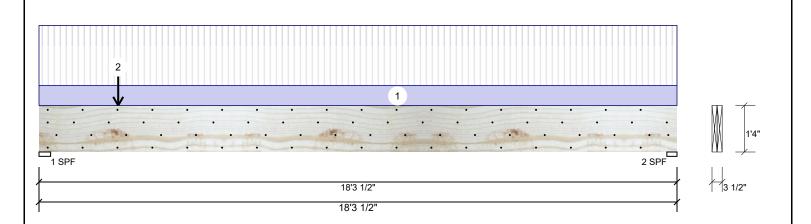


Project: Address: Date: 12/8/2020

> Input by: Anthony Williams Job Name: 58 South Creek Project #: J1220-5732 & 5733

1.750" X 16.000" 2-Ply - PASSED **Kerto-S LVL** BM<sub>1</sub>

Level: Level



## **Member Information** Reactions UNPATTERNED Ib (Uplift) Application: Brg Wind Type: Floor Live Dead Snow Const Plies: 2 Design Method: ASD 3863 1405 0 0 0 1 Moisture Condition: Dry **Building Code:** IBC 2012 2 3516 1289 0 0 0 Deflection LL: 480 Load Sharing: No Deflection TL: 360 Deck: Not Checked Importance: Normal Temperature: Temp <= 100°F **Bearings** Bearing Length Cap. React D/L lb Total Ld. Case Ld. Comb. 1-SPF 4.000" D+L 1405 / 3863 5268 L 2 - SPF 3.500" 92% 1289 / 3516 4804 L D+I

# **Analysis Results**

•						
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	21179 ft-lb	9' 1/2"	34565 ft-lb	0.613 (61%)	D+L	L
Unbraced	21179 ft-lb	9' 1/2"	21280 ft-lb	0.995 (100%)	D+L	L
Shear	5116 lb	1'7 1/8"	11947 lb	0.428 (43%)	D+L	L
LL Defl inch	0.404 (L/529)	9'1 7/16"	0.445 (L/480)	0.910 (91%)	L	L
TL Defl inch	0.552 (L/387)	9'1 7/16"	0.594 (L/360)	0.930 (93%)	D+L	L

## **Design Notes**

- 1 Fasten all plies using 4 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 must be laterally braced at a maximum of 5'3 3/4" o.c.
- 5 Bottom braced at bearings.

U Lateral Sieriue	erriess ratio based oir sirigle	piy widiii.									
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments	
1	Uniform			Far Face	127 PLF	380 PLF	0 PLF	0 PLF	0 PLF	F03	
2	Point	2-3-4		Near Face	143 lb	428 lb	0 lb	0 lb	0 lb	F11	
	Self Weight				12 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

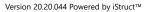
Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us ICC-ES: ESR-3633

Manufacturer Info

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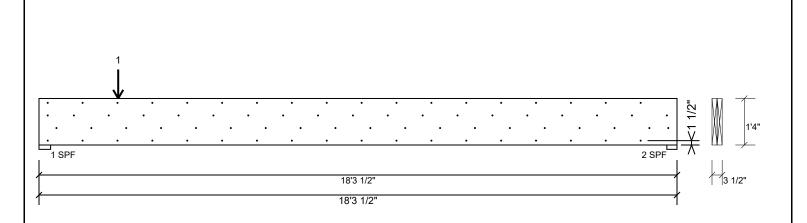
Client: Signature Home Builders

Project: Address: Date: 12/8/2020

Input by: Anthony Williams Job Name: 58 South Creek Project #: J1220-5732 & 5733 Page 2 of 18

1.750" X 16.000" **Kerto-S LVL** 2-Ply - PASSED BM<sub>1</sub>

Level: Level



# Multi-Ply Analysis

Fasten all plies using 4 rows of 10d Box nails (.128x3") at 12" o.c., Maximum end distance not to exceed 6"

, ,		,	,
Capacity	77.4 %		
Load	253.5 PLF		
Yield Limit per Foot	327.4 PLF		
Yield Limit per Fastener	81.9 lb.		
Yield Mode	IV		
Edge Distance	1 1/2"		
Min. End Distance	3"		
Load Combination	D+L		
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

- Informing & Installation

  I. VIL 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

  Design assumes top edge is laterally restrained is 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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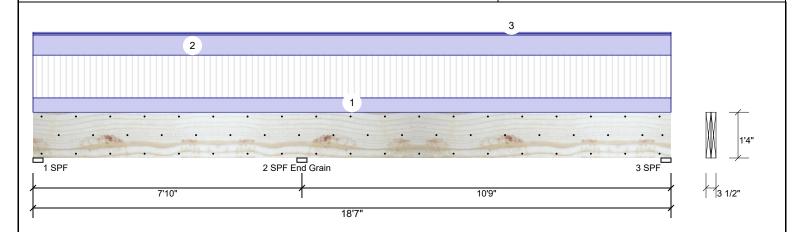


Project: Address: Date:

12/8/2020 Input by: Anthony Williams Job Name: 58 South Creek Project #: J1220-5732 & 5733

1.750" X 16.000" **Kerto-S LVL** 2-Ply - PASSED BM<sub>2</sub>

Level: Level



## Member Information Reactions UNPATTERNED Ib (Uplift) Application: Dead Wind Type: Floor Brg Live Snow Plies: 2 Design Method: ASD 755 0 859 27 1 Moisture Condition: Dry **Building Code:** IBC 2012 2 3595 3158 113 0 Deflection LL: 480 Load Sharing: No 3 1437 1262 45 0 Deflection TL: 360 Deck: Not Checked Importance: Normal Temp <= 100°F Temperature: **Bearings** Bearing Length Cap. React D/L lb Total Ld. Case 1-SPF 3.500" 716 / 1150 1865 L 2 - SPF 3.500" 65% 3225 / 3671 6896 LL

Analysis Results	Ana	lysis	Resu	lts
------------------	-----	-------	------	-----

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Neg Moment	-6602 ft-lb	7'10"	34565 ft-lb	0.191 (19%)	D+L	LL
Unbraced	-6602 ft-lb	7'10"	11591 ft-lb	0.570 (57%)	D+L	LL
Pos Moment	5677 ft-lb	14'	34565 ft-lb	0.164 (16%)	D+L	_L
Unbraced	5677 ft-lb	14'	11591 ft-lb	0.490 (49%)	D+L	_L
Shear	2968 lb	9'2"	11947 lb	0.248 (25%)	D+L	LL
LL Defl inch	0.034 (L/3685)	13'4 1/8"	0.263 (L/480)	0.130 (13%)	L	_L
TL Defl inch	0.061 (L/2084)	13'4 13/16"	0.351 (L/360)	0.170 (17%)	D+L	_L

# **Design Notes**

- 1 Fasten all plies using 3 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 slend	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	106 PLF	317 PLF	0 PLF	0 PLF	0 PLF	F05
2	Uniform			Тор	150 PLF	0 PLF	0 PLF	0 PLF	0 PLF	WALL
3	Uniform			Тор	10 PLF	0 PLF	10 PLF	0 PLF	0 PLF	G1
	Self Weight				12 PLF					

End Grain 3 - SPF 3.500"

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

For flat roofs provide proper drainage to prevent ponding

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Manufacturer Info

52%

1234 / 1496

2730 L

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Const

0

0

0

Ld. Comb.

D+L

D+I

D+L

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

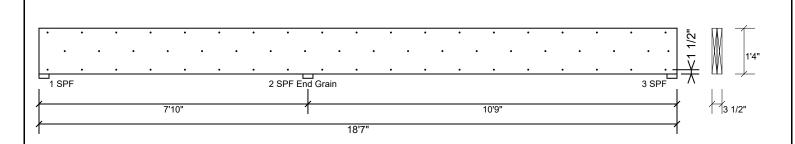
Client: Signature Home Builders

Project: Address: Date: 12/8/2020

Input by: Anthony Williams Job Name: 58 South Creek Project #: J1220-5732 & 5733

1.750" X 16.000" **Kerto-S LVL** 2-Ply - PASSED BM<sub>2</sub>

Level: Level



# 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

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

This design is valid until 2/26/2023

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Client:

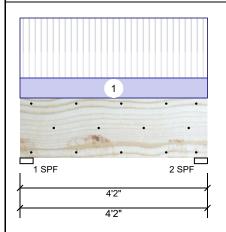
Project: Address: Signature Home Builders

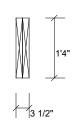
Date: 12/8/2020

Input by: Anthony Williams Job Name: 58 South Creek Project #: J1220-5732 & 5733

1.750" X 16.000" 2-Ply - PASSED **Kerto-S LVL** BM<sub>3</sub>

Level: Level





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Member Information				Reaction	Reactions UNPATTERNED lb (Uplift)					
Type:	Girder	Application:	Floor	Brg	Live	Dead	Snow	\	Vind	Const
Plies:	2	Design Method:	ASD	1	763	280	0		0	0
Moisture Conditio	n: Dry	Building Code:	IBC 2012	2	763	280	0		0	0
Deflection LL:	480	Load Sharing:	No							
Deflection TL:	360	Deck:	Not Checked							
Importance:	Normal									
Temperature:	Temp <= 100°F									
				Bearings	5					
				Bearing	Length	Cap. Re	act D/L lb	Total	Ld. Case	Ld. Comb.
				1 - SPF	3.500"	20%	280 / 763	1043	L	D+L
A I				2 - SPF	3.500"	20%	280 / 763	1043	L	D+L

## **Analysis Results**

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	870 ft-lb	2'1"	34565 ft-lb	0.025 (3%)	D+L	L
Unbraced	870 ft-lb	2'1"	27449 ft-lb	0.032 (3%)	D+L	L
Shear	917 lb	2'7 3/8"	11947 lb	0.077 (8%)	D+L	L
LL Defl inch	0.002 (L/22654)	2'1 1/16"	0.093 (L/480)	0.020 (2%)	L	L
TL Defl inch	0.003 (L/16568)	2'1 1/16"	0.124 (L/360)	0.020 (2%)	D+L	L

# Design Notes

- 1 Fasten all plies using 3 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 braced at bearings.
- 5 Bottom braced at bearings.
- 6. Lateral slenderness ratio based on single ply width

U Lateral Sierius	erriess 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			Near Face	122 PLF	366 PLF	0 PLF	0 PLF	0 PLF	F08	
	Self Weight				12 PLF						

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

- Informing & Installation

  I. VIL 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

  Design assumes top edge is laterally restrained is 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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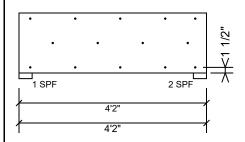


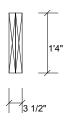
Project: Address: Date: 12/8/2020

Input by: Anthony Williams Job Name: 58 South Creek Project #: J1220-5732 & 5733

1.750" X 16.000" 2-Ply - PASSED **Kerto-S LVL** BM<sub>3</sub>

Level: Level





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# 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	99.4 %
Load	244.0 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	D+L
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

6. For flat roofs provide proper drainage to prevent ponding

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This design is valid until 2/26/2023

Manufacturer Info

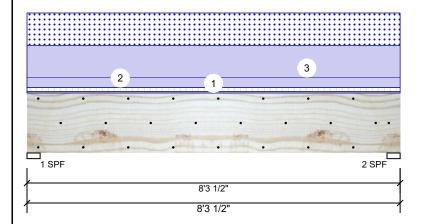


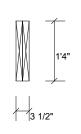
Project: Address: Date: 12/8/2020

Input by: Anthony Williams Job Name: 58 South Creek Project #: J1220-5732 & 5733

1.750" X 16.000" **Kerto-S LVL** 2-Ply - PASSED BM4

Level: Level





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## **Member Information**

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

## Application: Floor Design Method: ASD

**Building Code:** IBC 2012 Load Sharing: No

Deck: Not Checked

# Reactions UNPATTERNED Ib (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	166	1892	1364	0	0
2	166	1892	1364	0	0

# **Bearings**

Bearing Length	Cap. React D/L lb	Total Ld. Case	Ld. Comb.
1 - SPF 3.500"	63% 1892 / 1364	3256 L	D+S
O ODE 3 500"	620/ 4000 / 4264	2256 1	D.C

## Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	6057 ft-lb	4'1 3/4"	39750 ft-lb	0.152 (15%)	D+S	L
Unbraced	6057 ft-lb	4'1 3/4"	15085 ft-lb	0.401 (40%)	D+S	L
Shear	2037 lb	1'6 5/8"	13739 lb	0.148 (15%)	D+S	L
LL Defl inch	0.017 (L/5541)	4'1 13/16"	0.196 (L/480)	0.090 (9%)	S	L
TL Defl inch	0.041 (L/2321)	4'1 13/16"	0.262 (L/360)	0.160 (16%)	D+S	L

# **Design Notes**

- 1 Fasten all plies using 3 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.

/ Lateral Si	enderness 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	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	329 PLF	0 PLF	329 PLF	0 PLF	0 PLF	A2	
	Self Weight				12 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

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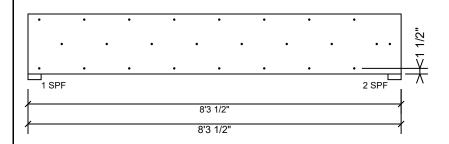
Client: Signature Home Builders

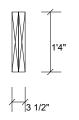
Project: Address: Date: 12/8/2020

Input by: Anthony Williams Job Name: 58 South Creek Project #: J1220-5732 & 5733

1.750" X 16.000" 2-Ply - PASSED **Kerto-S LVL** BM4

Level: Level





Page 8 of 18

# 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"

rasterran piles asing si	ovis or roa box rians (. 120xs ) at
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

- 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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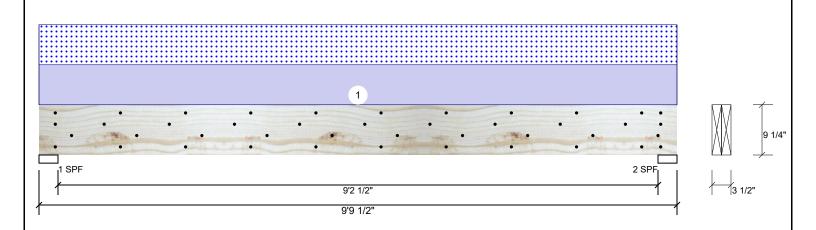


Project: Address:

Date: 12/8/2020 Input by: Anthony Williams Job Name: 58 South Creek Project #: J1220-5732 & 5733 Page 9 of 18

**Kerto-S LVL** 1.750" X 9.250" 2-Ply - PASSED BM5

Level: Level



Member Infoi	rmation			Reaction	ns UNPAT	TERNED II	ວ (Uplift)		
Type:	Girder	Application:	Floor	Brg	Live	Dead	Snow	Wind	Const
Plies:	2	Design Method:	ASD	1	0	1573	1537	0	0
Moisture Condition	n: Dry	Building Code:	IBC 2012	2	0	1573	1537	0	0
Deflection LL:	480	Load Sharing:	No						
Deflection TL:	360	Deck:	Not Checked						
Importance:	Normal								
Temperature:	Temp <= 100°F								
				Bearing	gs				
				Bearing	g Length	Cap. Rea	ct D/L lb	Total Ld. Case	Ld. Comb.
				1 - SPF	3.500"	60% 15	73 / 1537	3110 L	D+S
				2 - SPF	3.500"	60% 15	73 / 1537	3110 L	D+S

## Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	6917 ft-lb	4'10 3/4"	14423 ft-lb	0.480 (48%)	D+S	L
Unbraced	6917 ft-lb	4'10 3/4"	7832 ft-lb	0.883 (88%)	D+S	L
Shear	2959 lb	1'	7943 lb	0.373 (37%)	D+S	L
LL Defl inch	0.128 (L/873)	4'10 3/4"	0.233 (L/480)	0.550 (55%)	S	L
TL Defl inch	0.260 (L/432)	4'10 3/4"	0.311 (L/360)	0.830 (83%)	D+S	L

# **Design Notes**

- 1 Fasten all plies using 4 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 braced at bearings.
- 5 Bottom braced at bearings.
- 6 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			Far Face	314 PLF	0 PLF	314 PLF	0 PLF	0 PLF	A3
	Self Weight				7 PLF					

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 2/26/2023

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





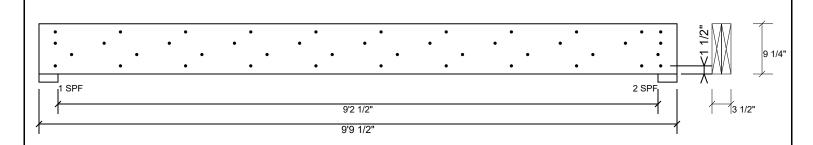
Client: Signature Home Builders

Project: Address: Date: 12/8/2020

Input by: Anthony Williams Job Name: 58 South Creek Project #: J1220-5732 & 5733 Page 10 of 18

1.750" X 9.250" **Kerto-S LVL** 2-Ply - PASSED BM5

Level: Level



# Multi-Ply Analysis

Fasten all plies using 4 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6"

. aston an phos asing	
Capacity	83.4 %
Load	314.0 PLF
Yield Limit per Foot	376.5 PLF
Yield Limit per Fastener	94.1 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	D+S
Duration Factor	1 15

## 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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Manufacturer Info

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Client:

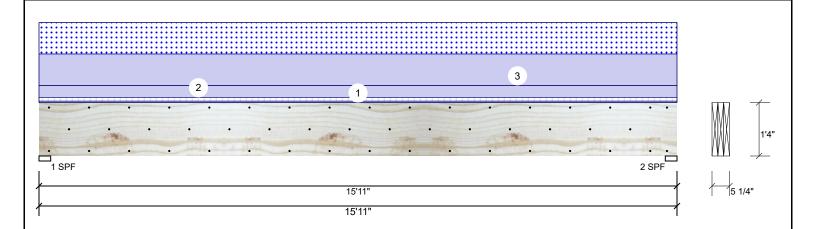
Project: Address: Signature Home Builders

Date: 12/8/2020

Input by: Anthony Williams Job Name: 58 South Creek Project #: J1220-5732 & 5733

## **Kerto-S LVL** 1.750" X 16.000" 3-Ply - PASSED BM6

Level: Level



## **Member Information** Reactions UNPATTERNED Ib (Uplift) Application: Brg Wind Type: Floor Live Dead Snow Const Plies: 3 Design Method: ASD 318 3881 2618 0 0 1 Moisture Condition: Dry **Building Code:** IBC 2012 2 318 3881 2618 0 0 Deflection LL: 480 Load Sharing: Yes Deflection TL: 360 Deck: Not Checked Importance: Normal Temperature: Temp <= 100°F **Bearings** Bearing Length Cap. React D/L lb Total Ld. Case Ld. Comb. 1-SPF 3.500" D+S 3881 / 2618 6499 L

2 - SPF 3.500"

83%

3881 / 2618

6499 L

D+S

## **Analysis Results**

_						
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	24460 ft-lb	7'11 1/2"	62010 ft-lb	0.394 (39%)	D+S	L
Unbraced	24460 ft-lb	7'11 1/2"	24466 ft-lb	1.000 (100%)	D+S	L
Shear	5232 lb	1'6 5/8"	20608 lb	0.254 (25%)	D+S	L
LL Defl inch	0.132 (L/1406)	7'11 9/16"	0.387 (L/480)	0.340 (34%)	S	L
TL Defl inch	0.328 (L/567)	7'11 9/16"	0.516 (L/360)	0.640 (64%)	D+S	L

## **Design Notes**

- 1 Fasten all plies using 3 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 must be laterally braced at a maximum of 7'3" o.c.
- 6 Bottom braced at bearings.
- 7 Lateral slenderness ratio based on single ply width.

	3	1 7								
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	125 PLF	0 PLF	0 PLF	0 PLF	0 PLF	WALL
3	Uniform			Тор	329 PLF	0 PLF	329 PLF	0 PLF	0 PLF	A2
	Self Weight				19 PLF					

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
  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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(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



Page 11 of 18

This design is valid until 2/26/2023

Manufacturer Info

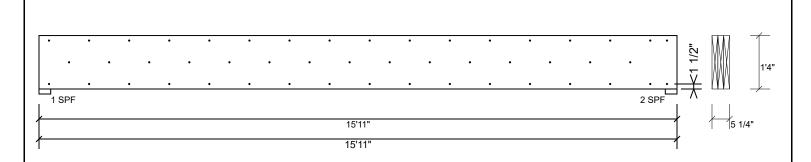
Client: Signature Home Builders

Project: Address: 12/8/2020

Input by: Anthony Williams Job Name: 58 South Creek Project #: J1220-5732 & 5733 Page 12 of 18

1.750" X 16.000" **Kerto-S LVL** 3-Ply - PASSED BM6

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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Manufacturer Info

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





Client:

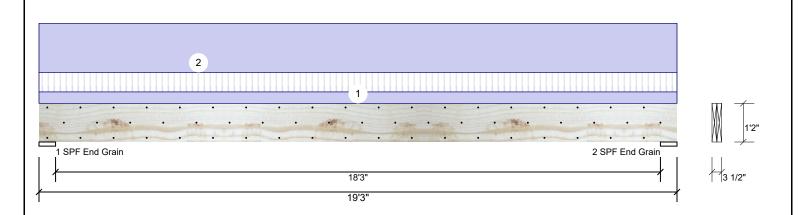
Project: Address: Signature Home Builders

Date: 12/8/2020

Input by: Anthony Williams Job Name: 58 South Creek Project #: J1220-5732 & 5733

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

Level: Level



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 2012 Load Sharing: No Deck: Not Checked

Reactions UNPATTERNED Ib (Uplift)											
Brg	Live	Dead	Snow	Wind	Const						
1	578	1885	0	0	0						
2	578	1885	0	0	0						

Analysis Results												
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case						
Moment	10800 ft-lb	9'7 1/2"	26999 ft-lb	0.400 (40%)	D+L	L						
Unbraced	10800 ft-lb	9'7 1/2"	10812 ft-lb	0.999 (100%)	D+L	L						
Shear	2052 lb	1'7 1/4"	10453 lb	0.196 (20%)	D+L	L						
LL Defl inch	0.102 (L/2160)	9'7 9/16"	0.459 (L/480)	0.220 (22%)	L	L						
TL Defl inch	0.435 (L/506)	9'7 9/16"	0.612 (L/360)	0.710 (71%)	D+L	L						

## **Bearings** Bearing Length Cap. React D/L lb Total Ld. Case Ld. Comb. 1-SPF 6.000" 1885 / 578 2463 L D+L End Grain 2-SPF 6.000" 1885 / 577 2463 L D+L 13% End Grain

## **Design Notes**

- 1 Fasten all plies using 3 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 must be laterally braced at a maximum of 9'11 1/4" o.c.
- 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	35 PLF	60 PLF	0 PLF	0 PLF	0 PLF	F+4
2	Uniform			Тор	150 PLF	0 PLF	0 PLF	0 PLF	0 PLF	WALL
	Self Weight				11 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

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Manufacturer Info

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

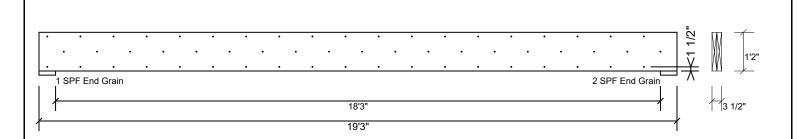
Client: Signature Home Builders

Project: Address: Date: 12/8/2020

Input by: Anthony Williams Job Name: 58 South Creek Project #: J1220-5732 & 5733

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

Level: Level



# 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

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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Page 14 of 18

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

Manufacturer Info

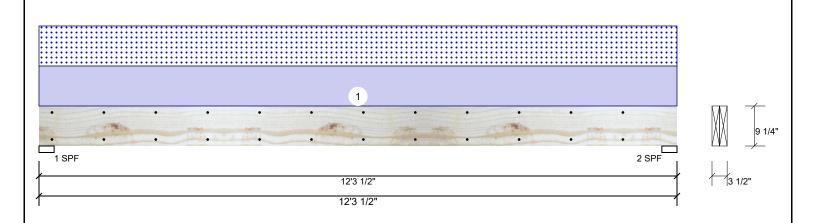


Project: Address: 12/8/2020

Input by: Anthony Williams Job Name: 58 South Creek Project #: J1220-5732 & 5733

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

Level: Level



Member Infor	mation			Reactio	ons UNPAT	TERNED II	(Uplift)			
Type:	Girder	Application:	Floor	Brg	Live	Dead	Snow	W	ind	Const
Plies:	2	Design Method:	ASD	1	0	1058	1014		0	0
Moisture Condition	n: Dry	Building Code:	IBC 2012	2	0	1058	1014		0	0
Deflection LL:	480	Load Sharing:	No							
Deflection TL:	360	Deck:	Not Checked							
Importance:	Normal									
Temperature:	Temp <= 100°F									
				Bearing	gs					
				Bearing	g Length	Cap. Rea	ct D/L lb	Total L	_d. Case	Ld. Comb.
				1 - SPF	3.500"	40% 10	58 / 1014	2072 L	_	D+S
				2_SPF	3 500"	40% 10	58 / 1014	2072 I		D+S

## **Analysis Results**

1	Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
	Moment	5902 ft-lb	6'1 3/4"	14423 ft-lb	0.409 (41%)	D+S	L
	Unbraced	5902 ft-lb	6'1 3/4"	6421 ft-lb	0.919 (92%)	D+S	L
	Shear	1735 lb	11'3 1/2"	7943 lb	0.218 (22%)	D+S	L
	LL Defl inch	0.168 (L/846)	6'1 3/4"	0.296 (L/480)	0.570 (57%)	S	L
	TL Defl inch	0.343 (L/414)	6'1 3/4"	0.394 (L/360)	0.870 (87%)	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.

		3 1 7								
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	165 PLF	0 PLF	165 PLF	0 PLF	0 PLF	P2	
	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

- 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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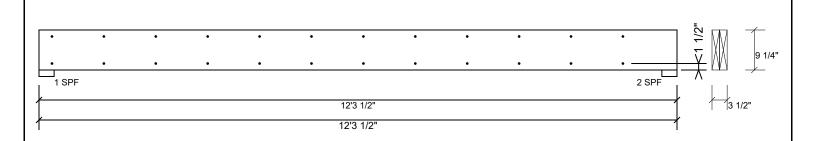
Client: Signature Home Builders

Project: Address: Date: 12/8/2020

Input by: Anthony Williams Job Name: 58 South Creek Project #: J1220-5732 & 5733 Page 16 of 18

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

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

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

- Informing & Installation

  I. VIL 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

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

This design is valid until 2/26/2023

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Manufacturer Info

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CSD DESIGN

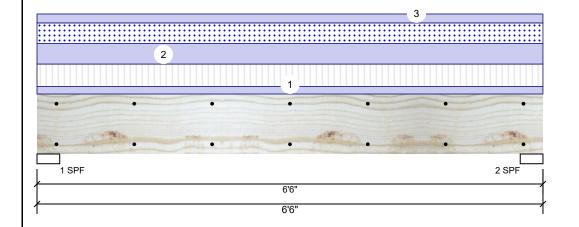


Project: Address: Date: 12/8/2020

Input by: Anthony Williams Job Name: 58 South Creek Project #: J1220-5732 & 5733

1.750" X 9.250" Kerto-S LVL 2-Ply - PASSED **H6** 

Level: Level



Floor

ASD

No

IBC 2012

Not Checked

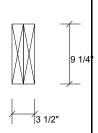
Application:

Design Method:

**Building Code:** 

Load Sharing:

Deck:



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## **Member Information**

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

Temp <= 100°F Temperature:

# Reactions UNPATTERNED Ib (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	1229	2045	1125	0	0
2	1229	2045	1125	0	0

# **Bearings**

Bearing Length	Cap. React D/L lb	Total Ld. Case	Ld. Comb.
1 - SPF 3.500"	73% 2045 / 1765	3810 L	D+0.75(L+S)
2 - SPE 3 500"	73% 2045 / 1765	3810 I	D+0.75(L+S)

## **Analysis Results**

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	5348 ft-lb	3'3"	14423 ft-lb	0.371 (37%)	D+0.75(L+S)	L
Unbraced	5348 ft-lb	3'3"	10533 ft-lb	0.508 (51%)	D+0.75(L+S)	L
Shear	2637 lb	5'6"	7943 lb	0.332 (33%)	D+0.75(L+S)	L
LL Defl inch	0.044 (L/1645)	3'3"	0.151 (L/480)	0.290 (29%)	0.75(L+S)	L
TL Defl inch	0.095 (L/762)	3'3"	0.201 (L/360)	0.470 (47%)	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.

. Lateral element and based on enight pry main										
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	126 PLF	378 PLF	0 PLF	0 PLF	0 PLF	F03
2	Uniform			Тор	346 PLF	0 PLF	346 PLF	0 PLF	0 PLF	A3A
3	Uniform			Тор	150 PLF	0 PLF	0 PLF	0 PLF	0 PLF	WALL
	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

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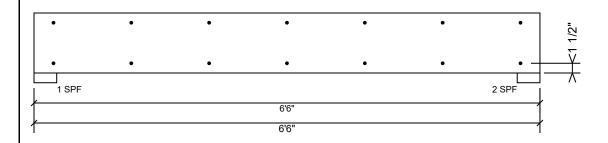
Client: Signature Home Builders

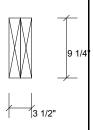
Project: Address: Date: 12/8/2020

Input by: Anthony Williams Job Name: 58 South Creek Project #: J1220-5732 & 5733

1.750" X 9.250" 2-Ply - PASSED Kerto-S LVL **H6** 

Level: Level





Page 18 of 18

# 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

6. For flat roofs provide proper drainage to prevent ponding

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Manufacturer Info

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