

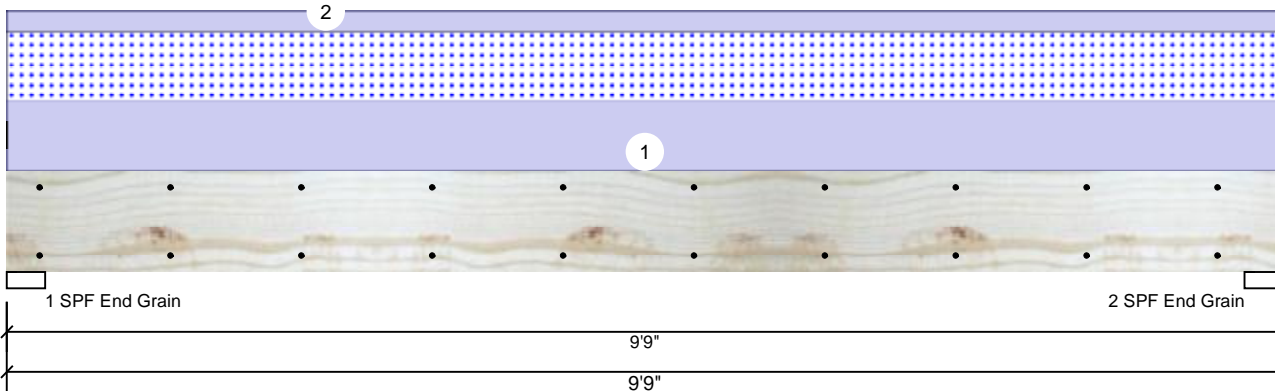


Client: Regency Homes  
 Project:  
 Address: James Elev. C

Date: 12/9/2021  
 Input by: Lenny Norris  
 Job Name: JAMES II Plan  
 Project #:

**GDH-3 SP #1 2.000" X 10.000" 3-Ply - PASSED**

Level: Level



**Member Information**

Type:	Girder
Plies:	3
Moisture Condition:	Dry
Deflection LL:	480
Deflection TL:	360
Importance:	Normal
Temperature:	Temp <= 100°F

Application:	Floor
Design Method:	ASD
Building Code:	IBC 2012
Load Sharing:	Yes
Deck:	Not Checked

**Reactions UNPATTERNED lb (Uplift)**

Brg	Live	Dead	Snow	Wind	Const
1	0	1331	1038	0	0
2	0	1331	1038	0	0

**Bearings**

Bearing	Length	Cap.	React D/L	lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	27%	1331 / 1038	2369	L	D+S	
2 - SPF End Grain	3.500"	27%	1331 / 1038	2369	L	D+S	

**Analysis Results**

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	5245 ft-lb	4'10 1/2"	7426 ft-lb	0.706 (71%)	D+S	L
Unbraced	5245 ft-lb	4'10 1/2"	5362 ft-lb	0.978 (98%)	D+S	L
Shear	1883 lb	1'	5585 lb	0.337 (34%)	D+S	L
LL Defl inch	0.075 (L/1482)	4'10 1/2"	0.232 (L/480)	0.320 (32%)	S	L
TL Defl inch	0.172 (L/650)	4'10 1/2"	0.310 (L/360)	0.550 (55%)	D+S	L

**Design Notes**

- 1 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top loads must be supported equally by all plies.
- 5 Top braced at bearings.
- 6 Bottom braced at bearings.
- 7 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	213 PLF	0 PLF	213 PLF	0 PLF	0 PLF	G1
2	Uniform			Top	60 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Siding

**Manufacturer Info**

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



This design is valid until 2/26/2023

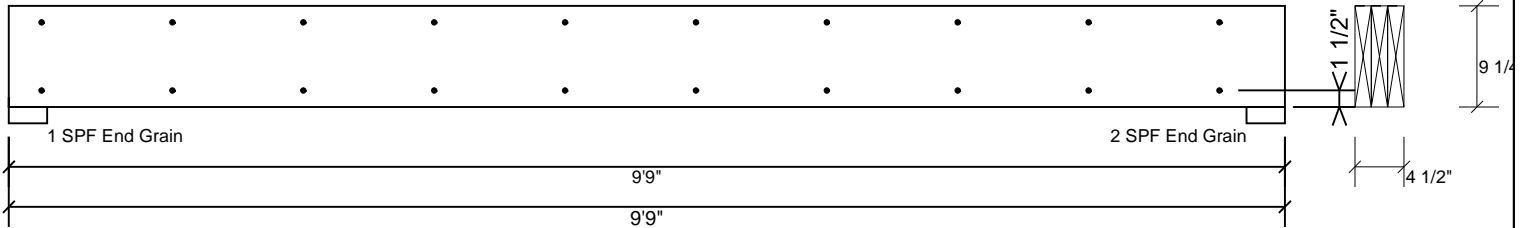


Client: Regency Homes  
 Project:  
 Address: James Elev. C

Date: 12/9/2021  
 Input by: Lenny Norris  
 Job Name: JAMES II Plan  
 Project #:

**GDH-3 SP #1 2.000" X 10.000" 3-Ply - PASSED**

Level: Level



**Multi-Ply Analysis**

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

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	202.6 PLF
Yield Limit per Fastener	101.3 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

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

This design is valid until 2/26/2023