

Signature Home Builders

Project: Address: Date: 3/27/2024

Bearing Length

1-SPF 3.500"

2 - SPF 3.500"

End Grain

End Grain Dir.

Vert

Vert

Cap. React D/L lb

54% 2452 / 3132

3134 / 3064

Input by: Anthony Williams Job Name: 6085 Cool Springs Rd Page 1 of 10

Const

Ld. Comb.

D+L

D+0.75(L+S)

0

0

Total Ld. Case

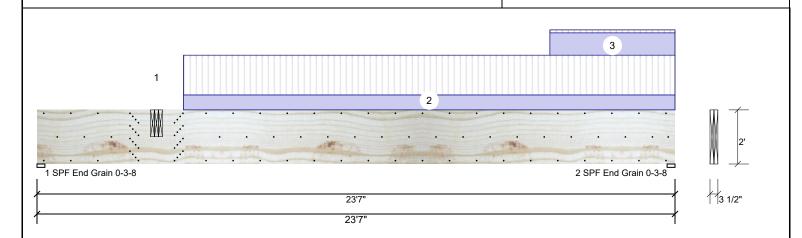
6198 L

5584 L

Project #: J0324-1345

1.750" X 24.000" **Kerto-S LVL** 2-Ply - PASSED BM₁

Level: Level



Member In	nformation		Reactions UNPATTERNED Ib (Uplift)									
Type:	Girder	Application:	Floor	Brg	Direction	Live	Dead	Snow	Wind			
Plies:	2	Design Method:	ASD	1	Vertical	2094	3134	1991	0			
Moisture Cor	ndition: Dry	Building Code:	IBC/IRC 2015	2	Vertical	3132	2452	441	0			
Deflection LL	.: 480	Load Sharing:	No									
Deflection TL	.: 360	Deck:	Not Checked									
Importance:	Normal - II											
Temperature	: Temp <= 100°F											
	•			Bea	rings							

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	30390 ft-lb	11'2 1/16"	73185 ft-lb	0.415 (42%)	D+L	L
Unbraced	30390 ft-lb	11'2 1/16"	30490 ft-lb	0.997 (100%)	D+L	L
Shear	6192 lb	2'3 1/2"	20608 lb	0.300 (30%)	D+0.75(L+S)	L
LL Defl inch	0.224 (L/1240)	11'5 5/16"	0.579 (L/480)	0.387 (39%)	0.75(L+S)	L
TL Defl inch	0.415 (L/669)	11'3 13/16"	0.772 (L/360)	0.538 (54%)	D+0.75(L+S)	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Concentrated load fastener specification is in addition to hanger fasteners if a hanger is present.

5 Girders are de	esigned to be supported on t	the bottom ed	lge only.							
6 Top loads mus	st be supported equally by a	ıll plies.			- 1					
7 Top must be la	aterally braced at a maximu	m of 5'10" o.c	<i>;</i> .							
8 Bottom must b	be laterally braced at end be									
9 Lateral slende	erness ratio based on single									
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Point	4-5-0		Far Face	2630 lb	273 lb	2433 lb	0 lb	0 lb	BM2 Brg 2
2	Tie-In	5-5-0 to 23-7-0	6-8-4	Тор	15 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
3	Part. Uniform	18-11-8 to 23-7-0		Тор	150 PLF	20 PLF	0 PLF	0 PLF	0 PLF	ROOF & WALL
	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

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

Handling & Installation

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

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

This design is valid until 6/28/2026

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



Client: Project: Address: Signature Home Builders

3/27/2024 Input by: Anthony Williams

Job Name: 6085 Cool Springs Rd

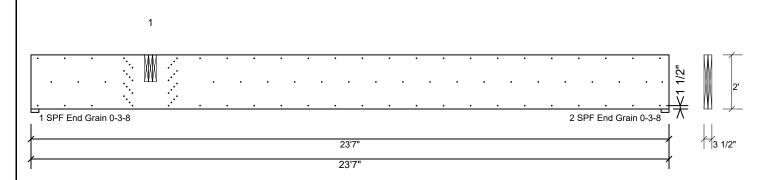
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Project #: J0324-1345

Kerto-S LVL BM₁

1.750" X 24.000" 2-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. except for regions covered by concentrated load fastening. Maximum end distance not to exceed 6".

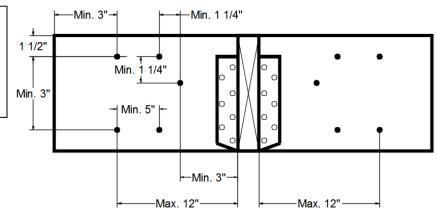
Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	245.6 PLF
Yield Limit per Fastener	81.9 lb.
См	1
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Concentrated Load

Fasten at concentrated side load at 4-5-0 with a minimum of (32) - 10d Box nails (.128x3") in the pattern shown.

parte		
Capacity	84.1 %	
Load	2531.3lb.	
Total Yield Limit	3010.4 lb.	
Cg	0.9994	
Cg Cm	1	
Yield Limit per Fastener	94.1 lb.	
Yield Mode	IV	
Load Combination	D+S	
Duration Factor	1.15	

Min/Max fastener distances for Concentrated Side Loads



Notes

NOtes

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

Handling & Installation

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

Design assumes top edge is laterally restrained
Provide lateral support at bearing points to avoid
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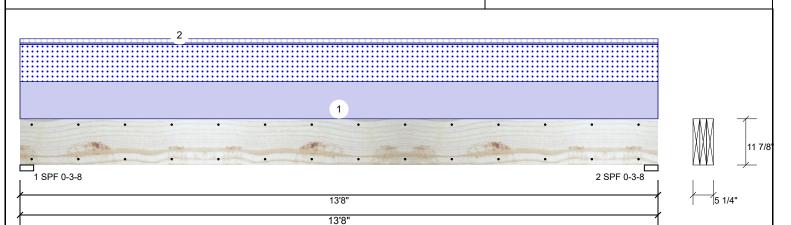
Project: Address: Signature Home Builders

Date: 3/27/2024

Input by: Anthony Williams Job Name: 6085 Cool Springs Rd Page 3 of 10

Project #: J0324-1345 evel: Level

1.750" X 11.875" 3-Ply - PASSED **Kerto-S LVL** BM₂



Member Information Reactions UNPATTERNED Ib (Uplift) Application: Wind Type: Floor Brg Direction Live Dead Snow Const Plies: 3 Design Method: ASD 273 2630 2433 0 Vertical 0 1 Moisture Condition: Dry **Building Code: IBC/IRC 2015** 2 Vertical 273 2630 2433 0 0 Deflection LL: 480 Load Sharing: Yes Deflection TL: 360 Deck: Not Checked Importance: Normal - II Temperature: Temp <= 100°F **Bearings** Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 1-SPF 3.500" D+S Vert 2630 / 2433 5063 L 3.500"

2 - SPF

Vert

65%

2630 / 2433

5063 L

D+S

Analysis Results

•						
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	16156 ft-lb	6'10"	35719 ft-lb	0.452 (45%)	D+S	L
Unbraced	16156 ft-lb	6'10"	16165 ft-lb	0.999 (100%)	D+S	L
Shear	4127 lb	12'4 5/8"	15295 lb	0.270 (27%)	D+S	L
LL Defl inch	0.181 (L/877)	6'10"	0.330 (L/480)	0.547 (55%)	S	L
TL Defl inch	0.376 (L/421)	6'10"	0.440 (L/360)	0.854 (85%)	D+S	L

Design Notes

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

o zatoral cicinacinico ratio bacca circingio pi) matri												
	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	356 PLF	0 PLF	356 PLF	0 PLF	0 PLF	C4	
	2	Uniform			Тор	15 PLF	40 PLF	0 PLF	0 PLF	0 PLF	FLOOR	
		Self Weight				14 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

This design is valid until 6/28/2026

Manufacturer Info Metsä Wood

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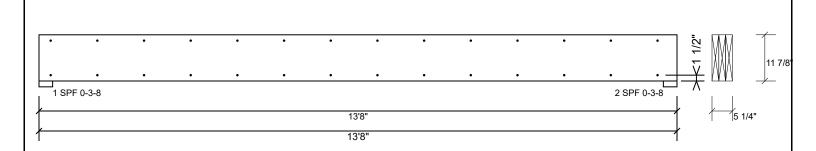
Project: Address: 3/27/2024

Input by: Anthony Williams Job Name: 6085 Cool Springs Rd Page 4 of 10

Project #: J0324-1345

1.750" X 11.875" **Kerto-S LVL** 3-Ply - PASSED BM₂

evel: Level



Multi-Ply Analysis

Fasten all plies using 2 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	163.7 PLF	
Yield Limit per Fastener	81.9 lb.	
См	1	
Yield Mode	IV	
Edge Distance	1 1/2"	
Min. End Distance	3"	
Load Combination		
Duration Factor	1 00	

NOtes

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

- Handling & Installation
- Infoculing & 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 6/28/2026

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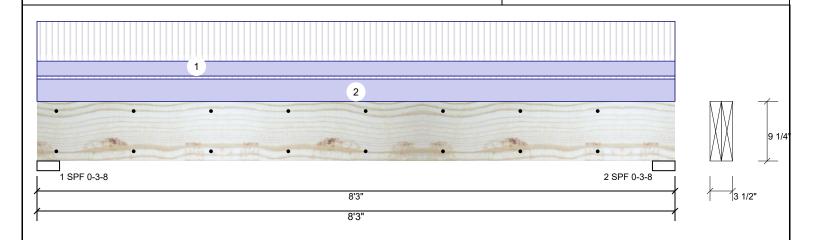
Date: 3/27/2024

Input by: Anthony Williams Job Name: 6085 Cool Springs Rd Page 5 of 10

Project #: J0324-1345

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

Level: Level



Member Info	rmation			Read	Reactions UNPATTERNED lb (Uplift)							
Type:	Girder	Application:	Floor	Brg	Direction	Live	Dead	Snow	Wind	Const		
Plies:	2	Design Method:	ASD	1	Vertical	1183	1061	0	0	0		
Moisture Condition	on: Dry	Building Code:	IBC/IRC 2015	2	Vertical	1183	1061	0	0	0		
Deflection LL:	480	Load Sharing:	No									
Deflection TL:	360	Deck:	Not Checked									
Importance:	Normal - II											
Temperature:	Temp <= 100°F											
				Bear	rings							
				Bea	aring Length	Dir.	Cap. React D/L lt	Total	Ld. Case	Ld. Comb.		
				1-	SPF 3.500"	Vert	43% 1061 / 1183	3 2243	L	D+L		
					SPF 3.500"	Vert	43% 1061 / 1183	3 2243	L	D+L		

Analysis Results

ĺ	Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
	Moment	4127 ft-lb	4'1 1/2"	12542 ft-lb	0.329 (33%)	D+L	L
	Unbraced	4127 ft-lb	4'1 1/2"	8701 ft-lb	0.474 (47%)	D+L	L
	Shear	1671 lb	7'2 1/4"	6907 lb	0.242 (24%)	D+L	L
	LL Defl inch	0.059 (L/1579)	4'1 9/16"	0.195 (L/480)	0.304 (30%)	L	L
	TL Defl inch	0.112 (L/832)	4'1 9/16"	0.260 (L/360)	0.433 (43%)	D+L	L

Design Notes

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

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments	
1	Tie-In	0-0-0 to 8-3-0	6-8-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	0 PSF	FLOOR	
2	Uniform			Тор	150 PLF	20 PLF	0 PLF	0 PLF	0 PLF	ROOF & WALL	
	Self Weight				7 PLF						

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

Handling & Installation

- I. 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

This design is valid until 6/28/2026

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

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Client: Signature Home Builders

Project: Address:

Date: 3/27/2024

Input by: Anthony Williams Job Name: 6085 Cool Springs Rd Page 6 of 10

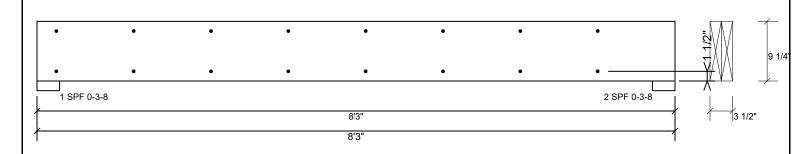
Project #: J0324-1345

Kerto-S LVL BM3

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.	
См	1	
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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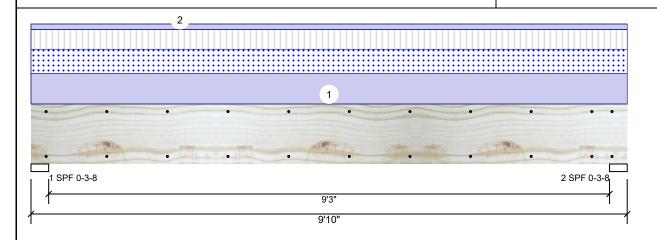
Project: Address: Signature Home Builders Date: 3/27/2024

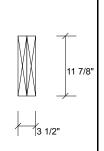
Input by: Anthony Williams Job Name: 6085 Cool Springs Rd

Project #: J0324-1345

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

Level: Level





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Member Information

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

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

Reactions UNPATTERNED Ib (Uplift) Brg Direction Live Wind Dead Snow Const 1092 2027 1323 0 Vertical 0 1 2 Vertical 1092 2027 1323 0 0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	74%	2027 / 1811	3837	L	D+0.75(L+S)
2 - SPF	3.500"	Vert	74%	2027 / 1811	3837	L	D+0.75(L+S)

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	8575 ft-lb	4'11"	22897 ft-lb	0.374 (37%)	D+0.75(L+S)	L
Unbraced	8575 ft-lb	4'11"	9857 ft-lb	0.870 (87%)	D+0.75(L+S)	L
Shear	2847 lb	1'3 3/8"	10197 lb	0.279 (28%)	D+0.75(L+S)	L
LL Defl inch	0.077 (L/1466)	4'11"	0.234 (L/480)	0.327 (33%)	0.75(L+S)	L
TL Defl inch	0.163 (L/692)	4'11"	0.312 (L/360)	0.520 (52%)	D+0.75(L+S)	L

Design Notes

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

		·g p.)									
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	343 PLF	222 PLF	269 PLF	0 PLF	0 PLF	C3 R+F	
2	Uniform			Тор	60 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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Project: Address:

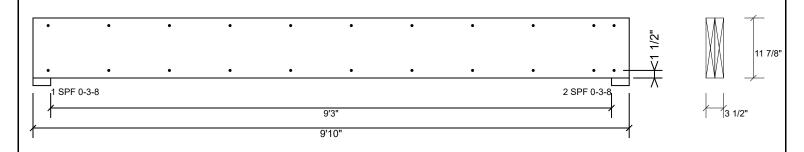
Date: 3/27/2024

Input by: Anthony Williams Job Name: 6085 Cool Springs Rd Page 8 of 10

Project #: J0324-1345

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

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.	
См	1	
Yield Mode	IV	
Edge Distance	1 1/2"	
Min. End Distance	3"	
Load Combination		
Duration Factor	1.00	

Notes

NOtes

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

Handling & Installation

- Handling & Installation

 1. UVI beams must not be cut or drilled

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

 3. Damaged Beams must not be used

 4. Design assumes top edge is laterally restrained

 5. Provide lateral support at bearing points to avoid lateral displacement and rotation
- For flat roofs provide proper drainage to prevent ponding

This design is valid until 6/28/2026

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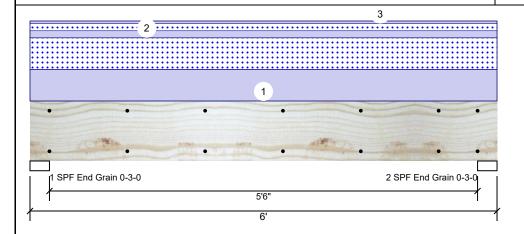
Project: Address: Signature Home Builders Date:

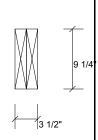
3/27/2024 Input by: Anthony Williams Job Name: 6085 Cool Springs Rd

Project #: J0324-1345

1.750" X 9.250" **Kerto-S LVL** 2-Ply - PASSED HDR-1

Level: Level





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Member Information

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

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

Reactions UNPATTERNED lb (Uplift)										
	Brg	Direction	Live	Dead	Snow	Wind	Const			
	1	Vertical	0	1381	1269	0	0			
	2	Vertical	0	1381	1269	0	0			

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3493 ft-lb	3'	14423 ft-lb	0.242 (24%)	D+S	L
Unbraced	3493 ft-lb	3'	10944 ft-lb	0.319 (32%)	D+S	L
Shear	1754 lb	1' 1/4"	7943 lb	0.221 (22%)	D+S	L
LL Defl inch	0.027 (L/2538)	3'	0.141 (L/480)	0.189 (19%)	S	L
TL Defl inch	0.056 (L/1216)	3'	0.188 (L/360)	0.296 (30%)	D+S	L

Bearings

Bearing	Length	Dir.	Cap. F	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	Vert	30%	1381 / 1269	2650	L	D+S
2 - SPF End Grain	3.000"	Vert	30%	1381 / 1269	2650	L	D+S

Design Notes

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

o Editoria sicriderness ratio based on single pry width.											
	ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
	1	Uniform			Тор	346 PLF	0 PLF	346 PLF	0 PLF	0 PLF	"A" TRUSSES
	2	Uniform			Тор	77 PLF	0 PLF	77 PLF	0 PLF	0 PLF	"H" TRUSSES
	3	Uniform			Тор	30 PLF	0 PLF	0 PLF	0 PLF	0 PLF	WALL
		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.

Lumber

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

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

This design is valid until 6/28/2026

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1.	Dry	service	CC	nditions,	unle	ess	noted	othe	erw	ise
2	LVI	not to	he	treated:	with	fire	retard	lant	or	cor



Client: Signature Home Builders

Project: Address: Date: Input by: 3/27/2024

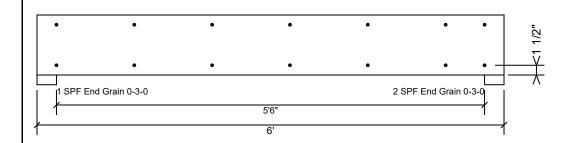
Anthony Williams

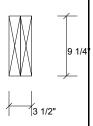
Job Name: 6085 Cool Springs Rd Project #: J0324-1345 Level: Level

Kerto-S LVL HDR-1

1.750" X 9.250"

2-Ply - PASSED





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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.
CM	1
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 6/28/2026

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