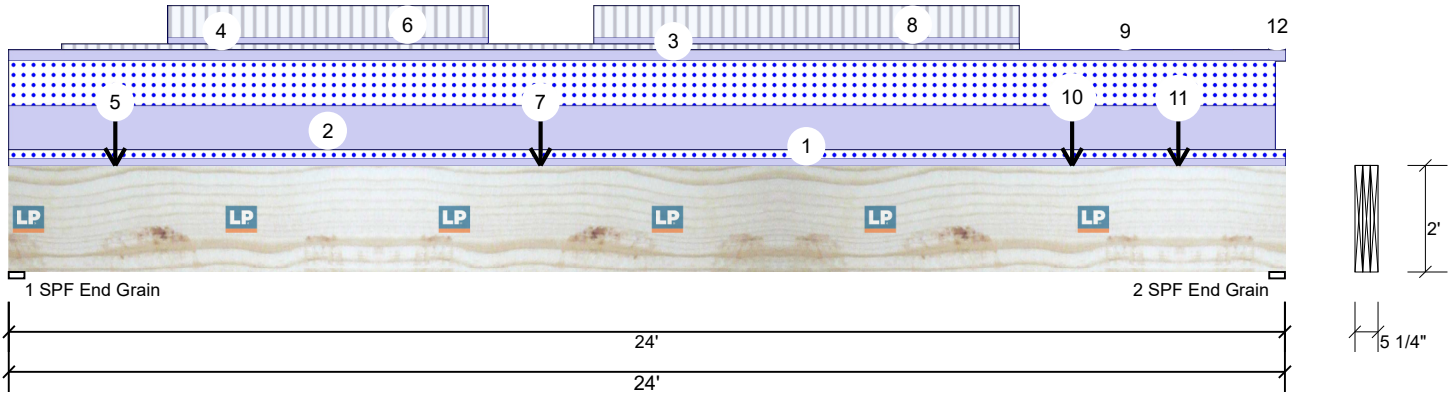


**FB1-A LP-LVL 2900Fb-2.0E 1.750" X 24.000" 3-Ply - PASSED**

Level: 2nd Flr



**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:	IBC/IRC 2015
Load Sharing:	Yes
Deck:	Not Checked

**Reactions PATTERNED lb (Uplift)**

Brg	Live	Dead	Snow	Wind	Const
1	2934 (-581)	7313	5316	0	0
2	2757 (-425)	7251	5242	0	0

**Bearings**

Bearing	Length	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	98%	7313 / 6188	13500	L	D+0.75(L+S)
2 - SPF End Grain	3.500"	96%	7251 / 5999	13250	L	D+0.75(L+S)

**Analysis Results**

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	79238 ft-lb	12' 1/8"	131939 ft-lb	0.601 (60%)	D+0.75(L+S)	L
Shear	11509 lb	2' 5/8"	27531 lb	0.418 (42%)	D+0.75(L+S)	L
LL Defl inch	0.337 (L/839)	11'11 13/16"	0.785 (L/360)	0.430 (43%)	0.75(L+S)	L
TL Defl inch	0.727 (L/389)	11'11 15/16"	1.178 (L/240)	0.620 (62%)	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 = 0.390", Long Term = 0.585"
- 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' 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 24-0-0		Top	66 PLF	0 PLF	66 PLF	0 PLF	0 PLF	
2	Part. Uniform	0-0-0 to 23-9-11		Top	377 PLF	0 PLF	377 PLF	0 PLF	0 PLF	
3	Part. Uniform	0-0-0 to 24-0-0		Top	86 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
4	Part. Uniform	1-0-0 to 19-0-0		Far Face	0 PLF	-55 PLF	0 PLF	0 PLF	0 PLF	
5	Point	2-0-0		Far Face	104 lb	534 lb	0 lb	0 lb	0 lb	J2
6	Part. Uniform	3-0-0 to 9-0-0		Far Face	53 PLF	270 PLF	0 PLF	0 PLF	0 PLF	
7	Point	10-0-0		Far Face	24 lb	540 lb	0 lb	0 lb	0 lb	J2

Continued on page 2...

**Notes**

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**Manufacturer Info**

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 www.lpcorp.com  
 APA: PR-L280, ICC-ES: ESR-2403,  
 LADBS: RR-25783, Florida: FL15228

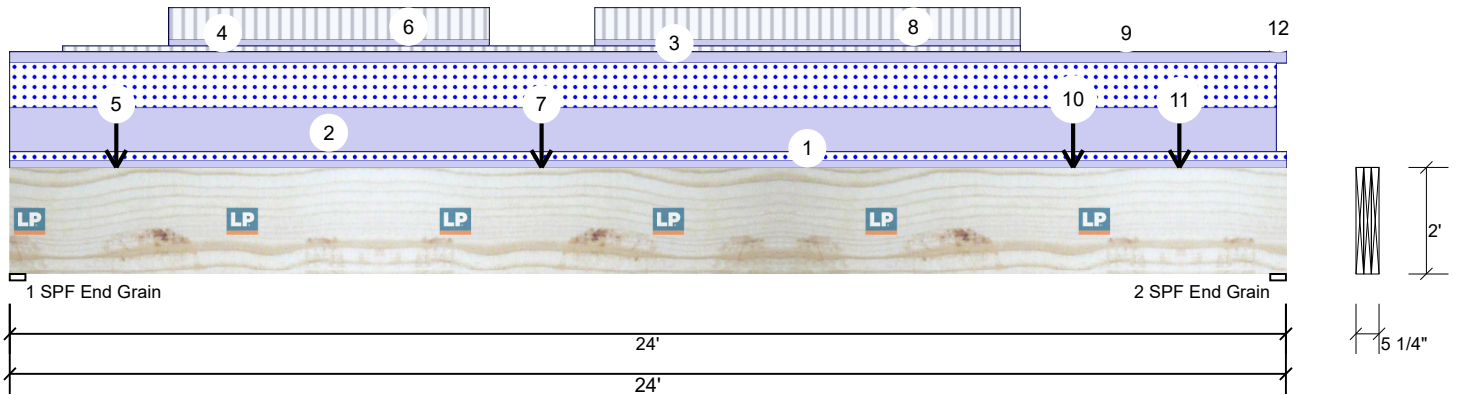
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This design is valid until 10/31/2021

**FB1-A LP-LVL 2900Fb-2.0E 1.750" X 24.000" 3-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	11-0-0 to 19-0-0		Far Face	53 PLF	270 PLF	0 PLF	0 PLF	0 PLF	
9	Part. Uniform	19-0-0 to 23-0-0		Far Face	0 PLF	-4 PLF	0 PLF	0 PLF	0 PLF	
10	Point	20-0-0		Far Face	102 lb	417 lb	0 lb	0 lb	0 lb	J7
11	Point	22-0-0		Far Face	99 lb	402 lb	0 lb	0 lb	0 lb	J7
12	Tie-In	23-8-8 to 24-0-0	1-6-7	Top	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
	Self Weight				36 PLF					

**Notes**

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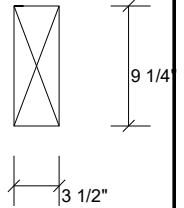
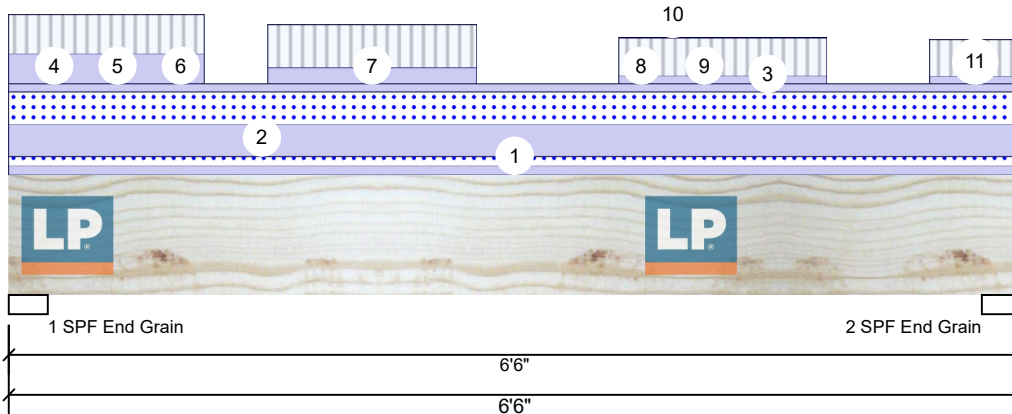
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This design is valid until  
 10/31/2021

# HD1-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:	IBC/IRC 2015
Load Sharing:	No
Deck:	Not Checked

## Reactions PATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	1146 (0)	2563	1576	0	0
2	943 (-1)	2216	1576	0	0

## Bearings

Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	50%	2563 / 2042	4605	L	D+0.75(L+S)
2 - SPF End Grain	3.000"	45%	2216 / 1890	4106	L	D+0.75(L+S)

## Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	6053 ft-lb	3' 15/16"	11647 ft-lb	0.520 (52%)	D+0.75(L+S)	L
Shear	3006 lb	11 1/2"	10177 lb	0.295 (30%)	D+0.75(L+S)	L
LL Defl inch	0.065 (L/1133)	3'2 9/16"	0.204 (L/360)	0.320 (32%)	0.75(L+S)	L
TL Defl inch	0.143 (L/515)	3'2 1/2"	0.306 (L/240)	0.470 (47%)	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 = 0.078", Long Term = 0.117"
- 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 6-6-0		Top	108 PLF	0 PLF	108 PLF	0 PLF	0 PLF	
2	Part. Uniform	0-0-0 to 6-6-0		Top	377 PLF	0 PLF	377 PLF	0 PLF	0 PLF	
3	Part. Uniform	0-0-0 to 6-6-0		Top	96 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
4	Tapered Start	0-0-0		Top	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	0-7-0		Top	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
5	Part. Uniform	0-0-0 to 1-3-0		Top	363 PLF	466 PLF	0 PLF	0 PLF	0 PLF	J3
6	Tapered Start	0-7-0		Top	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	2-4-0		Top	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	

Continued on page 2...

## Notes

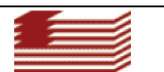
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## Manufacturer Info

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 APA: PR-L280, ICC-ES: ESR-2403,  
 LADBS: RR-25783, Florida: FL15228

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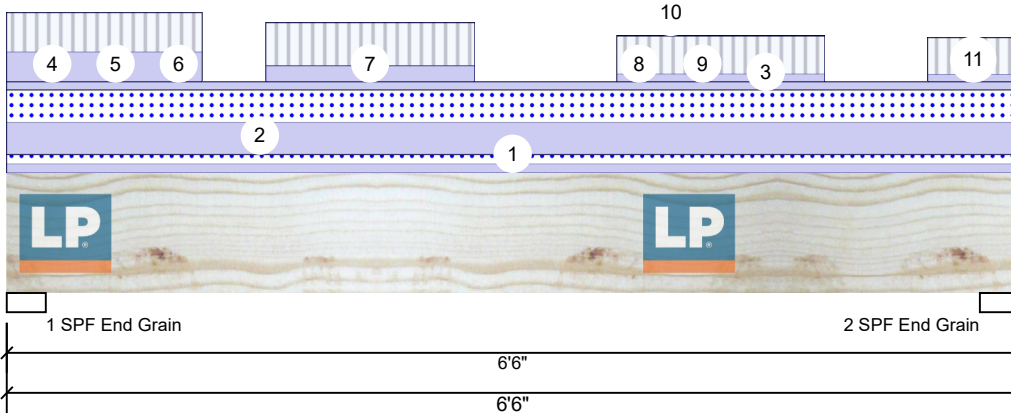


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**HD1-B LP-LSL 1.55E 3.500" X 9.250" - PASSED**

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	Part. Uniform	1-8-0 to 3-0-0		Top	206 PLF	497 PLF	0 PLF	0 PLF	0 PLF	J3
8	Tapered Start	2-4-0		Top	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	6-6-0			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
9	Part. Uniform	3-11-0 to 5-3-0		Top	110 PLF	444 PLF	0 PLF	0 PLF	0 PLF	J7
10	Part. Uniform	3-11-0 to 5-3-0		Top	0 PLF	-1 PLF	0 PLF	0 PLF	0 PLF	J7
11	Part. Uniform	5-11-0 to 6-6-0		Top	104 PLF	421 PLF	0 PLF	0 PLF	0 PLF	J7
	Self Weight				10 PLF					

**Notes**

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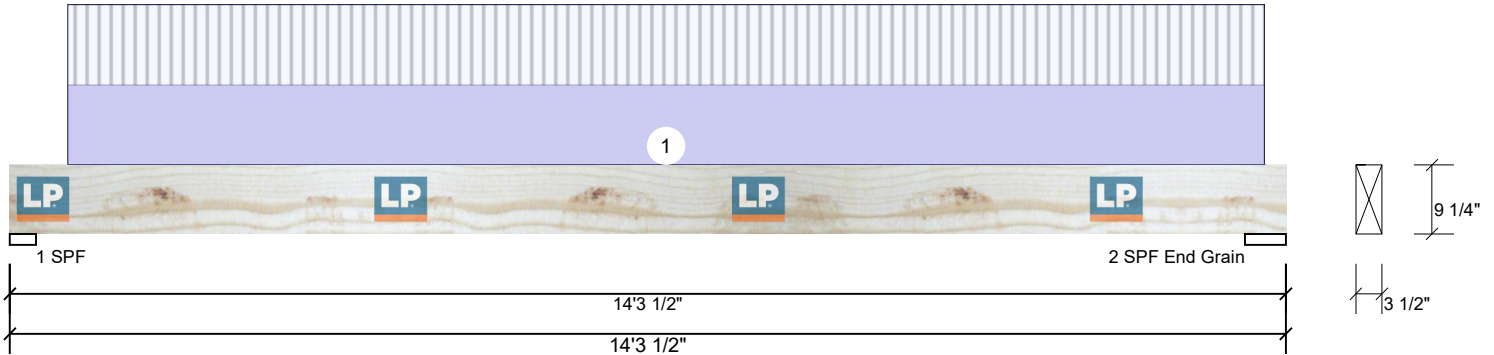


Client: 84 Lumber-Fayetteville #2307  
 Project: CL2862 GL CP  
 Address:

Date: 2/3/2020  
 Input by: Kyle Militzer  
 Job Name: CL2862 GL CP  
 Project #: CL2862 GL CP

**DB2-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:	IBC/IRC 2015
Load Sharing:	No
Deck:	Not Checked

**Reactions PATTERNED lb (Uplift)**

Brg	Live	Dead	Snow	Wind	Const
1	795	868	0	0	0
2	865	939	0	0	0

**Bearings**

Bearing	Length	Cap. React D/L lb	Total Ld. Case	Ld. Comb.
1 - SPF 3.500"	32%	868 / 795	1663 L	D+L
2 - SPF 5.500"	11%	939 / 865	1804 L	D+L
End Grain				

**Analysis Results**

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	6020 ft-lb	7' 13/16"	10127 ft-lb	0.594 (59%)	D+L	L
Shear	1568 lb	1'	8849 lb	0.177 (18%)	D+L	L
LL Defl inch	0.285 (L/576)	7' 13/16"	0.456 (L/360)	0.620 (62%)	L	L
TL Defl inch	0.593 (L/277)	7' 13/16"	0.683 (L/240)	0.870 (87%)	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 = 0.308", Long Term = 0.463"
- 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	0-7-14 to 14-0-8		Top	124 PLF	124 PLF	0 PLF	0 PLF	0 PLF	
	Self Weight				10 PLF					

**Notes**

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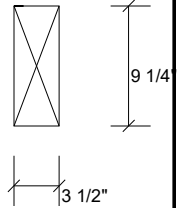
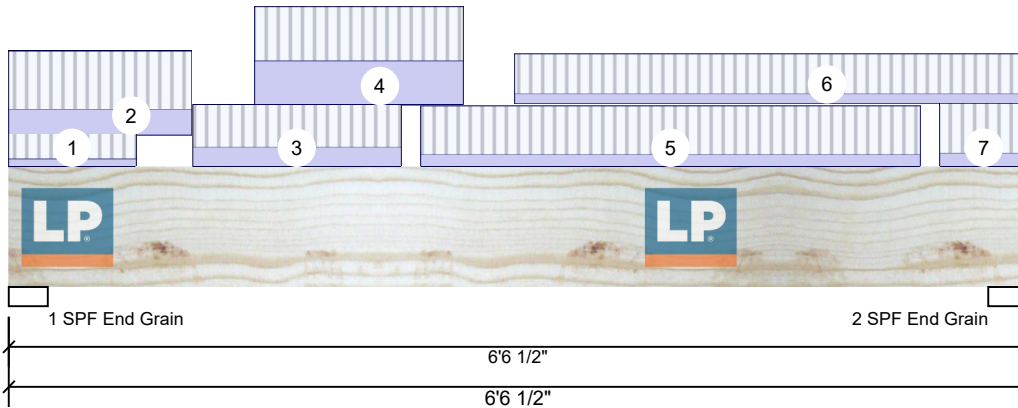
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This design is valid until 10/31/2021

# HD1-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:	IBC/IRC 2015
Load Sharing:	No
Deck:	Not Checked

## Reactions PATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	2163	970	0	0	0
2	2293	755	0	0	0

## Bearings

Bearing	Length	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	34%	970 / 2163	3133	L	D+L
2 - SPF End Grain	3.000"	33%	755 / 2293	3047	L	D+L

## Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4582 ft-lb	3'2"	10127 ft-lb	0.452 (45%)	D+L	L
Shear	2231 lb	11 1/2"	8849 lb	0.252 (25%)	D+L	L
LL Defl inch	0.078 (L/953)	3'3 9/16"	0.206 (L/360)	0.380 (38%)	L	L
TL Defl inch	0.109 (L/679)	3'2 15/16"	0.308 (L/240)	0.350 (35%)	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 = 0.031", Long Term = 0.047"
- 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 0-9-12		Top	67 PLF	204 PLF	0 PLF	0 PLF	0 PLF	J4
2	Part. Uniform	0-0-0 to 1-2-0		Top	207 PLF	494 PLF	0 PLF	0 PLF	0 PLF	J3
3	Part. Uniform	1-2-3 to 2-6-3		Top	161 PLF	360 PLF	0 PLF	0 PLF	0 PLF	J5
4	Part. Uniform	1-7-0 to 2-11-0		Top	367 PLF	463 PLF	0 PLF	0 PLF	0 PLF	J3
5	Part. Uniform	2-7-13 to 5-10-3		Top	101 PLF	405 PLF	0 PLF	0 PLF	0 PLF	J5
6	Part. Uniform	3-3-0 to 6-6-8		Top	82 PLF	330 PLF	0 PLF	0 PLF	0 PLF	
7	Part. Uniform	5-11-13 to 6-6-8		Top	114 PLF	420 PLF	0 PLF	0 PLF	0 PLF	J5
	Self Weight				10 PLF					

## Notes

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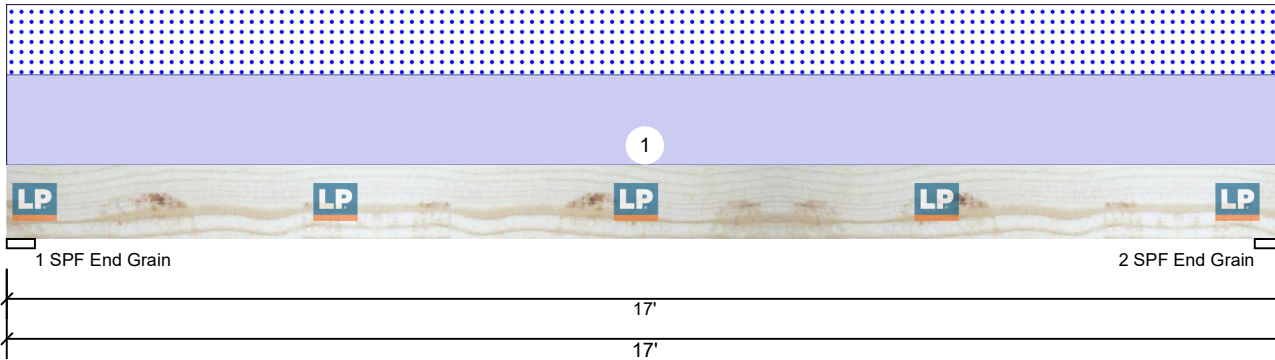


Client: 84 Lumber-Fayetteville #2307  
 Project: CL2862 GL CP  
 Address:

Date: 3/25/2020  
 Input by: Kyle Militzer  
 Job Name: CL2862 GL CP  
 Project #: CL2862 GL CP

# HD2-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:	IBC/IRC 2015
Load Sharing:	No
Deck:	Not Checked

## Reactions PATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	0	1056	731	0	0
2	0	1056	731	0	0

## Bearings

Bearing	Length	Cap.	React D/L	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	4.500"	13%	1056 / 731	1787	L	D+S
2 - SPF End Grain	4.500"	13%	1056 / 731	1787	L	D+S

## Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	7048 ft-lb	8'6"	18628 ft-lb	0.378 (38%)	D+S	L
Shear	1514 lb	1'3 5/8"	13064 lb	0.116 (12%)	D+S	L
LL Defl inch	0.194 (L/1012)	8'6 1/16"	0.546 (L/360)	0.360 (36%)	S	L
TL Defl inch	0.475 (L/414)	8'6 1/16"	0.819 (L/240)	0.580 (58%)	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 = 0.280", Long Term = 0.421"
- 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	111 PLF 13 PLF	0 PLF	86 PLF	0 PLF	0 PLF	

## Notes

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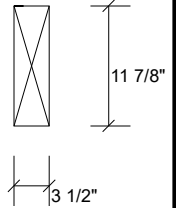
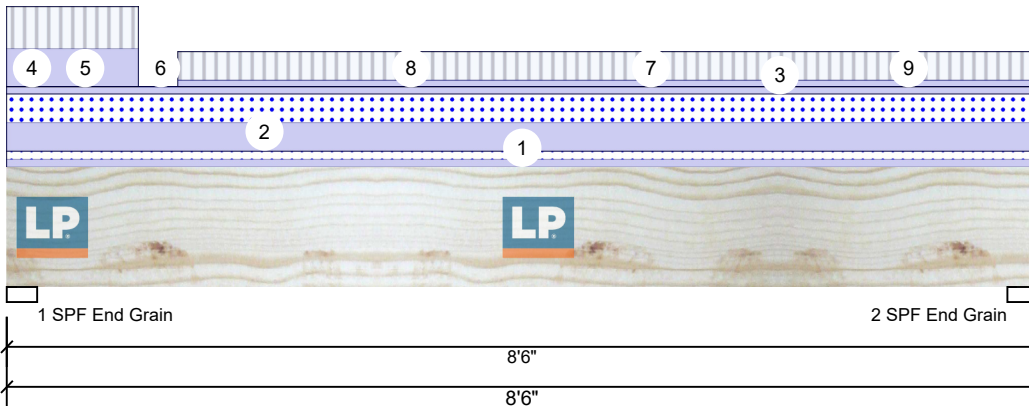
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This design is valid until  
 10/31/2021

# HD4-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:	IBC/IRC 2015
Load Sharing:	No
Deck:	Not Checked

## Reactions PATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	1663	3334	2061	0	0
2	1570	2938	2061	0	0

## Bearings

Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	67%	3334 / 2793	6128	L	D+0.75(L+S)
2 - SPF End Grain	3.000"	62%	2938 / 2723	5661	L	D+0.75(L+S)

## Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	11017 ft-lb	4'2 7/8"	18628 ft-lb	0.591 (59%)	D+0.75(L+S)	L
Shear	4097 lb	7'3 7/8"	13064 lb	0.314 (31%)	D+0.75(L+S)	L
LL Defl inch	0.102 (L/959)	4'3 1/16"	0.271 (L/360)	0.380 (38%)	0.75(L+S)	L
TL Defl inch	0.212 (L/459)	4'2 15/16"	0.406 (L/240)	0.520 (52%)	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 = 0.111", Long Term = 0.166"
- 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 8-6-0		Top	108 PLF	0 PLF	108 PLF	0 PLF	0 PLF	
2	Part. Uniform	0-0-0 to 8-6-0		Top	377 PLF	0 PLF	377 PLF	0 PLF	0 PLF	
3	Part. Uniform	0-0-0 to 8-6-0		Top	96 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
4	Tapered Start	0-0-0		Top	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	0-5-0			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
5	Part. Uniform	0-0-0 to 1-1-0		Top	519 PLF	557 PLF	0 PLF	0 PLF	0 PLF	J10
6	Tapered Start	0-5-0		Top	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	2-5-0			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	

Continued on page 2...

## 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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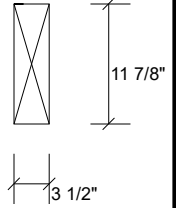
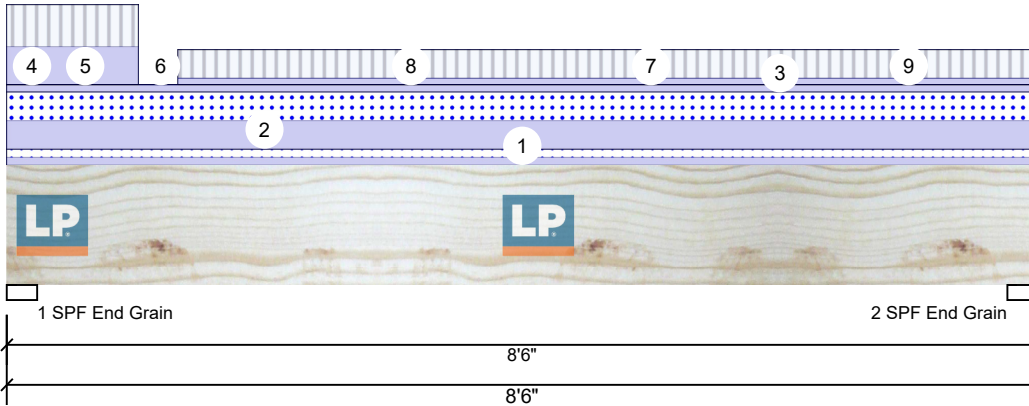
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This design is valid until  
 10/31/2021



# HD4-A LP-LSL 1.55E 3.500" X 11.875" - 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	Part. Uniform	1-5-0 to 8-6-0		Top	93 PLF	370 PLF	0 PLF	0 PLF	0 PLF	J9
8	Tapered Start	2-5-0		Top	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	4-5-0			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
9	Tapered Start	4-5-0		Top	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	8-6-0			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	Self Weight				13 PLF					

**Notes**

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 10/31/2021