

BM1

Client: Watermark Homes

Project:

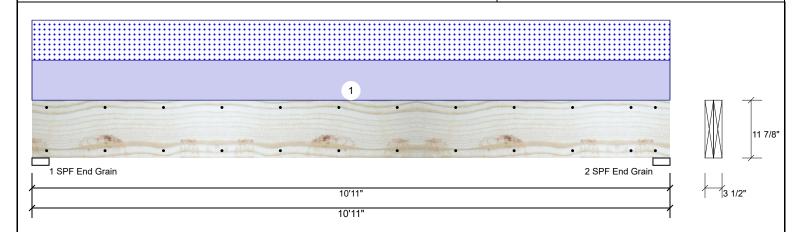
Address:

256 Oakhaven Drive Holly Springs, NC

Date: 10/27/2020 Input by: Anthony Williams Lot 6 Oak Haven Project #: J1020-5007

evel: Level

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



### Member Information Reactions UNPATTERNED Ib (Uplift) Application: Brg Live Dead Type: Floor Snow Plies: 2 Design Method: ASD 0 1808 1758 1 Moisture Condition: Dry **Building Code: IBC/IRC 2015** 2 0 1808 1758 Deflection LL: 480 Load Sharing: No Deflection TL: 360 Deck: Not Checked Importance: Normal Temperature: Temp <= 100°F

Analysis	Results
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Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	8931 ft-lb	5'5 1/2"	22897 ft-lb	0.390 (39%)	D+S	L
Unbraced	8931 ft-lb	5'5 1/2"	9033 ft-lb	0.989 (99%)	D+S	L
Shear	2769 lb	9'8 3/8"	10197 lb	0.272 (27%)	D+S	L
LL Defl inch	0.101 (L/1243)	5'5 1/2"	0.261 (L/480)	0.390 (39%)	S	L
TL Defl inch	0.205 (L/613)	5'5 1/2"	0.349 (L/360)	0.590 (59%)	D+S	L

## **Design Notes**

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

ı								
Bearings								
I	Bearing	Length	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.	
	1 - SPF End Grain	3.500"	33%	1808 / 1758	3566	L	D+S	
	2 - SPF End Grain	3.500"	33%	1808 / 1758	3566	L	D+S	

Wind

0

0

Const

0

0

Load Type ID Trib Width Side Dead 0.9 Wind 1.6 Const. 1.25 Comments Location Live 1 Snow 1.15 1 Uniform Top 322 PLF 0 PLF 322 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 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

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



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This design is valid until 2/26/2023

Manufacturer Info

Client: Watermark Homes

Project:

Address: 256 Oakhaven Drive

Holly Springs, NC

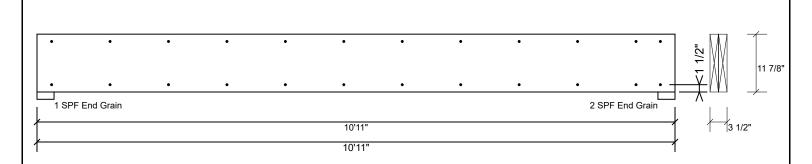
10/27/2020 Input by:

Anthony Williams Job Name: Lot 6 Oak Haven Project #: J1020-5007

evel: Level

**Kerto-S LVL** 1.750" X 11.875" BM1

2-Ply - PASSED



## 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
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

- 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

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Project:

Address:

256 Oakhaven Drive Holly Springs, NC

Date: 10/27/2020 Input by: Anthony Williams Lot 6 Oak Haven

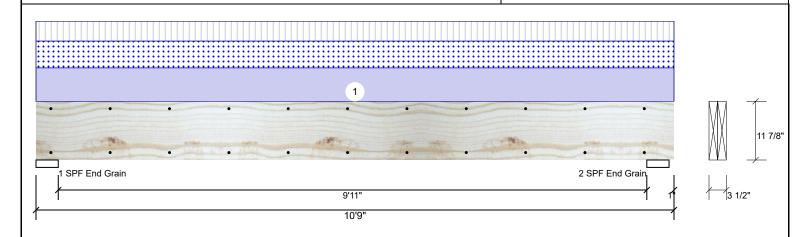
J1020-5007

evel: Level

Project #:

# **Kerto-S LVL**

### 2-Ply - PASSED 1.750" X 11.875"



Туре:	Girder	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC/IRC 2015
Deflection LL:	480	Load Sharing:	No
Deflection TL:	360	Deck:	Not Checked
Importance:	Normal		
Temperature:	Temp <= 100°F		

## Reactions UNPATTERNED Ib (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	1036 1798 14		1403	0	0
2	1028	1784	1392	0	0

# **Bearings**

Grain

	Bearing Length	Cap. React D/L lb	Total Ld. Case	Ld. Comb.
_	1 - SPF 4.500" End Grain	26% 1798 / 1829	3627 L_	D+0.75(L+S)
	2 - SPF 4.500" End	26% 1784 / 1815	3599 LL	D+0.75(L+S)

### **Analysis Results**

Member Information

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Neg Moment	-2 ft-lb	10'8"	22897 ft-lb	0.000 (0%)	D+0.75(L+S)	LL
Unbraced	-2 ft-lb	10'8"	9241 ft-lb	0.000 (0%)	D+0.75(L+S)	LL
Pos Moment	8685 ft-lb	5'4 3/4"	22897 ft-lb	0.379 (38%)	D+0.75(L+S)	L_
Unbraced	8685 ft-lb	5'4 3/4"	9241 ft-lb	0.940 (94%)	D+0.75(L+S)	L_
Shear	2752 lb	9'5 7/8"	10197 lb	0.270 (27%)	D+0.75(L+S)	LL
LL Defl inch	0.096 (L/1277)	5'4 3/4"	0.254 (L/480)	0.380 (38%)	0.75(L+S)	L_
TL Defl inch	0.189 (L/644)	5'4 3/4"	0.339 (L/360)	0.560 (56%)	D+0.75(L+S)	L_
LL Cant	-0.002 (2L/914)	Rt Cant	0.200 (2L/480)	0.011 (1%)	0.75(L+S)	L_
TL Cant	-0.004 (2L/461)	Rt Cant	0.300 (2L/360)	0.014 (1%)	D+0.75(L+S)	L_

### **Design Notes**

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

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
- For flat roofs provide proper drainage to prevent ponding

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Manufacturer Info

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Project:

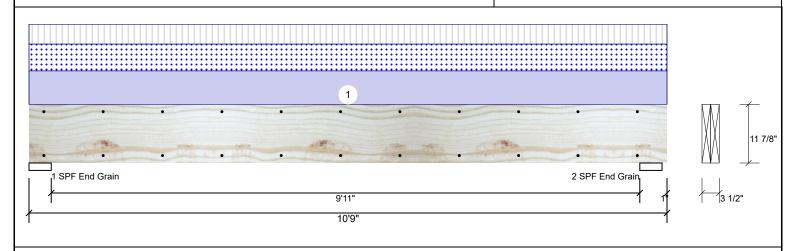
Address:

256 Oakhaven Drive Holly Springs, NC

Date: 10/27/2020 Input by: Anthony Williams Job Name: Lot 6 Oak Haven

Project #: J1020-5007 evel: Level

2-Ply - PASSED **Kerto-S LVL BM2** 1.750" X 11.875"



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	324 PLF	192 PLF	260 PLF	0 PLF	0 PLF	D3	
	Self Weight				9 PLF						

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. IVI 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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Client: Watermark Homes

Project:

Address: 256 Oakhaven Drive

Holly Springs, NC

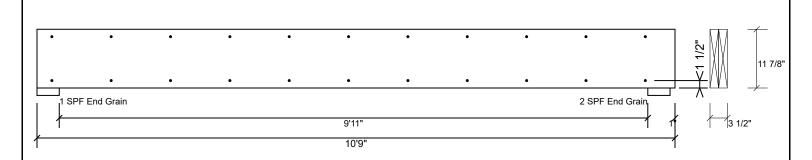
10/27/2020 Input by: Anthony Williams

Job Name: Lot 6 Oak Haven Project #: J1020-5007

**Kerto-S LVL** 

2-Ply - PASSED 1.750" X 11.875"

evel: 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
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

- 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

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**GDH** 

Client: Watermark Homes

Project:

Address:

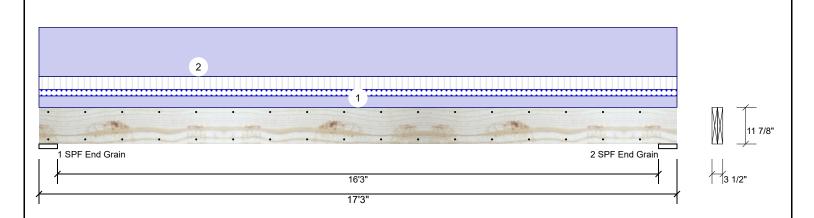
256 Oakhaven Drive Holly Springs, NC

Date: 10/27/2020 Input by: Anthony Williams Job Name: Lot 6 Oak Haven Project #: J1020-5007

Level: Level

**Kerto-S LVL** 

2-Ply - PASSED 1.750" X 11.875"



Member Information							
Type:	Girder						
Plies:	2						
Moisture Condition:	Dry						
Deflection LL:	480						
Deflection TL:	360						
Importance:	Normal						
Temperature:	Temp <= 100°F						

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

Reactions UNPATTERNED Ib (Uplift) Wind Brg Live Dead Snow Const 1675 0 345 173 0 1 2 345 1675 173 0 0

### Analysis Results Analysis Actual Location Allowed Comb. Case Capacity Moment 7851 ft-lb 8'7 1/2" 19911 ft-lb 0.394 (39%) D+L Unbraced 8019 ft-lb 8'7 1/2" 8032 ft-lb 0.998 D+0.75(L+S) L (100%)1686 lb 15'9 7/8" 8867 lb 0.190 (19%) D+L Shear LL Defl inch 0.079 (L/2497) 8'7 9/16" 0.409 (L/480) 0.190 (19%) 0.75(L+S)

[i	Bearings									
Γ	Bearing	Length	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.			
	1 - SPF End Grain	6.000"	11%	1675 / 388	2063	L	D+0.75(L+S)			
	2 - SPF End Grain	6.000"	11%	1675 / 388	2063	L	D+0.75(L+S)			

## Design Notes

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

8'7 9/16" 0.546 (L/360) 0.770 (77%) D+0.75(L+S) L

- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be laterally braced at a maximum of 12' 3/4" o.c.
- 6 Bottom braced at bearings.

TL Defl inch 0.418 (L/470)

7 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	35 PLF	40 PLF	20 PLF	0 PLF	0 PLF	ROOF+FLOOR
2	Uniform			Тор	150 PLF	0 PLF	0 PLF	0 PLF	0 PLF	WALL
	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

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 2/26/2023

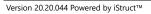
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**Manufacturer Info** 

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



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**GDH** 

Client: Watermark Homes

Project:

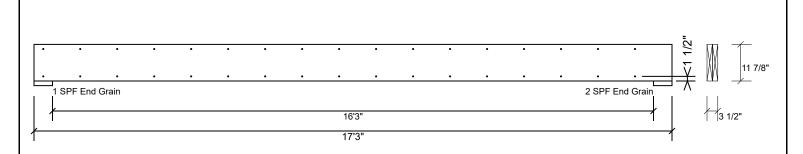
Address: 256 Oakhaven Drive

Holly Springs, NC

10/27/2020 Input by: Anthony Williams Job Name: Lot 6 Oak Haven Project #: J1020-5007

Level: Level

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



## 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

For flat roofs provide proper drainage to prevent ponding

(800) 622-5850 www.metsawood.com/us ICC-ES: ESR-3633

Manufacturer Info

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851

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



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Project:

Address: 256 Oakhaven Drive

Holly Springs, NC

Date: 10/27/2020 Input by: Anthony Williams Job Name: Lot 6 Oak Haven

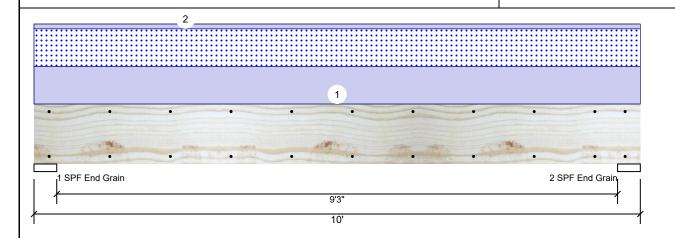
Project #:

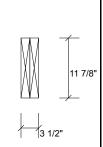
\_evel: Level

J1020-5007

### GDH-2 **Kerto-S LVL**

1.750" X 11.875" 2-Ply - PASSED





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### Member Information

Type: Plies: 2 Moisture Condition: Dry Deflection LL: 480 Deflection TL: 360 Importance: Normal Temperature: Temp <= 100°F

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

Reactions UNPATTERNED Ib (Uplift) Brg Live Wind Dead Snow Const 0 1371 1175 0 0 1 2 0 1371 1175 0 0

# **Analysis Results**

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	5595 ft-lb	5'	22897 ft-lb	0.244 (24%)	D+S	L
Unbraced	5595 ft-lb	5'	9857 ft-lb	0.568 (57%)	D+S	L
Shear	1883 lb	1'3 5/8"	10197 lb	0.185 (18%)	D+S	L
LL Defl inch	0.049 (L/2297)	5'	0.234 (L/480)	0.210 (21%)	S	L
TI Deflinch	0.106 (L/1060)	5'	0.312 (1/360)	0.340 (34%)	D+S	1

## **Bearings**

Bearing Length Cap. React D/L lb Total Ld. Case Ld. Comb. 1-SPF 4.500" 1371 / 1175 2546 L D+S End Grain 2 - SPF 4.500" 1371 / 1175 2546 L D+S End Grain

## **Design Notes**

- 1 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top loads must be supported equally by all plies.
- 5 Top braced at bearings.
- 6 Bottom braced at bearings.
- 7 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	235 PLF	0 PLF	235 PLF	0 PLF	0 PLF	G2
2	Uniform			Top	30 PLF	0 PLF	0 PLF	0 PLF	0 PLF	WALL

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

  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** 

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



Client: Watermark Homes

Project:

Address: 256 Oakhaven Drive

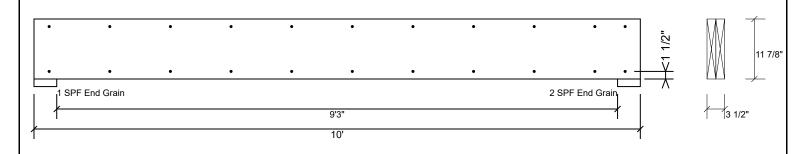
Holly Springs, NC

Date: 10/27/2020 Input by: Anthony Williams Job Name: Lot 6 Oak Haven

Project #: J1020-5007 Level: Level

**Kerto-S LVL** GDH-2

2-Ply - PASSED 1.750" X 11.875"



## 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

- 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

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

Manufacturer Info

ICC-ES: ESR-3633

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



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Project:

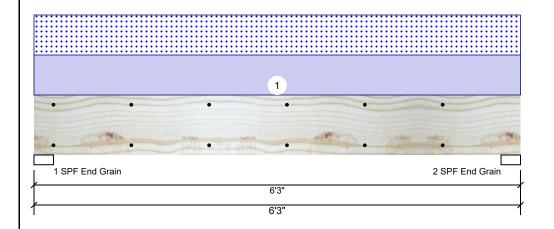
Address: 256 Oakhaven Drive

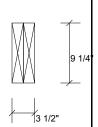
Holly Springs, NC

Date: 10/27/2020 Input by: Anthony Williams Job Name: Lot 6 Oak Haven Project #: J1020-5007

**Kerto-S LVL** 1.750" X 9.250" 2-Ply - PASSED **DBL-28** 







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### Member Information

Type:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	480
Deflection TL:	360
Importance:	Normal
Temperature:	Temp <= 100°F

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

Reactions UNPATTERNED Ib (Uplift) Brg Live Wind Dead Snow Const 0 1432 1409 0 0 1 2 0 1432 1409 0 0

## **Analysis Results**

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3923 ft-lb	3'1 1/2"	14423 ft-lb	0.272 (27%)	D+S	L
Unbraced	3923 ft-lb	3'1 1/2"	10696 ft-lb	0.367 (37%)	D+S	L
Shear	1970 lb	5'3 1/2"	7943 lb	0.248 (25%)	D+S	L
LL Defl inch	0.033 (L/2129)	3'1 1/2"	0.147 (L/480)	0.230 (23%)	S	L
TL Defl inch	0.067 (L/1056)	3'1 1/2"	0.196 (L/360)	0.340 (34%)	D+S	L

## **Bearings**

Bearing Length	Cap. I	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF 3.000" End Grain	31%	1432 / 1409	2841	L	D+S
2 - SPF 3.000" End Grain	31%	1432 / 1409	2841	L	D+S

## **Design Notes**

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

ID Load Type Trib Width Side Dead 0.9 Wind 1.6 Const. 1.25 Comments Location Live 1 Snow 1.15 1 Uniform Top 451 PLF 0 PLF 451 PLF 0 PLF 0 PLF

> Self Weight 7 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



Client: Watermark Homes

Project:

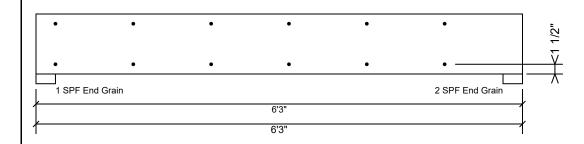
Address: 4256 Oakhaven Drive Holly Springs, NC 8 Jeans Way

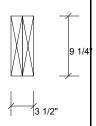
Date: 10/27/2020

Input by: Anthony Williams Job Name: Lot 6 Oak Haven Project #: J1020-5007

**DBL-28 Kerto-S LVL**  Bens. 750 X 9.250" 2-Ply - PASSED

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

- For flat roofs provide proper drainage to prevent ponding

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This design is valid until 2/26/2023 CSD DESIGN