



Product Specification and Submittal Form

INSIDE CORNER (ICS) 90° STUD

MANUFACTURER

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DESCRIPTION

ICS (Inside Corner) 90° Studs are made of galvanized steel and available in 22 gauge (27 mil) to 16 gauge (54 mil) thicknesses. They have two 2" faces bent to a 90° inside angle, with 90° flanges of 1.25" (or 1.625" for 18 & 16 gauge) and 90° lip returns of 0.25" for stiffness.

MATERIALS

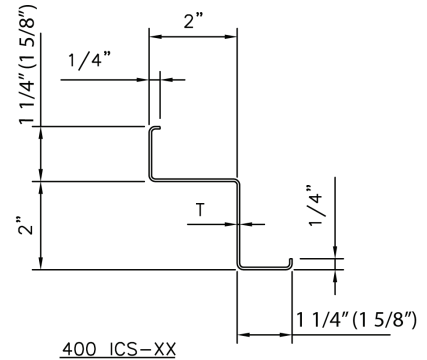
Inside Corner Studs sections are fabricated from hot dipped galvanized steel conforming to ASTM A653 -02a or equal.

ASTM & Code Standards

- AISI, North American Specification for the Design of Cold-Formed Steel Structural Members 2001 Edition with 2004 Supplement
- ASTM A370, Standard Test Methods and Definitions for Mechanical Testing of Steel Products
- ASTM A1003, Standard Specification for Sheet Steel, Carbon, Metallic and Non-Metallic Coating for Cold-Formed Framing Members.
- Steeler's structural framing comply with 2006 International Building Code (IBC- 2006)
- ASTM C955, Standard Specification for Structural Steel Framing Members.
- ASTM C754, Standard Specification for Installation of Steel Framing Members to Receive Screw-Attached Gypsum Panel Products.
- ASTM C1513, Standard Specification for Steel Tapping Screws for Cold-Formed Steel Framing Connections.
- ASTM C645, Standard Specification for Nonstructural Steel Framing Members.

COLOR CODE

- 27 mil - Black
- 30 mil - Pink
- 33 mil - White
- 43 mil - Yellow
- 54 mil - Green
- Painted on ends.



GROSS PROPERTY TABLES-SMOOTH PRODUCTS (ICS) Inside Corner Studs

MEMBER ID	GA	T, in	A, in ²	WT, plf	I _x , in ⁴	r _x , in	I _y , in ⁴	r _y , in
400 ICS-27	(22)	0.0283	0.1884	0.641	0.1897	1.003	0.190	1.003
400 ICS-30	(21)	0.0312	0.2073	0.705	0.2078	1.001	0.208	1.001
400 ICS-33	(20)	0.0346	0.2293	0.779	0.2288	0.999	0.229	0.999
400 ICS-43	(18)	0.0451	0.2965	1.008	0.2916	0.992	0.292	0.992
400 ICS-54	(16)	0.0566	0.366	1.246	0.353	0.982	0.353	0.982

EFFECTIVE PROPERTY TABLES

MEMBER Identification	FY=33 KSI			
	Maxo k-in	I _{xe} in ⁴	S _{xe(t)} in ³	S _{xe(b)} in ³
400 ICS-27	1.8012	0.1687	0.0912	0.1230
400 ICS-30	2.0507	0.1901	0.1038	0.1370
400 ICS-33	2.3574	0.2160	0.1193	0.1538
400 ICS-43	3.9347	0.2759	0.1531	0.1966
400 ICS-54	5.1342	0.3400	0.1905	0.2412

LIMITING HEIGHT TABLE

MEMBER Identification	5 PSF, L/120, FY=33 KSI		
	MEMBER HEIGHT, ft		
	12"OC	16"OC	24"OD
400 ICS-27	15.50	13.42	10.96
400 ICS-30	16.54	14.32	11.69
400 ICS-33	17.73	15.35	12.54
400 ICS-43	19.34	17.57	15.35
400 ICS-54	20.73	18.84	16.46