



Strut, Solid, Shallow Profile

STR-14G-1316-158-SLD

Features and Benefits

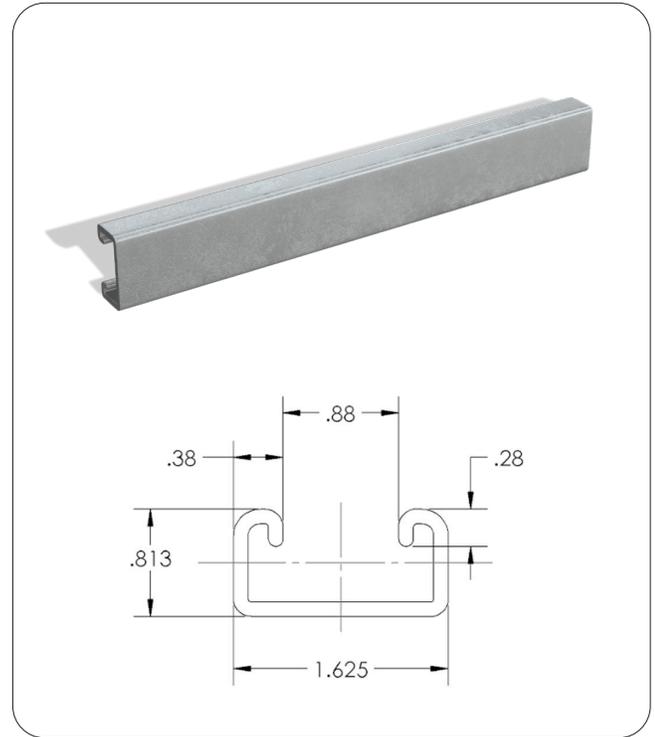
- RMC's Pre-Galvanized Shallow Strut Channel metal framing is used to support conduit, panel boxes, raceway systems and other electrical components.
- Strut Channel raceways are exceptionally versatile in that the support systems can be attached to ceilings, wood or steel beams, inside columns or imbedded in concrete.
- Steel strut combines strength, durability, and corrosion resistance, making it a reliable choice for various construction and engineering projects where stability and longevity are essential.
- Shallow profile provides space-efficient structural support.
- Material (steel strip) is immersed in a galvanized bath prior to roll-forming or press operations that cold works the strip steel into the desired channel profile. This method produces a cross section of uniform dimensions within a tolerance of +/- .015".

Applications

- Shallow profile design for space-constrained applications. Single channel configuration (1-5/8" X 13/16" 14 gauge) with solid web provides optimal strength-to-depth ratio for compact installations.

Certifications

- Rep Material's Pre-Galvanized Strut coating conforms to ASTM A653, Grade 90 General Requirement for Steel Sheet, Zinc-Coated (Galvanized) by Hot Dip Process. Provides superior corrosion protection for long-term reliability.



Beam Loading 1-5/8" x 13/16" 14 Gauge

SPAN (IN.)	MAX. ALLOWABLE UNIFORM LOAD (LBS.)	DEFLECTION @ UNIFORM LOAD (IN.)	SPAN/180 (LBS.)	SPAN/240 (LBS.)	SPAN/360 (LBS.)
24	450	0.11	450	420	280
36	300	0.24	250	190	130
48	230	0.44	140	110	70
60	180	0.67	90	70	50
72	150	0.96	60	50	30
84	130	1.32	50	30	20
96	110	1.67	40	30	20
108	100	2.16	30	20	10
120	90	2.67	20	20	10

This load table is based on a solid channel section STR-12G-158-158-SLD.
 For elongated hole channels STR-12G-158-158-EHO reduce beam load values by 15%.
 For concentrated load at center of span, divide uniform load by 2 and multiply corresponding deflection by .80.
 Loads include weight of channel, which must be deducted. Loads must be multiplied by the applicable unbraced factor from the "Lateral Bracing Load Reduction Chart".



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Column Loading 1-5/8" x 13/16" 14 Gauge

UNBRACED HEIGHT (IN.)	MAX. ALLOWABLE LOAD @ SLOT FACE (LBS.)	K=0.65 (LBS.)	K=0.80 (LBS.)	K=1.0 (LBS.)	K=1.2 (LBS.)
24	1840	5610	5210	4570	3850
36	1640	4660	3850	2800	1960
48	1310	3490	2480	1590	1100
60	1000	2400	1590	***	***
72	770	1670	1100	***	***

***- Not Recommended KL/r exceeds 200

Column loads are for allowable axial loads and must be reduced for eccentric loading

Lateral Bracing Factors - Single Channel

SPAN (FT.)	SPAN (IN.)	1-5/8" X 1-13/16" X 10' 14 GAUGE (SHALLOW PROFILE)
2	24	1
3	36	0.98
4	48	0.94
5	60	0.91
6	72	0.89
7	84	0.86
8	96	0.84
9	108	0.82
10	120	0.8
12	144	0.76