Beam Span or Column Height	Maximum Column Load	Total Uniform Load @25,000 psi	Deflection @ 25,000 psi	Uniform Load @ 1/240 Span Deflection
	in.	lbs.	lbs.	in.	lbs.
<b>G782</b>	12	6820	1150	0.02	-
	18	6290	760	0.05	-
	24	5680	570	0.09	-
	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	8.63	0



## G782 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 @ 25,000 psi	Uniform Load @ 1/240 Span Deflection
	in.	lbs.	lbs.	in.	lbs.
<b>G782A</b>	12	14430	3200	0.01	-
	18	13980	2130	0.03	-
	24	13460	1600	0.05	-
	30	12890	1280	0.09	-
	36	12260	1060	0.13	-
	42	11580	910	0.18	880
	48	10850	800	0.23	670
	54	10060	710	0.29	530
	60	9230	640	0.36	430
	66	8340	580	0.44	350
	72	7400	530	0.52	300
	84	5510	450	0.71	220
	96	4220	400	0.94	160
	108	3330	350	1.17	130
	120	-	320	1.47	100
	132	-	290	1.78	80
	144	-	260	2.07	70
	156	-	240	2.43	60
	168	-	220	2.78	50
	180	-	210	3.27	40
	192	-	200	3.78	40
	204	-	180	4.08	30
	216	-	170	4.57	30
	228	-	160	5.06	20
	240	-	160	5.91	20

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

G782/G782A	OS	22%
G782/G782A	LS	35%
G782/G782A	H	14%
G782/G782A	KO	6%



## 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.