

Signature Home Builders

Project:

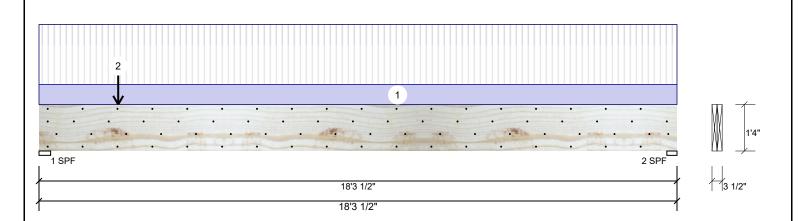
Address: 24 Joel Way Lillington, NC Date: 2/24/2021

Input by: Anthony Williams Job Name: Lot 1 Finley's Crossing Page 1 of 18

Project #: J0221-1077&1078

1.750" X 16.000" **Kerto-S LVL** 2-Ply - PASSED BM₁

Level: Level



Member Info	ember Information				Reactions UNPATTERNED Ib (Uplift)					
Туре:	Girder	Application:	Floor	Brg	Live	Dead	Snow	Win	ıd	Const
Plies:	2	Design Method:	ASD	1	3863	1405	0		0	0
Moisture Condition	on: 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									
				Bearing	js					
				Bearing	Length	Cap. Read	ct D/L lb	Total Ld	l. Case	Ld. Comb.
				1 - SPF	4.000"	89% 140	5 / 3863	5268 L		D+L
				2 - SPE	3 500"	92% 128	89 / 3516	4804 I		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.
- 6 Lateral slenderness ratio based on single ply width

o Latora o	e Eatoral dionadinose ratio based on single ply water.										
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
- IARIGUING & INSTALLATION

 LVL beams must not be cut or drilled

 Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beams trength 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

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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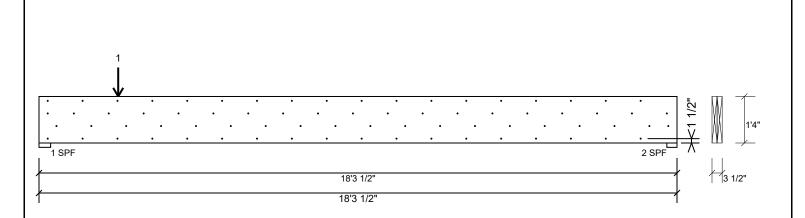
Address: 24 Joel Way Lillington, NC Date: 2/24/2021

Input by: Anthony Williams Page 2 of 18

Job Name: Lot 1 Finley's Crossing Project #: J0221-1077&1078

1.750" X 16.000" **Kerto-S LVL** 2-Ply - PASSED BM₁

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

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Handling & Installation

- Informing & Installation

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BM₂

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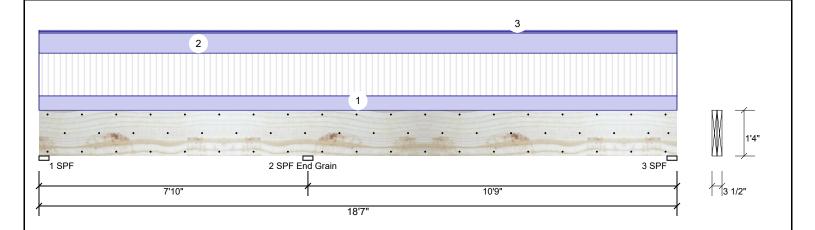
Address: 24 Joel Way Lillington, NC Date: 2/24/2021

Input by: Anthony Williams Job Name: Lot 1 Finley's Crossing Page 3 of 18

Project #: J0221-1077&1078

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

Level: Level



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 2012 Load Sharing: No Deck: Not Checked

Reactions UNPATTERNED Ib (Uplift) Wind Brg Live Dead Snow Const 755 0 859 27 0 1 2 3595 3158 113 0 0 3 1437 1262 45 0 0

Analysis Results Analysis Actual Location Allowed Comb. Case Capacity 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

l	Bearings	5						
	Bearing	Length	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.	
	1 - SPF	3.500"	36%	716 / 1150	1865	L_	D+L	
	2 - SPF End Grain	3.500"	65%	3225 / 3671	6896	LL	D+L	
	3 - SPF	3.500"	52%	1234 / 1496	2730	_L	D+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".

13'4 13/16" 0.351 (L/360) 0.170 (17%) D+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 braced at bearings.
- 6 Bottom braced at bearings.

TL Defl inch 0.061 (L/2084)

7 Lateral slenderness ratio based on single ply width

/ Lateral Sierie	Lateral sicilatiness ratio based on single pry wath.									
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					

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 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
- LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code
- 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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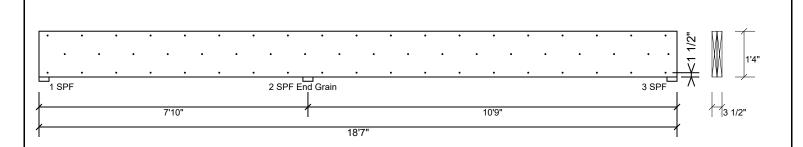
Address: 24 Joel Way Lillington, NC Date: 2/24/2021

Input by: Anthony Williams Page 4 of 18

Job Name: Lot 1 Finley's Crossing Project #: J0221-1077&1078

1.750" X 16.000" **Kerto-S LVL** 2-Ply - PASSED BM₂

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
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 LVL not to be treated with fire retardant or corrosive

Handling & Installation

- Handling & Installation

 1. UVI beams must not be cut or drilled

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

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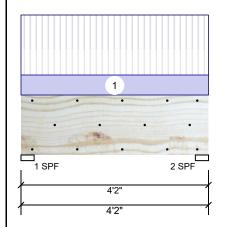
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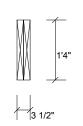
Address: 24 Joel Way Lillington, NC Date: 2/24/2021

Input by: Anthony Williams Job Name: Lot 1 Finley's Crossing

1.750" X 16.000" **Kerto-S LVL** 2-Ply - PASSED BM₃

Project #: J0221-1077&1078 Level: Level





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Member Information Reactions UNPATTERNED Ib (Uplift) Application: Brg Dead Snow Wind Type: Floor Live Const Plies: 2 Design Method: ASD 763 280 0 0 0 1 Moisture Condition: 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 Temp <= 100°F Temperature: **Bearings** Bearing Length Cap. React D/L lb Total Ld. Case Ld. Comb. 1-SPF 3.500" 1043 L D+L 20% 280 / 763 2 - SPF 3.500" 20% 280 / 763 1043 L D+I

Analysis Results

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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

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- 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.

e Lateral dienaemiese ratio based on emigio pry wiatin.											
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						

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 LVL not to be treated with fire retardant or corrosive

Handling & Installation

- LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals Damaged Beams must not be used
- Design assumes top edge is laterally restrained
 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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24 Joel Way Lillington, NC

Date: 2/24/2021

Input by: Anthony Williams

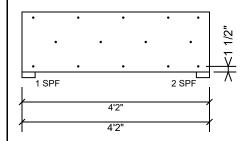
Job Name: Lot 1 Finley's Crossing Project #: J0221-1077&1078

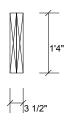
Kerto-S LVL BM₃

1.750" X 16.000"

2-Ply - PASSED

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
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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

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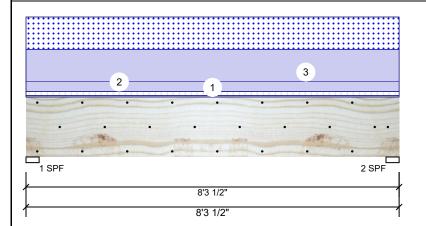
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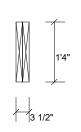
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Input by: Anthony Williams Job Name: Lot 1 Finley's Crossing Project #: J0221-1077&1078

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 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	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
0 005 0500	000/ 4000 / 4004	0050 1	D. 0

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

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- 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 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	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						

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Handling & Installation

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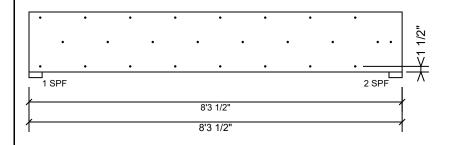
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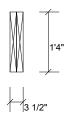
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1.750" X 16.000" **Kerto-S LVL** 2-Ply - PASSED BM4

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"

or roa box rians (. 120x5) at
0.0 %
0.0 PLF
245.6 PLF
81.9 lb.
IV
1 1/2"
3"
1.00

Notes

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Handling & Installation

- Handling & Installation

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BM₅

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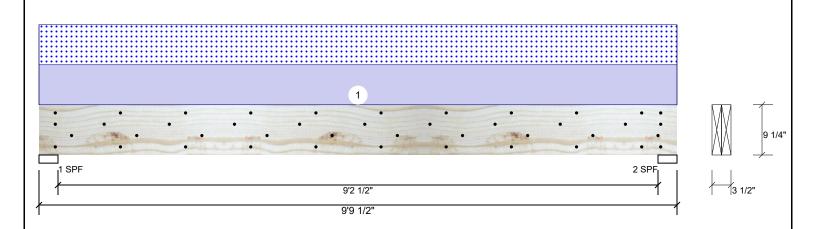
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Kerto-S LVL 1.750" X 9.250" 2-Ply - PASSED

Level: Level



Member Information Reactions UNPATTERNED Ib (Uplift) Application: Brg Live Wind Const Type: Floor Dead Snow Plies: 2 Design Method: ASD 0 1573 1537 0 0 1 Moisture Condition: 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 Temp <= 100°F Temperature: **Bearings** Bearing Length Cap. React D/L lb Total Ld. Case Ld. Comb. 1-SPF 3.500" D+S 1573 / 1537 3110 L 2 - SPF 3.500" 60% 1573 / 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					

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 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:

Signature Home Builders

Project:

Address: 24 Joel Way Lillington, NC Date: 2/24/2021

Input by: Anthony Williams Page 10 of 18

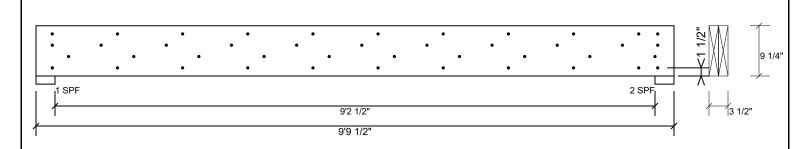
Job Name: Lot 1 Finley's Crossing Project #: J0221-1077&1078

Kerto-S LVL BM5

1.750" X 9.250"

2-Ply - PASSED

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	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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This design is valid until 11/13/2022



Signature Home Builders

Project: Address:

24 Joel Way Lillington, NC

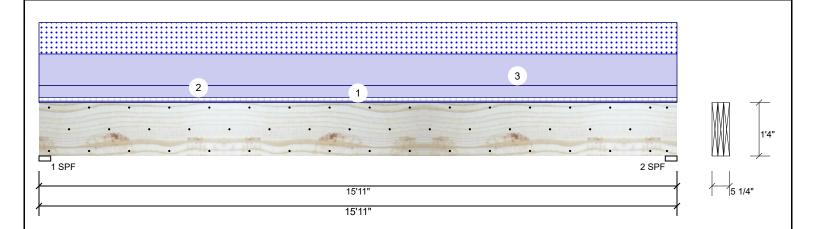
Date: 2/24/2021

Input by: Anthony Williams Job Name: Lot 1 Finley's Crossing Page 11 of 18

Project #: J0221-1077&1078

Kerto-S LVL 3-Ply - PASSED 1.750" X 16.000" 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.

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

Version 19.80.203 Powered by iStruct™

- 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

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

Manufacturer Info

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Client:

Signature Home Builders

Project:

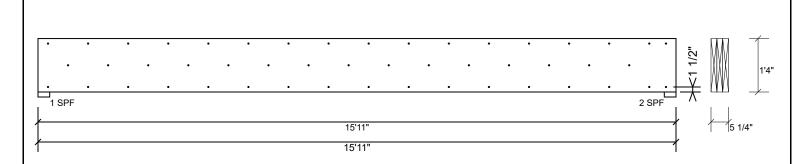
Address: 24 Joel Way Lillington, NC 2/24/2021

Input by: Anthony Williams Page 12 of 18

Job Name: Lot 1 Finley's Crossing Project #: J0221-1077&1078

Kerto-S LVL 1.750" X 16.000" 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

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GDH

Kerto-S LVL

Client:

Signature Home Builders

Project:

Address: 24 Joel Way Lillington, NC Date: 2/24/2021

Project #:

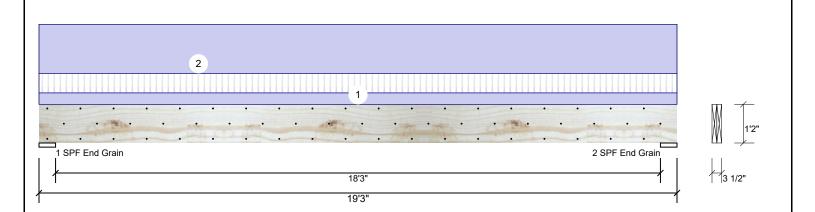
Input by: Anthony Williams Job Name: Lot 1 Finley's Crossing

J0221-1077&1078

Page 13 of 18

2-Ply - PASSED 1.750" X 14.000"

Level: Level



Bearings

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				

Bearing Length Cap. React D/L lb Total Ld. Case Ld. Comb. 1-SPF 6.000" 1885 / 578 2463 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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This design is valid until 11/13/2022 CSD DESIGN

GDH

Kerto-S LVL

Client: Project: Address:

Signature Home Builders

24 Joel Way Lillington, NC

Date: 2/24/2021

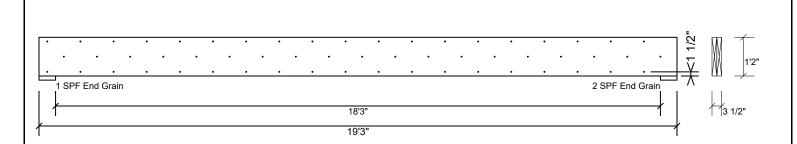
Input by: Anthony Williams Job Name: Lot 1 Finley's Crossing

J0221-1077&1078

Page 14 of 18

Project #: 1.750" X 14.000" 2-Ply - PASSED

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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Manufacturer Info

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Project:

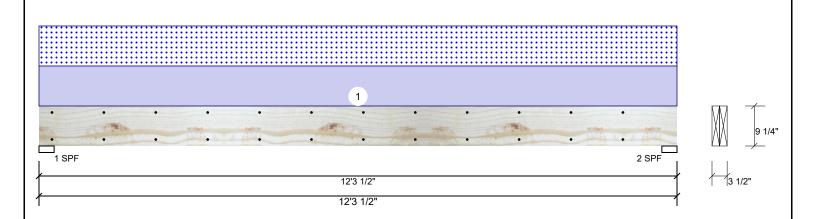
Address: 24 Joel Way Lillington, NC 2/24/2021

Input by: Anthony Williams Job Name: Lot 1 Finley's Crossing Page 15 of 18

Project #: J0221-1077&1078

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

Level: Level



Member Info	rmation			Reactions UNPATTERNED Ib (Uplift)					
Type:	Girder	Application:	Floor	Brg	Live	Dead	Snow	Wind	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 Ld. Case	Ld. Comb.
				1 - SPF	3.500"	40% 10	58 / 1014	2072 L	D+S
				2 - SPF	3.500"	40% 10	58 / 1014	2072 L	D+S

Analysis Results

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

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

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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Client: Project: Address:

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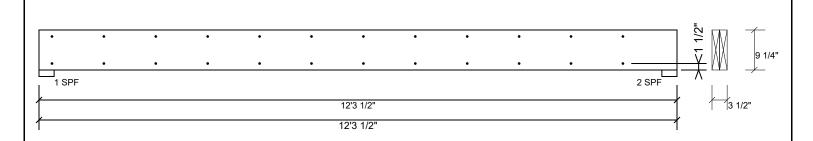
Date: 2/24/2021 Input by: Anthony Williams

Job Name: Lot 1 Finley's Crossing Project #: J0221-1077&1078

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BPB Kerto-S LVL 1.750" X 9.250" 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

- 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:

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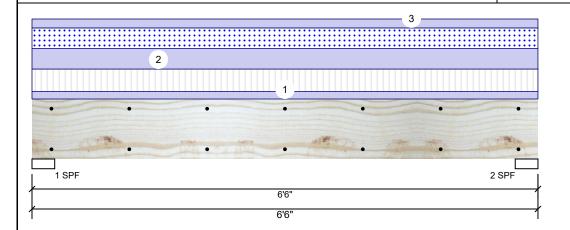
Date: 2/24/2021

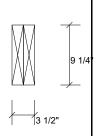
Input by: Anthony Williams

Job Name: Lot 1 Finley's Crossing Project #: J0221-1077&1078

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

Level: Level





Page 17 of 18

Member Information

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

Application: Design Method: ASD **Building Code:** IBC 2012

Load Sharing: No Not Checked

Deck:

Reactions UNPATTERNED Ib (Uplift)

В	rg l	Live [Dead	Snow	Wind	Const
	1 1	1229	2045	1125	0	0
	2 1	1229	2045	1125	0	0

Bearings

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

/ Laterai	sienderness ratio based on	single ply width.									
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments	
1	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

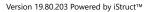
- LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals Damaged Beams must not be used
- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation
- 6. For flat roofs provide proper drainage to prevent ponding

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Manufacturer Info

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Signature Home Builders

Project:

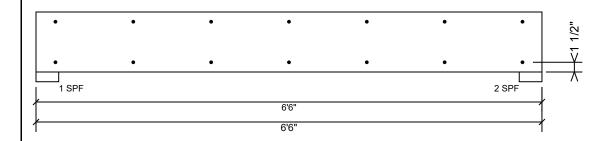
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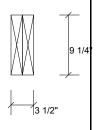
Input by: Anthony Williams

Job Name: Lot 1 Finley's Crossing Project #: J0221-1077&1078

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

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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Manufacturer Info

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