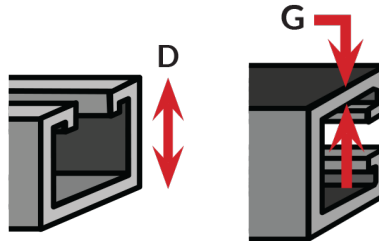
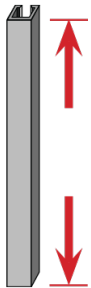


Gauge and Depth



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

Length

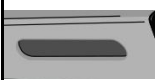


- **STANDARD 10'** (Shorter runs for easy handling)
- **STANDARD 20'** (Typical for longer runs)
- **6'8"** (Typical for commercial joists distance)
- **CUSTOM CUT-TO-LENGTH**

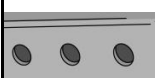
Perforation



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



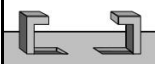
LONG SLOT (Elongated slot) [13/32" x 3" x 4" on ctr.]



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

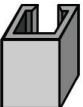


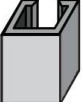
KNOCK OUT [7/8" DIAM x 6" on ctr.]



CONTINUOUS CONCRETE INSERT

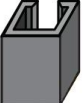

SOLID (No perforation)

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



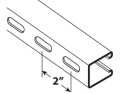
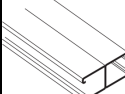
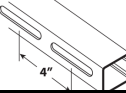
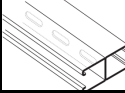
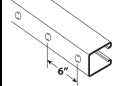
G712 SERIES METAL FRAMING STRUT CHANNEL

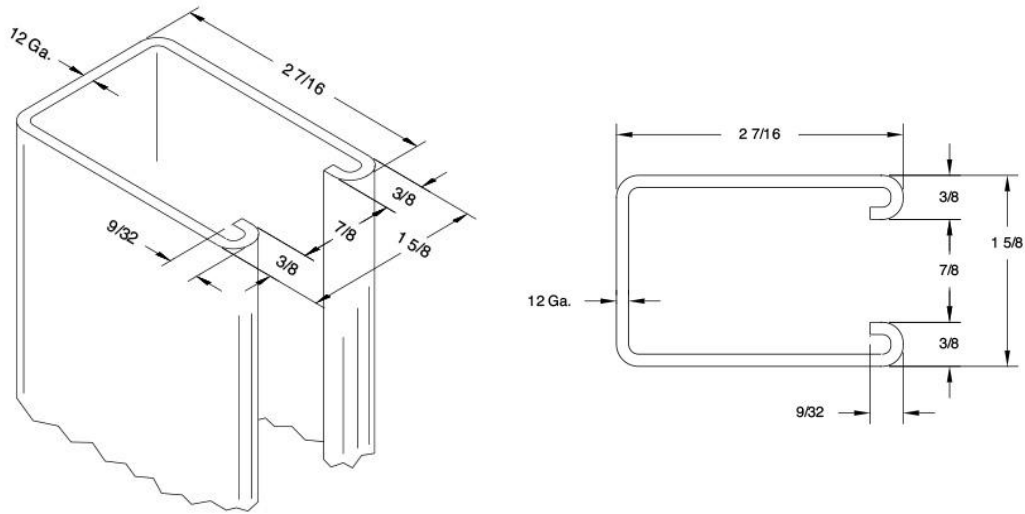
	PLAIN Untreated, "plain" steel with no topical/barrier coating
	GOLD Yellow zinc dichromate electro-galvanized
	CUSTOM COLORS Custom powder coating available in virtually any color variations

Gregory G-STRUT Submittal Form

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

Approval

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 ± 0.125"
DWN BY		IDI	02-02-02		APP'D BY
ALL OTHER DIMENSIONS ± 0.020"					
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
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.					

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.
G712	2.392	0.703	0.503	0.376	0.846	0.326	0.401	0.681



G712 SERIES METAL FRAMING STRUT CHANNEL

G712A	4.784	1.406	2.701	1.108	1.386	0.652	0.802	0.681
-------	-------	-------	-------	-------	-------	-------	-------	-------

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.
G712	12	15280	6260	0	-
	18	15010	4170	0.02	-
	24	14710	3130	0.03	-
	30	14370	2500	0.06	-
	36	14010	2080	0.08	-
	42	13620	1790	0.11	-
	48	13200	1560	0.15	-
	54	12760	1390	0.19	-
	60	12290	1250	0.24	-
	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	-	2,390	2.46	120
	204	-	390	2.46	120
	216	-	340	3.05	100
	228	-	320	3.38	80
	240	-	310	3.82	80

BEAM & COLUMN LOADS					
Strut Section	Beam Span	Maximum	Total Uniform	Deflection	Uniform Load



G712 SERIES METAL FRAMING STRUT CHANNEL

Number	or Column Height	Column Load	Load @25,000 psi	@ 25,000 psi	@ 1/240 Span Deflection
	in.	lbs.	lbs.	in.	lbs.
G712A	12	31020	18460	0	-
	18	30770	12310	0.01	-
	24	30500	9230	0.02	-
	30	30210	7380	0.03	-
	36	29900	6150	0.04	-
	42	29570	5270	0.06	-
	48	28830	4610	0.08	-
	54	27550	4100	0.1	-
	60	26200	3690	0.13	-
	66	24770	3350	0.16	-
	72	23260	3070	0.19	-
	84	20020	2630	0.25	-
	96	16460	2300	0.33	-
	108	13040	2050	0.42	-
	120	10560	1840	0.52	1740
	132	8730	1670	0.63	1430
	144	7330	1530	0.75	1200
	156	6250	1420	0.89	1020
	168	5390	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:

G712/G712A	OS	20%
G712/G712A	LS	33%
G712/G712A	H	12%



G712 SERIES METAL FRAMING STRUT CHANNEL

G712/G712A	KO	5%
E = 29000; Fy = 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.
---	---