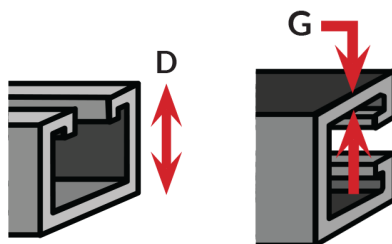
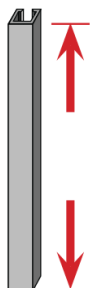


Gauge and Depth



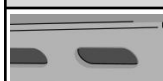
12 GAUGE 0.102
1-5/8" x 2-7/16" D

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.]



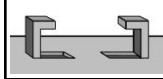
LONG SLOT (Elongated slot) [13/32" x 3" x 4" on ctr.]



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



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



CONTINUOUS CONCRETE INSERT

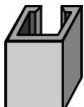


SOLID (No perforation)

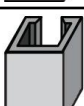


G712 SERIES METAL FRAMING STRUT CHANNEL

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



G712 SERIES METAL FRAMING STRUT CHANNEL

Gregory G-STRUT Submittal Form

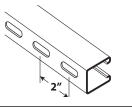
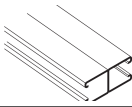
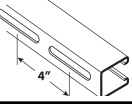
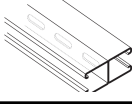
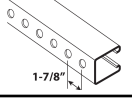
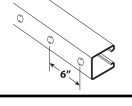
Project Name	
Project Start Date	
Architect or Engineer	
Phone	
Contractor(s)	
Address	
City	
State	
Zip	

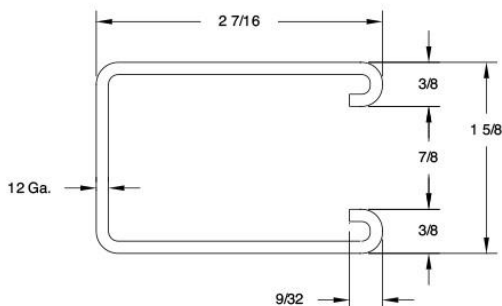
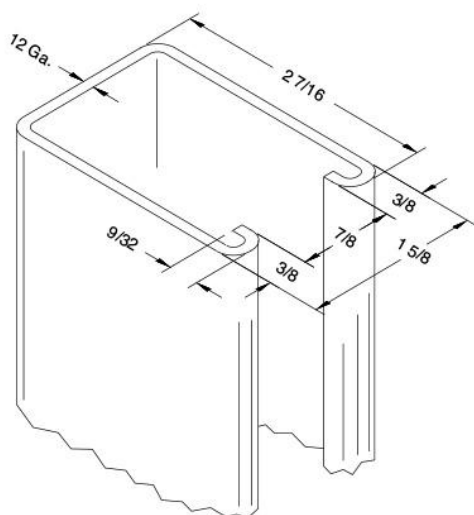
Approval



G712 SERIES METAL FRAMING STRUT CHANNEL

1-5/8" x 2-7/16" (1.625" x 2.4375") • 12 gauge (0.102" thick)

	G712OS [Oval-Slot] 9/16" x 1-1/8" - 2" ON CTR		G712A [Back-to-Back] WELDED
	G712LS [Long-Slot] 13/32" x 3" - 4" ON CTR		G712AOS [Back-to-Back Oval-Slot] WELDED
	G712H [Holes] 9/16" DIAM. - 1-7/8" ON CTR		G712KO [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 # G712			
CAD FILENAME G712	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. G712

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G712 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.
G712	2.392	0.703	0.503	0.376	0.846	0.326	0.401	0.681
G712A	4.784	1.406	2.701	1.108	0.98	0.652	0.802	0.482

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.
G712	12	15280	6260	0	6260
	18	15010	4170	0.02	4170
	24	14710	3130	0.03	3130
	30	14370	2500	0.06	2500
	36	14010	2080	0.08	2080
	42	13620	1790	0.11	1790
	48	13200	1560	0.15	1560
	54	12760	1390	0.19	1390
	60	12290	1250	0.24	1250
	66	11800	1130	0.28	1070
	72	11290	1040	0.34	900
	84	10010	890	0.47	660
	96	8230	780	0.61	500
	108	6520	690	0.77	400
	120	5280	620	0.95	320
	132	4360	560	1.14	260
	144	3660	520	1.38	220
	156	3120	480	1.62	190
	168	2690	440	1.86	160
	180	-	410	2.13	140
	192	-	390	2.46	120
	204	-	360	2.72	110
	216	-	340	3.05	100
	228	-	320	3.38	80
	240	-	310	3.82	80



G712 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.
G712A	12	30810	18460	0	-
	18	30430	12310	0.01	-
	24	30000	9230	0.02	-
	30	29550	7380	0.03	-
	36	28230	6150	0.04	-
	42	26350	5270	0.06	-
	48	24320	4610	0.08	-
	54	22140	4100	0.1	-
	60	19800	3690	0.13	-
	66	17310	3350	0.16	-
	72	14700	3070	0.19	-
	84	10800	2630	0.25	-
	96	8270	2300	0.33	-
	108	6530	2050	0.42	-
	120	5290	1840	0.52	1740
	132	-	1670	0.63	1430
	144	-	1530	0.75	1200
	156	-	1420	0.89	1020
	168	-	1310	1.03	880
	180	-	1230	1.19	770
	192	-	1150	1.35	670
	204	-	1080	1.52	600
	216	-	1020	1.7	530
	228	-	970	1.91	480
	240	-	920	2.11	430

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

G812/G812A	OS	12%
G812/G812A	LS	25%
G812/G812A	H	10%
G812/G812A	KO	5%

E = 29000; Fy = 42700; K = 0.8



G712 SERIES METAL FRAMING STRUT CHANNEL

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.