

Client: Project: Address:

Signature Homes

239 Ravens Row Drive Benson, NC

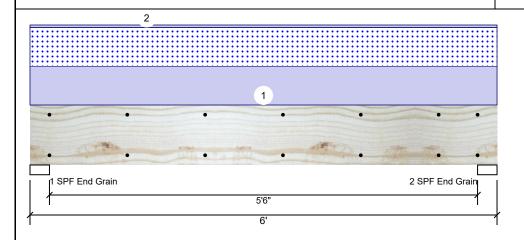
27504

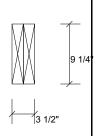
Date: 8/31/2020 Input by:

Anthony Williams Job Name: Lot 2 Finley's Crossing

Project #: J0820-4006

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





Page 1 of 10

Member Information

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

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

Reaction	is UNPAT	TERNED IL	(Uplift)		
Brg	Live	Dead	Snow	Wind	Const
1	0	1498	1386	0	0
2	0	1498	1386	0	0

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3802 ft-lb	3'	14423 ft-lb	0.264 (26%)	D+S	L
Unbraced	3802 ft-lb	3'	10944 ft-lb	0.347 (35%)	D+S	L
Shear	1962 lb	5' 1/2"	7943 lb	0.247 (25%)	D+S	L
LL Defl inch	0.029 (L/2324)	3'	0.141 (L/480)	0.210 (21%)	S	L
TL Defl inch	0.060 (L/1117)	3'	0.188 (L/360)	0.320 (32%)	D+S	L

Bearings

Bearing L	_ength	Cap. F	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF 3 End Grain	3.000"	32%	1498 / 1386	2884	L	D+S
2 - SPF 3 End Grain	3.000"	32%	1498 / 1386	2884	L	D+S

Design Notes

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

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Тор	462 PLF	0 PLF	462 PLF	0 PLF	0 PLF	B2 TRUSS
2	Uniform			Тор	30 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

This design is valid until 2/26/2023

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



CSD DESIGN

Client:

Signature Homes

Project:

Address: 239 Ravens Row Drive Benson, NC

27504

Date: 8/31/2020 Input by:

Anthony Williams Job Name: Lot 2 Finley's Crossing

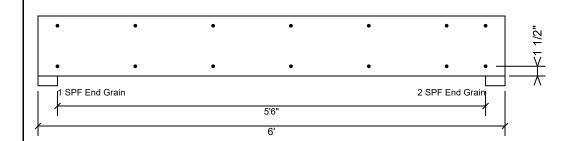
J0820-4006

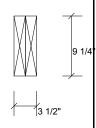
Project #:

Kerto-S LVL HDR-2

1.750" X 9.250"

Level: Level 2-Ply - PASSED





Page 2 of 10

Multi-Ply Analysis

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

1 3	,
Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	163.7 PLF
Yield Limit per Fastener	81.9 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

NOtes
Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

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

Handling & Installation

- 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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Manufacturer Info

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



CSD DESIGN



HDR-1

Client:

Project: Address: Signature Homes

239 Ravens Row Drive Benson, NC

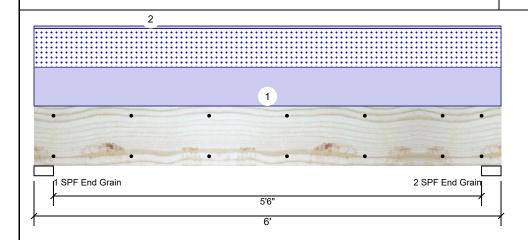
Date: 8/31/2020

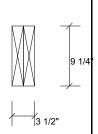
Input by: Anthony Williams Job Name: Lot 2 Finley's Crossing

Project #: J0820-4006

27504 **Kerto-S LVL** 1.750" X 9.250" 2-Ply - PASSED

Level: Level





Page 3 of 10

Member Information

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

Temperature: Temp <= 100°F

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

Reactions UNPATTERNED Ib (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	0	1576	1464	0	0
2	0	1576	1464	0	0

Bearings

1 - SPF 3.000" 33% 1576 / 1464 3040 L D+S End Grain 2 - SPF 3.000" 33% 1576 / 1464 3040 L D+S End	l	Bearing	Length	Cap. F	React D/L lb	Total	Ld. Case	Ld. Comb.
2 - SPF 3.000" 33% 1576 / 1464 3040 L D+S End	ļ	End	3.000"	33%	1576 / 1464	3040	L	D+S
		2 - SPF	3.000"	33%	1576 / 1464	3040	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4007 ft-lb	3'	14423 ft-lb	0.278 (28%)	D+S	L
Unbraced	4007 ft-lb	3'	10944 ft-lb	0.366 (37%)	D+S	L
Shear	2069 lb	11 1/2"	7943 lb	0.260 (26%)	D+S	L
LL Defl inch	0.031 (L/2200)	3'	0.141 (L/480)	0.220 (22%)	S	L
TL Defl inch	0.064 (L/1060)	3'	0.188 (L/360)	0.340 (34%)	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.

ĺ	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	488 PLF	0 PLF	488 PLF	0 PLF	0 PLF	B2 TRUSS
	2	Uniform			Тор	30 PLF	0 PLF	0 PLF	0 PLF	0 PLF	WALL
l		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
- 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
 - This design is valid until 2/26/2023
- 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 Homes

Project: Address:

27504

239 Ravens Row Drive Benson, NC

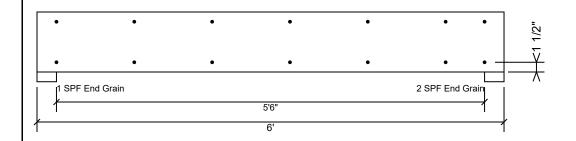
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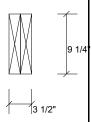
Input by: Anthony Williams Job Name: Lot 2 Finley's Crossing

Project #: J0820-4006

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

Level: Level





Page 4 of 10

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"

rasterrain pries asing E	TOWS OF TOO BOX Halls (.TEOXS) at
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

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



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



Client:

Project: Address: Signature Homes

27504

239 Ravens Row Drive Benson, NC

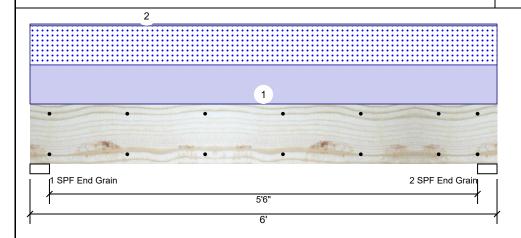
Date: 8/31/2020 Input by:

Anthony Williams Job Name: Lot 2 Finley's Crossing

Project #: J0820-4006

Kerto-S LVL HDR-3 1.750" X 9.250" 2-Ply - PASSED

Level: Level



Application:

Design Method:

Building Code:

Load Sharing:

Deck:

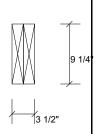
Floor

ASD

No

IBC/IRC 2015

Not Checked



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Member Information

Type:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	480
Deflection TL:	360
Importance:	Normal
Tomporatura	Tomp <=

Temperature: Temp <= 100°F

Reactions UNPATTERNED Ib (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	0	2044	1932	0	0
2	0	2044	1932	0	0

Bearings

Grain

l	Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
ļ	1 - SPF End Grain	3.000"	44%	2044 / 1932	3976	L	D+S
	2 - SPF End	3.000"	44%	2044 / 1932	3976	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	5241 ft-lb	3'	14423 ft-lb	0.363 (36%)	D+S	L
Unbraced	5241 ft-lb	3'	10944 ft-lb	0.479 (48%)	D+S	L
Shear	2706 lb	11 1/2"	7943 lb	0.341 (34%)	D+S	L
LL Defl inch	0.040 (L/1667)	3'	0.141 (L/480)	0.290 (29%)	S	L
TL Defl inch	0.083 (L/810)	3'	0.188 (L/360)	0.440 (44%)	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	644 PLF	0 PLF	644 PLF	0 PLF	0 PLF	A2 TRUSS
2	Uniform			Тор	30 PLF	0 PLF	0 PLF	0 PLF	0 PLF	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

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

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

Manufacturer Info

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



This design is valid until 2/26/2023





HDR-3

Kerto-S LVL

Client:

Signature Homes

Project: Address:

239 Ravens Row Drive Benson, NC

27504

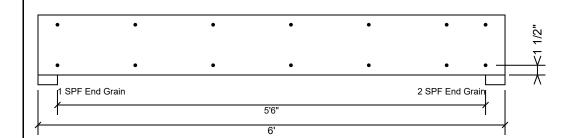
Date: 8/31/2020

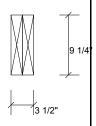
Input by: Anthony Williams

Job Name: Lot 2 Finley's Crossing Project #: J0820-4006

2-Ply - PASSED 1.750" X 9.250"

Level: Level





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Multi-Ply Analysis

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

1 3	,
Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	163.7 PLF
Yield Limit per Fastener	81.9 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

NOtes
Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

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

Handling & Installation

- 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

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



This design is valid until 2/26/2023



Client:

Signature Homes

Project:

Address: 239 Ravens Row Drive Benson, NC

27504

Date: 8/31/2020 Input by:

Anthony Williams Job Name: Lot 2 Finley's Crossing Page 7 of 10

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D+0.75(L+S)

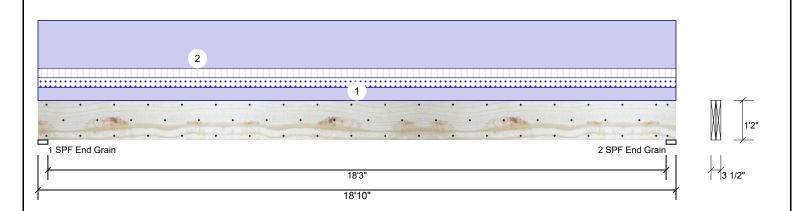
Project #: J0820-4006

Kerto-S LVL GDH-18

1.750" X 14.000"

2-Ply - PASSED

Level: Level



Member Information Reactions UNPATTERNED Ib (Uplift) Application: Wind Type: Floor Brg Live Dead Snow Const Plies: 2 Design Method: ASD 377 2504 377 0 1 Moisture Condition: Dry **Building Code: IBC/IRC 2015** 2 377 2504 377 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 3.500" D+0.75(L+S) 2504 / 565 3069 L

End Grain

End Grain

2 - SPF 3.500"

Analysis Results

•						
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	12910 ft-lb	9'5"	26999 ft-lb	0.478 (48%)	D+L	L
Unbraced	13754 ft-lb	9'5"	13758 ft-lb	1.000 (100%)	D+0.75(L+S)	L
Shear	2453 lb	1'4 3/4"	10453 lb	0.235 (23%)	D+L	L
LL Defl inch	0.102 (L/2160)	9'5 1/16"	0.459 (L/480)	0.220 (22%)	0.75(L+S)	L
TL Defl inch	0.555 (L/398)	9'5 1/16"	0.612 (L/360)	0.910 (91%)	D+0.75(L+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 7'5 5/8" 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	55 PLF	40 PLF	40 PLF	0 PLF	0 PLF	R + F
2	Uniform			Тор	200 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

This design is valid until 2/26/2023

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

Manufacturer Info

2504 / 565

3069 L

29%

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





Client: Project: Address:

Signature Homes

239 Ravens Row Drive Benson, NC 27504

Date: Input by:

8/31/2020 Anthony Williams Page 8 of 10

Job Name: Lot 2 Finley's Crossing J0820-4006

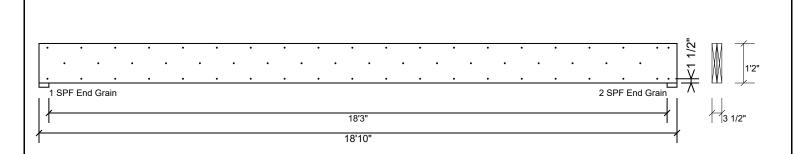
Project #:

Kerto-S LVL GDH-18

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

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

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



This design is valid until 2/26/2023

Manufacturer Info



Client:

Signature Homes

Project:

Address: 239 Ravens Row Drive Benson, NC

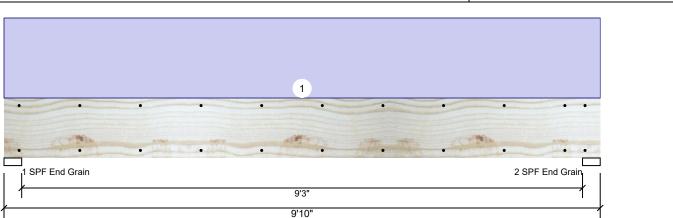
Date: 8/31/2020 Input by:

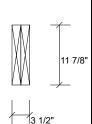
Anthony Williams Job Name: Lot 2 Finley's Crossing

Project #: J0820-4006

Level: Level

2-Ply - PASSED GDH-9 **Kerto-S LVL** 1.750" X 11.875"





Page 9 of 10

wember	intormation
Type:	Girder

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

Temperature: Temp <= 100°F

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

Reactions UNPATTERNED Ib (Uplift) Brg Live Dead Snow Wind Const 0 517 0 0 0 1 0 2 0 517 0 0

Bearings

Bearing Length	Cap. Re	eact D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF 3.500" End Grain	5%	517 / 0	517	Uniform	D
2 - SPF 3.500" End Grain	5%	517 / 0	517	Uniform	D

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1156 ft-lb	4'11"	17919 ft-lb	0.065 (6%)	D	Uniform
Unbraced	1156 ft-lb	4'11"	9664 ft-lb	0.120 (12%)	D	Uniform
Shear	389 lb	8'7 3/8"	7980 lb	0.049 (5%)	D	Uniform
LL Defl inch	0.000 (L/999)	0	999.000 (L/0)	0.000 (0%)		
TL Defl inch	0.022 (L/5130)	4'11"	0.312 (L/360)	0.070 (7%)	D	Uniform

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	96 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall	

Self Weight 9 PLF

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

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

Handling & Installation

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

For flat roofs provide proper drainage to prevent ponding

This design is valid until 2/26/2023

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: Project: Address:

Signature Homes

239 Ravens Row Drive Benson, NC

Date: 8/31/2020 Input by:

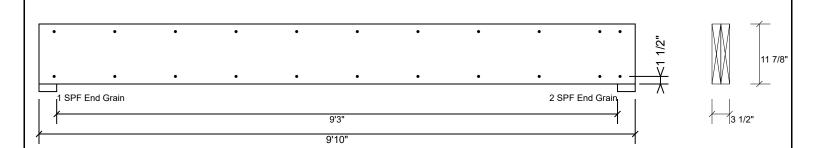
Anthony Williams Job Name: Lot 2 Finley's Crossing Page 10 of 10

J0820-4006

GDH-9 **Kerto-S LVL** 1.750" X 11.875"

27504

Project #: Level: Level 2-Ply - PASSED



Multi-Ply Analysis

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

rasterrain pries asing E	TOWS OF TOU BOX Hulls (.TEOXS) at
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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