PRODUCT SPECIFICATION 12 GAUGE SQUARE POST

MATERIAL: Posts shall be manufactured by S-Square Tube Products, Inc. Steel posts furnished shall conform to the Standard Specification for Hot Rolled Carbon Sheet Steel, structural quality, ASTM A1011 (previously A570). Posts shall conform to the Standard Specification for Electric-Resistance Welded Metallic-Coated Carbon Steel Mechanical Tubing, ASTM A787.

FINISH: The square sign post tubing shall be hotdipped galvanized conforming to ASTM specification A653 designation G90. The weld is Zinc-Coated after scarfing operation.

SHAPE: The cross section of the post shall be square tubing formed of 12 gauge steel, carefully formed into size, and induction welded in such a manner that neither weld nor flash shall interfere with telescoping properties.

HOLES: Holes shall be $7/16" \pm 1/64"$ in diameter on 1" centers for the entire length of the post. Holes shall be on the center line of each side in true alignment and opposite to each other.

YIELD STRENGTH PROPERTIES:

60,000 PSI minimum

THICKNESS: 12 gauge 0.094 min., 0.105 nominal

Corner Radii:

Standard outside corner radii shall be: $5/32" \pm 1/32"$

. _. . . .

Length: The length of each post shall be as specified and have a permissible length tolerance of $\pm 1/4$ "

Straightness: 1/16" in 3 feet

TELESCOPING PROPERTIES: The finished post shall be straight and have a smooth uniform finish. It shall be possible to telescope the post with each consecutive larger or smaller size of square tube, freely and for not less than ten feet of their length without the necessity of matching any particular face to any other face. All holes and ends shall be free from burrs.

Post Dimensions and Properties

Weight Per Foot, Pounds

Gaude

12

12

12

12

within the squareness tolerance listed above.

Squareness of Sides and Twists:

Size

2" x 2"

1.75" x 1.75'

2.25" x 2.25"

2.5" x 2.5"

1.75" x 1.75"

2.25" x 2.25'

2.5" x 2.5"

2" x 2"

O.D. (in)	t (in)	Z (in ³)	M _A (lb-in)	
1.75" x 1.75"	0.105	0.377	13544	
2" x 2"	0.105	0.509	18287	
2.25" x 2.25"	0.105	0.661	23748	OD.
2.5" x 2.5"	0.105	0.833	29928	

Perforated

2.10

2.35

2.78

3.16

Not Perforated

0.062"

0.062"

0.062"

0.062"

2.22

2.47

2.90

3.28

Nominal Outside Dimensions Squareness Tolerance Twist Permissible in 3' Length

Note: A sample shall be considered to fail if its sides are not 90 degrees to each other

± 0.010"

± 0.012"

± 0.014'

± 0.016'

WIND LOAD MOMENTS (70 mph plus gusts)*
Square Sign Supports
SINGLE POST INSTALLATION

SIGN SIZE (W X H)"	MOUNTING HEIGHT*				
	5 Ft.	6 Ft.	7 Ft.	S Ft.	9
12 X 18	2,740	3,410	4,130	4,910	
12 X 36	5,440	6,490	7,590	8,740	1
18 X 24	4,900	5,910	6,980	8,100	
24 x 24	6,190	7,420	8,700	10,040	1
24 x 30	7,970	9,450	10,980	12,570	1.
24 x 36	9,930	11,660	13,450	15,290	1
24 x 48	14,280	16,540	18,850	21,210	2
30 x 30	9,620	11,370	13,160	15,020	10
36 x 36	14,050	16,420	18,840	21,320	2
48 x 24	10,490	12,440	14,440	16,490	1
48 x 30	13,440	15,800	18,200	20,670	2
48 x 36	16,590	19,360	22,170	25,040	2
48 x 48	26,240	30,210	34,220	38,300	4
48 x 60	35.210	40,130	45,090	50,120	1

Example: 48" x 24" sign, 10ft mounting height; moment equals 23,670 in.-lbs. Use two 1-3/4" 12ga posts.

WIND LOAD MOMENTS (70 mph plus
Square Sign Supports
TWO-POST INSTALLATION

SIGN SIZE (W X H)"	MOUNTING HEIGHT*				
	5 Ft.	6 Ft.	7 Ft.	8 Ft.	9
48 X 24	11,210	13,470	15,850	18,340	20
48 X 30	14,160	16,830	19,610	22,520	25
48 X 36	17,310	20,390	23,580	26,890	30
48 x 48	26,960	31,240	35,630	40,150	44
48 x 60	35,930	41,160	46,500	51,970	57
60 x 30	17,340	20,510	23,810	27,220	30
60 x 36	21,280	24,970	28,770	32,690	36
72 x 36	25,250	29,550	33,960	38,490	43
72 x 48	35,630	41,150	46,780	52,530	58
84 x 42	35,100	40,710	46,450	52,310	58
84 x 48	41,330	47,660	54,112	60,680	67

Example: 48" x 24" sign, 10ft mounting height; moment equals 23,670 in.-lbs. Use two 1-3/4" 12ga posts

 Tolerances:

 Nominal Outside Dimensions
 Outside tolerance on All Sides at Corners

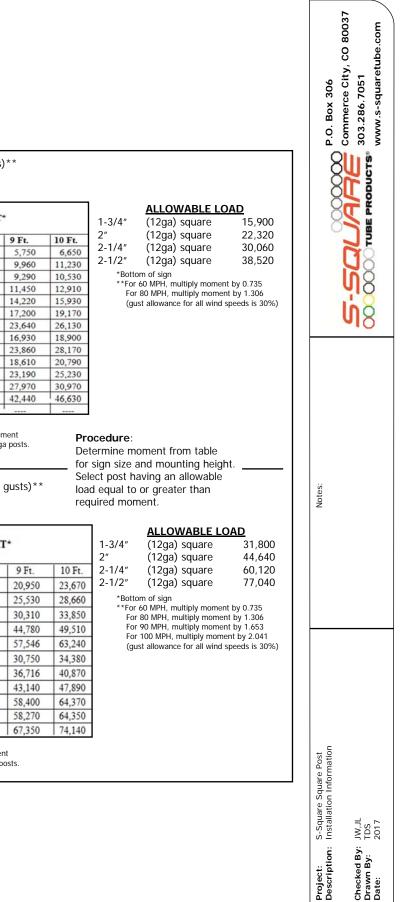
 1.75" x 1.75"
 ± 0.010"

1.75" x 1.75"	± 0.010"
2" x 2"	± 0.010"
2.25" x 2.25"	± 0.010"
2.5" x 2.5"	± 0.010"

Note: Measurements from outside dimension shall be made at least 2" from end of tube.

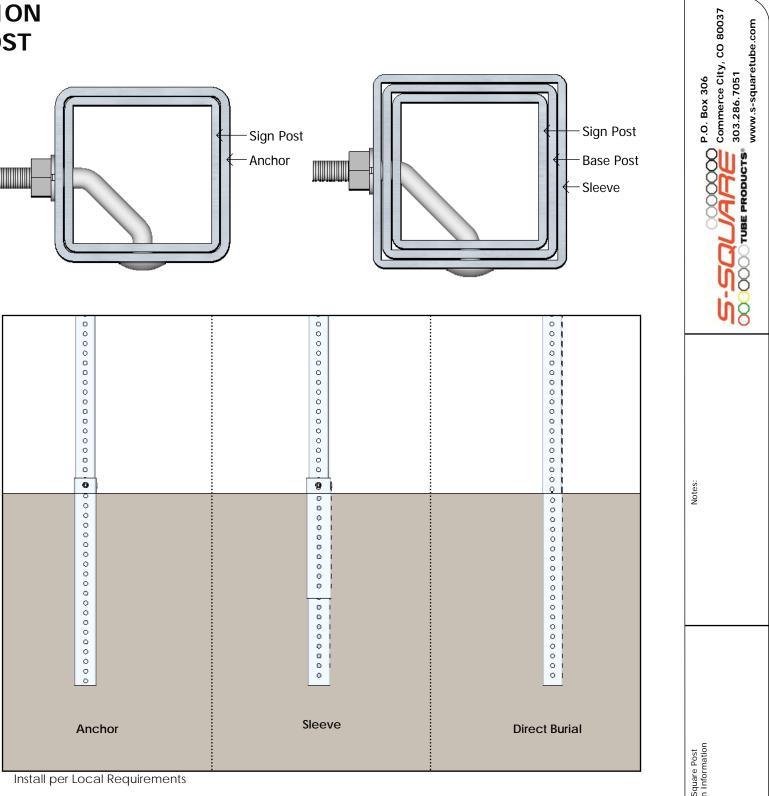
©2017 S-Square Tube Products[®], Inc. All rights reserved. No portion of this document may be reproduced without the written consent of S-Square Tube Products^d

This document, and the information it contains, including the principles of design, is the exclusive property of S-Square Tube Products[®] and is confidential. Accordingly, this information is submitted to you with the agreement that it is not to be reproduced, copied, or loaned in part or in whole, nor is the information to be relayed to any other individual or company except as S-Square Tube Products[®] first authorizes in writing. Acceptance of this document constitutes agreement to these restrictions.

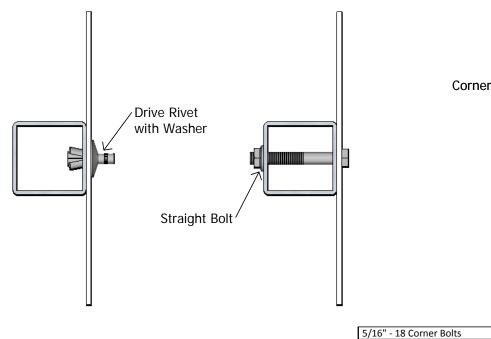


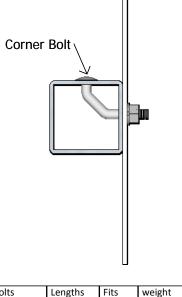
01 of 02

PRODUCT SPECIFICATION 12 GAUGE SQUARE POST



Sign to Post Connections





5/16" - 18 Corner Bolts	Lengths	Fits	weight
SQVCB240-2	2.0"	≤ 2"	0.05 lbs
SQVCB240-3	2.5"	≤ 2.5"	0.05 lbs
SQVCB240-2.6	3.0"	≤ 3"	0.05 lbs

000000000000000000000000000000000000000		
Inchor	SI	eeve

The anchor base may or may not have a strengthening sleeve at groundline. The anchor bases shall be sized to fit closely around the post. For 2.5" posts of both wall thicknesses and 2.25" 12ga posts the anchor bases shall be made of steel comparable to that of the posts and have wall thickness equal 7ga or greater. For all 2" and smaller posts the anchor bases shall be made of steel comparable to that of the posts and have wall thicknesses equal 12ga or greater.

 ${\scriptstyle \circledcirc 2017}$ S-Square Tube $Products^{\scriptstyle \circledast},$ Inc.

All rights reserved. No portion of this document may be reproduced without the written consent of S-Square Tube Products®

S-Square Square Installation Inforr JU, JU, JL TDS 2017 Project: Description: Checked By: Drawn By: Date: **02** of 02