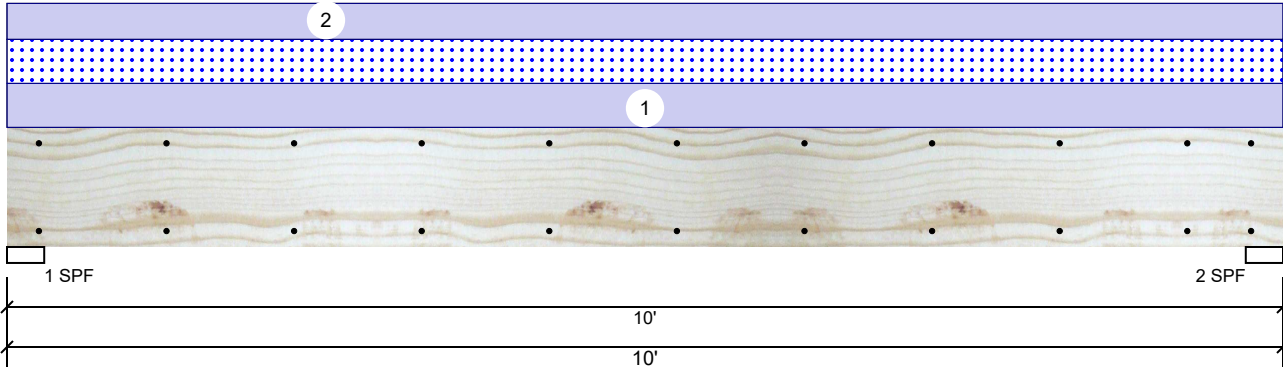


Shop Door S-P-F #2 2.000" X 12.000" 2-Ply - PASSED

Level: Level



Member Information

Type:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	480
Deflection TL:	360
Importance:	Normal - II
Temperature:	Temp <= 100°F

Application:	Floor
Design Method:	ASD
Building Code:	IBC/IRC 2015
Load Sharing:	No
Deck:	Not Checked

Reactions UNPATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	1397	530	0	0
2	Vertical	0	1397	530	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	43%	1397 / 530	1927	L	D+S
2 - SPF	3.500"	Vert	43%	1397 / 530	1927	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4385 ft-lb	5'	5306 ft-lb	0.826 (83%)	D+S	L
Unbraced	4385 ft-lb	5'	4387 ft-lb	1.000 (100%)	D+S	L
Shear	1453 lb	1'2 3/4"	3493 lb	0.416 (42%)	D+S	L
LL Defl inch	0.040 (L/2886)	5'	0.239 (L/480)	0.166 (17%)	S	L
TL Defl inch	0.144 (L/794)	5'	0.318 (L/360)	0.453 (45%)	D+S	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at a maximum of 6'8 15/16" o.c.
- 7 Bottom must be laterally braced at end bearings.
- 8 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Top	106 PLF	0 PLF	106 PLF	0 PLF	0 PLF	J08
2	Tie-In Far	0-0-0 to 10-0-0	4-4-0	Top	40 PSF	0 PSF	0 PSF	0 PSF	0 PSF	Shed
2	Tie-In Near	0-0-0 to 10-0-0	0-0-0	Top	40 PSF	0 PSF	0 PSF	0 PSF	0 PSF	Shed

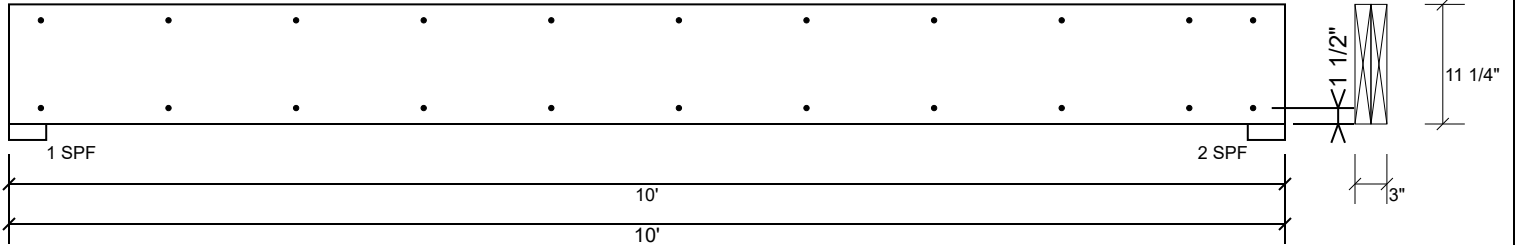
Manufacturer Info

Comtech, Inc.
 1001 S. Reilly Road, Suite #639
 Fayetteville, NC
 USA
 28314
 910-864-TRUS



This design is valid until 11/3/2024

Shop Door S-P-F #2 2.000" X 12.000" 2-Ply - PASSED Level: Level



Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	157.4 PLF
Yield Limit per Fastener	78.7 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Manufacturer Info	Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA 28314 910-864-TRUS
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