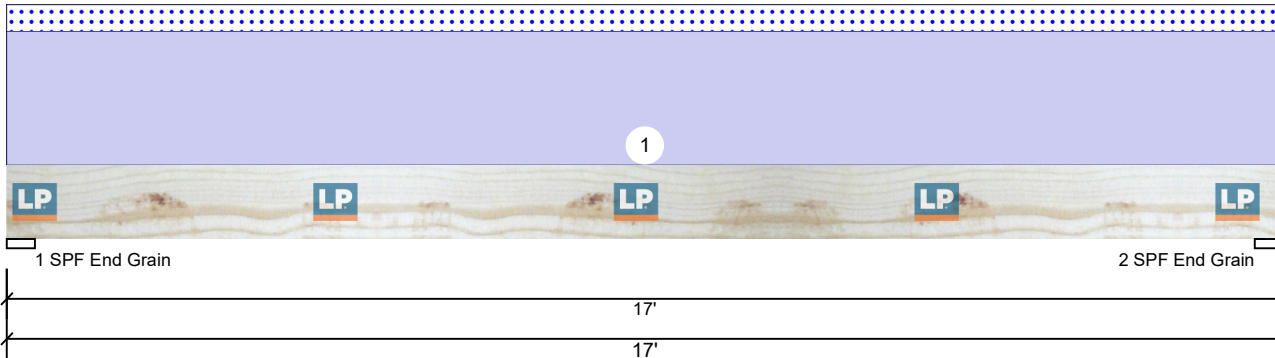


HD1-A LP-LSL 1.55E 3.500" X 11.875" - PASSED

Level: 2nd Flr



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	963	170	0	0
2	0	963	170	0	0

Bearings

Bearing	Length	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	4.500"	8%	963 / 170	1133	L	D+S
2 - SPF End Grain	4.500"	8%	963 / 170	1133	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3797 ft-lb	8'6"	14578 ft-lb	0.260 (26%)	D	Uniform
Shear	815 lb	1'3 5/8"	10224 lb	0.080 (8%)	D	Uniform
LL Defl inch	0.045 (L/4354)	8'6 1/16"	0.546 (L/360)	0.080 (8%)	S	L
TL Defl inch	0.301 (L/653)	8'6 1/16"	0.819 (L/240)	0.370 (37%)	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 = 0.256", Long Term = 0.383"
- 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 Self Weight	0-0-0 to 17-0-0		Top	100 PLF 13 PLF	0 PLF	20 PLF	0 PLF	0 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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Manufacturer Info

Louisiana-Pacific Corp
 414 Union Street, Suite 2000
 Nashville, TN 37219
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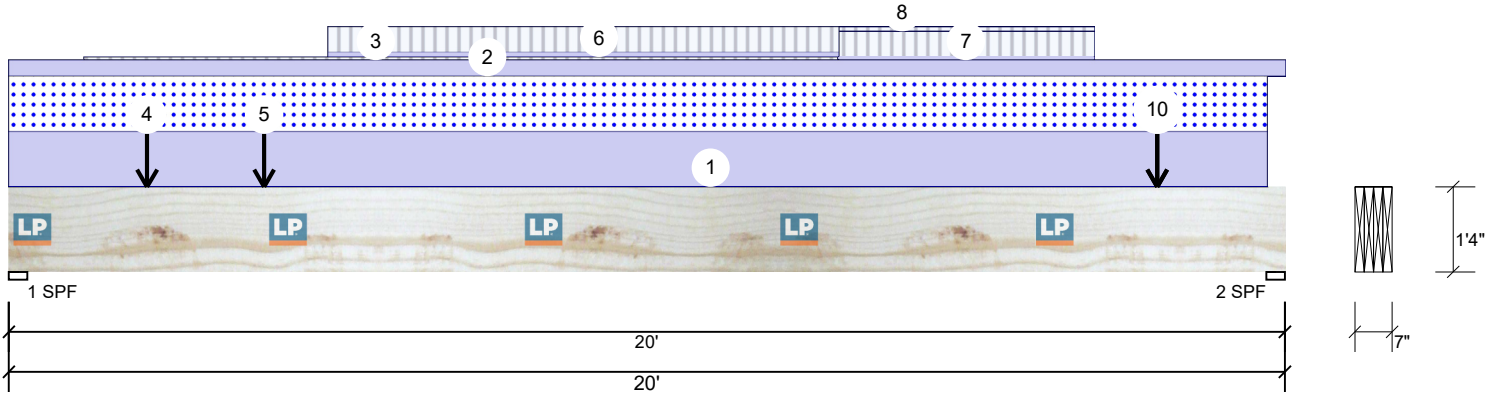
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 30097
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This design is valid until
 10/31/2021

FB5-A LP-LVL 2900Fb-2.0E 1.750" X 16.000" 4-Ply - PASSED

Level: 2nd Flr



Member Information

Type:	Girder
Plies:	4
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	1340 (-209)	4903	3350	0	0
2	1345 (-453)	4722	3254	0	0

Bearings

Bearing	Length	Cap. React	D/L lb	Total Ld.	Case	Ld. Comb.
1 - SPF	3.500"	81%	4903 / 3517	8420	L	D+0.75(L+S)
2 - SPF	3.500"	78%	4722 / 3450	8172	L	D+0.75(L+S)

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	40916 ft-lb	9'11 3/4"	82849 ft-lb	0.494 (49%)	D+0.75(L+S)	L
Shear	7312 lb	1'6 5/8"	24472 lb	0.299 (30%)	D+0.75(L+S)	L
LL Defl inch	0.268 (L/875)	9'11 15/16"	0.652 (L/360)	0.410 (41%)	0.75(L+S)	L
TL Defl inch	0.632 (L/372)	9'11 15/16"	0.978 (L/240)	0.650 (65%)	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 = 0.363", Long Term = 0.545"
- 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 7' 3/4" 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	0-0-0 to 19-8-9		Top	335 PLF	0 PLF	335 PLF	0 PLF	0 PLF	
2	Part. Uniform	0-0-0 to 20-0-0		Top	96 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
3	Part. Uniform	1-2-3 to 12-11-13		Far Face	0 PLF	-20 PLF	0 PLF	0 PLF	0 PLF	
4	Point	2-2-0		Far Face	64 lb	299 lb	0 lb	0 lb	0 lb	J2
5	Point	4-0-0		Far Face	62 lb	289 lb	0 lb	0 lb	0 lb	J2
6	Part. Uniform	5-0-0 to 13-0-0		Far Face	32 PLF	151 PLF	0 PLF	0 PLF	0 PLF	
7	Part. Uniform	13-0-0 to 17-0-0		Far Face	27 PLF	148 PLF	0 PLF	0 PLF	0 PLF	

Continued on page 2...

Notes

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 Nashville, TN 37219
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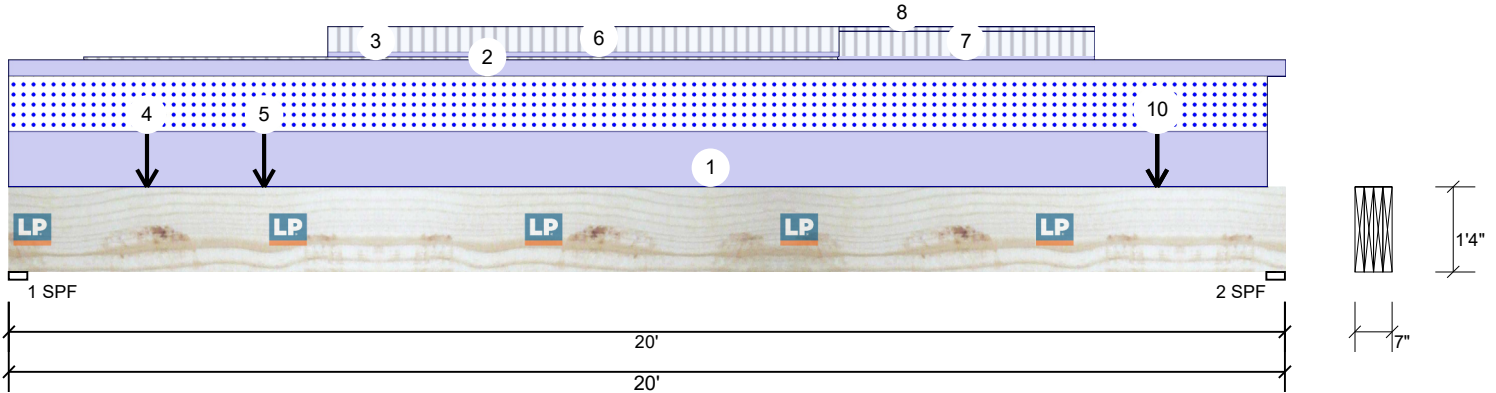


U.S. LUMBER

This design is valid until
 10/31/2021

FB5-A LP-LVL 2900Fb-2.0E 1.750" X 16.000" 4-Ply - PASSED

Level: 2nd Flr



...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
8	Part. Uniform	13-0-0 to 17-0-0		Far Face	0 PLF	-27 PLF	0 PLF	0 PLF	0 PLF	
9	Point	18-0-0		Far Face	-30 lb	297 lb	0 lb	0 lb	0 lb	J2
10	Point	18-0-0		Far Face	0 lb	-318 lb	0 lb	0 lb	0 lb	J2
	Self Weight				32 PLF					

Notes

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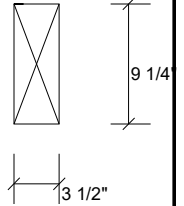
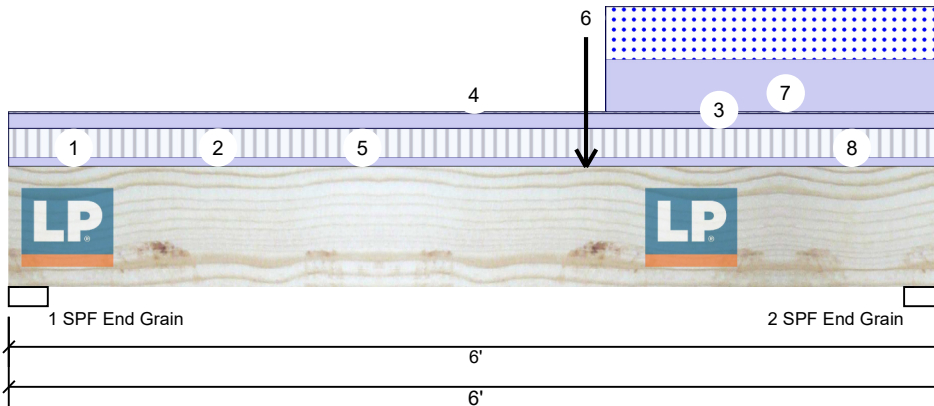
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U.S. LUMBER

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

Level: 2nd Flr



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	549 (-30)	983	493	0	0
2	549 (-30)	1728	1238	0	0

Bearings

Bearing	Length	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	19%	983 / 781	1764	L	D+0.75(L+S)
2 - SPF End Grain	3.000"	33%	1728 / 1340	3069	L	D+0.75(L+S)

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4148 ft-lb	3'8 1/2"	11647 ft-lb	0.356 (36%)	D+0.75(L+S)	L
Shear	2219 lb	5' 1/2"	10177 lb	0.218 (22%)	D+0.75(L+S)	L
LL Defl inch	0.033 (L/2043)	3'4 1/16"	0.188 (L/360)	0.180 (18%)	0.75(L+S)	L
TL Defl inch	0.076 (L/894)	3'4 3/16"	0.281 (L/240)	0.270 (27%)	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 = 0.042", Long Term = 0.064"
- 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	Tapered Start	0-0-0		Top	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	0-10-0		Top	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
2	Part. Uniform	0-0-0 to 6-0-0		Top	57 PLF	182 PLF	0 PLF	0 PLF	0 PLF	J2
3	Part. Uniform	0-0-0 to 6-0-0		Top	96 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
4	Part. Uniform	0-0-0 to 6-0-0		Top	0 PLF	-10 PLF	0 PLF	0 PLF	0 PLF	J2
5	Tapered Start	0-10-0		Top	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	4-10-0		Top	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
6	Point	3-8-8		Top	1005 lb	0 lb	1005 lb	0 lb	0 lb	Header Column

Continued on page 2...

Notes

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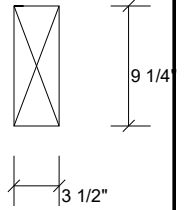
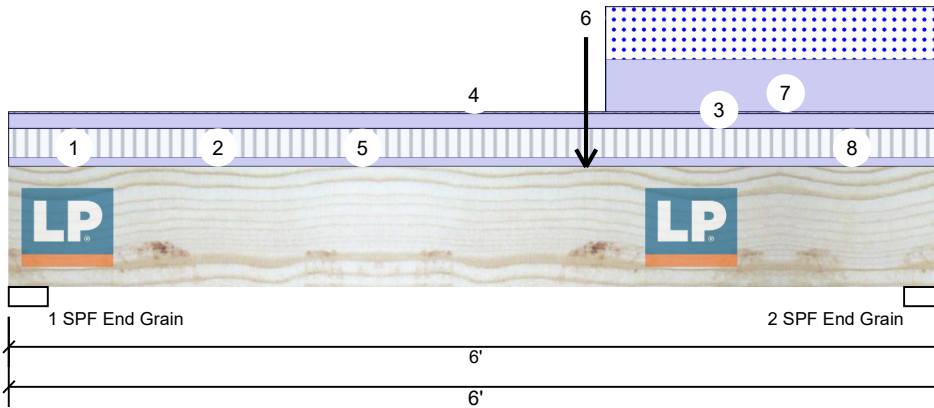
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This design is valid until
 10/31/2021

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

Level: 2nd Flr



...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								
7	Part. Uniform	3-10-0 to 6-0-0		Top	335 PLF	0 PLF	335 PLF	0 PLF	0 PLF	
8	Tapered Start	4-10-0		Top	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	6-0-0			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	Self Weight				10 PLF					

Notes

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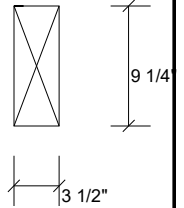
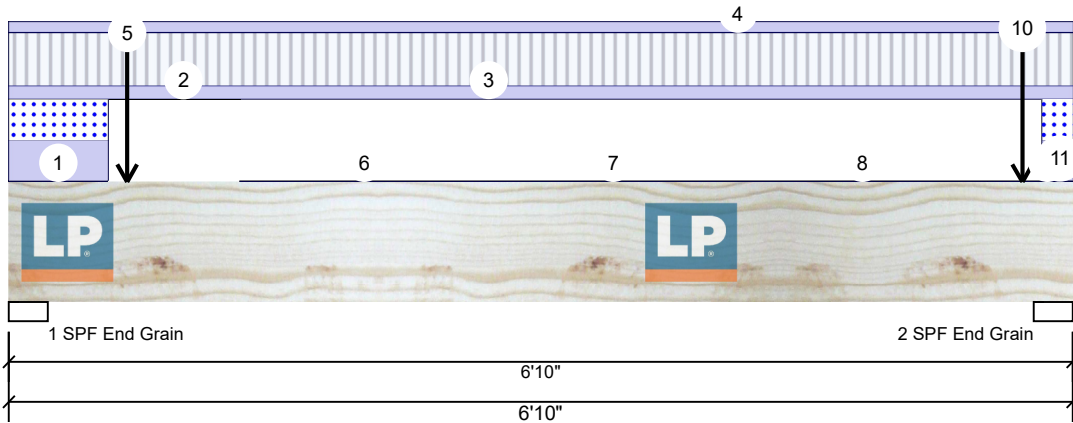
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U.S. LUMBER

HD4-A LP-LSL 1.55E 3.500" X 9.250" - PASSED

Level: 2nd Flr



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	1589	1990	1230	0	0
2	1589	1990	1230	0	0

Bearings

Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	45%	1990 / 2114	4104	L	D+0.75(L+S)
2 - SPF End Grain	3.000"	45%	1990 / 2114	4104	L	D+0.75(L+S)

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3989 ft-lb	3'3 5/8"	10127 ft-lb	0.394 (39%)	D+L	L
Shear	2414 lb	11 1/2"	8849 lb	0.273 (27%)	D+L	L
LL Defl inch	0.062 (L/1250)	3'5"	0.215 (L/360)	0.290 (29%)	L	L
TL Defl inch	0.104 (L/749)	3'4 1/2"	0.323 (L/240)	0.320 (32%)	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 = 0.042", Long Term = 0.062"
- 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 0-7-10		Top	360 PLF	0 PLF	360 PLF	0 PLF	0 PLF	
2	Tapered Start	0-0-0		Top	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	1-5-13			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
3	Part. Uniform	0-0-0 to 6-10-0		Top	116 PLF	464 PLF	0 PLF	0 PLF	0 PLF	
4	Part. Uniform	0-0-0 to 6-10-0		Top	96 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
5	Point	0-9-2		Top	1080 lb	0 lb	1080 lb	0 lb	0 lb	Header Column
	Bearing Length	0-3-8								
6	Tapered Start	1-5-13		Top	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	

Continued on page 2...

Notes

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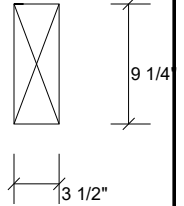
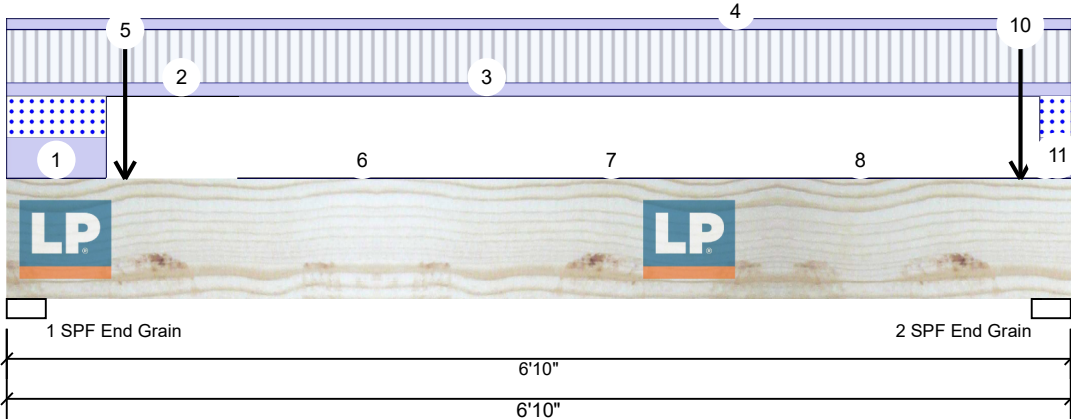


U.S. LUMBER

This design is valid until
 10/31/2021

HD4-A LP-LSL 1.55E 3.500" X 9.250" - PASSED

Level: 2nd Flr



...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
	End	3-1-0			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
7	Tapered Start	3-1-0		Top	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	4-8-3			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
8	Tapered Start	4-8-3		Top	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	6-3-6			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
9	Tapered Start	6-3-6		Top	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	6-10-0			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
10	Point	6-6-2		Top	1080 lb	0 lb	1080 lb	0 lb	0 lb	Header Column
	Bearing Length	0-3-8								
11	Part. Uniform	6-7-10 to 6-10-0		Top	360 PLF	0 PLF	360 PLF	0 PLF	0 PLF	
	Self Weight				10 PLF					

Notes

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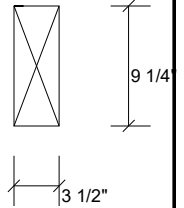
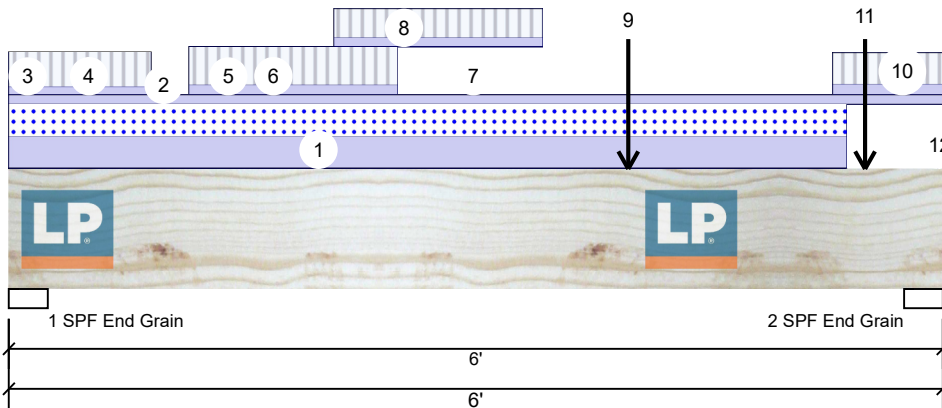
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U.S. LUMBER

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

Level: 2nd Flr



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	1271	1944	1134	0	0
2	1230	2854	1881	0	0

Bearings

Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	41%	1944 / 1804	3748	L	D+0.75(L+S)
2 - SPF End Grain	3.000"	56%	2854 / 2333	5188	L	D+0.75(L+S)

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4869 ft-lb	3'3 11/16"	10127 ft-lb	0.481 (48%)	D+L	L
Shear	3481 lb	5' 1/2"	10177 lb	0.342 (34%)	D+0.75(L+S)	L
LL Defl inch	0.054 (L/1257)	3' 11/16"	0.188 (L/360)	0.290 (29%)	0.75(L+S)	L
TL Defl inch	0.115 (L/589)	3'1"	0.281 (L/240)	0.410 (41%)	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 = 0.091"
- 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 5-4-8		Top	360 PLF	0 PLF	360 PLF	0 PLF	0 PLF	
2	Part. Uniform	0-0-0 to 6-0-0		Top	96 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	0-2-14			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
4	Part. Uniform	0-0-0 to 0-10-14		Top	96 PLF	384 PLF	0 PLF	0 PLF	0 PLF	J4
5	Tapered Start	0-2-14		Top	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	1-9-14			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
6	Part. Uniform	1-1-14 to 2-5-14		Top	113 PLF	426 PLF	0 PLF	0 PLF	0 PLF	J4

Continued on page 2...

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Manufacturer Info

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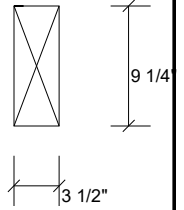
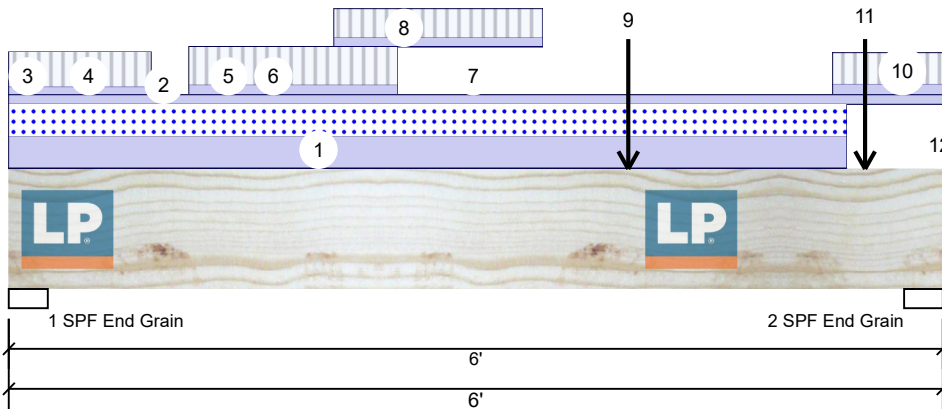
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HD2-B LP-LSL 1.55E 3.500" X 9.250" - PASSED

Level: 2nd Flr



...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	1-9-14		Top	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	5-11-8			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
8	Part. Uniform	2-1-2 to 3-5-2		Top	106 PLF	319 PLF	0 PLF	0 PLF	0 PLF	J4
9	Point	3-11-12		Top	681 lb	906 lb	0 lb	0 lb	0 lb	FB4 FB4
	Bearing Length	0-3-8								
10	Part. Uniform	5-3-8 to 6-0-0		Top	120 PLF	349 PLF	0 PLF	0 PLF	0 PLF	J5
11	Point	5-6-0		Top	1080 lb	0 lb	1080 lb	0 lb	0 lb	Header Column
	Bearing Length	0-3-8								
12	Tapered Start	5-11-8		Top	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	6-0-0			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	Self Weight				10 PLF					

Notes

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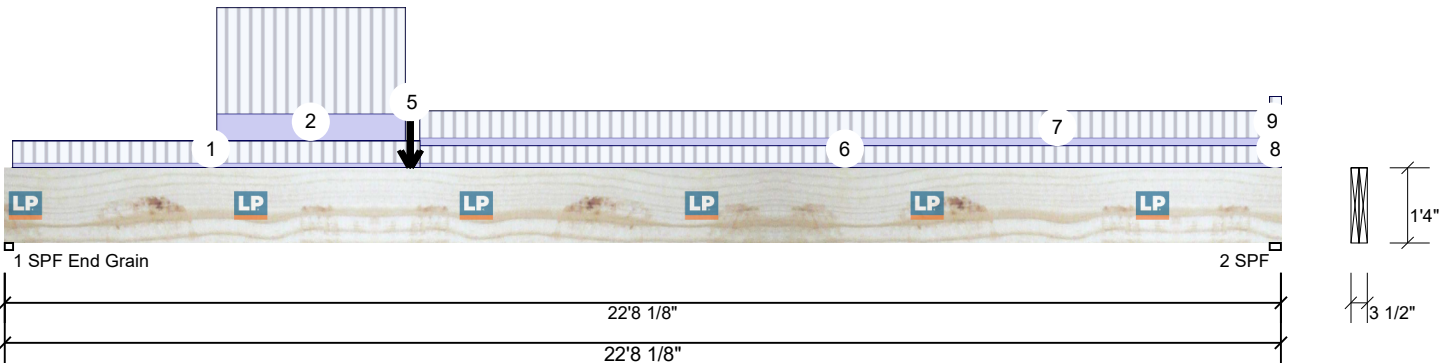
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U.S. LUMBER

FB4-A LP-LVL 2900Fb-2.0E 1.750" X 16.000" 2-Ply - PASSED

Level: 2nd Flr



Member Information

Type:	Girder
Plies:	2
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	1324	1036	0	0	0
2	906	681	0	0	0

Bearings

Bearing	Length	Cap. React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	1.750"	51% 1036 / 1324	2360	L	D+L
2 - SPF	2.375"	45% 681 / 906	1587	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	14732 ft-lb	7'2 1/8"	34636 ft-lb	0.425 (43%)	D+L	L
Shear	2299 lb	1'4 7/8"	10640 lb	0.216 (22%)	D+L	L
LL Defl inch	0.292 (L/924)	10'6 7/16"	0.749 (L/360)	0.390 (39%)	L	L
TL Defl inch	0.523 (L/515)	10'6"	1.124 (L/240)	0.470 (47%)	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 = 0.231", Long Term = 0.347"
- 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 10'1 1/8" 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	Tie-In	0-1-12 to 7-4-9	0-7-5	Top	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
2	Part. Uniform	3-9-4 to 7-1-4		Top	30 PLF	120 PLF	0 PLF	0 PLF	0 PLF	
3	Point	7-2-2		Near Face	886 lb	916 lb	0 lb	0 lb	0 lb	FB2
4	Point	7-2-13		Top	34 lb	0 lb	0 lb	0 lb	0 lb	Partition Wall Self Weight
5	Bearing Length	0-3-8								
	Point	7-2-13		Top	45 lb	0 lb	0 lb	0 lb	0 lb	Partition Wall Self Weight
	Bearing Length	0-3-8								

Continued on page 2...

Notes

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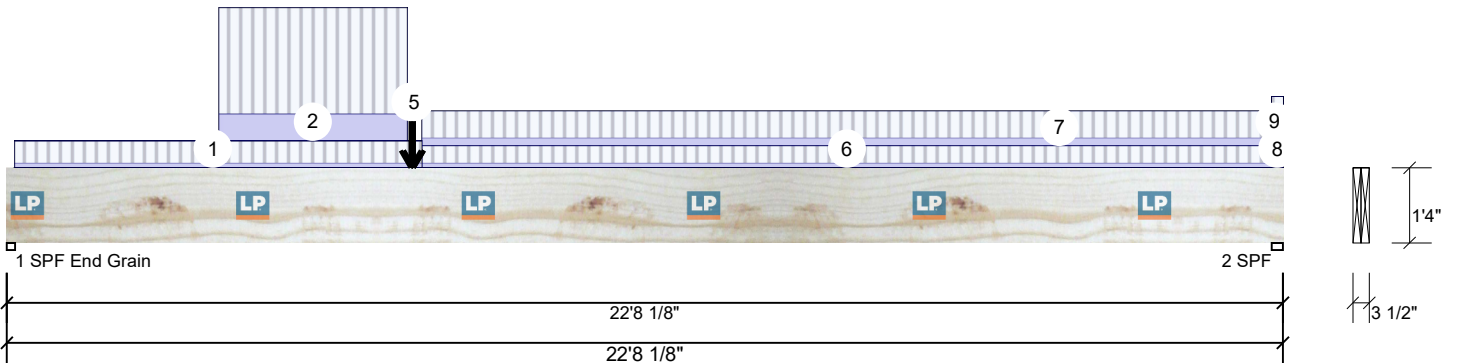
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FB4-A LP-LVL 2900Fb-2.0E 1.750" X 16.000" 2-Ply - PASSED

Level: 2nd Flr



...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	Tie-In	7-4-9 to 22-5-12	0-7-5	Top	10 PSF	30 PSF	0 PSF	0 PSF	0 PSF	
7	Tie-In	7-4-9 to 22-5-12	0-11-14	Top	10 PSF	30 PSF	0 PSF	0 PSF	0 PSF	
8	Tie-In	22-5-12 to 22-8-2	0-7-5	Top	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
9	Tie-In	22-5-12 to 22-8-2	0-11-14	Top	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
	Self Weight					16 PLF				

Notes

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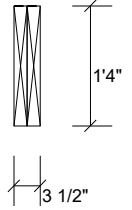
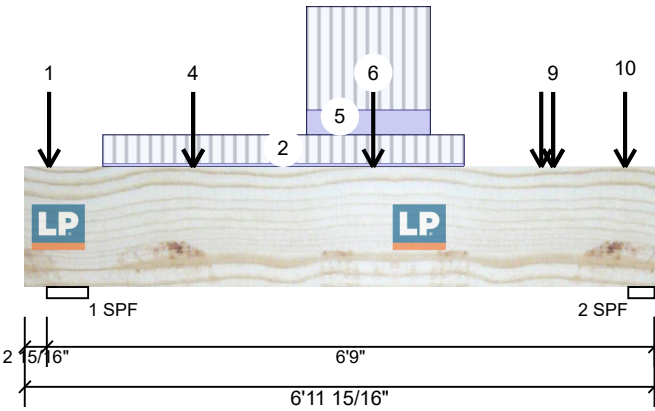
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U.S. LUMBER

FB3-A LP-LVL 2900Fb-2.0E 1.750" X 16.000" 2-Ply - PASSED

Level: 2nd Flr



Member Information

Type:	Girder
Plies:	2
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	1863 (-1)	315	0 (-180)	0	0
2	2257 (-3)	435	0 (-208)	0	0

Bearings

Bearing	Length	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	5.500"	27%	315 / 1863	2178	_L	D+L
2 - SPF	3.500"	52%	435 / 2257	2692	_L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3742 ft-lb	3'8 1/4"	34636 ft-lb	0.108 (11%)	D+L	_L
Shear	2829 lb	5'5 5/16"	10640 lb	0.266 (27%)	D+L	_L
LL Defl inch	0.016 (L/4693)	3'7 13/16"	0.210 (L/360)	0.080 (8%)	L	LL
TL Defl inch	0.019 (L/4046)	3'7 7/8"	0.315 (L/240)	0.060 (6%)	D+L	LL
LL Cant	-0.001 (2L/5024)	Lt Cant	0.200 (2L/360)	0.006 (1%)	L	LL
TL Cant	-0.001 (2L/4340)	Lt Cant	0.300 (2L/360)	0.005 (0%)	D+L	LL

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 = 0.003", Long Term = 0.004"
- 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 braced at bearings.
- 6 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	0-3-4		Far Face	43 lb	170 lb	0 lb	0 lb	0 lb	J4
2	Part. Uniform	0-10-7 to 4-10-7		Near Face	-27 PLF	199 PLF	0 PLF	0 PLF	0 PLF	
3	Point	1-10-7		Far Face	180 lb	720 lb	0 lb	0 lb	0 lb	J4
4	Point	1-10-7		Near Face	0 lb	0 lb	-134 lb	0 lb	0 lb	J1
5	Part. Uniform	3-1-9 to 4-5-15		Far Face	187 PLF	749 PLF	0 PLF	0 PLF	0 PLF	

Continued on page 2...

Notes

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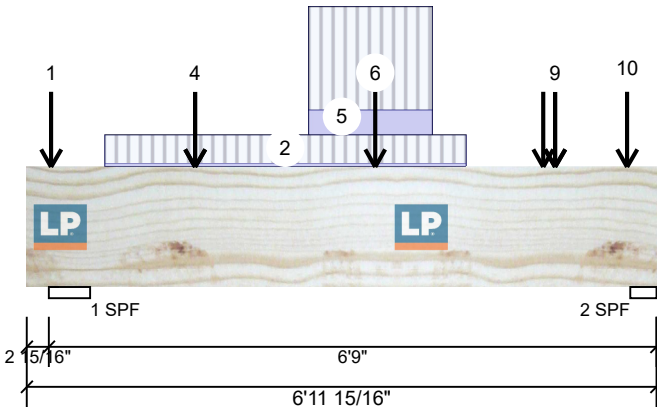
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FB3-A LP-LVL 2900Fb-2.0E 1.750" X 16.000" 2-Ply - PASSED

Level: 2nd Flr



...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	3-10-7		Near Face	0 lb	-2 lb	-123 lb	0 lb	0 lb	J1
7	Point	5-8-14		Far Face	161 lb	566 lb	0 lb	0 lb	0 lb	J4
8	Point	5-10-7		Near Face	-59 lb	391 lb	0 lb	0 lb	0 lb	J1
9	Point	5-10-7		Near Face	0 lb	-2 lb	-131 lb	0 lb	0 lb	J1
10	Point	6-8-1		Far Face	166 lb	453 lb	0 lb	0 lb	0 lb	J4
	Self Weight				16 PLF					

Notes

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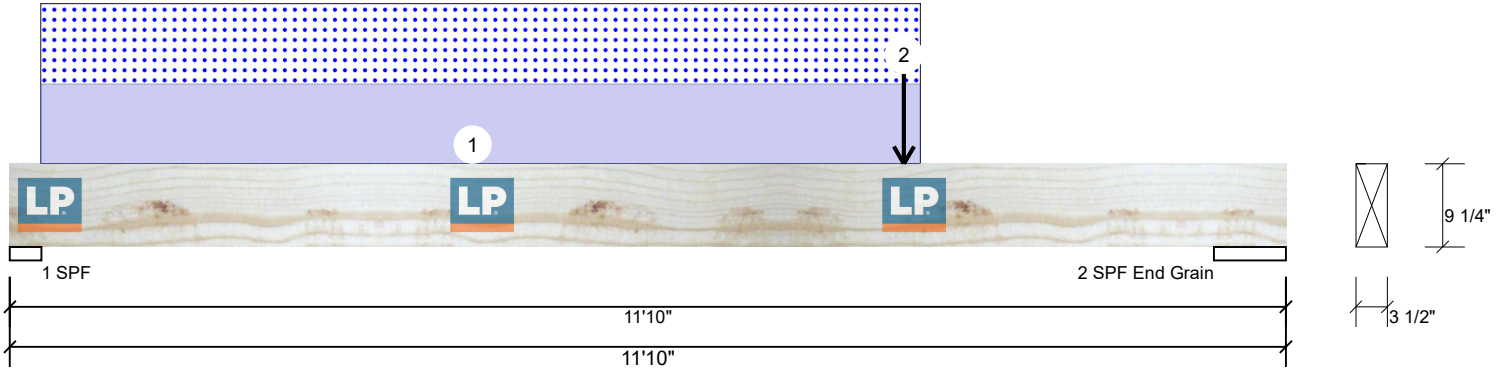
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U.S. LUMBER

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

Level: 2nd Flr



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	837	777	0	0
2	0	727	664	0	0

Bearings

Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	31%	837 / 777	1614	L	D+S
2 - SPF	8.000"	6%	727 / 664	1390	L	D+S
End Grain						

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4730 ft-lb	6' 7/16"	11647 ft-lb	0.406 (41%)	D+S	L
Shear	1413 lb	1'	10177 lb	0.139 (14%)	D+S	L
LL Defl inch	0.150 (L/883)	5'9 9/16"	0.367 (L/360)	0.410 (41%)	S	L
TL Defl inch	0.309 (L/427)	5'9 9/16"	0.550 (L/240)	0.560 (56%)	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 = 0.160", Long Term = 0.240"
- 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	0-3-8 to 8-5-3		Top	135 PLF	0 PLF	135 PLF	0 PLF	0 PLF	
2	Point	8-3-8		Top	342 lb	0 lb	342 lb	0 lb	0 lb	PL1
	Bearing Length	0-3-8								
	Self Weight				10 PLF					

Notes

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