

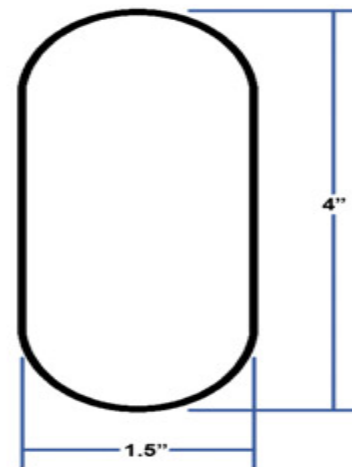
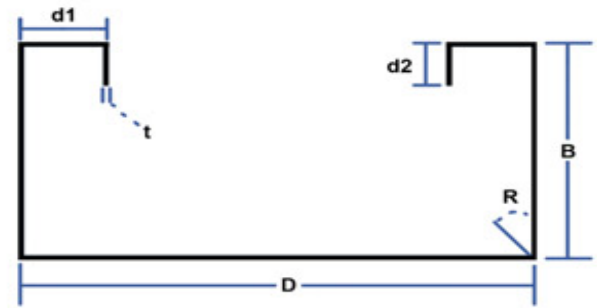
Product Profile	
Web Depth (D)	3.5 in
Flange Width (B)	2.5 in
Return Lip 1 (d1)	0.6332 in
Return Lip 2 (d2)	0.5 in
Gauge	16 in
Design Thickness (t)	0.0566 in
Minimum Steel Thickness (tmin)	0.0538 in
Inside Bend Radius (R)	0.105 in
Punchout Length	4 in
Punchout Width	1.5 in

Mechanical Properties	
ASTM Standard: A1003 / A1003M ST50H [ST340H]	
Yield Strength	50 (340) ksi (MPa)
Tensile Strength	65 (450) ksi (MPa)
Coating Weight	G60 (Z180) in

Gross Properties	
Area (in ²)	0.571 in ²
Unit Weight (lbs/ft)	1.942 (lbs/ft)
Moment of Inertia (Ix)	1.171 in ⁴
Section Modulus (Sx)	0.669 in ³
Radius of Gyration (Rx)	1.432 in
Moment of Inertia (Iy)	0.526 in ⁴
Radius of Gyration (Ry)	0.960 in

Torsional Properties	
St. Venant Torsion Constant (Jx1000)	0.609 in
Warping Constant (Cw)	1.953 in
Distance from Shear Center to Neutral Axis (Xo)	-2.465 in
Distance Between Shear Center and Web Centerline (m)	1.442 in
Polar Radius of Gyration (Ro)	3.008 in
Torsional Flexural Constant (β)	0.329 in

Effective Properties - 50 ksi ("net = Punched Sections)	
Moment of Inertia for Deflection (Ix)	1.171 in
Section Modulus (Sx)	0.571 in
Net Section Modulus (Sx (net))	0.545 in
Allowable Local Bending Moment (Mal)	17.099 in
Net Allowable Local Bending Moment (Mal (net))	16.324 in
Allowable Distortional Bending Moment (Mad)	17.616 in
Allowable Gross Shear (Vag)	3371 in
Net Allowable Shear (Va (net))	925 in
Moment of Inertia for Deflection (Iy1)	0.526 in
Allowable Local Bending Moment (Myal1)	10.864 in
Allowable Distortional Bending Moment (Myad1)	10.864 in
Moment of Inertia for Deflection (Iy2)	0.508 in
Allowable Local Bending Moment (Myal2)	10.390 in



Sections are punched with a standard punch-out 1.5" wide located along the centerline of the web 24" o.c.

Effective Properties - 33 ksi	
Ix	1.171 in
Mal	12.370 in
Mal (net)	12.069 in
Mad	13.136 in

- 1 Iy and Mya are based on the web element in tension.
- 2 Iy and Mya are based on the web element in compression.
- Section properties and capacities are calculated in accordance with AISI-NASPEC 2007.
- Tabulated gross properties are based on the full, unreduced cross section of the stud away from punchouts.
- Effective section properties incorporate the strength increase from cold work of forming as applicable per AISI-NASPEC, Sec. A7.2.
- Net effective section properties are calculated at a cross section through the punchout.
- For deflection calculations, use the effective moment of inertia (Ix). This Ix is calculated at a stress which results in a section modulus such that the stress times the section modulus at that stress is equal to the allowable moment. AISI S100-07 Procedure I for serviceability determination has been used.

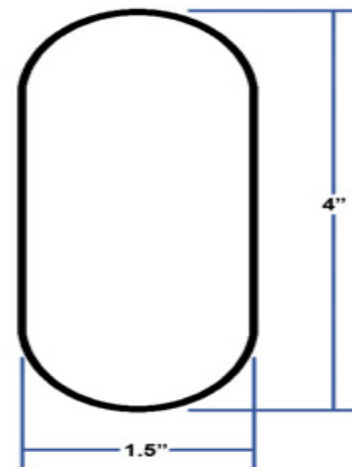
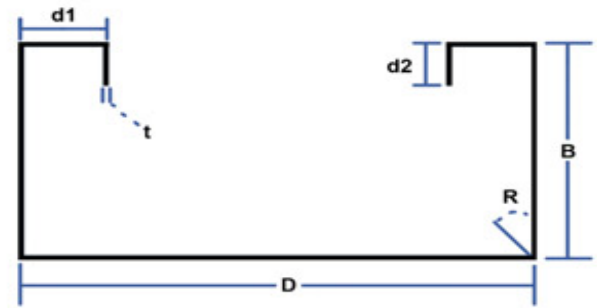
Product Profile	
Web Depth (D)	8 in
Flange Width (B)	2.5 in
Return Lip 1 (d1)	0.7684 in
Return Lip 2 (d2)	0.5 in
Gauge	10 in
Design Thickness (t)	0.1242 in
Minimum Steel Thickness (tmin)	0.1180 in
Inside Bend Radius (R)	0.105 in
Punchout Length	4 in
Punchout Width	1.5 in

Mechanical Properties	
ASTM Standard: A1003 / A1003M ST50H [ST340H]	
Yield Strength	50 (340) ksi (MPa)
Tensile Strength	65 (450) ksi (MPa)
Coating Weight	G60 (Z180) in

Gross Properties	
Area (in ²)	1.781 in ²
Unit Weight (lbs/ft)	6.060 (lbs/ft)
Moment of Inertia (Ix)	16.707 in ⁴
Section Modulus (Sx)	4.177 in ³
Radius of Gyration (Rx)	3.063 in
Moment of Inertia (Iy)	1.464 in ⁴
Radius of Gyration (Ry)	0.907 in

Torsional Properties	
St. Venant Torsion Constant (Jx1000)	9.127 in
Warping Constant (Cw)	19.330 in
Distance from Shear Center to Neutral Axis (Xo)	-1.825 in
Distance Between Shear Center and Web Centerline (m)	1.136 in
Polar Radius of Gyration (Ro)	3.679 in
Torsional Flexural Constant (β)	0.754 in

Effective Properties - 50 ksi ("net = Punched Sections)	
Moment of Inertia for Deflection (Ix)	16.707 in
Section Modulus (Sx)	4.177 in
Net Section Modulus (Sx (net))	4.177 in
Allowable Local Bending Moment (Mal)	142.242 in
Net Allowable Local Bending Moment (Mal (net))	142.242 in
Allowable Distortional Bending Moment (Mad)	125.055 in
Allowable Gross Shear (Vag)	16182 in
Net Allowable Shear (Va (net))	7301 in
Moment of Inertia for Deflection (Iy1)	1.464 in
Allowable Local Bending Moment (Myal1)	25.073 in
Allowable Distortional Bending Moment (Myad1)	25.017 in
Moment of Inertia for Deflection (Iy2)	1.464 in
Allowable Local Bending Moment (Myal2)	24.681 in



Sections are punched with a standard punch-out 1.5" wide located along the centerline of the web 24" o.c.

Effective Properties - 33 ksi	
Ix	16.707 in
Mal	95.609 in
Mal (net)	95.609 in
Mad	82.536 in

- 1 Iy and Mya are based on the web element in tension.
- 2 Iy and Mya are based on the web element in compression.
- Section properties and capacities are calculated in accordance with AISI-NASPEC 2007.
- Tabulated gross properties are based on the full, unreduced cross section of the stud away from punchouts.
- Effective section properties incorporate the strength increase from cold work of forming as applicable per AISI-NASPEC, Sec. A7.2.
- Net effective section properties are calculated at a cross section through the punchout.
- For deflection calculations, use the effective moment of inertia (Ix). This Ix is calculated at a stress which results in a section modulus such that the stress times the section modulus at that stress is equal to the allowable moment. AISI S100-07 Procedure I for serviceability determination has been used.

PrimeWall® Angle

200L-30, G40

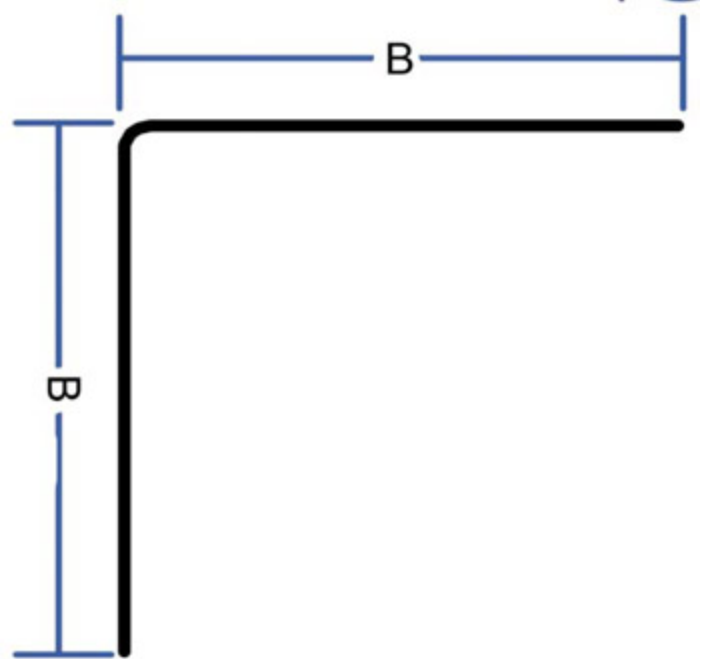
The Steel Network, Inc.

www.steelnetwork.com
1-888-474-4876



Product Profile	
Leg Length (B)	2 in
Gauge	20 ga
Design Thickness (t)	0.0312 in
Minimum Steel Thickness (tmin)	0.0296 in
Weight	0.432 lbs/ft
Stock Lengths	10 ft
Packaging	400 pcs/pallet

Mechanical Properties	
ASTM Standard	A1003 / A1003M NS33 [NS230]
Yield Strength	33 (230) ksi (MPa)
Tensile Strength	ksi (MPa)
Coating Weight	G40 (Z120)



- 18 mil angle includes knurled legs.
- PrimeWall Angle is produced to meet or exceed ASTM C645, A653, and A1003.
- Galvanized sheet steel meets or exceeds requirements of ASTM A924 & A1003.

PrimeWall® Resilient Channel

RC1-NH-30, G40

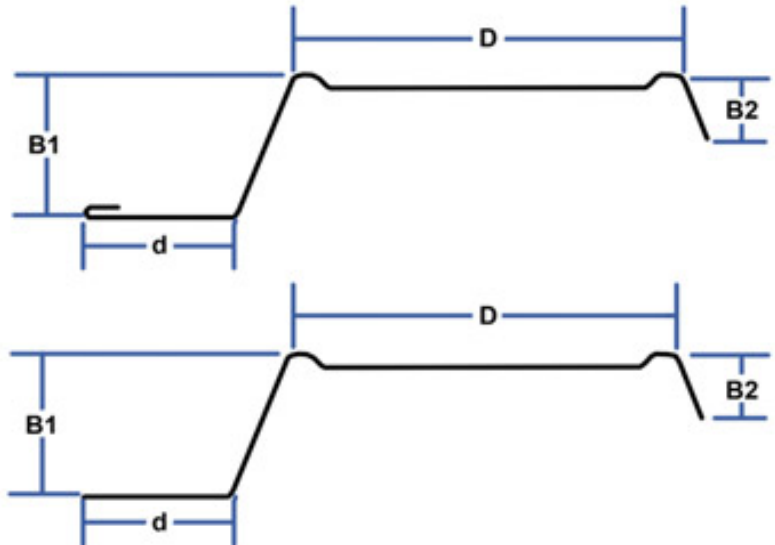
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Product Profile	
Web Depth (D)	1.25 in
Flange Width (B1)	0.5 in
Flange Width (B2)	0.25 in
Return Lip (d)	0.5 in
Gauge	20 ga
Design Thickness (t)	0.0312 in
Minimum Steel Thickness (tmin)	0.0296 in
Stock Lengths	0.0313 ft
Packaging	0.270 pcs/pallet
Mechanical Properties	
ASTM Standard	A1003 / A1003M NS33 [NS230]
Yield Strength	33 (230) ksi (MPa)
Tensile Strength	ksi (MPa)
Coating Weight	G40 (Z120)

Single Leg - RC1



- 18 mil furring channel is hemmed; All other thicknesses are unhemmed.
- PrimeWall Furring Channel is produced to meet or exceed ASTM C645, A653, and A1003.
- Galvanized sheet steel meets or exceeds requirements of ASTM A924 & A1003.

PrimeWall® Z-Furring Channel

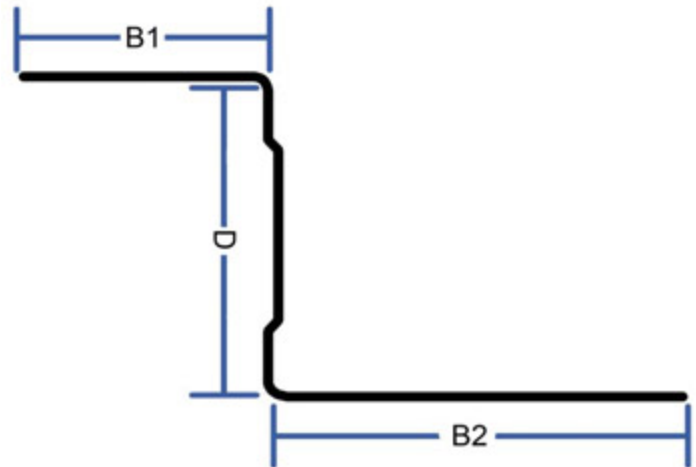
100ZF125-18, G40

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1-888-474-4876



Product Profile	
Web Depth (D)	1 in
Flange Width (B1)	0.75 in
Flange Width (B2)	1.25 in
Gauge (ga)	25 ga
Design Thickness (t)	0.0188 in
Minimum Steel Thickness (tmin)	0.0179 in
Inside Bend Radius (R)	0.0938 in
Unit Weight	0.195 lbs/ft
Mechanical Properties	
ASTM Standard	A1003 / A1003M NS33 [NS230]
Yield Strength	33 (230) ksi (MPa)
Tensile Strength	ksi (MPa)
Coating Weight	G40 (Z120)



Product Nomenclature

- PrimeWall® Z-Furring Channels are designated as web depth followed by channel type, then flange width and thickness:
- Web Depth (decimal(in) x 100) + ZF (Channel) + flange width (decimal(in) x 100) + mils
- PrimeWall® Z-Furring Channels are available standard in 1", 1.5" and 2" web depths, 1.25" flange width, and 18mils (25ga) and 30mils (20ga) thickness.

ASTM & Code Standards

- AISI North American Specification [NASPEC] 2007
- PrimeWall Z-Furring Channel is produced to meet or exceed ASTM C645
- Galvanized sheet steel meets or exceeds requirements of ASTM A924 & A1003

PrimeWall® Furring Channel

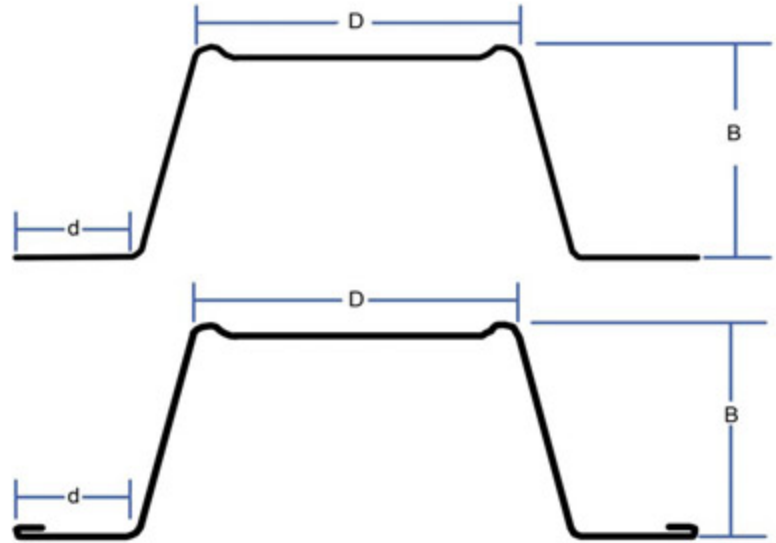
087F125-33, G40

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Product Profile	
Web Depth (D)	1.25 in
Flange Width (B)	0.875 in
Return Lip (d)	0.5 in
Gauge	20 in
Design Thickness (t)	0.0346 in
Minimum Steel Thickness (t _{min})	0.0329 in
Inside Bend Radius (R)	0.0764 in
Mechanical Properties	
ASTM Standard	A1003 / A1003M NS33 [NS230]
Minimum Yield Strength	33 (230) ksi (MPa)
Minimum Tensile Strength	ksi (MPa)
Coating Weight	G40 (Z120)
Gross Properties	
Area (in ²)	0.127 in ²
Unit Weight (lbs/ft)	0.432 (lbs/ft)
Moment of Inertia (I _x)	0.016 in ⁴
Radius of Gyration (R _x)	0.351 in ³
Moment of Inertia (I _y)	0.064 in
Radius of Gyration (R _y)	0.710 in ⁴
Effective Properties	
Moment of Inertia for Deflection (I _x)	0.016 in
Section Modulus (S _x)	0.034 in
Allowable Bending Moment (M _a)	0.665 in



- 18 mil furring channel is hemmed; All other thicknesses are unhemmed.
- PrimeWall Furring Channel is produced to meet or exceed ASTM C645, A653, and A1003.
- Galvanized sheet steel meets or exceeds requirements of ASTM A924 & A1003.