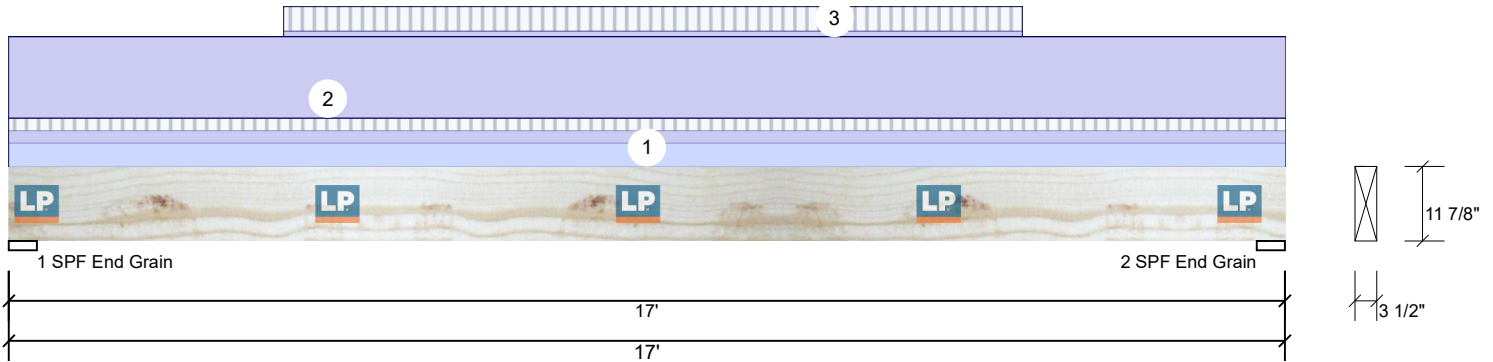


# HD5-A LP-LSL 1.55E 3.500" X 11.875" - PASSED

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	365	1454	0	0	340
2	369	1455	0	0	340

### Bearings

Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	4.500"	14%	1454 / 528	1982	Uniform	D+0.75(L+C)
2 - SPF End Grain	4.500"	14%	1455 / 532	1986	Uniform	D+0.75(L+C)

### Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	7618 ft-lb	8'6 1/16"	16198 ft-lb	0.470 (47%)	D+L	L
Shear	1582 lb	15'8 3/8"	11360 lb	0.139 (14%)	D+L	L
LL Defl inch	0.157 (L/1254)	8'6 1/16"	0.546 (L/360)	0.290 (29%)	0.75(L+C)	Uniform
TL Defl inch	0.548 (L/359)	8'6 1/16"	0.819 (L/240)	0.670 (67%)	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 = 0.391", Long Term = 0.587"
- 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 17-0-0		Top	20 PLF	20 PLF	0 PLF	0 PLF	40 PLF	
2	Part. Uniform	0-0-0 to 17-0-0		Top	132 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
3	Part. Uniform	3-8-0 to 13-6-0		Top	10 PLF	40 PLF	0 PLF	0 PLF	0 PLF	
	Self Weight				13 PLF					

### Notes

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### Manufacturer Info

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 APA: PR-L280, ICC-ES: ESR-2403,  
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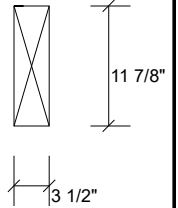
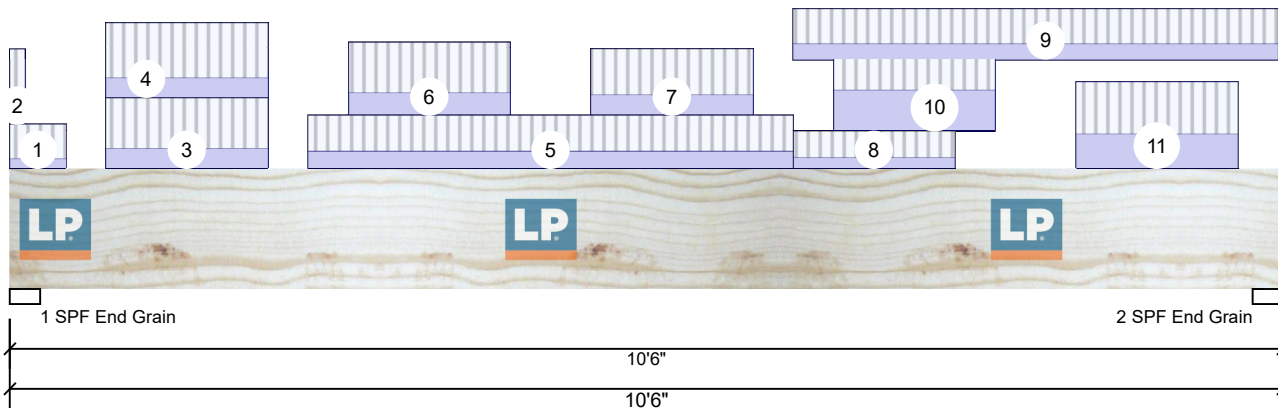
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This design is valid until  
 10/31/2021

# 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:	IRC 2012
Load Sharing:	No
Deck:	Not Checked

## Reactions PATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	3563	1674	0	0	0
2	3629	2061	0	0	0

## Bearings

Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	57%	1674 / 3563	5237	L	D+L
2 - SPF End Grain	3.000"	62%	2061 / 3629	5690	L	D+L

## Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	13706 ft-lb	5'5"	16198 ft-lb	0.846 (85%)	D+L	L
Shear	4416 lb	9'3 7/8"	11360 lb	0.389 (39%)	D+L	L
LL Defl inch	0.251 (L/485)	5'3 3/16"	0.338 (L/360)	0.740 (74%)	L	L
TL Defl inch	0.383 (L/317)	5'3 9/16"	0.506 (L/240)	0.760 (76%)	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 = 0.133", Long Term = 0.199"
- 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 0-5-8		Top	100 PLF	337 PLF	0 PLF	0 PLF	0 PLF	J8
2	Part. Uniform	0-0-0 to 0-1-8		Top	179 PLF	573 PLF	0 PLF	0 PLF	0 PLF	J3
3	Part. Uniform	0-9-8 to 2-1-8		Top	197 PLF	506 PLF	0 PLF	0 PLF	0 PLF	J8
4	Part. Uniform	0-9-8 to 2-1-8		Top	201 PLF	542 PLF	0 PLF	0 PLF	0 PLF	J3
5	Part. Uniform	2-5-8 to 6-5-8		Top	171 PLF	355 PLF	0 PLF	0 PLF	0 PLF	J3
6	Part. Uniform	2-9-8 to 4-1-8		Top	221 PLF	506 PLF	0 PLF	0 PLF	0 PLF	J8
7	Part. Uniform	4-9-8 to 6-1-8		Top	202 PLF	464 PLF	0 PLF	0 PLF	0 PLF	J8
8	Part. Uniform	6-5-8 to 7-9-8		Top	110 PLF	261 PLF	0 PLF	0 PLF	0 PLF	J8

Continued on page 2...

## Notes

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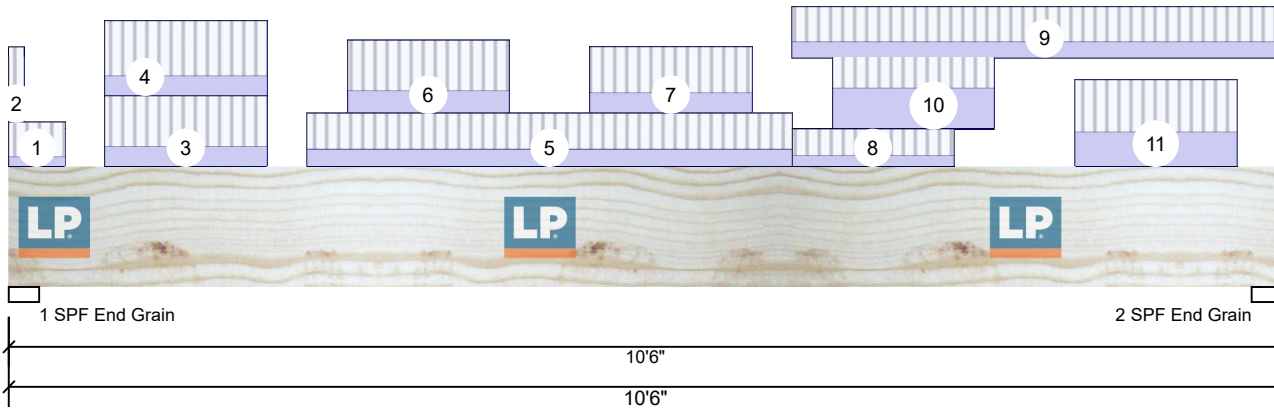


U.S. LUMBER

This design is valid until  
 10/31/2021

# HD4-A LP-LSL 1.55E 3.500" X 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
9	Part. Uniform	6-5-8 to 10-5-8		Top	153 PLF	352 PLF	0 PLF	0 PLF	0 PLF	J3
10	Part. Uniform	6-9-8 to 8-1-8		Top	405 PLF	308 PLF	0 PLF	0 PLF	0 PLF	J8
11	Part. Uniform	8-9-8 to 10-1-8		Top	338 PLF	516 PLF	0 PLF	0 PLF	0 PLF	J8
	Self Weight				13 PLF					

**Notes**

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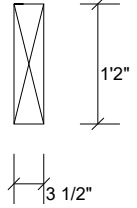
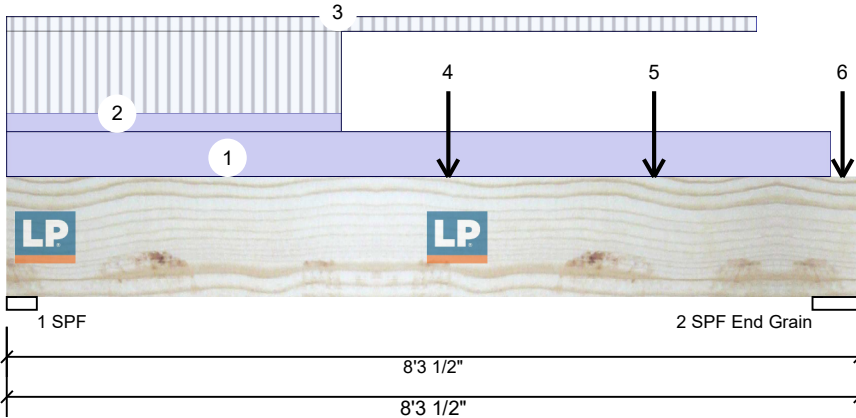
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**U.S. LUMBER**

# FB4-B LP-LSL 1.55E 3.500" X 14.000" - 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	555 (-105)	523	0	0	0
2	397 (-84)	500	23	0	0

## Bearings

Bearing	Length	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	21%	523 / 555	1078	L	D+L
2 - SPF	5.500"	5%	500 / 397	896	L	D+L
End Grain						

## Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1912 ft-lb	4'3 1/2"	22073 ft-lb	0.087 (9%)	D+L	L
Shear	962 lb	6'8 3/4"	13393 lb	0.072 (7%)	D+L	L
LL Defl inch	0.011 (L/8401)	4'2 1/2"	0.256 (L/360)	0.040 (4%)	L	L
TL Defl inch	0.022 (L/4237)	4'1 3/4"	0.383 (L/240)	0.060 (6%)	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 = 0.011", Long Term = 0.016"
- 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 8-0-0		Top	80 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
2	Part. Uniform	0-0-0 to 3-3-0		Near Face	36 PLF	148 PLF	0 PLF	0 PLF	0 PLF	
3	Part. Uniform	0-0-0 to 7-3-5		Near Face	0 PLF	-26 PLF	0 PLF	0 PLF	0 PLF	
4	Point	4-3-8		Near Face	59 lb	244 lb	0 lb	0 lb	0 lb	J4
5	Point	6-3-8		Near Face	54 lb	227 lb	0 lb	0 lb	0 lb	J4
6	Point	8-1-8		Top	23 lb	0 lb	23 lb	0 lb	0 lb	
	Bearing Length	0-3-8								
	Self Weight				16 PLF					

## Notes

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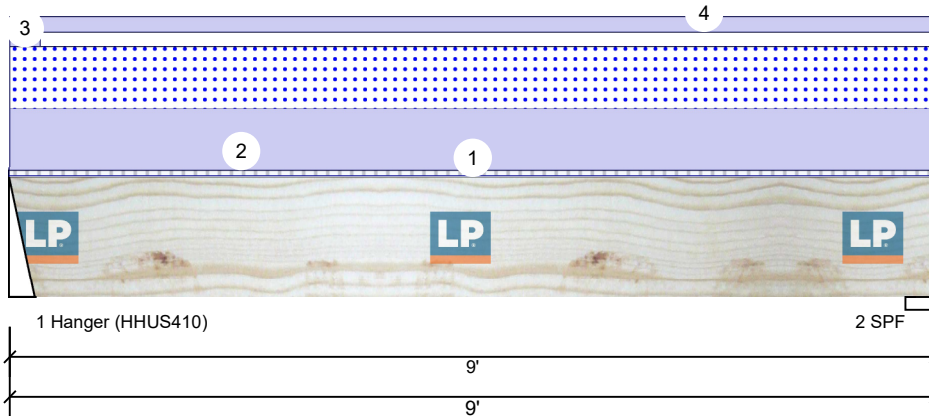


U.S. LUMBER

This design is valid until  
 10/31/2021

# FB4-A LP-LSL 1.55E 3.500" X 14.000" - 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	116	1924	1433	0	0
2	117	1918	1447	0	0

### Bearings

Bearing	Length	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - Hanger	3.000"	37%	1924 / 1433	3357	L	D+S
2 - SPF	3.500"	65%	1918 / 1447	3365	L	D+S

### Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	6855 ft-lb	4'5 3/4"	25384 ft-lb	0.270 (27%)	D+S	L
Shear	2326 lb	7'7 1/4"	15402 lb	0.151 (15%)	D+S	L
LL Defl inch	0.040 (L/2547)	4'5 3/4"	0.286 (L/360)	0.140 (14%)	S	L
TL Defl inch	0.094 (L/1095)	4'5 3/4"	0.429 (L/240)	0.220 (22%)	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 = 0.054", Long Term = 0.080"
- 3 Fill all hanger nailing holes.
- 4 Girders are designed to be supported on the bottom edge only.
- 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	Tie-In	0-0-0 to 9-0-0	0-10-6	Top	10 PSF	30 PSF	0 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-0-0 to 9-0-0		Top	320 PLF	0 PLF	320 PLF	0 PLF	0 PLF	
3	Part. Uniform	0-0-0 to 0-3-8		Top	80 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
4	Part. Uniform	0-0-0 to 9-0-0		Top	80 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
	Self Weight				16 PLF					

### Notes

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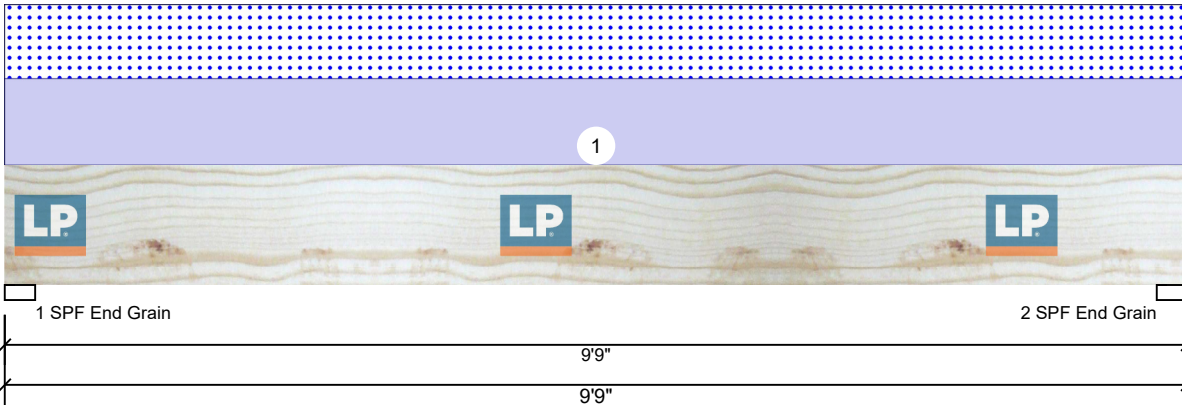
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This design is valid until  
 10/31/2021

# HD3-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	1264	1024	0	0
2	0	1264	1024	0	0

### Bearings

Bearing	Length	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	25%	1264 / 1024	2288	L	D+S
2 - SPF End Grain	3.000"	25%	1264 / 1024	2288	L	D+S

### Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	5156 ft-lb	4'10 1/2"	18628 ft-lb	0.277 (28%)	D+S	L
Shear	1735 lb	1'2 1/8"	13064 lb	0.133 (13%)	D+S	L
LL Defl inch	0.056 (L/1992)	4'10 1/2"	0.312 (L/360)	0.180 (18%)	S	L
TL Defl inch	0.126 (L/892)	4'10 1/2"	0.469 (L/240)	0.270 (27%)	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 = 0.070", Long Term = 0.105"
- 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 9-9-0		Top	246 PLF 13 PLF	0 PLF	210 PLF	0 PLF	0 PLF	

### Notes

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