

Project: Address:

Watermark Homes

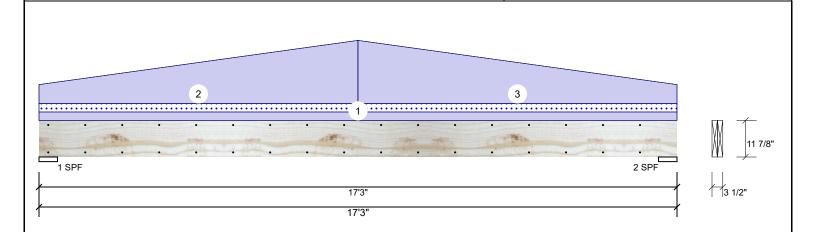
Lot 22 Oak Haven

Date: 3/2/2022

Input by: Hampton Horrocks Job Name: Lot 22 Oak Haven Project #: J0322-1120

2-Ply - PASSED **Kerto-S LVL** 1.750" X 11.875" GDH1

Level: Level



Member Information Reactions UNPATTERNED Ib (Uplift) Wind Type: Application: Floor Brg Direction Live Dead Snow Const Plies: 2 Design Method: ASD 0 1093 0 Vertical 173 0 1 Moisture Condition: Dry **Building Code: IBC/IRC 2015** 2 Vertical 0 1093 173 0 0 Deflection LL: 480 Load Sharing: No Deflection TL: 360 Deck: Not Checked Importance: Normal - II Temp <= 100°F Temperature: **Bearings** Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. D+S 1-SPF 6.000" Vert 14% 1093 / 173 1266 L

2 - SPF 6.000"

Vert

14%

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4894 ft-lb	8'7 1/2"	17919 ft-lb	0.273 (27%)	D	Uniform
Unbraced	5564 ft-lb	8'7 1/2"	6086 ft-lb	0.914 (91%)	D+S	L
Shear	978 lb	15'9 1/8"	7980 lb	0.123 (12%)	D	Uniform
LL Defl inch	0.035 (L/5617)	8'7 9/16"	0.409 (L/480)	0.085 (9%)	S	L
TL Defl inch	0.286 (L/687)	8'7 9/16"	0.546 (L/360)	0.524 (52%)	D+S	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at end bearings.
- 7 Bottom must be laterally braced at end bearings.

8 Lateral	slenderness ratio based on s	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			Тор	20 PLF	0 PLF	20 PLF	0 PLF	0 PLF	roof
2	Tapered Start	0-0-0		Тор	45 PLF	0 PLF	0 PLF	0 PLF	0 PLF	wall
	End	8-7-8			150 PLF	0 PLF	0 PLF	0 PLF	0 PLF	
3	Tapered Start	8-7-8		Тор	150 PLF	0 PLF	0 PLF	0 PLF	0 PLF	wall
	End	17-3-0			45 PLF	0 PLF	0 PLF	0 PLF	0 PLF	
	Self Weight				9 PLF					

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
- LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code
- Damaged Beams must not be used
- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 3/30/2024

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us ICC-ES: ESR-3633

Manufacturer Info

1093 / 173

1266 L

D+S

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Project: Address: Watermark Homes

Lot 22 Oak Haven

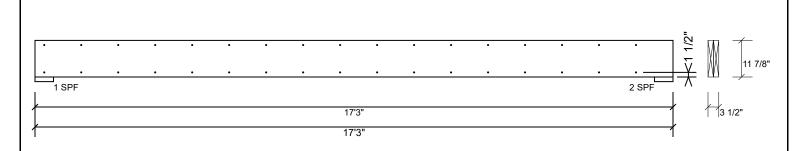
3/2/2022

Input by: Hampton Horrocks Page 2 of 8

Job Name: Lot 22 Oak Haven Project #: J0322-1120

Kerto-S LVL 2-Ply - PASSED 1.750" X 11.875" GDH1

Level: Level



Multi-Ply Analysis

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

1 3		•	,
Capacity	0.0 %		
Load	0.0 PLF		
Yield Limit per Foot	163.7 PLF		
Yield Limit per Fastener	81.9 lb.		
Yield Mode	IV		
Edge Distance	1 1/2"		
Min. End Distance	3"		
Load Combination			
Duration Factor	1.00		

Notes

NOtes
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Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

- Handling & Installation

 1. UVI beams must not be cut or drilled

 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

 3. Damaged Beams must not be used

 4. Design assumes top edge is laterally restrained

 5. Provide lateral support at bearing points to avoid lateral displacement and rotation
- This design is valid until 3/30/2024

For flat roofs provide proper drainage to prevent ponding

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Watermark Homes

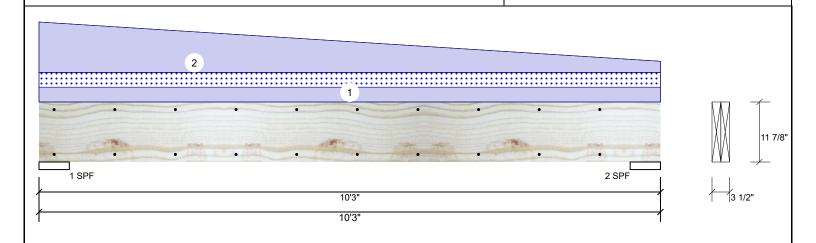
Project:

Address: Lot 22 Oak Haven Date: 3/2/2022

Input by: Hampton Horrocks Job Name: Lot 22 Oak Haven Project #: J0322-1120

Kerto-S LVL 2-Ply - PASSED GDH₂ 1.750" X 11.875"

Level: Level



Member Inform	mation	Reactions UNPATTERNED lb (Uplift)									
Type:	Girder	Application:	Floor	Brg	Direction	Live		Dead	Snow	Wind	Const
Plies:	2	Design Method:	ASD	1	Vertical	0		411	103	0	0
Moisture Condition	: Dry	Building Code:	IBC/IRC 2015	2	Vertical	0		314	103	0	0
Deflection LL:	480	Load Sharing:	No								
Deflection TL:	360	Deck:	Not Checked								
Importance:	Normal - II										
Temperature:	Temp <= 100°F										
				Bear	rings						
				Bea	aring Length	Dir.	Cap. I	React D/L lb	Total	Ld. Case	Ld. Comb.
				1 -	SPF 6.000"	Vert	6%	411 / 103	514	L	D+S
				2 -	SPF 6.000"	Vert	5%	314 / 103	416	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	999 ft-lb	4'11"	22897 ft-lb	0.044 (4%)	D+S	L
Unbraced	999 ft-lb	4'11"	9857 ft-lb	0.101 (10%)	D+S	L
Shear	282 lb	1'5 7/8"	7980 lb	0.035 (4%)	D	Uniform
LL Defl inch	0.004 (L/26994)	5'1 1/2"	0.234 (L/480)	0.018 (2%)	S	L
TL Defl inch	0.019 (L/5948)	5' 11/16"	0.312 (L/360)	0.061 (6%)	D+S	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at end bearings.
- 7 Bottom must be laterally braced at end bearings.
- 8 Lateral slenderness ratio based on single ply width.

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ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Тор	20 PLF	0 PLF	20 PLF	0 PLF	0 PLF	roof
2	Tapered Start	0-0-0		Тор	68 PLF	0 PLF	0 PLF	0 PLF	0 PLF	wall
	End	10-3-0			15 PLF	0 PLF	0 PLF	0 PLF	0 PLF	
	Self Weight				9 PLF					

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- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
- LVL beams must not be cut or drilled
 Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

 2 Damaged Beams must not be used

- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation
- 6. For flat roofs provide proper drainage to prevent ponding

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Manufacturer Info

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Watermark Homes

Project:

Address: Lot 22 Oak Haven Date: 3/2/2022

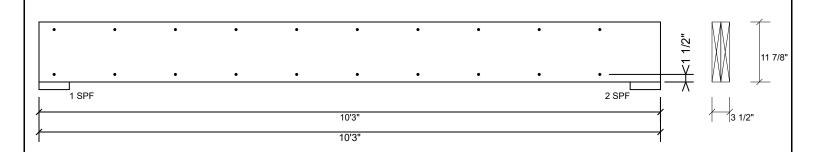
Input by: Hampton Horrocks Job Name: Lot 22 Oak Haven

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Project #: J0322-1120

Kerto-S LVL 2-Ply - PASSED GDH₂ 1.750" X 11.875"

Level: Level



Multi-Ply Analysis

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

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	163.7 PLF
Yield Limit per Fastener	81.9 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

NOtes
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 LVL not to be treated with fire retardant or corrosive

Handling & Installation

- L. UVL beams must not be cut or drilled
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For flat roofs provide proper drainage to prevent ponding

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Manufacturer Info

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BM₁

Client:

Watermark Homes

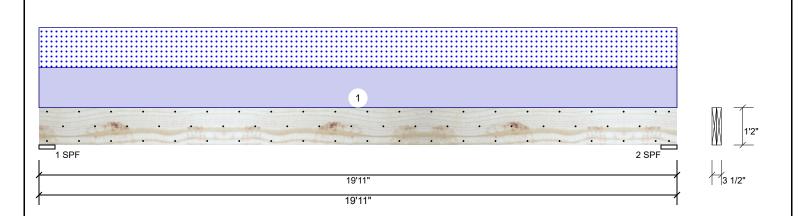
Project:

Address: Lot 22 Oak Haven Date: 3/2/2022

Input by: Hampton Horrocks Job Name: Lot 22 Oak Haven Project #: J0322-1120

Kerto-S LVL 1.750" X 14.000" 2-Ply - PASSED

Level: Level



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Type: Girder Plies: 2 Moisture Condition: Dry Deflection LL: 480 Deflection TL: 360 Importance: Normal - II

Application: Floor Design Method: ASD

> Load Sharing: No

Deck:

Building Code:

Not Checked

IBC/IRC 2015

Reactions UNPATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	1104	996	0	0
2	Vertical	0	1104	996	0	0

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Bearings

Bearing	Length	Dir.	Cap. R	eact D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	6.000"	Vert	24%	1104 / 996	2100	L	D+S
2 SDE	6 000"	Vert	24%	1104 / 006	2100	1	D+S

Analysis Results

Temperature:

•						
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	9558 ft-lb	9'11 1/2"	31049 ft-lb	0.308 (31%)	D+S	L
Unbraced	9558 ft-lb	9'11 1/2"	9561 ft-lb	1.000 (100%)	D+S	L
Shear	1761 lb	18'3"	12021 lb	0.147 (15%)	D+S	L
LL Defl inch	0.195 (L/1169)	9'11 9/16"	0.476 (L/480)	0.411 (41%)	S	L
TL Defl inch	0.412 (L/554)	9'11 9/16"	0.635 (L/360)	0.649 (65%)	D+S	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.

Temp <= 100°F

- 6 Top must be laterally braced at a maximum of 11'8 1/8" o.c.
- 7 Bottom must be laterally braced at end bearings.
- 8 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			Тор	100 PLF	0 PLF	100 PLF	0 PLF	0 PLF	A3-6	
	Self Weight				11 PLF						

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 LVL not to be treated with fire retardant or corrosive

Handling & Installation

LVL beams must not be cut or drilled
Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

2 Damaged Beams must not be used

- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

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Watermark Homes

Project:

Address: Lot 22 Oak Haven 3/2/2022

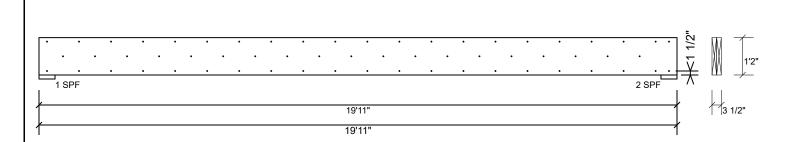
Project #:

Input by: Hampton Horrocks Job Name: Lot 22 Oak Haven J0322-1120

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Level: Level

1.750" X 14.000" **Kerto-S LVL** 2-Ply - PASSED BM₁



Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

		,	,
Capacity	0.0 %		
Load	0.0 PLF		
Yield Limit per Foot	245.6 PLF		
Yield Limit per Fastener	81.9 lb.		
Yield Mode	IV		
Edge Distance	1 1/2"		
Min. End Distance	3"		
Load Combination			
Duration Factor	1.00		

Notes

NOtes
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- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

- Handling & Installation

 1. UVI beams must not be cut or drilled

 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

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 4. Design assumes top edge is laterally restrained

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Project:

Address: Lot 22 Oak Haven

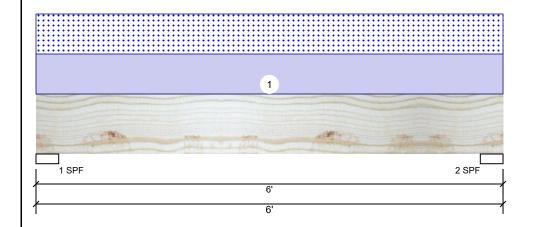
Watermark Homes

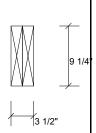
Date: 3/2/2022

Input by: Hampton Horrocks Job Name: Lot 22 Oak Haven Project #: J0322-1120

1.750" X 9.250" **Kerto-S LVL** 2-Ply - PASSED BM₂

Level: Level





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Member Information

Type:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	480
Deflection TL:	240
Importance:	Normal - II
Temperature:	Temp <= 100°F

Application: Floor Design Method: ASD **Building Code: IBC/IRC 2015** Load Sharing: No Deck: Not Checked

Reactions UNPATTERNED Ib (Uplift) Live Wind Brg Direction Dead Snow Const 0 1405 1383 0 Vertical 0 1 2 Vertical 0 1405 1383 0 0

Bearings

Bearing	Length	Dir.	Cap. I	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	54%	1405 / 1383	2788	L	D+S
2 - SPF	3.500"	Vert	54%	1405 / 1383	2788	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3567 ft-lb	3'	14423 ft-lb	0.247 (25%)	D+S	L
Unbraced	3567 ft-lb	3'	11027 ft-lb	0.323 (32%)	D+S	L
Shear	1806 lb	4'11 1/4"	7943 lb	0.227 (23%)	D+S	L
LL Defl inch	0.027 (L/2419)	3'	0.139 (L/480)	0.198 (20%)	S	L
TL Defl inch	0.055 (L/1200)	3'	0.277 (L/240)	0.200 (20%)	D+S	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 Multiple plies must be fastened together as per manufacturer's details.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be laterally braced at end bearings.
- 6 Bottom must be laterally braced at end bearings.
- 7 Lateral slenderness ratio based on single ply width

7 Edicial siciliaciness ratio based on single pry 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			Тор	461 PLF	0 PLF	461 PLF	0 PLF	0 PLF	A10-A11	
	Self Weight				7 PLF						

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 LVL not to be treated with fire retardant or corrosive

Handling & Installation

LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals Damaged Beams must not be used

Design assumes top edge is laterally restrained
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Project: Address:

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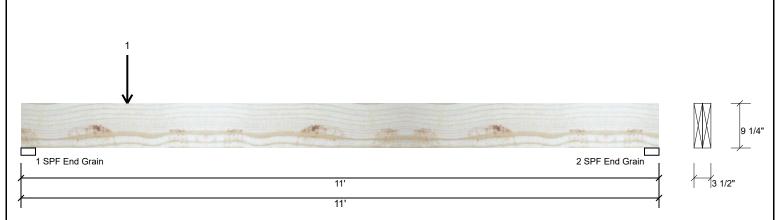
Level: Level

Page 8 of 8

Project #: J0322-1120

Kerto-S LVL 2-Ply - PASSED 1.750" X 9.250" BM₃





Member Information					Reactions UNPATTERNED lb (Uplift)						
Type:	Girder	Application:	Floor	Brg	Direction	Live	Dead	Snow	Wind	Const	
Plies:	2	Design Method:	ASD	1	Vertical	0	2644	2605	0	0	
Moisture Condition	n: Dry	Building Code:	IBC/IRC 2015	2	Vertical	0	517	477	0	0	
Deflection LL:	480	Load Sharing:	No								
Deflection TL:	240	Deck:	Not Checked								
Importance:	Normal - II										
Temperature:	Temp <= 100°F										

Bearings Bearing Length

End Grain 2 - SPF 3.000"

End Grain

1-SPF 3.000"

Dir.

Vert

Vert

Cap. React D/L lb

11%

2644 / 2605

517 / 477

Total Ld. Case

5249 L

994 L

Ld. Comb.

D+S

D+S

Analysis	Results
Analysis	Actual

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	8626 ft-lb	1'10"	14423 ft-lb	0.598 (60%)	D+S	L
Unbraced	8626 ft-lb	1'10"	8650 ft-lb	0.997 (100%)	D+S	L
Shear	5247 lb	1' 1/4"	7943 lb	0.661 (66%)	D+S	L
LL Defl inch	0.143 (L/892)	4'7 3/16"	0.266 (L/480)	0.538 (54%)	S	L
TL Defl inch	0.291 (L/439)	4'7 3/8"	0.531 (L/240)	0.547 (55%)	D+S	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 Multiple plies must be fastened together as per manufacturer's details.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be laterally braced at a maximum of 8'2 1/8" o.c.
- 6 Bottom must be laterally braced at end bearings.

1 Lateral sienderness 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	Point	1-10-0		Тор	3082 lb	0 lb	3082 lb	0 lb	0 lb	E2-GR

Bearing Length 0-3-8

7 PLF Self Weight

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- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

- LVL beams must not be cut or drilled
 Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

 2 Damaged Beams must not be used
- Design assumes top edge is laterally restrained
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