

## PRODUCT APPLICATION

BridgeBar® replaces cold-rolled channel (CRC) for wall bridging. Unique grooves every 4" trap stud web to allow installers to space any type of wall layout. The grooves adjust to various stud thickness to trap the stud web for maximum strength. BridgeBar incorporates stiffeners to resist compressive loads through the plane of the wall. BridgeBar's standard U-channel shape ensures use through 3/4" and 1 1/2" stud punchouts.

## MATERIAL COMPOSITION

BridgeBar® 150: ASTM A653/A653M, Grade 50 (340), 50ksi (340MPa) minimum yield strength, 65ksi (450MPa) minimum tensile strength, G90 (Z275) hot-dipped galvanized coating.

BridgeBar® 75: ASTM A653/A653M, Grade 33 (230), 33ksi (230MPa) minimum yield strength, 45ksi (310MPa) minimum tensile strength, G60 (Z275) hot-dipped galvanized coating.

Material thickness = 33mil (20ga, 0.0346" design thickness-BB150); = 28mil (22ga, 0.0295" design thickness-BB75).

## BRIDGEBAR VALUE

- ◆ Fast installation
- ◆ Notches every 4" accommodate 8", 12", 16", 24" centers
- ◆ No clamping
- ◆ No welding
- ◆ Load rated assembly
- ◆ 52-inch length allows for 4" lap at joints for continuous walls
- ◆ Guide holes for placement when BridgeClip® is used

BRIDGEBAR®



US Patent #6,701,689

## BRIDGEBAR NOMENCLATURE

BridgeBar is available in 3/4" and 1 1/2" widths. Designations are BB75 and BB150.



## QUANTITY / ORDER INFORMATION

Designation	Qty/Box	Lbs/Box	Pcs/Skid	Lbs/Skid
BB75	50	49	2000	1960
BB150	50	70	1250	1750

## BRIDGEBAR INSTALLATION

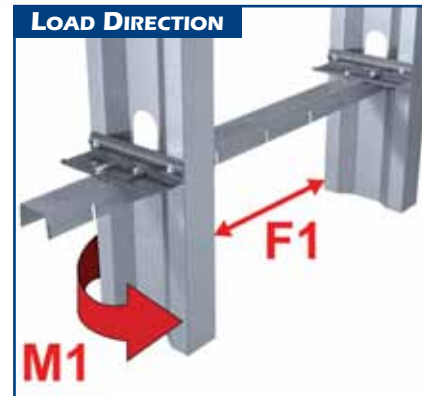


Run BridgeBar through stud punchouts.



Locate grooves at bottom of punchout and press down into place.

## LOAD DIRECTION



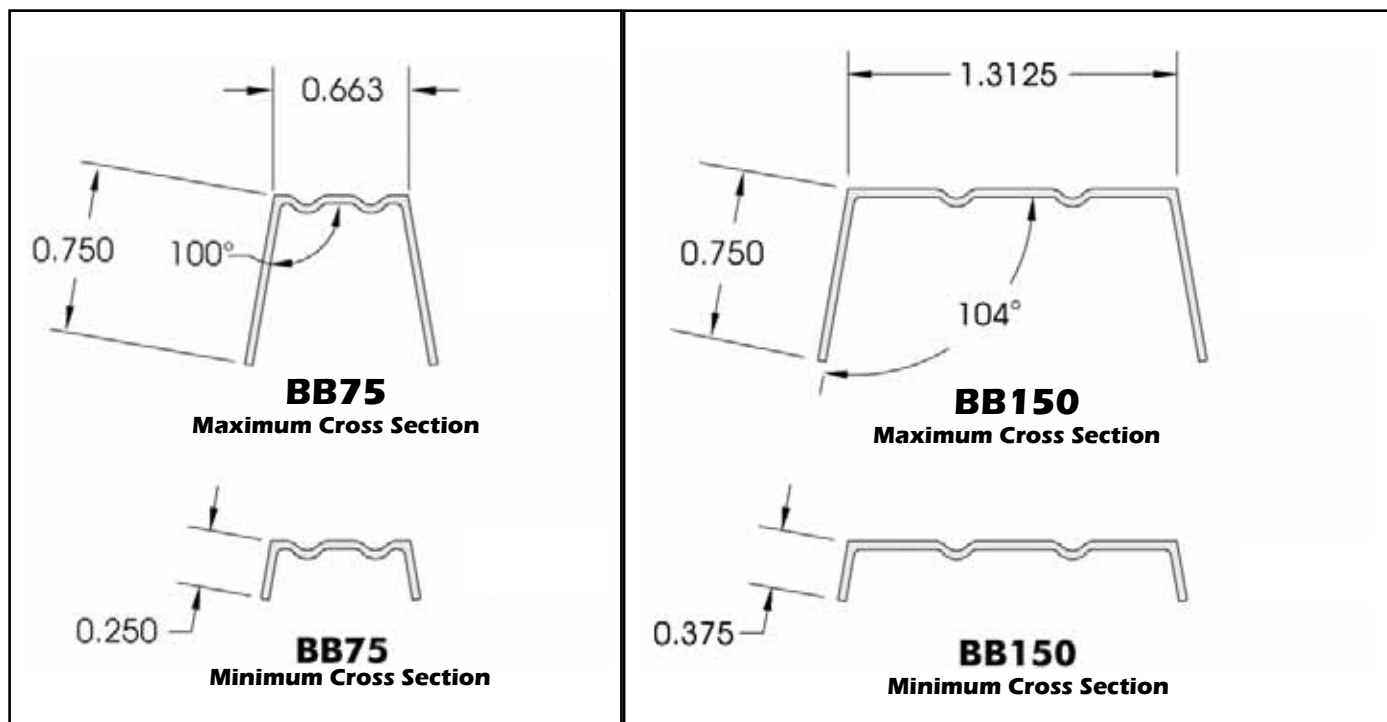
\*Use BridgeClip® (p. 39) for a quick & easy method of securing bar to stud (when required)

## MATERIAL ANALYSIS

Section	Minimum Thickness (in.)	Design Thickness (in.)	Yield Strength (ksi)	Effective Section Properties*						Allowable Loads	
				Area (in <sup>2</sup> )	I <sub>xx</sub> (in <sup>4</sup> )	S <sub>xx</sub> (in <sup>3</sup> )	R <sub>x</sub> (in.)	I <sub>yy</sub> (in <sup>4</sup> )	R <sub>y</sub> (in.)	Ma (X-axis) in.- kips (ft. lb)	Pa (16" o.c.) (kips)
BB75	0.028	0.0295	33	0.032	0.0021	0.006	0.258	0.0002	0.079	0.12 (10.0)	N/A
BB150	0.0329	0.0346	50	0.068	0.0171	0.026	0.502	0.0076	0.103	0.69 (57.5)	0.9

\* Effective section properties for BridgeBar® are calculated at the minimum cross section and based on AISI-NASPEC 2001 Specification.

BridgeBar® is a registered trademark of The Steel Network, Patent #6,701,689.



## BRIDGEBAR LAP JOINT



BridgeBar's 52" length allows for a 4" overlap at joints. Simply fit one end over the other and line up the guide holes for quick & easy placement of screw(s). Joint locations maintain stud spacing as designed through length of the wall system.

US Patent #6,701,689

## SECURING BAR TO STUD

When loads require attachment of BridgeBar to stud, consider the screw shear allowables below for connection of BridgeClip to stud and BridgeBar.

Section	Design Thickness (in)	Yield Strength (ksi)	Allowable Shear / Screw	
			# 8 Screw (kips)	# 10 Screw (kips)
BB150	0.0346	50	0.237	0.255

