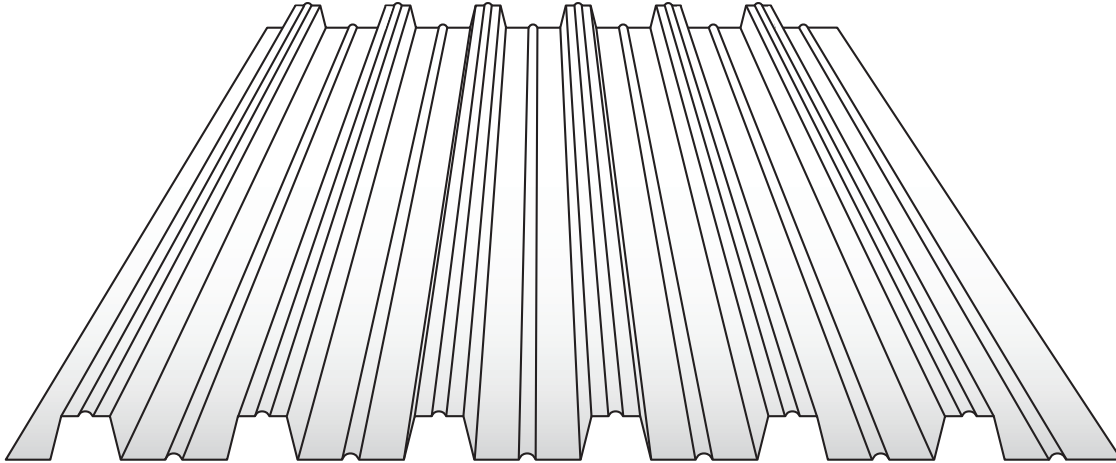


Loc Seal Decking

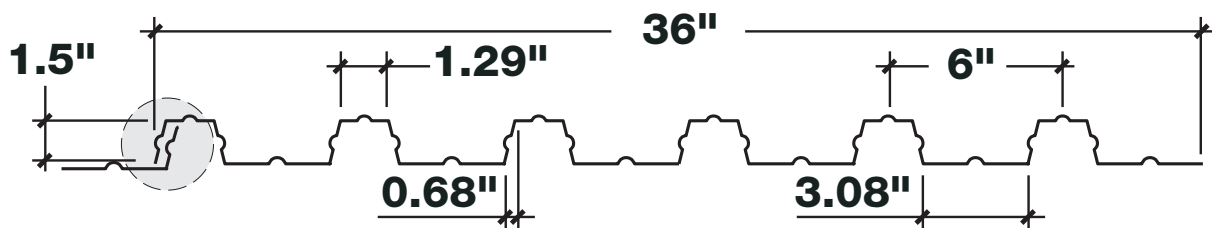


CFS Version 11.0.4
Section: Powers 29 Gage SB Deck 36 inch Segment.cfss
Powers 26 Gage SB Deck
Powers 26 Gage SB Deck
Rev. Date: 10/2/2019 9:23:08 AM
By: eng15
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Caruso Turley Scott Inc.

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POWERS 0.017" SB DECK



Section: Powers 29 Gage SB Deck 36 inch Segment.cfss

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Powers 26 Gage SB Deck

Caruso Turley Scott Inc.

Powers 26 Gage SB Deck

Rev. Date: 10/2/2019 9:56:25 AM

By: eng15

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Section Inputs

Material: A653 HSLAS Grade 80

No cold work of forming strength increase.

No inelastic reserve strength increase.

Modulus of Elasticity, E 29500 ksi

Yield Strength, Fy 80 ksi

Tensile Strength, Fu 90 ksi

Torsion Constant Override, J 0 in^4

Warping Constant Override, Cw 0 in^6

Part 1, Thickness 0.017 in

Placement of Part from Origin:

X to center of gravity 0 in

Y to center of gravity 0 in

Outside dimensions, Open shape

	Length (in)	Angle (deg)	Radius (in)	Web	k Coef.	Hole Size (in)	Distance (in)
1	0.1976	18.444	0.093750	None	0.000	0.0000	0.0988
2	0.1976	-18.444	0.093750	None	0.000	0.0000	0.0988
3	0.5625	0.000	0.093750	None	0.000	0.0000	0.2813
4	1.5811	-71.565	0.093750	Deck	0.000	0.0000	0.7906
5	1.5625	0.000	0.093750	None	0.000	0.0000	0.7813
6	0.1976	18.444	0.093750	None	0.000	0.0000	0.0988
7	0.1976	-18.444	0.093750	None	0.000	0.0000	0.0988
8	1.5625	0.000	0.093750	None	0.000	0.0000	0.7813
9	1.5811	71.565	0.093750	Deck	0.000	0.0000	0.7906
10	0.5625	0.000	0.093750	None	0.000	0.0000	0.2813
11	0.1976	18.444	0.093750	None	0.000	0.0000	0.0988
12	0.1976	-18.444	0.093750	None	0.000	0.0000	0.0988
13	0.5625	0.000	0.093750	None	0.000	0.0000	0.2813
14	1.5811	-71.565	0.093750	Deck	0.000	0.0000	0.7906
15	1.5625	0.000	0.093750	None	0.000	0.0000	0.7813
16	0.1976	18.444	0.093750	None	0.000	0.0000	0.0988
17	0.1976	-18.444	0.093750	None	0.000	0.0000	0.0988
18	1.5625	0.000	0.093750	None	0.000	0.0000	0.7813
19	1.5811	71.565	0.093750	Deck	0.000	0.0000	0.7906
20	0.5625	0.000	0.093750	None	0.000	0.0000	0.2813
21	0.1976	18.444	0.093750	None	0.000	0.0000	0.0988
22	0.1976	-18.444	0.093750	None	0.000	0.0000	0.0988
23	0.5625	0.000	0.093750	None	0.000	0.0000	0.2813
24	1.5811	-71.565	0.093750	Deck	0.000	0.0000	0.7906
25	1.5625	0.000	0.093750	None	0.000	0.0000	0.7813
26	0.1976	18.444	0.093750	None	0.000	0.0000	0.0988
27	0.1976	-18.444	0.093750	None	0.000	0.0000	0.0988
28	1.5625	0.000	0.093750	None	0.000	0.0000	0.7813
29	1.5811	71.565	0.093750	Deck	0.000	0.0000	0.7906
30	0.5625	0.000	0.093750	None	0.000	0.0000	0.2813
31	0.1976	18.444	0.093750	None	0.000	0.0000	0.0988
32	0.1976	-18.444	0.093750	None	0.000	0.0000	0.0988
33	0.5625	0.000	0.093750	None	0.000	0.0000	0.2813
34	1.5811	-71.565	0.093750	Deck	0.000	0.0000	0.7906
35	1.5625	0.000	0.093750	None	0.000	0.0000	0.7813
36	0.1976	18.444	0.093750	None	0.000	0.0000	0.0988

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Powers 26 Gage SB Deck

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Powers 26 Gage SB Deck

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37	0.1976	-18.444	0.093750	None	0.000	0.0000	0.0988
38	1.5625	0.000	0.093750	None	0.000	0.0000	0.7813
39	1.5811	71.565	0.093750	Deck	0.000	0.0000	0.7906
40	0.5625	0.000	0.093750	None	0.000	0.0000	0.2813
41	0.1976	18.444	0.093750	None	0.000	0.0000	0.0988
42	0.1976	-18.444	0.093750	None	0.000	0.0000	0.0988
43	0.5625	0.000	0.093750	None	0.000	0.0000	0.2813
44	1.5811	-71.565	0.093750	Deck	0.000	0.0000	0.7906
45	1.5625	0.000	0.093750	None	0.000	0.0000	0.7813
46	0.1976	18.444	0.093750	None	0.000	0.0000	0.0988
47	0.1976	-18.444	0.093750	None	0.000	0.0000	0.0988
48	1.5625	0.000	0.093750	None	0.000	0.0000	0.7813
49	1.5811	71.565	0.093750	Deck	0.000	0.0000	0.7906
50	0.5625	0.000	0.093750	None	0.000	0.0000	0.2813
51	0.1976	18.444	0.093750	None	0.000	0.0000	0.0988
52	0.1976	-18.444	0.093750	None	0.000	0.0000	0.0988
53	0.5625	0.000	0.093750	None	0.000	0.0000	0.2813
54	1.5811	-71.565	0.093750	Deck	0.000	0.0000	0.7906
55	1.5625	0.000	0.093750	None	0.000	0.0000	0.7813
56	0.1976	18.444	0.093750	None	0.000	0.0000	0.0988
57	0.1976	-18.444	0.093750	None	0.000	0.0000	0.0988
58	1.5625	0.000	0.093750	None	0.000	0.0000	0.7813
59	1.6770	63.435	0.093750	None	0.000	0.0000	0.8385
60	0.5000	0.000	0.093750	None	0.000	0.0000	0.2500

Full Section Properties

Area	0.82165 in ²	Wt.	0.0027936 k/ft	Width	48.333 in
Ix	0.309 in ⁴	rx	0.613 in	Ixy	-0.119 in ⁴
Sx(t)	0.3114 in ³	y(t)	0.991 in	α	89.922 deg
Sx(b)	0.5415 in ³	y(b)	0.570 in		
Zx	0.4430 in ³	Height	1.561 in		
Iy	87.704 in ⁴	ry	10.332 in	xo	-0.230 in
Sy(l)	4.8978 in ³	x(l)	17.907 in	yo	-0.159 in
Sy(r)	4.8825 in ³	x(r)	17.963 in	jx	0.246 in
Zy	7.3405 in ³	Width	35.870 in	jy	2.049 in
I1	87.704 in ⁴	r1	10.332 in	Cw	34.884 in ⁶
I2	0.308 in ⁴	r2	0.613 in	J	0.0000792 in ⁴
Ic	88.013 in ⁴	rc	10.350 in		
Io	88.077 in ⁴	ro	10.354 in		

26 GAUGE DECK PROPERTIES

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Powers 26 Gage SB Deck

Caruso Turley Scott Inc.

Powers 26 Gage SB Deck

Rev. Date: 10/2/2019 9:56:25 AM

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Fully Braced Strength - AISI S100-16/S1-18, US, ASD

Material Type: A653 HSLAS Grade 80, Fy=80 ksi

Compression

Positive Moment

Positive Moment

Pao 14.236 k

Maxo 0.833 k-ft

Mayo 9.569 k-ft

Ae 0.35589 in²

Ixe 0.265 in⁴

Iye 59.185 in⁴

Tension

Sxe(t) 0.2498 in³

Sye(l) 3.9444 in³

Sxe(b) 0.5309 in³

Sye(r) 2.8708 in³

Ta 36.974 k

Negative Moment

Negative Moment

Shear

Maxo 1.024 k-ft

Mayo 10.213 k-ft

Vay 3.210 k

Ixe 0.205 in⁴

Iye 62.890 in⁴

Vax 1.070 k

Sxe(t) 0.2677 in³

Sye(l) 3.0638 in³

Sxe(b) 0.2566 in³

Sye(r) 4.1024 in³

Governing S_{XE}

$$= 0.2498 \text{ in}^3 / 3 \text{ Ft}$$

$$= 0.083 \text{ in}^3 / \text{Ft}$$