

Watermark Homes

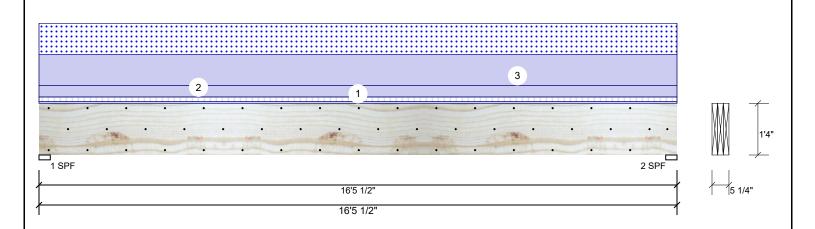
Project:

Address: Lot 34 Oak Haven Date: 3/1/2022

Input by: Anthony Williams Job Name: Lot 34 Oak Haven Project #: J0322-1083/1084

### **Kerto-S LVL** 3-Ply - PASSED 1.750" X 16.000" BM<sub>1</sub>

Level: Level



### Member Information Reactions UNPATTERNED Ib (Uplift) Application: Wind Type: Floor Brg Direction Live Dead Snow Const Plies: 3 Design Method: ASD 329 3297 0 Vertical 2197 0 1 Moisture Condition: Dry **Building Code: IBC/IRC 2015** 2 Vertical 329 3297 2197 0 0 Deflection LL: 480 Load Sharing: Yes 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 3.500" Vert 3297 / 2197 5494 L

2 - SPF 3.500"

Vert

70%

3297 / 2197

5494 L

D+S

### Analysis Results

•						
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	21421 ft-lb	8'2 3/4"	62010 ft-lb	0.345 (35%)	D+S	L
Unbraced	21421 ft-lb	8'2 3/4"	21472 ft-lb	0.998 (100%)	D+S	L
Shear	4434 lb	14'10"	20608 lb	0.215 (22%)	D+S	L
LL Defl inch	0.122 (L/1574)	8'2 13/16"	0.401 (L/480)	0.305 (31%)	S	L
TL Defl inch	0.306 (L/629)	8'2 13/16"	0.534 (L/360)	0.572 (57%)	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.
- 6 Top must be laterally braced at a maximum of 8'3 7/8" o.c.
- 7 Bottom must be laterally braced at end bearings.
- 8 Lateral slenderness ratio based on single ply width

0 Latera	o Lateral significances 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	15 PLF	40 PLF	0 PLF	0 PLF	0 PLF	FLOOR	
2	Uniform			Тор	100 PLF	0 PLF	0 PLF	0 PLF	0 PLF	WALL	
3	Uniform			Тор	267 PLF	0 PLF	267 PLF	0 PLF	0 PLF	C2 TRUSSES	
	Self Weight				19 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 approvals

  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

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

**Manufacturer Info** 

Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA 28314 910-864-TRUS



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BM<sub>1</sub>

Client:

Watermark Homes

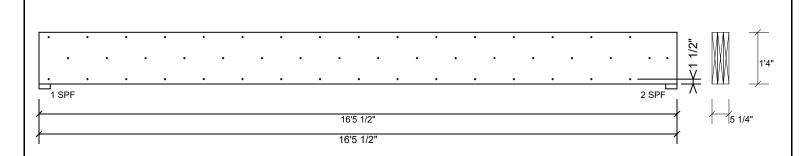
Project:

Address: Lot 34 Oak Haven 3/1/2022

Input by: Anthony Williams Job Name: Lot 34 Oak Haven Project #: J0322-1083/1084

Page 2 of 9

1.750" X 16.000" **Kerto-S LVL** 3-Ply - PASSED Level: Level



# Multi-Ply Analysis

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

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

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
requirements, multi-ply
fastening details, beam strength values, and code
approvals
Damaged Beams must not be used

- Danaged Beams must not be used
  Design assumes top edge is laterally restrained
  Provide lateral support at bearing points to avoid
  lateral displacement and rotation

For flat roofs provide proper drainage to prevent ponding

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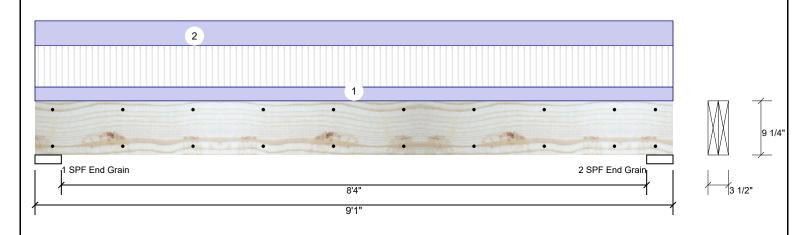
Project:

Address: Lot 34 Oak Haven Date: 3/1/2022

Input by: Anthony Williams Job Name: Lot 34 Oak Haven Project #: J0322-1083/1084

### **Kerto-S LVL** 2-Ply - PASSED 1.750" X 9.250" BM<sub>2</sub>

Level: Level



Member Info	rmation			Rea	ctions UNP	ATTERNE	D lb (Uplift)			
Type:	Girder	Application:	Floor	Brg	Direction	Live	Dead	Snow	Wind	Const
Plies:	2	Design Method:	ASD	1	Vertical	1508	1445	0	0	0
Moisture Condition	on: Dry	Building Code:	IBC/IRC 2015	2	Vertical	1508	1445	0	0	0
Deflection LL:	480	Load Sharing:	No							
Deflection TL:	360	Deck:	Not Checked							
Importance:	Normal - II									
Temperature:	Temp <= 100°F									
				Bea	rings					
				Bea	aring Length	Dir. C	Cap. React D/L lb	Total	Ld. Case	Ld. Comb.

1-SPF 4.500"

2 - SPF 4.500"

End Grain

End Grain Vert

Vert

### Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	5815 ft-lb	4'6 1/2"	12542 ft-lb	0.464 (46%)	D+L	L
Unbraced	5815 ft-lb	4'6 1/2"	8242 ft-lb	0.705 (71%)	D+L	L
Shear	2213 lb	7'11 1/4"	6907 lb	0.320 (32%)	D+L	L
LL Defl inch	0.093 (L/1087)	4'6 9/16"	0.211 (L/480)	0.442 (44%)	L	L
TL Defl inch	0.183 (L/555)	4'6 9/16"	0.282 (L/360)	0.649 (65%)	D+L	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.
- $\ensuremath{^{\circ}}$  Top must be laterally braced at end bearings.
- 7 Bottom must be laterally braced at end bearings.
- 8

8 Lateral slende	erness 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	111 PLF	332 PLF	0 PLF	0 PLF	0 PLF	F07	
^	I lucife une			т	200 DLE	0 DLE	0 DI E	0.01.5	0.01.5	14/41 1	

### ID 1 2 Top Self Weight 7 PI F

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 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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1445 / 1508

1445 / 1508

2953 L

2953 L

D+L

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This design is valid until 3/30/2024 CSD DESIGN

Manufacturer Info

isDesign

Client:

Project: Address: Watermark Homes

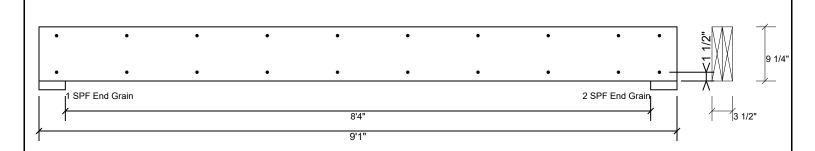
Lot 34 Oak Haven

Date: 3/1/2022

Input by: Anthony Williams Job Name: Lot 34 Oak Haven Project #: J0322-1083/1084

**Kerto-S LVL** 2-Ply - PASSED 1.750" X 9.250" BM<sub>2</sub>

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

# Handling & Installation

- L. UVL 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
- Danaged Beams must not be used
  Design assumes top edge is laterally restrained
  Provide lateral support at bearing points to avoid
  lateral displacement and rotation

For flat roofs provide proper drainage to prevent ponding

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Manufacturer Info

Metsä Wood

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Project:

Address: Lot 34 Oak Haven

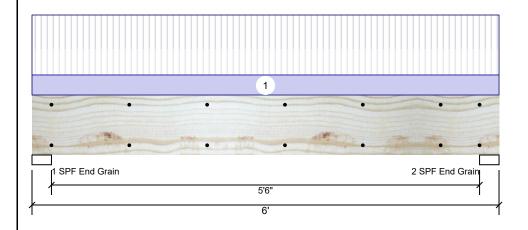
Watermark Homes

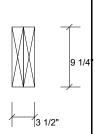
Date: 3/1/2022

Input by: Anthony Williams Job Name: Lot 34 Oak Haven Project #: J0322-1083/1084

2-Ply - PASSED Kerto-S LVL 1.750" X 9.250" BM<sub>3</sub>

Level: Level





Ld. Comb.

D+I

D+L

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### Member Information

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

Ш Temperature: Temp <= 100°F

### Reactions UNPATTERNED Ib (Uplift)

Dir.

Vert

Vert

**Bearings** 

End Grain

End Grain

2 - SPF 3.000"

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	1626	565	0	0	0
2	Vertical	1626	565	0	0	0

Cap. React D/L lb

565 / 1626

565 / 1626

24%

24%

Total Ld. Case

2191 L

2191 L

### Bearing Length 1-SPF 3.000"

Deck:

Application:

Design Method:

**Building Code:** 

Load Sharing:

Floor

ASD

No

**IBC/IRC 2015** 

Not Checked

### Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2888 ft-lb	3'	12542 ft-lb	0.230 (23%)	D+L	L
Unbraced	2888 ft-lb	3'	10300 ft-lb	0.280 (28%)	D+L	L
Shear	1451 lb	1' 1/4"	6907 lb	0.210 (21%)	D+L	L
LL Defl inch	0.034 (L/1981)	3'	0.141 (L/480)	0.242 (24%)	L	L
TL Defl inch	0.046 (L/1471)	3'	0.188 (L/360)	0.245 (24%)	D+L	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.

Self Weight

- 7 Bottom must be laterally braced at end bearings.
- 8 Lateral slenderness ratio based on single ply width.

### ID Trib Width Load Type Location Side Dead 0.9 Live 1 Snow 1.15 Wind 1.6 Const. 1.25 Comments 542 PLF 1 Uniform 181 PI F 0 PI F 0 PLF 0 PLF F01 Top

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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

  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

7 PLF

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**Manufacturer Info** 

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BM<sub>3</sub>

Client:

Address:

Project:

Watermark Homes

Lot 34 Oak Haven

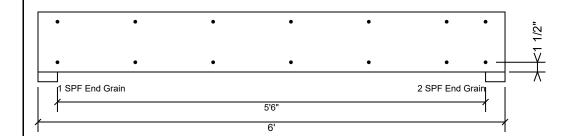
Date: 3/1/2022

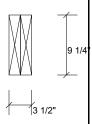
Input by: Anthony Williams Job Name: Lot 34 Oak Haven

J0322-1083/1084

Project #: **Kerto-S LVL** 2-Ply - PASSED 1.750" X 9.250"

Level: Level





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# 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
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

- 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:

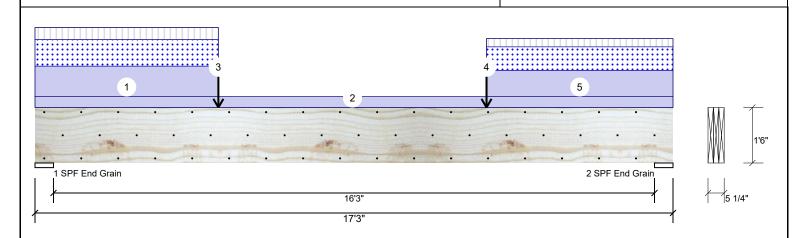
Lot 34 Oak Haven

Date: 3/1/2022

Input by: Anthony Williams Job Name: Lot 34 Oak Haven Project #: J0322-1083/1084

### **Kerto-S LVL** 3-Ply - PASSED 1.750" X 18.000" **GDH**

Level: Level



### Member Information Reactions UNPATTERNED Ib (Uplift) Application: Type: Floor Plies: 3 Design Method: ASD Moisture Condition: Dry **Building Code: IBC/IRC 2015** Vertical Deflection LL: 480 Load Sharing: Yes Deflection TL: 360 Deck: Not Checked Importance: Normal - II Temperature: Temp <= 100°F Bearings

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	1780	6378	4054	0	0
2	Vertical	1416	5987	3779	0	0

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L	_cag.							
ſ	Bearing	Length	Dir.	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.
ı	1 - SPF End Grain	6.000"	Vert	39%	6378 / 4375	10753	L	D+0.75(L+S)
ı	2 - SPF End Grain	6.000"	Vert	36%	5987 / 3897	9883	L	D+0.75(L+S)

### **Analysis Results**

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	34884 ft-lb	7'5 3/8"	77108 ft-lb	0.452 (45%)	D+0.75(L+S)	L
Unbraced	34884 ft-lb	7'5 3/8"	35043 ft-lb	0.995 (100%)	D+0.75(L+S)	L
Shear	8414 lb	2'	23184 lb	0.363 (36%)	D+0.75(L+S)	L
LL Defl inch	0.157 (L/1255)	8'6"	0.410 (L/480)	0.382 (38%)	0.75(L+S)	L
TL Defl inch	0.398 (L/495)	8'6 7/16"	0.547 (L/360)	0.727 (73%)	D+0.75(L+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.
- 6 Top must be laterally braced at a maximum of 5'8" o.c.
- 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	Part. Uniform	0-0-0 to 4-11-8		Тор	505 PLF	200 PLF	439 PLF	0 PLF	0 PLF	A2 R+F	
2	Uniform			Тор	180 PLF	0 PLF	0 PLF	0 PLF	0 PLF	WALL (MAS)	
3	Point	4-11-8		Тор	2243 lb	901 lb	1943 lb	0 lb	0 lb	A3 R+F	
	Rearing Length	0-3-8									

Continued on page 2...

### Notes

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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

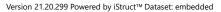
  Damaged Beams must not be used
- Design assumes top edge is laterally restrained
  Provide lateral support at bearing points to avoid
  lateral displacement and rotation
- 6. For flat roofs provide proper drainage to prevent ponding

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Manufacturer Info

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Project: Address:

Watermark Homes

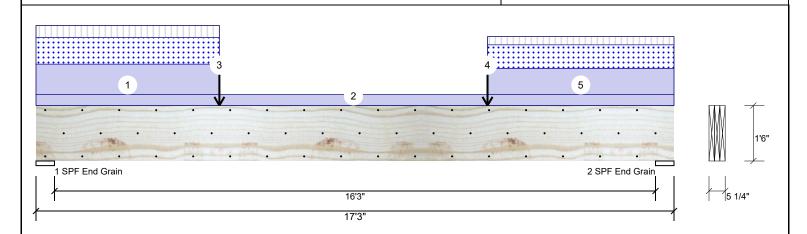
Lot 34 Oak Haven

Date: 3/1/2022

Input by: Anthony Williams Job Name: Lot 34 Oak Haven Project #: J0322-1083/1084

1.750" X 18.000" 3-Ply - PASSED **Kerto-S LVL GDH** 

Level: Level



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
4	Point	12-2-8		Тор	1957 lb	613 lb	1752 lb	0 lb	0 lb	A3A R+F
	Bearing Length	0-3-8								
5	Part. Uniform	12-2-8 to 17-3-0		Тор	435 PLF	137 PLF	389 PLF	0 PLF	0 PLF	A2A R+F
	Self Weight				21 PLF					

### 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

- 6. For flat roofs provide proper drainage to prevent ponding

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Manufacturer Info

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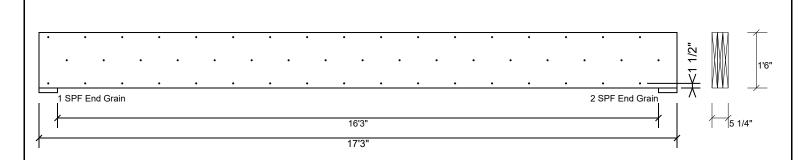
Project:

Address: Lot 34 Oak Haven 3/1/2022

Input by: Anthony Williams Job Name: Lot 34 Oak Haven Project #: J0322-1083/1084

**Kerto-S LVL** 1.750" X 18.000" 3-Ply - PASSED **GDH** 

Level: Level



# Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. Nail from both sides. 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

- L. UV. 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
  Provide lateral support at bearing points to avoid
  lateral displacement and rotation

For flat roofs provide proper drainage to prevent ponding

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Manufacturer Info

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