

PrimeWall® EQ Stud

600PWS134-21NS¹, 55 ksi, G40, Punched

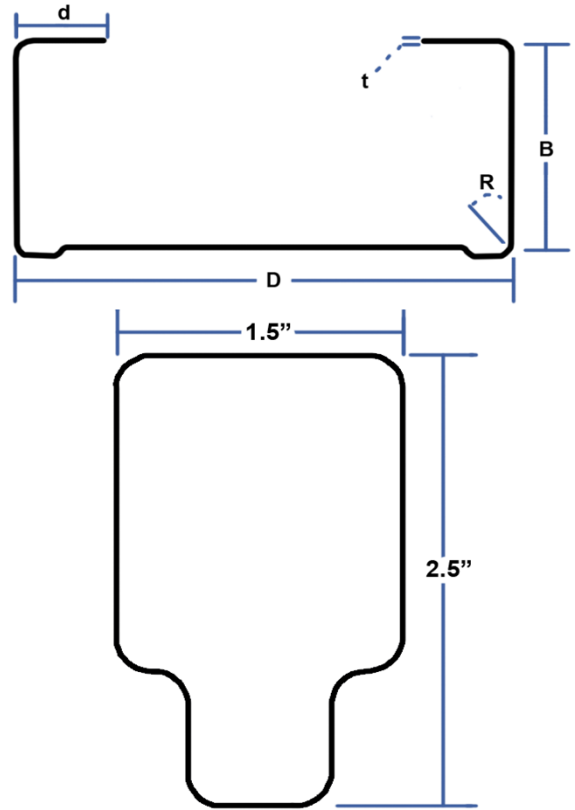
The Steel Network, Inc.

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Product Profile		
Web Depth (D)	6	in
Flange Width (B)	1.344	in
Return Lip (d)	0.406	in
Gauge	20 ga EQ	
Design Thickness (t)	0.0221	in
Minimum Steel Thickness (t _{min})	0.0210	in
Inside Bend Radius (R)	0.0600	in
Punchout Length	2.5	in
Punchout Width	1.5	in
Mechanical Properties		
ASTM Standard	A653 / A653M SS Grade 55 [SS Grade 380]	
Yield Strength	55 (380)	ksi (MPa)
Tensile Strength	70 (480)	ksi (MPa)
Coating Weight	G40 (Z120)	
Gross Properties		
Area (in ²)	0.205	in ²
Unit Weight (lbs/ft)	0.699	(lbs/ft)
Moment of Inertia (I _x)	1.027	in ⁴
Radius of Gyration (R _x)	2.237	in
Moment of Inertia (I _y)	0.045	in ⁴
Radius of Gyration (R _y)	0.466	in
Effective Properties		
Moment of Inertia for Deflection (I _x)	0.851	in ⁴
Section Modulus (S _x)	0.169	in ³
Allowable Bending Moment (M _a)	5.570	kips-in



¹ Web height to thickness ratio exceeds 260 or flange width to thickness ratio exceeds 60. See AISI S100-07 Section B1.

- 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 do not incorporate the strength increase from cold work of forming as applicable per AISI-NASPEC, Sec. A7.2.
- PrimeWall EQ Studs are produced to meet or exceed ASTM C645, A653 and A1003.
- For deflection calculations, use the effective moment of inertia (I_x). This I_x is calculated based on AISI S100-07 Procedure 1 for serviceability determination.

Standard punchouts have a length of 2.5" and width of 1.5" located along the centerline of the web 24" o.c.

Typical western punchout spacing 24" from lead end, then 24" o.c.

Typical eastern punchout spacing 12" from lead end, then 24" o.c.