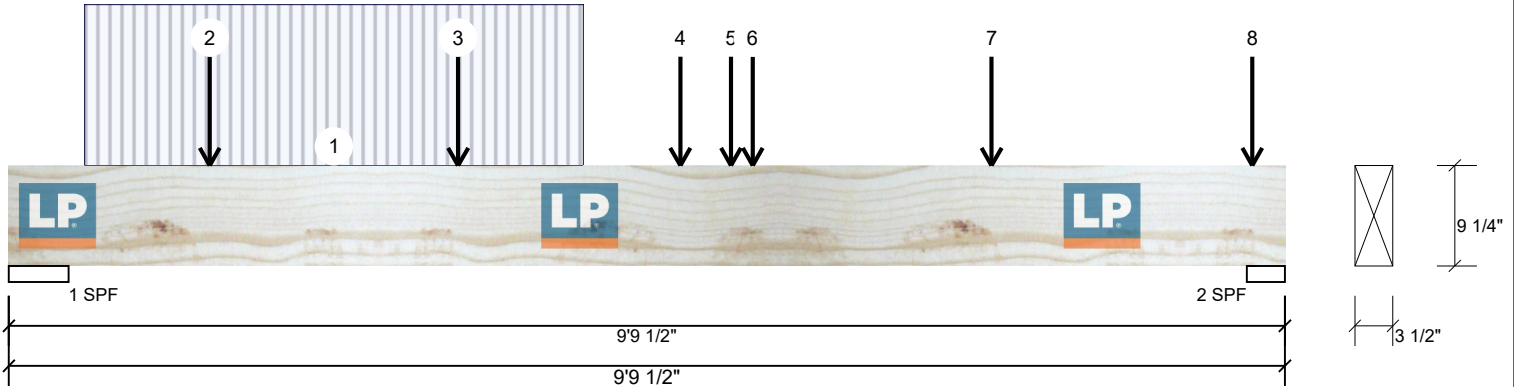


DB1-A LP-LSL 1.55E 3.500" X 9.250" - PASSED

Level: 2nd Floor



Member Information

Type:	Girder
Plies:	1
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal
Temperature:	Temp <= 100°F
General Load	
Floor Live:	40 PSF
Dead:	10 PSF

Application:	Floor
Design Method:	ASD
Building Code:	IRC 2012
Load Sharing:	No
Deck:	Not Checked

Reactions PATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	2311 (-15)	1172	0	0	0
2	2376 (-4)	876	0	0	0

Bearings

Bearing	Length	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	5.500"	43%	1172 / 2311	3483	L	D+L
2 - SPF	3.500"	62%	876 / 2376	3253	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	7857 ft-lb	3'5 3/8"	10127 ft-lb	0.776 (78%)	D+L	L
Shear	3471 lb	1'2"	8849 lb	0.392 (39%)	D+L	L
LL Defl inch	0.246 (L/447)	4'11 3/16"	0.306 (L/360)	0.810 (81%)	L	L
TL Defl inch	0.364 (L/302)	4'10 1/4"	0.458 (L/240)	0.800 (80%)	D+L	L

Design Notes

- 1 Provide lateral support to prevent rotation at end bearings and at interior bearings when required by code for seismic design.
- 2 Dead Load Deflection: Instant = 0.118", Long Term = 0.177"
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top braced at bearings.
- 5 Bottom braced at bearings.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Part. Uniform	0-7-1 to 4-4-13		Top	0 PLF	-5 PLF	0 PLF	0 PLF	0 PLF	
2	Point	1-6-8		Top	385 lb	1037 lb	0 lb	0 lb	0 lb	J2
	Bearing Length	0-3-8								
3	Point	3-5-6		Top	935 lb	1142 lb	0 lb	0 lb	0 lb	J2
	Bearing Length	0-3-8								
4	Point	5-1-13		Top	70 lb	283 lb	0 lb	0 lb	0 lb	FB8
	Bearing Length	0-3-8								
5	Point	5-6-8		Top	166 lb	665 lb	0 lb	0 lb	0 lb	J14
	Bearing Length	0-3-8								

Continued on page 2...

Notes

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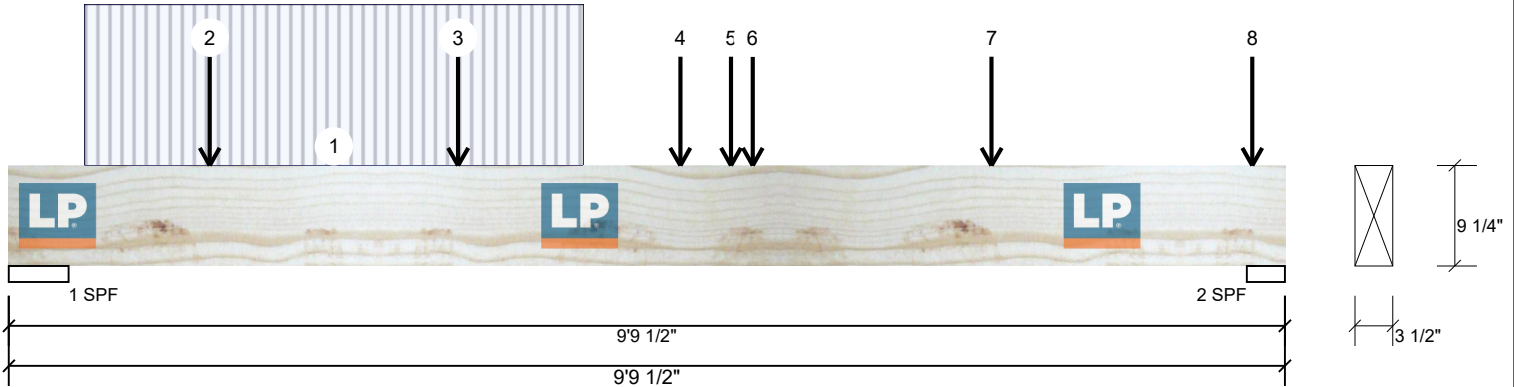
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DB1-A LP-LSL 1.55E 3.500" X 9.250" - PASSED

Level: 2nd Floor



...Continued from page 1

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
6	Point	5-8-8		Top	23 lb	91 lb	0 lb	0 lb	0 lb	J1
	Bearing Length	0-3-8								
7	Point	7-6-8		Top	199 lb	795 lb	0 lb	0 lb	0 lb	J1 J14
	Bearing Length	0-3-8								
8	Point	9-6-8		Top	169 lb	674 lb	0 lb	0 lb	0 lb	J4
	Bearing Length	0-3-8								
	Self Weight				10 PLF					

Notes

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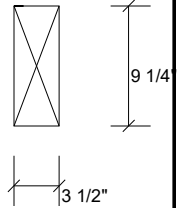
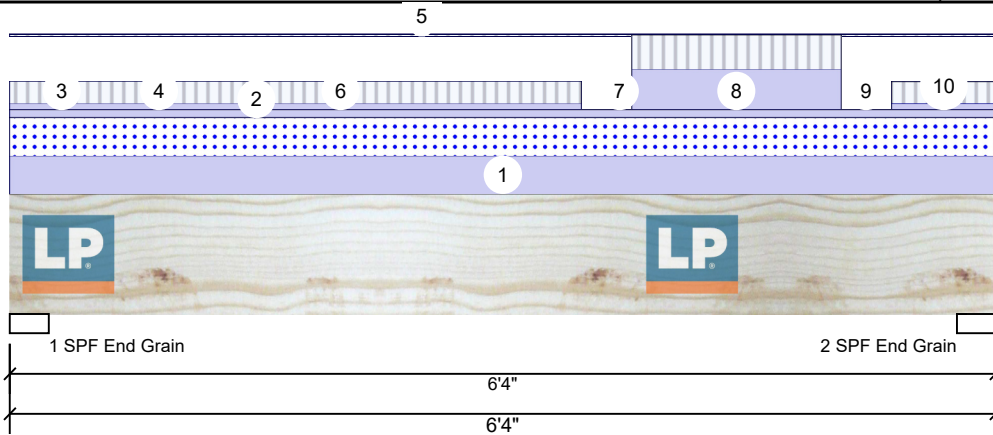
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U.S. LUMBER

HD2-A LP-LSL 1.55E 3.500" X 9.250" - PASSED

Level: 2nd Floor



Member Information

Type:	Girder
Plies:	1
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal
Temperature:	Temp <= 100°F
General Load	
Floor Live:	40 PSF
Dead:	10 PSF

Application:	Floor
Design Method:	ASD
Building Code:	IRC 2012
Load Sharing:	No
Deck:	Not Checked

Reactions PATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	697 (-54)	1807	1203	0	0
2	696 (-54)	2019	1203	0	0

Bearings

Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	35%	1807 / 1425	3232	L	D+0.75(L+S)
2 - SPF End Grain	3.000"	37%	2019 / 1425	3443	L	D+0.75(L+S)

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4701 ft-lb	3'3 5/16"	11647 ft-lb	0.404 (40%)	D+0.75(L+S)	L
Shear	2567 lb	5'4 1/2"	10177 lb	0.252 (25%)	D+0.75(L+S)	L
LL Defl inch	0.045 (L/1590)	3'2"	0.199 (L/360)	0.230 (23%)	0.75(L+S)	L
TL Defl inch	0.106 (L/674)	3'2 1/2"	0.298 (L/240)	0.360 (36%)	D+0.75(L+S)	L

Design Notes

- 1 Provide lateral support to prevent rotation at end bearings and at interior bearings when required by code for seismic design.
- 2 Dead Load Deflection: Instant = 0.061", Long Term = 0.092"
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top braced at bearings.
- 5 Bottom braced at bearings.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Part. Uniform	0-0-0 to 6-4-0		Top	380 PLF	0 PLF	380 PLF	0 PLF	0 PLF	
2	Part. Uniform	0-0-0 to 6-4-0		Top	80 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
3	Tapered Start	0-0-0		Top	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	0-8-0			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
4	Part. Uniform	0-0-0 to 3-8-0		Top	67 PLF	219 PLF	0 PLF	0 PLF	0 PLF	J5
5	Part. Uniform	0-0-0 to 6-4-0		Top	0 PLF	-17 PLF	0 PLF	0 PLF	0 PLF	J5
6	Tapered Start	0-8-0		Top	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	2-8-0			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	

Continued on page 2...

Notes

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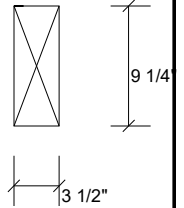
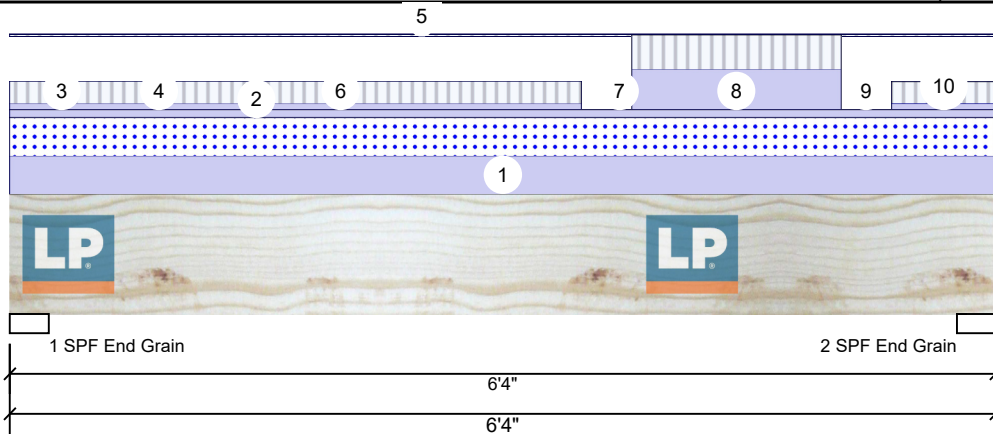
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This design is valid until
 10/31/2021

HD2-A LP-LSL 1.55E 3.500" X 9.250" - PASSED

Level: 2nd Floor



...Continued from page 1

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
7	Tapered Start	2-8-0		Top	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	4-8-0			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
8	Part. Uniform	4-0-0 to 5-4-0		Top	418 PLF	330 PLF	0 PLF	0 PLF	0 PLF	J5
9	Tapered Start	4-8-0		Top	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	6-4-0			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
10	Part. Uniform	5-8-0 to 6-4-0		Top	65 PLF	216 PLF	0 PLF	0 PLF	0 PLF	J5
	Self Weight				10 PLF					

Notes

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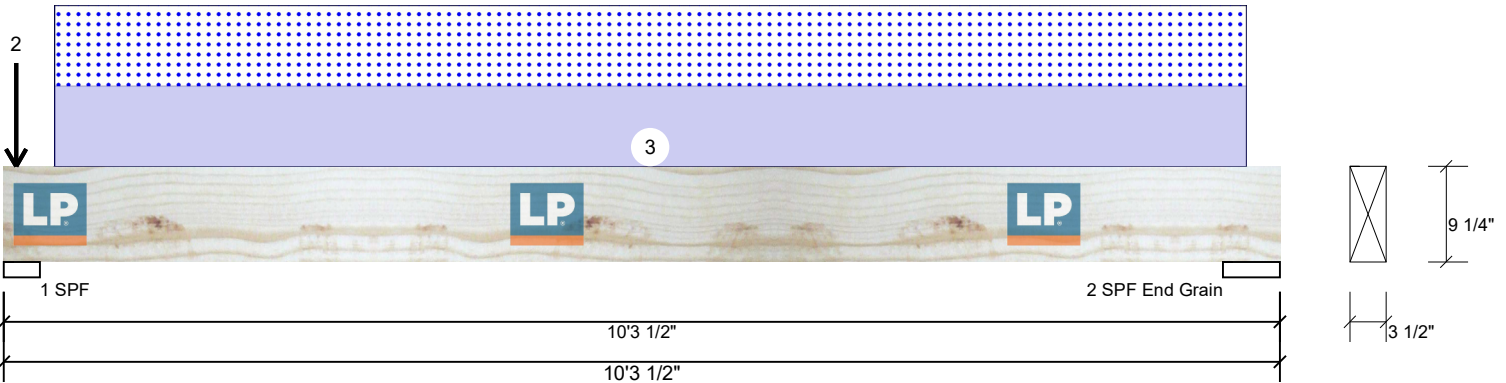


U.S. LUMBER

This design is valid until
 10/31/2021

DB4-B LP-LSL 1.55E 3.500" X 9.250" - PASSED

Level: 2nd Floor



Member Information

Type:	Girder
Plies:	1
Moisture Condition:	Dry
Deflection LL:	240
Deflection TL:	180
Importance:	Normal
Temperature:	Temp <= 100°F
General Load	
Floor Live:	40 PSF
Dead:	10 PSF

Application:	Floor
Design Method:	ASD
Building Code:	IRC 2012
Load Sharing:	No
Deck:	Not Checked

Reactions PATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	221 (-34)	864	744	0	0
2	0	846	792	0	0

Bearings

Bearing	Length	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	31%	864 / 744	1608	L	D+S
2 - SPF	5.500"	10%	846 / 792	1638	L	D+S
End Grain						

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3856 ft-lb	5' 3/4"	11647 ft-lb	0.331 (33%)	D+S	L
Shear	1343 lb	1'	10177 lb	0.132 (13%)	D+S	L
LL Defl inch	0.096 (L/1204)	5' 3/4"	0.483 (L/240)	0.200 (20%)	S	L
TL Defl inch	0.199 (L/583)	5' 3/4"	0.644 (L/180)	0.310 (31%)	D+S	L

Design Notes

- 1 Provide lateral support to prevent rotation at end bearings and at interior bearings when required by code for seismic design.
- 2 Dead Load Deflection: Instant = 0.103", Long Term = 0.154"
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top braced at bearings.
- 5 Bottom braced at bearings.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Point	0-1-3		Top	67 lb	221 lb	0 lb	0 lb	0 lb	J5
	Bearing Length	0-3-8								
2	Point	0-1-3		Top	0 lb	-34 lb	0 lb	0 lb	0 lb	J5
3	Part. Uniform	0-4-15 to 10-0-2		Top	160 PLF	0 PLF	160 PLF	0 PLF	0 PLF	
	Self Weight				10 PLF					

Notes

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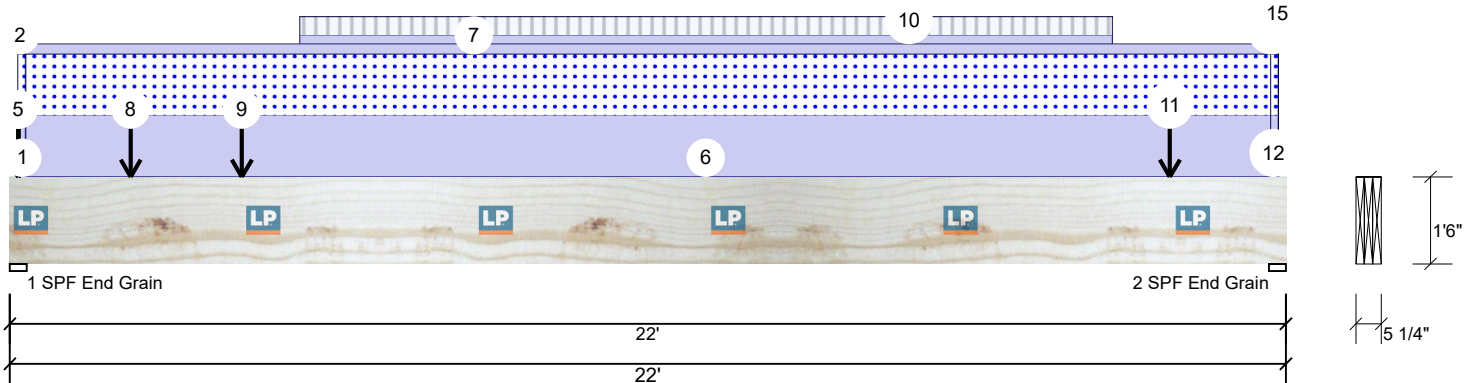
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This design is valid until
 10/31/2021

FB6-A LP-LVL 2900Fb-2.0E 1.750" X 18.000" 3-Ply - PASSED

Level: 2nd Floor



Member Information

Type:	Girder
Plies:	3
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal
Temperature:	Temp <= 100°F
General Load	
Floor Live:	40 PSF
Dead:	10 PSF

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

Reactions PATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	1131	5725	4125	0	0
2	1134	5677	4125	0	0

Bearings

Bearing	Length	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	71%	5725 / 4125	9849	L	D+S
2 - SPF End Grain	3.500"	71%	5677 / 4125	9801	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	52730 ft-lb	10'11 15/16"	77329 ft-lb	0.682 (68%)	D+S	L
Shear	8490 lb	1'8 5/8"	20648 lb	0.411 (41%)	D+S	L
LL Defl inch	0.389 (L/665)	11' 1/16"	0.719 (L/360)	0.540 (54%)	S	L
TL Defl inch	0.929 (L/278)	10'11 15/16"	1.078 (L/240)	0.860 (86%)	D+S	L

Design Notes

- 1 Provide lateral support to prevent rotation at end bearings and at interior bearings when required by code for seismic design.
- 2 Dead Load Deflection: Instant = 0.540", Long Term = 0.810"
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Multiple plies must be fastened together as per manufacturer's details.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at a maximum of 4'4 1/2" o.c.
- 7 Bottom braced at bearings.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Part. Uniform	0-1-12 to 0-3-6		Top	380 PLF	0 PLF	380 PLF	0 PLF	0 PLF	
2	Part. Uniform	0-1-12 to 0-3-6		Top	64 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
3	Point	0-1-12		Top	11 lb	0 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-3-8								
4	Point	0-1-12		Top	4 lb	0 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-3-8								
5	Point	0-1-12		Top	2 lb	0 lb	0 lb	0 lb	0 lb	Wall Self Weight

Continued on page 2...

Notes

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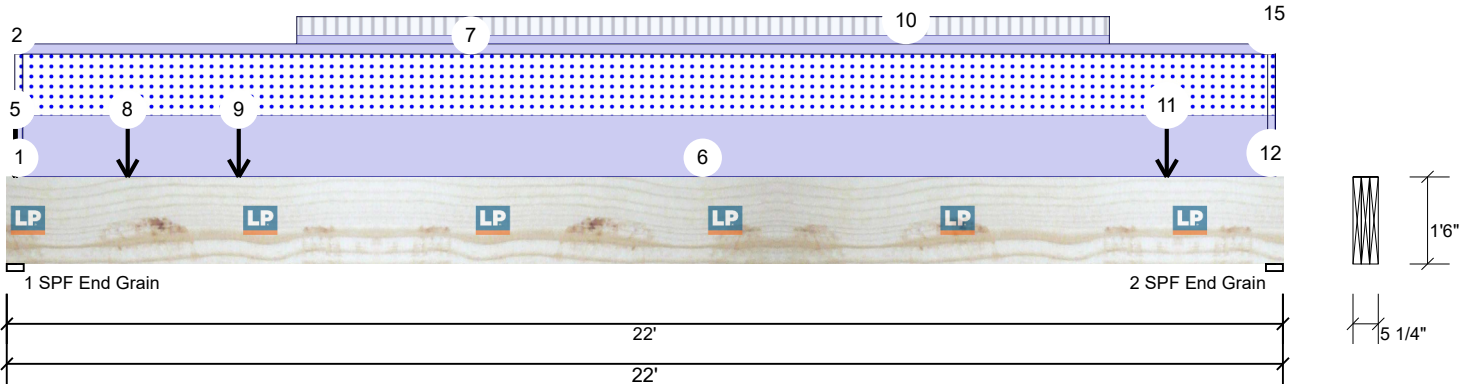
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FB6-A LP-LVL 2900Fb-2.0E 1.750" X 18.000" 3-Ply - PASSED

Level: 2nd Floor



...Continued from page 1

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
	Bearing Length	0-3-8								
6	Part. Uniform	0-3-6 to 21-8-10		Top	380 PLF	0 PLF	380 PLF	0 PLF	0 PLF	
7	Part. Uniform	0-3-6 to 21-8-10		Top	64 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
8	Point	2-1-0		Far Face	147 lb	225 lb	0 lb	0 lb	0 lb	J11
9	Point	4-0-0		Far Face	112 lb	223 lb	0 lb	0 lb	0 lb	J11
10	Part. Uniform	5-0-0 to 19-0-0		Far Face	56 PLF	114 PLF	0 PLF	0 PLF	0 PLF	
11	Point	20-0-0		Far Face	106 lb	213 lb	0 lb	0 lb	0 lb	J11
12	Part. Uniform	21-8-10 to 21-10-4		Top	380 PLF	0 PLF	380 PLF	0 PLF	0 PLF	
13	Part. Uniform	21-8-10 to 21-10-4		Top	64 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
14	Tie-In	21-9-10 to 22-0-0	0-10-7	Top	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
15	Tie-In	21-9-10 to 22-0-0	0-1-15	Top	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
	Self Weight				27 PLF					

Notes

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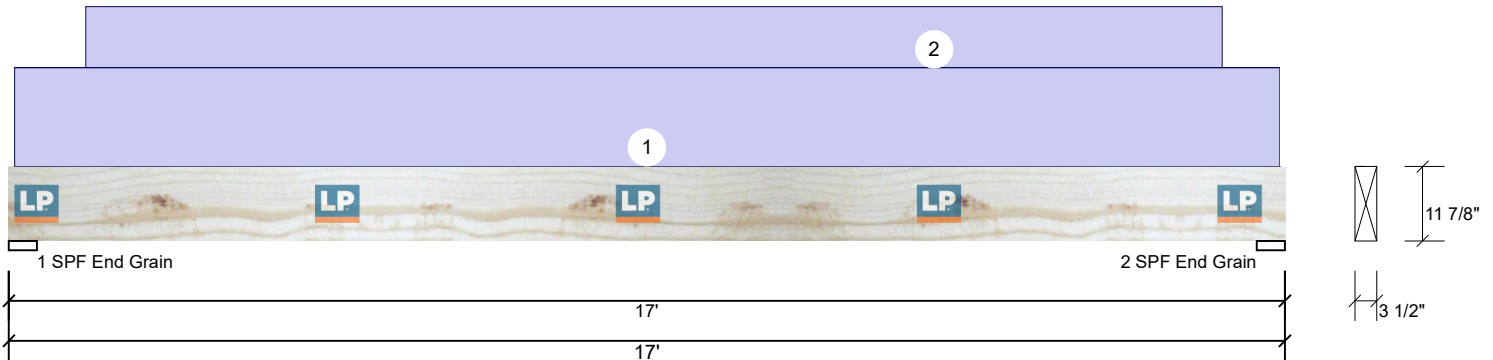


U.S. LUMBER

This design is valid until
 10/31/2021

HD1-A LP-LSL 1.55E 3.500" X 11.875" - PASSED

Level: 2nd Floor



Member Information

Type:	Girder
Plies:	1
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal
Temperature:	Temp <= 100°F
General Load	
Floor Live:	40 PSF
Dead:	10 PSF

Application:	Floor
Design Method:	ASD
Building Code:	IRC 2012
Load Sharing:	No
Deck:	Not Checked

Reactions PATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	0	2030	0	0	0
2	0	2045	0	0	0

Bearings

Bearing	Length	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	4.500"	15%	2030 / 0	2030	Uniform	D
2 - SPF End Grain	4.500"	15%	2045 / 0	2045	Uniform	D

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	8404 ft-lb	8'6 1/16"	14578 ft-lb	0.576 (58%)	D	Uniform
Shear	1809 lb	1'3 5/8"	10224 lb	0.177 (18%)	D	Uniform
LL Defl inch	0.000 (L/999)	0	999.000 (L/0)	0.000 (0%)		
TL Defl inch	0.566 (L/347)	8'6 1/16"	0.819 (L/240)	0.690 (69%)	D	Uniform

Design Notes

- 1 Provide lateral support to prevent rotation at end bearings and at interior bearings when required by code for seismic design.
- 2 Dead Load Deflection: Instant = 0.566", Long Term = 0.848"
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top braced at bearings.
- 5 Bottom braced at bearings.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Part. Uniform	0-1-0 to 16-11-0		Top	146 PLF	0 PLF	0 PLF	0 PLF	0 PLF	
2	Part. Uniform	1-0-5 to 16-1-14		Top	92 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
	Self Weight				13 PLF					

Notes

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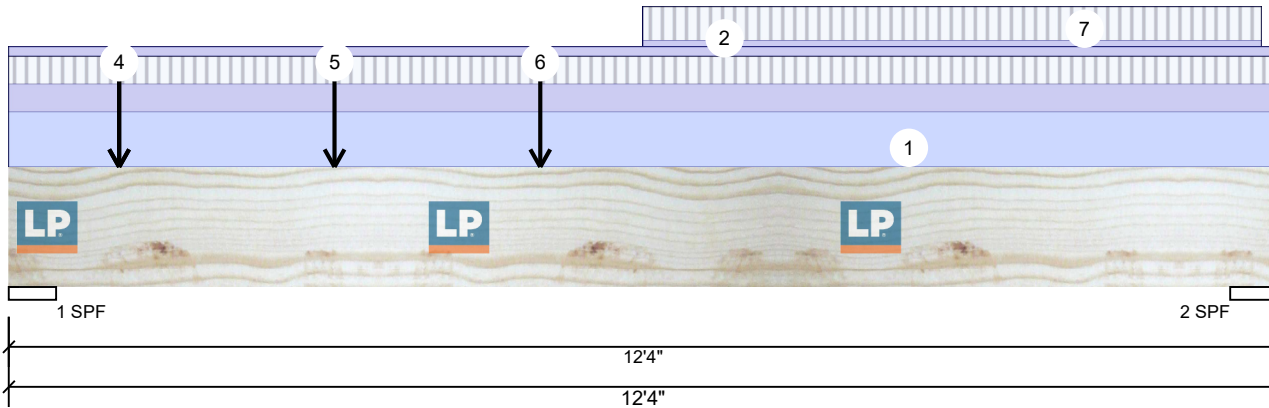


U.S. LUMBER

This design is valid until
 10/31/2021

FB2-A LP-LSL 1.55E 3.500" X 14.000" - PASSED

Level: 2nd Floor



Member Information

Type:	Girder
Plies:	1
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal
Temperature:	Temp <= 100°F
General Load	
Floor Live:	40 PSF
Dead:	10 PSF

Application:	Floor
Design Method:	ASD
Building Code:	IRC 2012
Load Sharing:	No
Deck:	Not Checked

Reactions PATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	3169 (-7)	2802	0	0	2837
2	3135 (0)	2460	0	0	2837

Bearings

Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	5.500"	89%	2802 / 4504	7306	Uniform	D+0.75(L+C)
2 - SPF	5.500"	85%	2460 / 4478	6938	Uniform	D+0.75(L+C)

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	15569 ft-lb	5'11 7/8"	22073 ft-lb	0.705 (71%)	D+L	L
Shear	5505 lb	1'6 3/4"	13393 lb	0.411 (41%)	D+L	L
LL Defl inch	0.276 (L/502)	6'1 3/4"	0.385 (L/360)	0.720 (72%)	0.75(L+C)	Uniform
TL Defl inch	0.428 (L/323)	6'1 11/16"	0.577 (L/240)	0.740 (74%)	D+0.75(L+C)	Uniform

Design Notes

- 1 Provide lateral support to prevent rotation at end bearings and at interior bearings when required by code for seismic design.
- 2 Dead Load Deflection: Instant = 0.152", Long Term = 0.229"
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top braced at bearings.
- 5 Bottom braced at bearings.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Part. Uniform	0-0-0 to 12-4-0		Top	230 PLF	230 PLF	0 PLF	0 PLF	460 PLF	
2	Part. Uniform	0-0-0 to 12-4-0		Top	80 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
3	Point	1-0-14		Near Face	501 lb	492 lb	0 lb	0 lb	0 lb	J2
4	Point	1-0-14		Near Face	0 lb	-7 lb	0 lb	0 lb	0 lb	J2
5	Point	3-2-0		Near Face	167 lb	667 lb	0 lb	0 lb	0 lb	J5
6	Point	5-2-0		Near Face	163 lb	652 lb	0 lb	0 lb	0 lb	J5
7	Part. Uniform	6-2-0 to 12-2-0		Near Face	69 PLF	276 PLF	0 PLF	0 PLF	0 PLF	
	Self Weight				16 PLF					

Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.
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This design is valid until
 10/31/2021