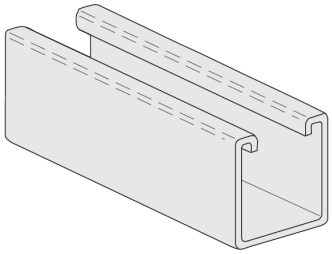
CHANNEL

Selection Chart

Figure Number	Width		Height		Material Size	See Page Number
1001 – 1042	$1^5/_8$	(41.28)	$1^5/_8$	(41.28)	12 Ga.	26
1101 – 1142	$1^5/_8$	(41.28)	$1^5/_8$	(41.28)	14 Ga.	28
1201 – 1242	$1^5/_8$	(41.28)	$^{13}/_{16}$	(20.64)	12 Ga.	30
1301 – 1342	$1^5/_8$	(41.28)	$^{13}/_{16}$	(20.64)	14 Ga.	32
1401 – 1442	$1^5/_8$	(41.28)	1	(25.40)	12 Ga.	34
1501 – 1542	$1^5/_8$	(41.28)	$3^1/_4$	(82.55)	12 Ga.	36
1601 – 1642	$1^5/_8$	(41.28)	$2^7/_{16}$	(61.91)	12 Ga.	38
1701 – 1742	$1^5/_8$	(41.28)	$1^3/_8$	(34.93)	12 Ga.	40
1801 – 1842	$1^5/_8$	(41.28)	$^{13}/_{16}$	(20.64)	16 Ga.	-
1950	$1^7/_8$	(47.63)	$1^7/_8$	(47.63)	12 Ga.	-
1960	$1^5/_8$	(41.28)	$1^5/_8$	(41.28)	12 Ga.	-



Channel

PHD's metal framing channel is cold formed on our modern rolling mills from 12 Ga., 14 Ga., and 16 Ga. low carbon steel strips. A continuous slot with inturned lips provides the ability to make attachments at any point.

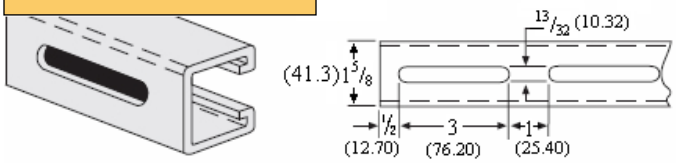
Lengths

Standard lengths are 10′ (3.05m) and 20′ (6.09m) with length tolerance of ±$^1/_8$″ (+3.2mm). Custom lengths are available upon request.

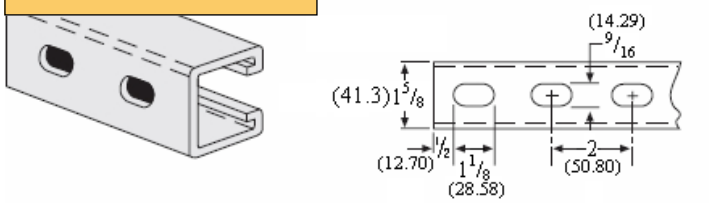
Design Load (Steel & Stainless Steel)

The design loads given for strut beam loads are based on a simple beam condition using an allowable stress of 25,000 psi (172.37mPa). This allowable stress results in a safety factor of 1.68. This is based upon virgin steel minimum yield strength of 33,000 psi (227.53mPa) cold worked during rolling to an average yield stress of 42,000 psi (289.58mPa). For aluminum channel loading multiple steel loading by a factor of 0.38.

Long Slots

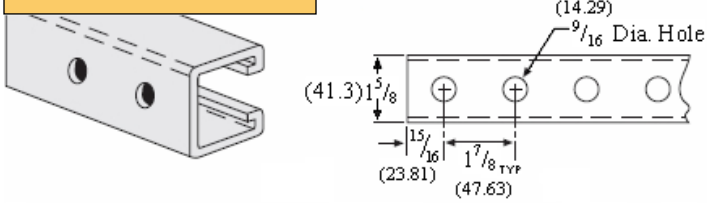


Slots



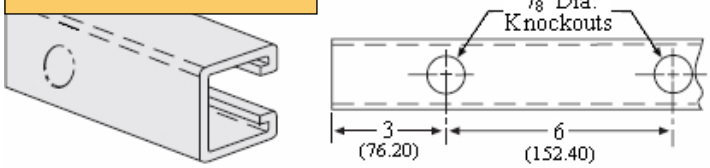
PHD's slotted series of channels offer full flexibility. A variety of pre-punched slot patterns eliminate the need for precise field measuring for hole locations. Slots offer wide adjustments in the alignment and bolt sizing.

Holes



A variety of pre-punched $^9/_{16}$″ (14.3 mm) diameter hole patterns are available in PHD channels. These hole patterns provide an economical alternative to costly field drilling required for many applications.

Knockouts



PHD Channels are furnished with $^7/_8$″ (22.2 mm) knockouts on 6″ (152 mm) centers, allowing for perfect fixture alignment on spans up to 20′ (6.09 m).

Unless otherwise specified, all dimensions on drawings and in charts are in inches and dimensions shown in parentheses are in millimeters.