TELLING®

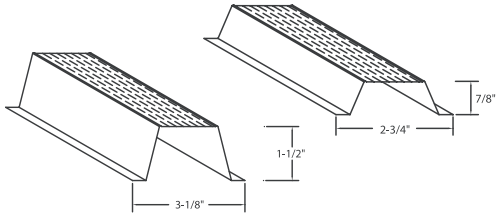
BUILDSTRONG™

LIGHT GAUGE METAL FRAMING ACCESSORIES

09200

DRYWALL FRAMING ACCESSORIES

(DWFC) Drywall Furring Channel



Product Data:
- Available in 7/8" and 1-1/2" sizes.
- Gauge: Standard 25 through 16 gauges.
- Lengths: 12' 0" Stock Length, (other lengths available).
- Consult Telling Industries' Light Gage Structural Framing & Accessories brochure for structural properties and span tables

Uses:
- Convenient accessory components for use in furring out ceilings and masonry walls. Knurled face prevents screw "ride" when attaching gypsum wallboard.
- 1-1/2" DWFC is economical with respect to furring walls with electrical boxes, (no need to set into concrete).

Physical/Structural Properties for Drywall Furring Channels (DWFC)

Section	Fy (ksi)	Design Thickness (in)	Gross Properties						Effective Properties		
			Area (in2)	Weight (lb/ft)	Ix (in4)	Rx (in)	Iy (in4)	Ry (in)	Ix (in4)	Sx (in3)	Ma (Ft-lb)
DWFC088-18	33	0.0188	0.070	0.239	0.009	0.356	0.035	0.710	0.009	0.016	26.4
DWFC088-30	33	0.0312	0.115	0.391	0.014	0.353	0.058	0.710	0.014	0.031	50.5
DWFC088-43	33	0.0451	0.162	0.550	0.020	0.348	0.082	0.711	0.020	0.042	69.2
DWFC088-54	50	0.0566	0.197	0.669	0.023	0.345	0.099	0.711	0.023	0.050	124.9
DWFC150-18	33	0.0188	0.094	0.320	0.031	0.575	0.047	0.705	0.030	0.034	56.6
DWFC150-30	33	0.0312	0.154	0.525	0.050	0.571	0.077	0.705	0.050	0.064	105.3
DWFC150-43	33	0.0451	0.219	0.745	0.070	0.565	0.109	0.705	0.070	0.089	146.3
DWFC150-54	50	0.0566	0.269	0.914	0.084	0.561	0.134	0.705	0.084	0.107	267.2

Notes:
1. Properties based on the 2007 NASPEC
2. Design thickness used for determination of properties. Minimum delivered thickness must be no less than 95% of design thickness.
3. For deflection calculations, use effective Ixx. Effective Ixx is based on Procedure 1 of the NASPEC
4. Effective properties are given as the minimum value for positive or negative bending.

Drywall Furring Channel (DWFC) Allowable Ceiling Spans - L/240

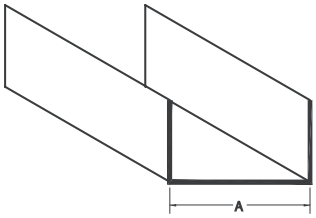
Section	Fy (ksi)	Spans	Uniform Load 4 psf Spacing (in) oc			Uniform Load 6 psf Spacing (in) oc			13 psf Spacing (in) oc		
			12	16	24	12	16	24	12	16	24
DWFC088-18	33	Single	5'-2"	4'-9"	4'-1"	4'-6"	4'-1"	3'-7"	3'-6"	3'-2"	2'-9"
		Multiple	6'-5"	5'-10"	5'-1"	5'-7"	5'-1"	4'-2"	4'-0"	3'-6"	2'-9"
DWFC088-30	33	Single	6'-2"	5'-7"	4'-11"	5'-5"	4'-11"	4'-3"	4'-2"	3'-9"	3'-4"
		Multiple	7'-7"	6'-11"	6'-1"	6'-8"	6'-1"	5'-3"	5'-2"	4'-8"	3'-11"
DWFC088-43	33	Single	6'-10"	6'-3"	5'-5"	6'- 0"	5'-5"	4'-9"	4'-7"	4'-2"	3'-8"
		Multiple	8'-6"	7'-8"	6'-9"	7'-5"	6'-9"	5'-10"	5'-9"	5'-2"	4'-6"
DWFC088-54	50	Single	7'-3"	6'-7"	5'-9"	6'-4"	5'-9"	5'-0"	4'-11"	4'-5"	3'-11"
		Multiple	9'- 0"	8'-2"	7'-2"	7'-10"	7'-2"	6'-3"	6'-1"	5'-6"	4'-10"
DWFC150-18	33	Single	7'-11"	7'-2"	6'-3"	6'-11"	6'-3"	5'-6"	5'-4"	4'-10"	4'-2"
		Multiple	9'-9"	8'-10"	7'-5"	8'-6"	7'-5"	5'-11"	5'-7"	4'-9"	3'-8"
DWFC150-30	33	Single	9'-5"	8'-6"	7'-5"	8'-2"	7'-5"	6'-6"	6'-4"	5'-9"	5'-0"
		Multiple	11'-7"	10'-6"	9'-2"	10'-2"	9'-2"	8'-0"	7'-10"	7'- 0"	5'-8"
DWFC150-43	33	Single	10'-6"	9'-6"	8'-4"	9'-2"	8'-4"	7'-3"	7'-1"	6'-5"	5'-7"
		Multiple	12'-11"	11'-9"	10'-3"	11'-4"	10'-3"	9'- 0"	8'-9"	7'-11"	6'-8"
DWFC150-54	50	Single	11'-2"	10'-1"	8'-10"	9'-9"	8'-10"	7'-9"	7'-6"	6'-10"	6'- 0"
			13'-9"	12'-6"	10'-11"	12'-0"	10'-11"	9'-7"	9'-4"	8'-5"	7'-5"

Drywall Furring Channel (DWFC) Allowable Ceiling Spans - L/360

Section	Fy (ksi)	Spans	Uniform Load 4 psf Spacing (in) oc			Uniform Load 6 psf Spacing (in) oc			13 psf Spacing (in) oc		
			12	16	24	12	16	24	12	16	24
DFWC088-18	33	Single	4'-6"	4'-1"	3'-7"	4'- 0"	3'-7"	3'-2"	3'-1"	2'-9"	2'-5"
		Multiple	5'-7"	5'-1"	4'-5"	4'-11"	4'-5"	3'-11"	3'-9"	3'-5"	2'-9"
DWFC088-30	33	Single	5'-5"	4'-11"	4'-3"	4'-8"	4'-3"	3'-9"	3'-8"	3'-4"	2'-11"
		Multiple	6'-8"	6'-1"	5'-3"	5'-10"	5'-3"	4'-7"	4'-6"	4'-1"	3'-7"
DWFC088-43	33	Single	6'- 0"	5'-5"	4'-9"	5'-3"	4'-9"	4'-2"	4'-0"	3'-8"	3'-2"
		Multiple	7'-5"	6'-9"	5'-10"	6'-6"	5'-10"	5'-2"	5'- 0"	4'-6"	4'- 0"
DWFC088-54	50	Single	6'-4"	5'-9"	5'-0"	5'-7"	5'-0"	4'-5"	4'-3"	3'-11"	3'-5"
		Multiple	7'-10"	7'-2"	6'-3"	6'-10"	6'-3"	5'-5"	5'-4"	4'-10"	4'-2"
DWFC150-18	33	Single	6'-11"	6'-3"	5'-6"	6'-0"	5'-6"	4'-9"	4'-8"	4'-3"	3'-8"
		Multiple	8'-6"	7'-9"	6'-9"	7'-5"	6'-9"	5'-11"	5'-7"	4'-9"	3'-8"
DWFC150-30	33	Single	8'-2"	7'-5"	6'-6"	7'-2"	6'-6"	5'-8"	5'-6"	5'-0"	4'-5"
		Multiple	10'-2"	9'-2"	8'-0"	8'-10"	8'-0"	7'-0"	6'-10"	6'-3"	5'-5"
DFWC150-43	33	Single	9'-2"	8'-4"	7'-3"	8'- 0"	7'-3"	6'-4"	6'-2"	5'-7"	4'-11"
		Multiple	11'-4"	10'-3"	9'- 0"	9'-11"	9'- 0"	7'-10"	7'-8"	6'-11"	6'-1"
DFWC150-54	50	Single	9'-9"	8'-10"	7'-9"	8'-6"	7'-9"	6'-9"	6'-7"	6'- 0"	5'-3"
			12'-0"	10'-11"	9'-7"	10'-6"	9'-7"	8'-4"	8'-2"	7'-5"	6'-5"

Notes:
1. Single spans taken as the minimum span based on moment, shear, web crippling or deflection
2. Multiple spans indicate two or more equal, continuous spans with span length measured support to support.
3. Multiple spans taken as the minimum span based on moment, shear, web crippling, deflection combined bending and shear or combined and web crippling
4. Web crippling values based on 1" bearing at end and interior supports.

(CRC) Cold-Rolled Channel



Product Data:
- Available in galvanized steel meeting ASTM A-1003 or hot-dipped galvanized steel meeting ASTM A-653, G60.
- Lengths: 16′ stock length. (Other lengths available)

Uses:
- Bridging, (lateral support) in walls carrying axial and/or wind loads.
- Bracing studs at door bucks and furring for ceilings.
- Used in conjunction with metal lath and plaster in partitions, ceilings, column and beam enclosures, etc.

U-Channel (CRC) Properties and Spans

Section	Design Thickness (in)	Gross Area (in2)	Gross Weight (lb/ft)	Gross Ix (in4)	Gross Rx (in)	Gross Iy (in4)	Gross Ry (in)	Effective Properties 33 ksi Ix (in4)	Sx (in3)	Ma (in-k)	Va (lb)
CRC-075	0.0566	0.087	0.30	0.007	0.288	0.002	0.155	0.007	0.019	0.45	315
CRC-150	0.0566	0.129	0.44	0.039	0.547	0.003	0.144	0.039	0.052	1.22	840
CRC-200	0.0566	0.157	0.54	0.079	0.709	0.003	0.136	0.079	0.079	1.87	1190
CRC-250	0.0566	0.186	0.63	0.139	0.866	0.003	0.128	0.139	0.111	2.64	1540

Notes:
1 Minimum deliverable base metal thickness is 95% of design thickness.
2 Inside bend radius taken as 3/32".
3 Effective properties based on Fy = 33 ksi.
4 For deflection calculations, use the effective moment of inertia.

Allowable U-Channel (CRC) Ceiling Spans - L/240

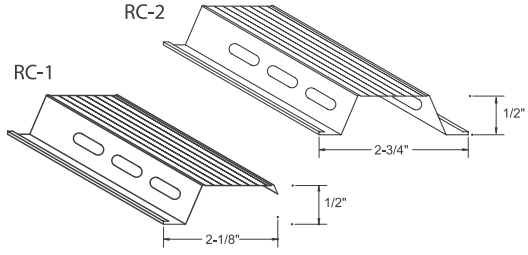
Section	Spans	4 psf Channel Spacing (in) o.c. 24	36	48	60	72	6 psf Channel Spacing (in) o.c. 24	36	48	60	72	13 psf Channel Spacing (in) o.c. 24	36	48	60	72	15 psf Channel Spacing (in) o.c. 24	36	48	60	72
CRC-075	Single	3′ 11"	3′ 5"	3′ 1"	2′ 10"	2′ 8"	3′ 5"	3′ 0"	2′ 8"	2′ 6"	2′ 4"	2′ 7"	2′ 4"	2′ 1"	1′ 11"	1′ 9"	2′ 6"	2′ 2"	2′ 0"	1′ 10"	1′ 8"
	Multiple	4′ 10"	4′ 2"	3′ 10"	3′ 7"	3′ 4"	4′ 2"	3′ 8"	3′ 4"	3′ 1"	2′ 10"	3′ 3"	2′ 9"	2′ 4"	2′ 1"	1′ 11"	3′ 1"	2′ 7"	2′ 2"	2′ 0"	1′ 9"
CRC-150	Single	5′ 6"	4′ 10"	4′ 5"	4′ 1"	3′ 10"	4′ 10"	4′ 3"	3′ 10"	3′ 7"	3′ 5"	3′ 9"	3′ 3"	3′ 0"	2′ 9"	2′ 7"	3′ 7"	3′ 2"	2′ 10"	2′ 7"	2′ 5"
	Multiple	7′ 1"	6′ 2"	5′ 8"	5′ 3"	4′ 11"	6′ 2"	5′ 5"	4′ 11"	4′ 7"	4′ 4"	4′ 10"	4′ 2"	3′ 9"	3′ 4"	3′ 0"	4′ 7"	4′ 0"	3′ 6"	3′ 1"	2′ 9"
CRC-200	Single	5′ 10"	5′ 1"	4′ 8"	4′ 4"	4′ 1"	5′ 1"	4′ 6"	4′ 1"	3′ 10"	3′ 7"	4′ 0"	3′ 6"	3′ 2"	3′ 0"	2′ 10"	3′ 10"	3′ 4"	3′ 1"	2′ 10"	2′ 8"
	Multiple	7′ 5"	6′ 6"	5′ 11"	5′ 6"	5′ 2"	6′ 6"	5′ 8"	5′ 2"	4′ 10"	4′ 7"	5′ 1"	4′ 5"	4′ 0"	3′ 9"	3′ 6"	4′ 10"	4′ 3"	3′ 10"	3′ 7"	3′ 2"
CRC-250	Single	6′ 1"	5′ 4"	4′ 10"	4′ 6"	4′ 3"	5′ 4"	4′ 8"	4′ 3"	4′ 0"	3′ 9"	4′ 2"	3′ 8"	3′ 4"	3′ 1"	2′ 11"	4′ 0"	3′ 6"	3′ 2"	3′ 0"	2′ 10"
		7′ 9"	6′ 9"	6′ 2"	5′ 9"	5′ 5"	6′ 9"	5′ 11"	5′ 5"	5′ 0"	4′ 9"	5′ 3"	4′ 7"	4′ 3"	3′ 11"	3′ 9"	5′ 0"	4′ 5"	4′ 0"	3′ 9"	3′ 7"

Allowable U-Channel (CRC) Ceiling Spans - L/360

Section	Spans	4 psf Channel Spacing (in) o.c. 24	36	48	60	72	6 psf Channel Spacing (in) o.c. 24	36	48	60	72	13 psf Channel Spacing (in) o.c. 24	36	48	60	72	15 psf Channel Spacing (in) o.c. 24	36	48	60	72
CRC-075	Single	3′ 5"	3′ 0"	2′ 8"	2′ 6"	2′ 4"	3′ 0"	2′ 7"	2′ 4"	2′ 2"	2′ 1"	2′ 4"	2′ 0"	1′ 10"	1′ 8"	1′ 7"	2′ 2"	1′ 11"	1′ 9"	1′ 7"	1′ 6"
	Multiple	4′ 2"	3′ 8"	3′ 4"	3′ 1"	2′ 11"	3′ 8"	3′ 2"	2′ 11"	2′ 8"	2′ 7"	2′ 10"	2′ 6"	2′ 3"	2′ 1"	1′ 11"	2′ 8"	2′ 4"	2′ 2"	2′ 0"	1′ 9"
CRC-150	Single	5′ 6"	4′ 10"	4′ 5"	4′ 1"	3′ 10"	4′ 10"	4′ 3"	3′ 10"	3′ 7"	3′ 5"	3′ 9"	3′ 3"	3′ 0"	2′ 9"	2′ 7"	3′ 7"	3′ 2"	2′ 10"	2′ 7"	2′ 5"
	Multiple	7′ 1"	6′ 2"	5′ 8"	5′ 3"	4′ 11"	6′ 2"	5′ 5"	4′ 11"	4′ 7"	4′ 4"	4′ 10"	4′ 2"	3′ 9"	3′ 4"	3′ 0"	4′ 7"	4′ 0"	3′ 6"	3′ 1"	2′ 9"
CRC-200	Single	5′ 10"	5′ 1"	4′ 8"	4′ 4"	4′ 1"	5′ 1"	4′ 6"	4′ 1"	3′ 10"	3′ 7"	4′ 0"	3′ 6"	3′ 2"	3′ 0"	2′ 10"	3′ 10"	3′ 4"	3′ 1"	2′ 10"	2′ 8"
	Multiple	7′ 5"	6′ 6"	5′ 11"	5′ 6"	5′ 2"	6′ 6"	5′ 8"	5′ 2"	4′ 10"	4′ 7"	5′ 1"	4′ 5"	4′ 0"	3′ 9"	3′ 6"	4′ 10"	4′ 3"	3′ 10"	3′ 7"	3′ 2"
CRC-250	Single	6′ 1"	5′ 4"	4′ 10"	4′ 6"	4′ 3"	5′ 4"	4′ 8"	4′ 3"	4′ 0"	3′ 9"	4′ 2"	3′ 8"	3′ 4"	3′ 1"	2′ 11"	4′ 0"	3′ 6"	3′ 2"	3′ 0"	2′ 10"
		7′ 9"	6′ 9"	6′ 2"	5′ 9"	5′ 5"	6′ 9"	5′ 11"	5′ 5"	5′ 0"	4′ 9"	5′ 3"	4′ 7"	4′ 3"	3′ 11"	3′ 9"	5′ 0"	4′ 5"	4′ 0"	3′ 9"	3′ 7"

Notes:
1 Multiple span indicates two or more equal spans with channel continuous over interior supports.
2 End and interior bearing length = 0.75". Web stiffeners are not required.
3 Listed spans are based on unbraced compression flanges.
4 Moment of inertia for deflection is calculated at the maximum service level stress for the span and load listed. Note that this value may be higher than the effective Ixx listed in section property tables.

(RC) Resilient Furring Channel



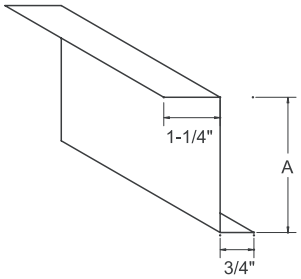
Product Data:
- RC-1: Single Leg • RC-2: Double Leg
- Gauge: Standard 25 gage conforming to ASTM A-653 and C-645.
- Lengths: 12′ 0" stock length
- RC-1: Screw attachment, one side only.
- RC-2: Screw attachment, both sides.

Uses:
- Used as cross furring members for resilient attachment of gypsum wallboard or lath on ceilings and partitions.
- Decreases sound transmission through wall partitions and ceilings.

Product	Length	Wt./Ft.	Pcs./Ctn.	Ft./Ctn.
RC-1	12′	0.20	40	480
RC-2	12′	0.24	40	480

DRYWALL FRAMING ACCESSORIES

(ZFC) Z-Furring Channel

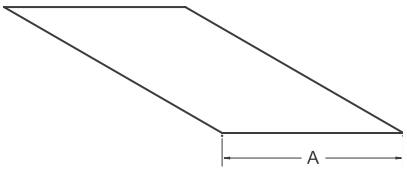


Product Data:
- Available in hot-dipped galvanized steel conforming to ASTM A-653 and C-645.
- Gauges: Standard 25 gauge, (available in 20, 18, and 16 gauge upon request).
- Lengths: Standard 10′ 0″ and 8′ 6″ lengths, (other lengths available upon request).

Uses:
- Designed to accommodate the installation of rigid insulation board while pro viding an attachment for drywall or other facing materials to the interior side of masonry or monolithic concrete walls.

Product	(A) in. Size	25 Ga. Wt./Ft.
Z-100	1.00	0.195
Z-150	1.50	0.225
Z-200	2.00	0.260

(FS) Flat Strapping

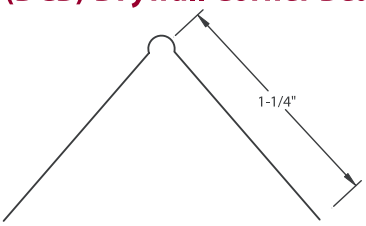


Product Data:
- Designation: FS width and gauge.
- Widths: 2, 4 and 6″ (custom widths and coil available).

Uses:
- Provides tension force resistance in shear wall assemblies.
- Resists racking of prefabricated wall assemblies while handling, transporting, and erecting.

Product	Width (in.)	Gauges	Length
FS	2″, 4″, 6″	25, 22, 20, 18, 16	10′

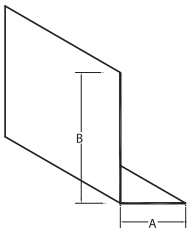
(DCB) Drywall Corner Bead



Product Data:
- Made of galvanized steel.
- Joint cement adheres easily to knurled flanges and keys into the perforations.
- Exposed nose provides a straight, clean corner definition and guards against damage through impact .

Uses:
- Provides durable protection for drywall external corners.
- Specify hot-dipped for moist or humid conditions.

(RA) Rolled Angles

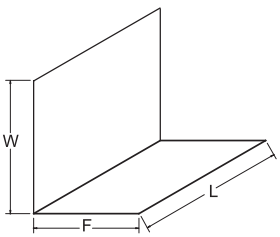


Product Data:
- Available in most sizes, lengths, and gauges.

Uses:
- For 90 degree corner enclosures at lapped framing location; provides in-plane stability of framework.

(AxB) Product	Gauges	Length
7/8" x 1-3/8"	25, 22, 20, 18	10'
1-5/8" x 1-5/8"	25, 22, 20, 18, 16	10'
2" x 2"	25, 22, 20, 18, 16, 14	10'
3" x 3"	20, 18, 16, 14, 12	10'
2" x 4"	20, 18, 16, 14,12	10'
3" x 6"	20, 18, 16, 14,12	10'

(CA) Clip Angles

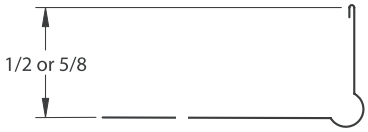


Product Data:
- Designation: SA Length (L) x gauge.
- Designed for 3-5/8, 4, 6, 7-1/4, 8, 9-1/4, 10 and 12 inch studs.
- Gauges: 18 ga (3-5/8, 4, or 6 inch only), 14 ga (all lengths), 12 ga (6, 7-1/4, 8, 9-1/4, 10 and 12 inch only)
- W and F dimensions per request. Standard 2″ x 2″

Uses:
- For miscellaneous attachments of intersecting framing components.
- For attachment of joist framing components to flush mounted headers.
- For attachment of solid blocking sections to adjacent studs of joists.
- For alternate screw attachment of CRC briding to stud webs in lieu direct weld

J Bead

L Bead



Product Data:
- Sturdy, channel-type steel casing.
- Joint cement applied to front side.
- L Bead available in both regular and long-leg flange.
- Easily installs to framing or jamb.

Uses:
- Provides maximum protection.
- Adds a finished edge to wallboard at window and door jambs

Product	Size Depth	Length(ft.)	Pcs./Ctn.	Ft./Ctn.
L-50, J-50	1/2" or 5/8"	8', 10'	63, 50 5	04, 500
L-62, J-62	"	"	"	"

Custom lengths and UPC labeling available upon request.

(RT) Reveal Trim

Product Data:
- An economical steel channel.
- No joint cement required.

Uses:
- Provides edge protection around doors and windows or any partition junction openings.

Product	Size Depth	Length(ft.)	Pcs./Ctn.	Ft./Ctn.
RT-50, RT-62	1/2" & 5/8"	8', 10'	63, 50	504, 500

Custom lengths and UPC labeling available upon request.

093 Expansion Control Joint

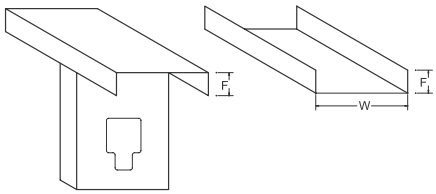
Product Data:
- Manufactured from the highest quality pure zinc coil stock for superior corrosion resistance.
- Fits standard 1⁄4" openings.

Uses:
- Product is excellent for interior or exterior applications.

Product	Length(ft.)	Pcs./Ctn.	Ft./Ctn.
093	10'	25	250

ACCESSORIES

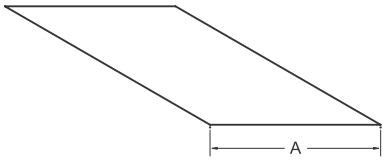
(CLT) Custom Leg Track



Product Data:
- Designation: CLT or VST Width x Gauge
- Widths: Multiple Sizes and Gauges available.
- Gauge: Multiple Sizes available.
- Lengths: Standard 10'

Uses:
- CLT used for standard stick built construction with channel or bracing attached within 2' of track member to each stud.
- For attachment at top of infill curtain wall systems to primary frame; allows for one half inch of live load deflection or settlement of the primary frame without transferring the load to the exterior wall while bracing the wall against lateral forces.
- Variable width and height for track-in-track applications such as panel construction

(FS) Flat Strapping



Product Data:
- Designation: Width-FS- Gauge.
  - o Ex 2" FS- 20Ga
- Stock widths: 2", 4", 6"
- Custom Widths are available in increments of even inches.
  - o Examples:1.5, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41,42, 43, 44, 45, 46, 47, 48"
- Length: 10' Standard (Alt. Lengths Available, ie. 8')
- Gauges:
  - o 33KSI: 25, 22, 20, 20S& 18 gauge.
  - o 50KSI: 20S, 22, 16, 14 &12 gauge.
- Coating:
  - o Drywall: Standard G-40 Hot Dipped Galvanized. Also Available in G-60 and G-90.
  - o Structural: G-60 Hot Dipped Galvanized. Also Available in G-60 and G-90
- Meets applicable ASTM's for Structural and Drywall applications:
  - o ASTM- A1003, A-653, A924, C-645, C754, C955, C1007

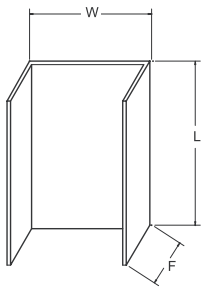
Uses

Provides tension force resistance in shear wall assemblies.

- Backing plates for fixtures, railings and where ever additional pullout strength is required.

- Resists racking of prefabricated wall assemblies while handling, transporting, and erecting.

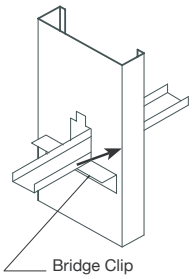
(WS) Web Stiffeners



Product Data:
- Designation: WS W x F x gauge.
- Length: 4, 6, 7-1/4, 8, 9-1/4, 10, 12 inch.
- Galvanized finish.
- For axial capacities contact Telling Industries Engineering

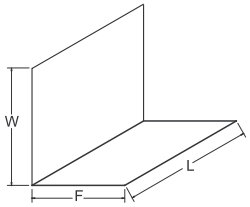
Uses:
- For web reinforcement of C shaped framing members
- Allow transfer of axial loads through joists at bearing conditions of platform frames.

(BC) Bridge Clip



Product Data:
- Designation: BC Length x Gauge
- Leg Dimensions: F-1-1/2", W-1-1/2"
- Standard Gauge: 16 ga. galvanized steel.
- Standard Length: L-2-1/2", 3-3/8" and 5-1/4"

Uses:
- For alternate screw attachement of CRC bridging to stud webs in place of direct weld.



Note: 4 Screws min.

FASTENING SYSTEMS

Allowable Screw Connection Capacity (lb/screw)

Thickness (mils)	Design Thickness (in)	Fy (ksi)	Fu (ksi)	#6 Screw 0.138" dia; 5/16" head Shear	#6 Screw 0.138" dia; 5/16" head Tension	#8 Screw 0.164" dia; 5/16" head Shear	#8 Screw 0.164" dia; 5/16" head Tension	#10 Screw 0.190" dia; 5/16" head Shear	#10 Screw 0.190" dia; 5/16" head Tension	#12 Screw 0.216" dia; 0.340" head Shear	#12 Screw 0.216" dia; 0.340" head Tension
18	0.019	33	45	60	33	66	39	71	46	75	52
27	0.028	33	45	111	50	121	59	131	69	139	78
30	0.031	33	45	129	55	141	65	151	76	161	86
33	0.035	33	45	151	61	164	72	177	84	188	95
43	0.045	33	45	214	79	244	94	263	109	280	124
54	0.057	33	45	214	84	303	118	370	137	394	156
68	0.071	33	45	214	84	303	118	406	159	525	196
54	0.057	50	65	214	84	303	118	406	159	525	205
68	0.071	50	65	214	84	303	118	406	159	525	205

Screw Table Notes:

1. Capacities based on section E4 of AISI S100-07/2-10 (2007 NASPEC with 2010 Supplement No. 2).
2. When connecting materials of different steel thicknesses or tensile strengths, use the lowest values. Tabulated values assume two sheets of equal thickness are connected
3. Where multiple fasteners are used, screws are assumed to have a center-to-center spacing of at least 3 times the nominal screw diameter, d.
4. Screws are assumed to have a center-of-screw to edge-of-steel dimension of at least 1.5 times the nominal screw diameter, d.
5. Tension capacity is based on the lesser of pullout capacity in sheet closest to screw tip, or pullover capacity for sheet closest to the screw head (based on head diameter shown)
6. Tension values shown in this table, pullover values have been reduced by 50% assuming eccentrically loaded connections producing a non-uniform pullover force on the fastener.
7. Values are for pure shear or tension loads. See AISI section E4.5 for combined shear and pull-over.
8. Higher values, especially for screw strength, may be obtained by specifying screws from a specific manufacturer. See manufacturer's data for specific values and installation instructions.
9. Shear and tension data for screws was developed with the assistance of the Wei-Wen Yu Center for Cold-Formed Steel Structures (CCFSS), using manufacturers' data and evaluation reports available at the time of publication.

Allowable Weld Capacity - 2007 NASPEC with 2010 Supplement (AISI S100-07/2-10)

Steel Thickness mils	Design	Fy (ksi)	Fu (ksi)	Nominal Weld Size	Fillet Welds7 Longitudinal1	Fillet Welds7 Transverse	Fxx Limit (E60xx)3	Flare Groove Welds7 Longitudinal2	Flare Groove Welds7 Transverse	Fxx Limit (E60xx)4
43	0.045	33	45	1/16	499	864	NA	544	663	NA
54	0.057	33	45	3/32	626	1084	NA	682	832	NA
68	0.071	33	45	1/8	789	1365	NA	859	1048	NA
97	0.102	33	45	1/8	1125	1269	1269	1226	1402	1402
118	0.124	33	45	1/8	1374	1550	1550	1497	1712	1712
54	0.057	50	65	3/32	905	1566	NA	985	1202	NA
68	0.071	50	65	1/8	1140	1972	NA	1241	1514	NA
97	0.102	50	65	1/8	1269	1269	1269	1402	1402	1402
118	0.124	40	65	1/8	1550	1550	1550	1712	1712	1712

Notes:

1. For welds with L/t > 25 where L is weld length and t is the thickness of the welded member.
2. For t <= tw < 2t where t = thickness of welded member and tw is effective throat thickness of weld.
3. Based on weld effective throat, tw = .707t
4. Based on weld effective throat, tw = 5/16R. R= outside corner radius = 2.5t. Verify with AISI Eq. 2.5-5 for particular weld geometry.
5. Weld capacities based on 2007 NASPEC with 2010 Supplement No. 2 (AISI S100-07/2-10), Sections E2.4 and E2.5
6. When connecting materials of different steel thickness or tensile strength (Fu), the lowest applicable values should be used
7. Where highlighted indicates that weld capacity is controlled by electrode tensile strength, Fxx = 60 ksi. Only applies to welds of materials > 0.10" thick.

ALLOWABLE WORKING VALUES FOR LOW VELOCITY FASTENERS INTO STEEL (POUNDS)

Catalog Number Series	Shank Diameter (inches	Type of Shank	Min. Edge Distance	Min. Spacing	Base Steel Thickness (inches)					
					3/16		1/4		3/8	
					Tension	Shear	Tension	Shear	Tension	Shear
1500, 1600 & 1900 Series Shank Drive Pins	.140	Smooth	1/2	1	130	665	270	700	370	840
Ladd ceiling System Drive Pins	.152	Smooth	3/4	1-1/2	137	NA	133	NA	132	NA
3300 Series Drive Pins	.170	Smooth	5/8	1-1/8	85	820	180	895	330	900
9140K Threaded Stud	.205	Knurled	3/4	1-3/8	NA	NA	480	1565	550	1950

1. Holding values shown are for fastenings that have the entire pointed end of the fastener driven through the steel plate.
2. Holding values shown incorporate a 10 to 1 safety factor for tension and a 5 to 1 safety factor for shear.
   Wood or steel connecting members must be investigated separately.

ALLOWABLE WORKING VALUES FOR LOW VELOCITY FASTENERS INTO STONE AGGREGATE CONCRETE (POUNDS)

Catalog Number Serie	Shank Diameter (inches	Penetration	Min. Edge Distance	Min. Spacing	Concrete Compressive Strength (psi)					
					2000		3000		4000	
					Tension	Shear	Tension	Shear	Tension	Shear
1506SM 1508SM Step Shank Drive Pin	.130	3/4 1 1-1/4	3 3 3	3 3 3	55* 112 200	60* 87 118	49** 87** 134**	45** 99** 152**	44* 62 68	30* 112 187
1500, 1600 & 1900 Series Straight Shank Drive Pins	.140	3/4 1 1-1/4 1-1/2	3 3 3 3	3 3 3 3	45* 110 130 187	80* 165 190 200	70* 175 180 227**	115* 185 215 223**	90* 235 230 268	145* 205 240 247
1524, 1524SD Drive Pins	.152	1 1-1/4	3 3	3 3	105 115	150 170	150 162	215 225	197 220	262 280
3300 Series Drive Pins	.170	1-1/4 1-1/2	3 3	4 4	165 220	225 330	185 225	225 315	210 225	280 300
9100 Series Threaded Studs	.205	13/16 1-1/16 1-1/4 1-1/2	3 3 3 3	5 5 5 5	80 115 165 300	125 265 315 375	90 150 230 310	145 250 330 420	105 190 295 320	170 230 350 460
9100 Series Threaded Studs	.140	1-1/8	3	NA	-	-	96	180	98	193

1. Except as noted, values shown reflect an 8 to 1 safety factor
2. Values shown are for concrete at the designated strength and are for the fastener or clip system only.
   Wood, Steel, etc. connected members must be investigated separately.
3. Cyclic, fatigue or shock loads and other design criteria may require a different safety factor.
4. Job-site testing may be required to determine actual job-site values.

* 10 to 1 safety factor used due to shallow embedment.

** Interpolated values.

Values are suggested only. In structural or load bearing applications, always consult a professional design engineer for proper use of fasteners

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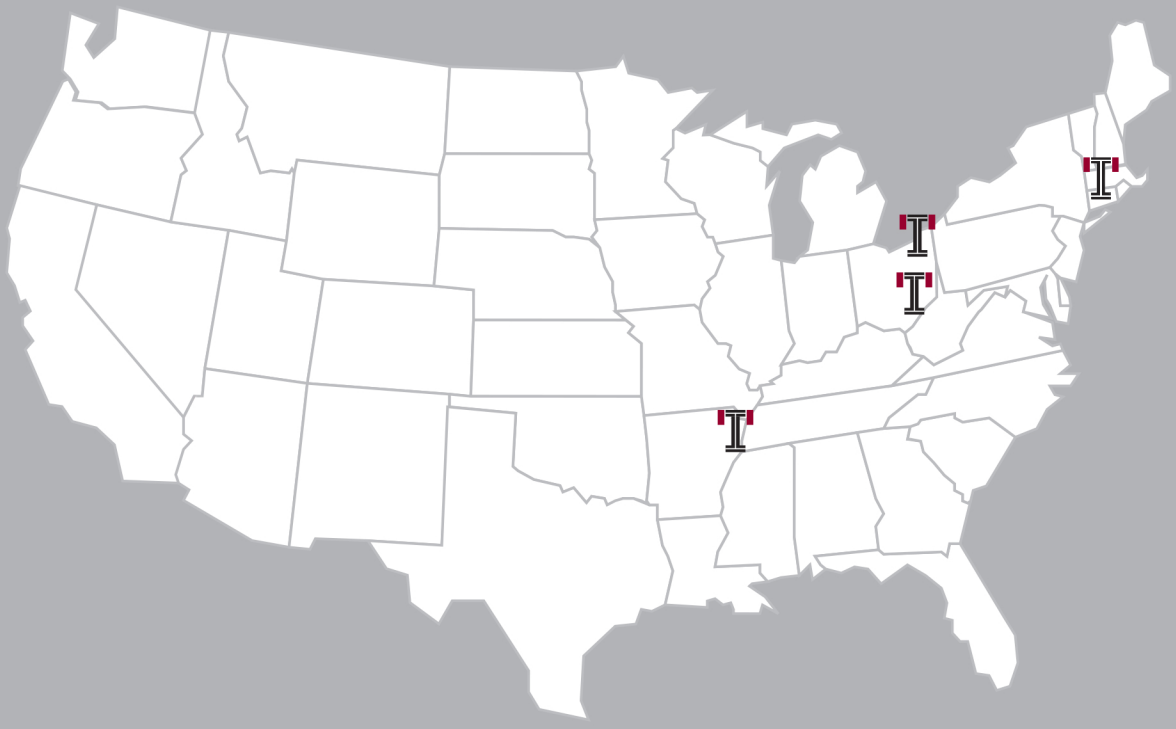

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This technical information reflects the most current information available and supersedes any and all previous publications effective January 1, 2016.

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