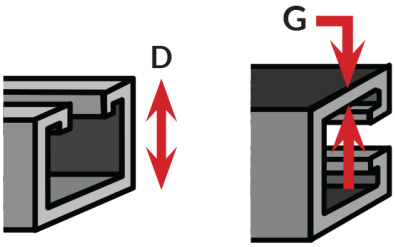
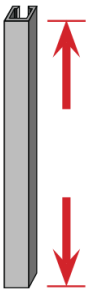
G134 SERIES METAL FRAMING STRUT CHANNEL

Gauge and Depth



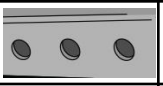
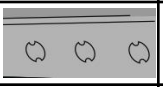
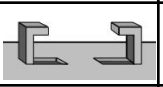
14 GAUGE 0.077
1-5/8" x 13/16" D

Length

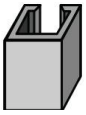


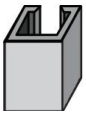
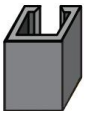
- **STANDARD 10'** (Shorter runs for easy handling)
- **STANDARD 20'** (Typical for longer runs)
- **6'8"** (Typical for commercial joists distance)
- **CUSTOM CUT-TO-LENGTH**

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)**

G134 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

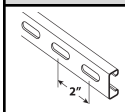
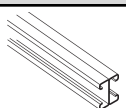
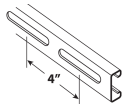
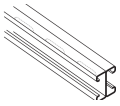
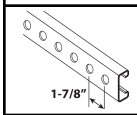
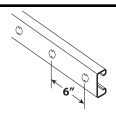
Gregory G-STRUT Submittal Form

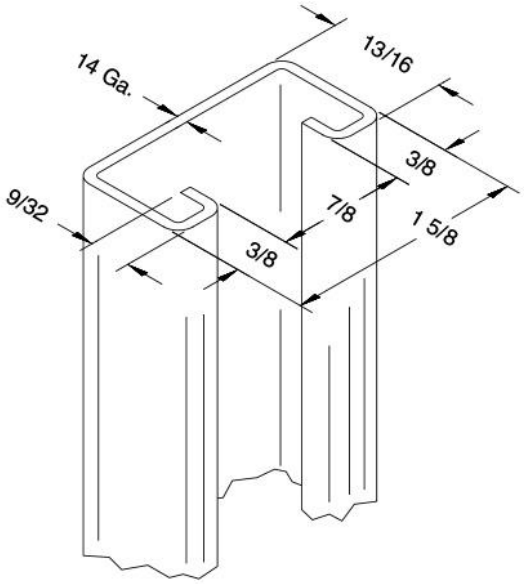
Project Name	
Project Start Date	
Architect or Engineer	
Phone	
Contractor(s)	
Address	
City	
State	
Zip	

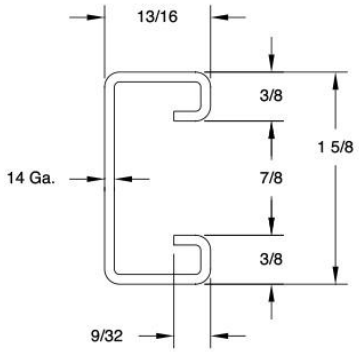
Approval

G134 SERIES METAL FRAMING STRUT CHANNEL

1-5/8” x 13/16” (1.625” x 0.8125”) • 14 gauge (0.077” thick)

	**G134OS [Oval-Slot]** 9/16” x 1-1/8” - 2” ON CTR		**G134A [Back-to-Back]** WELDED
	**G134LS [Long-Slot]** 13/32” x 3” - 4” ON CTR		**G134AOS [Back-to-Back Oval-Slot]** WELDED
	**G134H [Holes]** 9/16” DIAM. - 1-7/8" ON CTR		**G134KO [KNOCK OUT]** 7/8” DIAM. - 6” ON CTR





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

G-STRUT CHANNEL, PART # G134

CAD FILENAME **G134** LAST PLOT DATE **02-02-02**	**GREGORY STRUT PRODUCTS** DIvision of GRegory Industries	REF. No.
	4100 13th Street SW, Canton, OH 44710 PH: 330-477-4800 • FX: 330-477-0626	DRWG No. **G134**

G134 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.
G134	1.000	0.294	0.025	0.052	0.292	0.109	0.134	0.609
G134A	2.001	0.588	0.115	0.142	0.442	0.218	0.268	0.609

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.
G134	12	5220	860	0.02	-
	18	4800	570	0.05	-
	24	4300	430	0.1	-
	30	3730	340	0.16	250
	36	3090	280	0.23	170
	42	2380	240	0.31	130
	48	1820	210	0.41	100
	54	1440	190	0.53	70
	60	1170	170	0.65	60
	66	960	150	0.77	50
	72	-	140	0.93	40
	84	-	120	1.27	30
	96	-	100	1.58	20
	108	-	90	2.03	10
	120	-	80	2.48	10
	132	-	70	2.89	10
	144	-	70	3.75	10
	156	-	60	4.09	0
	168	-	60	5.1	0
	180	-	50	5.23	0
	192	-	50	6.35	0
	204	-	50	7.62	0
	216	-	40	7.23	0
	228	-	40	8.51	0
	240	-	40	9.93	0

G134 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.
G134A	12	11060	2360	0.01	-
	18	10690	1570	0.03	-
	24	10270	1180	0.06	-
	30	9790	940	0.09	-
	36	9270	780	0.14	-
	42	8700	670	0.19	600
	48	8090	590	0.25	460
	54	7440	520	0.31	360
	60	6740	470	0.39	290
	66	6000	430	0.48	240
	72	5170	390	0.56	200
	84	3790	330	0.76	150
	96	2900	290	1	110
	108	2290	260	1.27	90
	120	-	230	1.55	70
	132	-	210	1.88	60
	144	-	190	2.21	50
	156	-	180	2.66	40
	168	-	160	2.96	30
	180	-	150	3.41	30
	192	-	140	3.86	20
	204	-	130	4.3	20
	216	-	130	5.11	20
	228	-	120	5.55	20
	240	-	110	5.93	10

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

G134/G134A	OS	22%
G134/G134A	LS	35%
G134/G134A	H	14%
G134/G134A	KO	6%
E = 29000; Fy = 42700; K = 0.8		

G134 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.