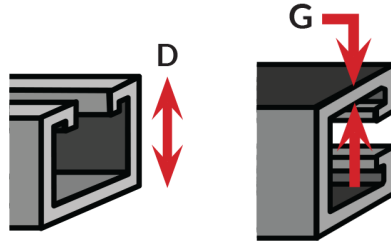
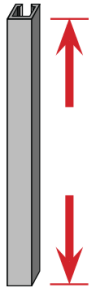


Gauge and Depth



12 GAUGE 0.102
1-5/8" x 3-1/4" D

Length

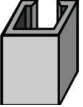





- **STANDARD 10'** (Shorter runs for easy handling)
- **STANDARD 20'** (Typical for longer runs)
- **6'8"** (Typical for commercial joists distance)
- **CUSTOM CUT-TO-LENGTH**






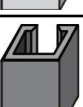


Perforation

	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



Gregory G-STRUT Submittal Form

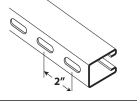
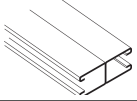
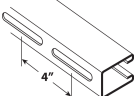
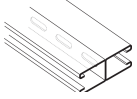
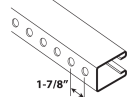
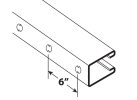
Project Name	
Project Start Date	
Architect or Engineer	
Phone	
Contractor(s)	
Address	
City	
State	
Zip	

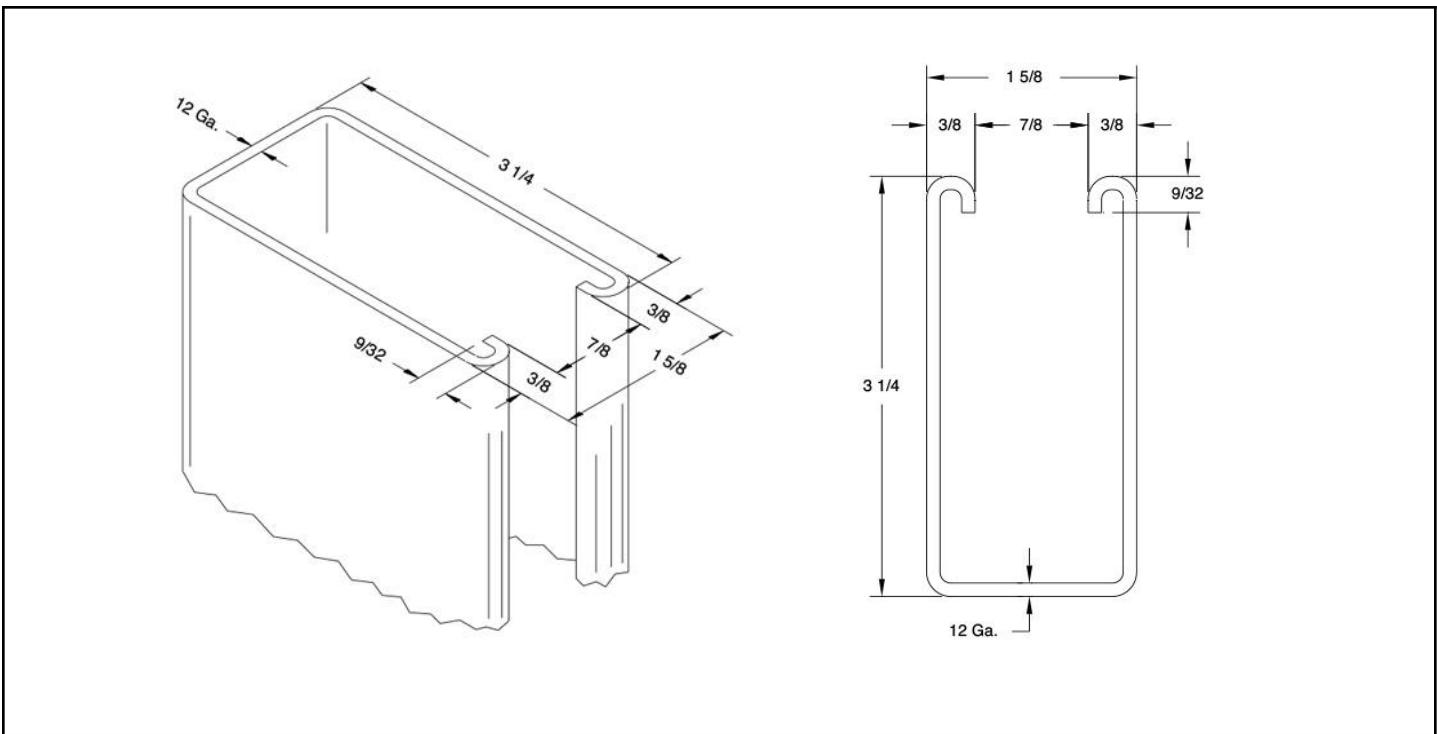
Approval



G812 SERIES METAL FRAMING STRUT CHANNEL

1-5/8" x 3-1/4" (1.625" x 3.25") • 12 gauge (0.102" thick)

	G812OS [Oval-Slot] 9/16" x 1-1/8" - 2" ON CTR		G812A [Back-to-Back] WELDED
	G812LS [Long-Slot] 13/32" x 3" - 4" ON CTR		G812AOS [Back-to-Back Oval-Slot] WELDED
	G812H [Holes] 9/16" DIAM. - 1-7/8" ON CTR		G812KO [KNOCK OUT] 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 # G812

CAD FILENAME G812	GREGORY STRUT PRODUCTS Division of Gregory Industries 4100 13th Street SW, Canton, OH 44710 PH: 330-477-4800 • FX: 330-477-0626	REF. No.
LAST PLOT DATE 02-02-02		DRWG No. G812

This drawing is the property of Gregory Strut Prod. and is loaned without other consideration than the agreement and condition that it is not to be reproduced, copied or otherwise disposed of, directly or indirectly, and is not to be used in whole or in part to assist in making or to furnish any information for the making of drawings, prints apparatus or parts thereof. This drawing shall be returned to Gregory Strut Prod. upon request. The acceptance of this drawing will be construed as an acceptance of the foregoing conditions, and as an admission of the exclusive ownership in and to the drawing of Gregory Strut products.



G812 SERIES METAL FRAMING STRUT CHANNEL

ELEMENTS OF SECTION								
			X-X AXIS			Y-Y AXIS		
Strut Section No.	Weight/ Foot lbs.	Area of Section in. ²	Moment of Inertia in. ⁴	Section Modulus in. ³	Radius of Gyration in.	Moment of Inertia in. ⁴	Section Modulus in. ³	Radius of Gyration in.
G812	2.957	0.869	1.061	0.605	1.105	0.422	0.519	0.697
G812A	5.914	1.738	6.006	1.848	1.859	0.844	1.039	0.697

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.
G812	12	19540	10080	0	-
	18	19300	6720	0.01	-
	24	19030	5040	0.02	-
	30	18740	4030	0.04	-
	36	18420	3360	0.06	-
	42	18080	2880	0.09	-
	48	17730	2520	0.11	-
	54	17200	2240	0.14	-
	60	16390	2010	0.18	-
	66	15530	1830	0.22	-
	72	14640	1680	0.26	-
	84	12710	1440	0.36	1390
	96	10590	1260	0.47	1060
	108	8440	1120	0.59	840
	120	6840	1000	0.73	680
	132	5650	910	0.88	560
	144	4750	840	1.06	470
	156	4040	770	1.23	400
	168	3490	720	1.44	340
	180	-	670	1.65	300
	192	-	630	1.88	260
	204	-	590	2.11	230
	216	-	560	2.38	210
	228	-	530	2.65	180
	240	-	500	2.92	170



G812 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.
G812A	12	39500	30800	0	-
	18	39270	20530	0	-
	24	39030	15400	0.01	-
	30	38770	12320	0.02	-
	36	38500	10260	0.03	-
	42	37360	8800	0.04	-
	48	35930	7700	0.06	-
	54	34400	6840	0.08	-
	60	32780	6160	0.09	-
	66	31070	5600	0.12	-
	72	29280	5130	0.14	-
	84	25420	4400	0.19	-
	96	21190	3850	0.25	-
	108	16890	3420	0.32	-
	120	13680	3080	0.39	-
	132	11300	2800	0.48	-
	144	9500	2560	0.57	-
	156	8090	2360	0.66	2290
	168	6980	2200	0.77	1970
	180	-	2050	0.89	1720
	192	-	1920	1.01	1510
	204	-	1810	1.14	1330
	216	-	1710	1.28	1190
	228	-	1620	1.43	1070
	240	-	1540	1.59	960

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

G812/G812A	OS	20%
G812/G812A	LS	33%
G812/G812A	H	12%
G812/G812A	KO	5%



G812 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.