Client:

Project: Address: Weaver Development

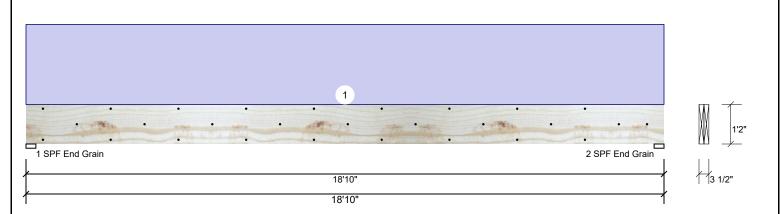
5/10/2021 Input by:

Curtis Quick Job Name: The Lauren H Beams Page 1 of 10

Project #:

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

Level: Level



Member Infor	mation						Reactions UNPATTERNED lb (Uplift)						
Туре:	Girder		Applicat	ion:	Floor		Brg	Live	Dead	Snow	,	Wind	Const
Plies:	2		Design I	Method:	ASD		1	0	2457	0		0	0
Moisture Condition	n: Dry		Building	Code:	IBC 2012		2	0	2457	0		0	0
Deflection LL:	360		Load Sh	aring:	No								
Deflection TL:	240		Deck:		Not Checked								
Importance:	Normal												
Temperature:	Temp <= 100)°F											
							Bearing	S					
							Bearing	Length	Cap. R	eact D/L lb	Total	Ld. Case	Ld. Con
							1 - SPF End	3.500"	23%	2457 / 0	2457	Uniform	D
Analysis Resul	ts						Grain						
Analysis Ad	tual	Location	Allowed	Capacity	y Comb.	Case	2 - SPF	3.500"	23%	2457 / 0	2457	Uniform	D
Moment 11	011 ft-lb	9'5"	24299 ft-lb	0.453 (45	5%) D	Uniform	End Grain						
Unbraced 11	011 ft-lb	9'5"	11013 ft-lb	1.000 (100%)	D	Uniform							

Uniform

Uniform

Design Notes

Shear

1 Fasten all plies using 3 rows of SDW22338 at 24" o.c. Maximum end distance not to exceed 12".

1'4 3/4" 9408 lb

0.222 (22%) D

0 999.000 (L/0) 0.000 (0%)

9'5 1/16" 0.919 (L/240) 0.480 (48%) D

- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Simpson fasteners applied from a single side of the member use tip values where published.
- 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 9'7 1/2" o.c.
- 7 Bottom braced at bearings.

2093 lb

LL Defl inch 0.000 (L/999)

TL Defl inch 0.444 (L/497)

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	Uniform			Тор	250 PLF	0 PLF	0 PLF	0 PLF	0 PLF	
	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
 2 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

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

Client:

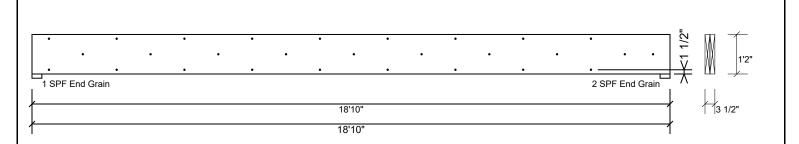
Project: Address: Weaver Development

Date: 5/10/2021

Input by: Curtis Quick Job Name: The Lauren H Beams Page 2 of 10

Project #:

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



Multi-Ply Analysis

Fasten all plies using 3 rows of SDW22338 at 24" o.c., Maximum end distance not to exceed 12"

1 3		
Capacity	0.0 %	
Load	0.0 PLF	
Yield Limit per Foot	382.5 PLF	
Yield Limit per Fastener	255.0 lb.	
Yield Mode	Lookup	
Edge Distance	1 1/2"	
Min. End Distance	6"	
Load Combination		
Duration Factor	1.00	

Notes

NOtes

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

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

Handling & Installation

- Handling & Installation

 1. UVI beams must not be cut or drilled

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

 3. Damaged Beams must not be used

 4. Design assumes top edge is laterally restrained

 5. Provide lateral support at bearing points to avoid lateral displacement and rotation

- 6. For flat roofs provide proper drainage to prevent ponding

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Manufacturer Info

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Client:

Project: Address: Weaver Development

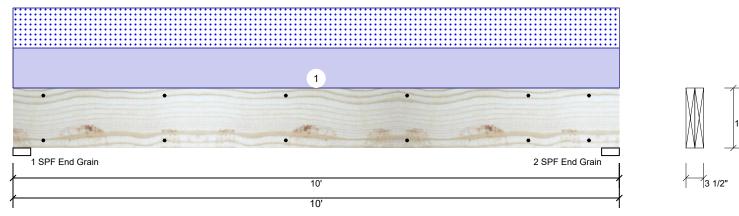
Date: 5/10/2021

Input by: Curtis Quick Job Name: The Lauren H Beams

Project #:

Kerto-S LVL 1.750" X 11.875" 2-Ply - PASSED GDH-1

Level: Level



11 7/8'

Page 3 of 10

Member Information Type: Plies: 2 Moisture Condition: Dry Deflection LL: 360 Deflection TL:

240 Importance: Normal

Temperature: Temp <= 100°F Application: Floor Design Method: ASD

Building Code: IBC 2012 Load Sharing: No

Deck: Not Checked

Reactions	UNPATTERNED	lb (Uplift)
-----------	-------------	-------------

Brg	Live	Dead	Snow	Wind	Const
1	0	1196	1150	0	0
2	0	1196	1150	0	0

Bearings

End Grain

ľ	Bearing	Length	Cap. F	React D/L lb	Total	Ld. Case	Ld. Comb.
ļ	1 - SPF End Grain	3.500"	22%	1196 / 1150	2346	L	D+S
l	2 - SPF	3.500"	22%	1196 / 1150	2346	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	5340 ft-lb	5'	22897 ft-lb	0.233 (23%)	D+S	L
Unbraced	5340 ft-lb	5'	9721 ft-lb	0.549 (55%)	D+S	L
Shear	1774 lb	8'9 3/8"	10197 lb	0.174 (17%)	D+S	L
LL Defl inch	0.051 (L/2238)	5'	0.318 (L/360)	0.160 (16%)	S	L
TL Defl inch	0.104 (L/1097)	5'	0.477 (L/240)	0.220 (22%)	D+S	L

Design Notes

- 1 Fasten all plies using 2 rows of SDW22338 at 24" o.c. Maximum end distance not to exceed
- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Simpson fasteners applied from a single side of the member use tip values where published.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top braced at bearings.
- 7 Bottom braced at bearings.
- 8 Lateral slenderness ratio based on single ply width.

Self Weight

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	230 PLF	0 PLF	230 PLF	0 PLF	0 PLF	G1

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 2/26/2023 CSD DESIGN

Manufacturer Info

Client: Weaver Development

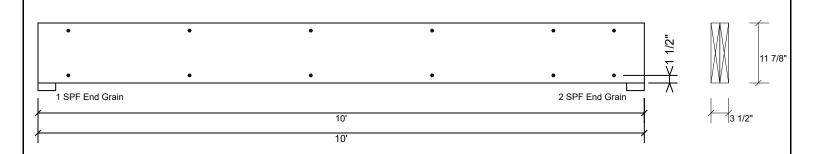
Project: Address: Date: 5/10/2021

Input by: Curtis Quick Job Name: The Lauren H Beams Page 4 of 10

Project #:

1.750" X 11.875" **Kerto-S LVL** 2-Ply - PASSED GDH-1

Level: Level



Multi-Ply Analysis

Fasten all plies using 2 rows of SDW22338 at 24" o.c.. Maximum end distance not to exceed 12"

rasterrain pries asing E	10113 01 3D 1122330 at 2 1	0.0 1110
Capacity	0.0 %	
Load	0.0 PLF	
Yield Limit per Foot	255.0 PLF	
Yield Limit per Fastener	255.0 lb.	
Yield Mode	Lookup	
Edge Distance	1 1/2"	
Min. End Distance	6"	
Load Combination		
Duration Factor	1.00	

Notes

NOtes

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

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

Handling & Installation

- Handling & Installation

 1. UVI beams must not be cut or drilled

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

 3. Damaged Beams must not be used

 4. Design assumes top edge is laterally restrained

 5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

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Manufacturer Info

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Client: Weaver Development

Project: Address:

Date: 5/10/2021 Input by: Curtis Quick

Job Name: The Lauren H Beams

Project #:

1.750" X 9.250" 2-Ply - PASSED Kerto-S LVL BM1

Application:

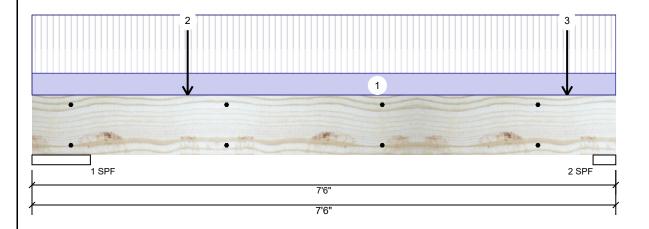
Design Method:

Building Code:

Load Sharing:

Deck:

Level: Level



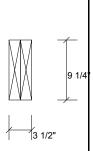
Floor

ASD

No

IBC 2012

Not Checked



Page 5 of 10

Member Information

Type: Plies: 2 Moisture Condition: Dry Deflection LL: 360 Deflection TL: 240 Importance: Normal

Temp <= 100°F Temperature:

Reactions UNPATTERNED Ib (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	159	1025	937	0	0
2	141	1318	1239	0	0

Bearings

Bearing Length	Cap. React D/L I	b Total Ld. Case	Ld. Comb.
1 - SPF 9.000"	15% 1025 / 93	7 1961 L	D+S
0 ODE 3 500"	400/ 1210 / 122	0 0557 1	Dic

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2535 ft-lb	2'	14423 ft-lb	0.176 (18%)	D+S	L
Unbraced	2535 ft-lb	2'	10012 ft-lb	0.253 (25%)	D+S	L
Shear	1929 lb	1'5 1/2"	7943 lb	0.243 (24%)	D+S	L
LL Defl inch	0.022 (L/3655)	3'7 1/4"	0.219 (L/360)	0.100 (10%)	S	L
TL Defl inch	0.046 (L/1730)	3'7 9/16"	0.329 (L/240)	0.140 (14%)	D+S	L

Design Notes

- 1 Fasten all plies using 2 rows of SDW22338 at 24" o.c. Maximum end distance not to exceed
- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Simpson fasteners applied from a single side of the member use tip values where published.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top braced at bearings.
- 7 Bottom braced at bearings.
- 8 Lateral slenderness ratio based on single ply width

O Editoral biolid	orriddd ratio badda oir dirigid	pry widen.								
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	Point	2-0-0		Тор	1088 lb	0 lb	1088 lb	0 lb	0 lb	A6
3	Point	6-10-8		Тор	1088 lb	0 lb	1088 lb	0 lb	0 lb	A6
	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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Client:

Project: Address: Weaver Development

Date: 5/10/2021 Input by:

Curtis Quick Job Name: The Lauren H Beams Page 6 of 10

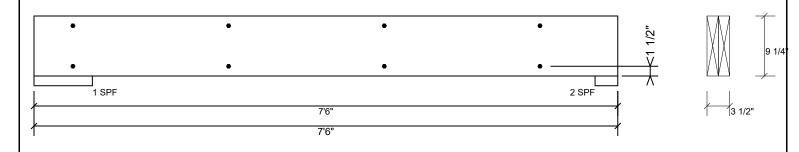
Project #:

Kerto-S LVL BM1

1.750" X 9.250"

2-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 2 rows of SDW22338 at 24" o.c.. Maximum end distance not to exceed 12"

rasterrain pries asing E	10113 01 3D 1122330 at 2 1	0.0 1110
Capacity	0.0 %	
Load	0.0 PLF	
Yield Limit per Foot	255.0 PLF	
Yield Limit per Fastener	255.0 lb.	
Yield Mode	Lookup	
Edge Distance	1 1/2"	
Min. End Distance	6"	
Load Combination		
Duration Factor	1.00	

Notes

NOtes

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

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

Handling & Installation

- Handling & Installation

 1. UVI beams must not be cut or drilled

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

 3. Damaged Beams must not be used

 4. Design assumes top edge is laterally restrained

 5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

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Manufacturer Info

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Client:

Project: Address: Weaver Development

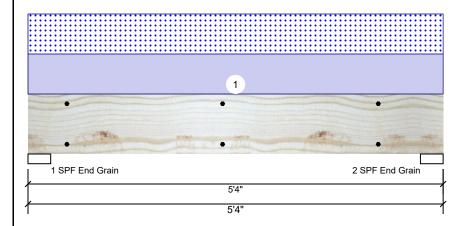
Date: 5/10/2021 Input by:

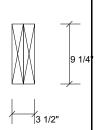
Curtis Quick Job Name: The Lauren H Beams

Project #:

1.750" X 9.250" 2-Ply - PASSED **Kerto-S LVL** BM₂

Level: Level





Page 7 of 10

Member Information

Type: Plies: 2 Moisture Condition: Dry Deflection LL: 360 Deflection TL: 240 Importance: Normal Temp <= 100°F Temperature:

Application: Design Method: ASD **Building Code:** IBC 2012 Load Sharing: No

Deck: Not Checked

Reactions UNPATTERNED Ib (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	0	1659	1640	0	0
2	0	1659	1640	0	0

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3675 ft-lb	2'8"	14423 ft-lb	0.255 (25%)	D+S	L
Unbraced	3675 ft-lb	2'8"	11811 ft-lb	0.311 (31%)	D+S	L
Shear	2062 lb	4'4"	7943 lb	0.260 (26%)	D+S	L
LL Defl inch	0.023 (L/2497)	2'8"	0.162 (L/360)	0.140 (14%)	S	L
TL Defl inch	0.047 (L/1241)	2'8"	0.244 (L/240)	0.190 (19%)	D+S	L

Bearings

Bearing Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF 3.500" End Grain	31%	1659 / 1640	3299	L	D+S
2 - SPF 3.500" End Grain	31%	1659 / 1640	3299	L	D+S

Design Notes

- 1 Fasten all plies using 2 rows of SDW22338 at 24" o.c. Maximum end distance not to exceed
- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Simpson fasteners applied from a single side of the member use tip values where published.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top braced at bearings.
- 7 Bottom braced at 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	Uniform			Тор	615 PLF	0 PLF	615 PLF	0 PLF	0 PLF	A2
	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

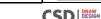
This design is valid until 2/26/2023

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Manufacturer Info

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Client:

Project: Address: Weaver Development

Date: 5/10/2021 Input by:

Curtis Quick Job Name: The Lauren H Beams

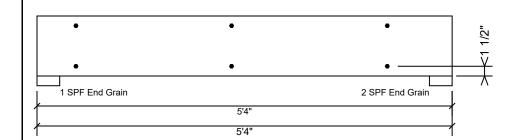
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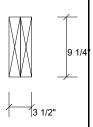
Kerto-S LVL BM₂

1.750" X 9.250"

2-Ply - PASSED

Level: Level





Page 8 of 10

Multi-Ply Analysis

Fasten all plies using 2 rows of SDW22338 at 24" o.c., Maximum end distance not to exceed 12"

rasterrain pines asing 2 rows	01 35 WEE330 at E 1 0.c 1110
Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	255.0 PLF
Yield Limit per Fastener	255.0 lb.
Yield Mode	Lookup
Edge Distance	1 1/2"
Min. End Distance	6"
Load Combination	
Duration Factor	1.00

Notes

NOtes

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

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

Handling & Installation

- Handling & Installation

 1. UVI beams must not be cut or drilled

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

 3. Damaged Beams must not be used

 4. Design assumes top edge is laterally restrained

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

This design is valid until 2/26/2023

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Manufacturer Info

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Version 20.20.044 Powered by iStruct™



Client:

Project: Address: Weaver Development

Date: 5/10/2021

Input by: Curtis Quick Job Name: The Lauren H Beams

Project #:

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

Level: Level

Reactions UNPATTERNED Ib (Uplift)

Dead

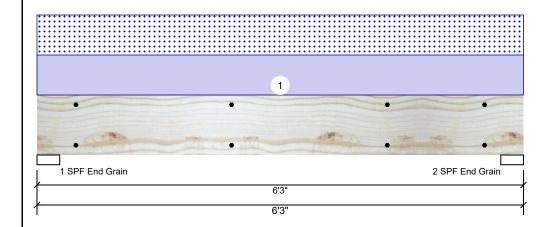
2363

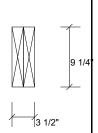
2363

Live

0

0





Const

0

0

Page 9 of 10

N	/lem	hor	Info	rm	atio	n
I١	летн	ber	ши		auo	п

Type: Girder Plies: 2 Moisture Condition: Dry Deflection LL: 360 Deflection TL: 240 Importance: Normal Temperature:

Temp <= 100°F

Application: Design Method: ASD **Building Code:** IBC 2012 Load Sharing: No Deck: Not Checked

Bearings	

Brg

1

2

Bearing Length Cap. React D/L lb Total Ld. Case Ld. Comb. 2363 / 2341 4704 L 1 - SPF 3.500" D+S End

Snow

2341

2341

Wind

0

0

Grain

2 - SPF 3.500" 2363 / 2341 4704 L D+S End Grain

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	6311 ft-lb	3'1 1/2"	14423 ft-lb	0.438 (44%)	D+S	L
Unbraced	6311 ft-lb	3'1 1/2"	10779 ft-lb	0.586 (59%)	D+S	L
Shear	3199 lb	1'	7943 lb	0.403 (40%)	D+S	L
LL Defl inch	0.052 (L/1330)	3'1 1/2"	0.193 (L/360)	0.270 (27%)	S	L
TL Defl inch	0.105 (L/662)	3'1 1/2"	0.290 (L/240)	0.360 (36%)	D+S	L

Design Notes

- 1 Fasten all plies using 2 rows of SDW22338 at 24" o.c. Maximum end distance not to exceed
- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Simpson fasteners applied from a single side of the member use tip values where published.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top braced at bearings.
- 7 Bottom braced at bearings.
- 8 Lateral slenderness ratio based on single ply width

Self Weight

	J	1 /								
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	749 PLF	0 PLF	749 PLF	0 PLF	0 PLF	A2

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

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

Handling & Installation

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

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

7 PI F

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: Weaver Development

Date: 5/10/2021

Input by: Curtis Quick Job Name: The Lauren H Beams

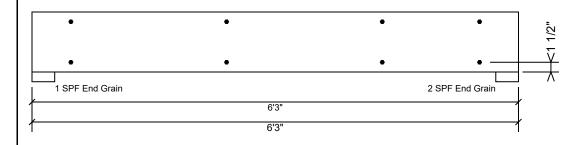
Project #:

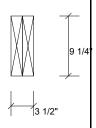
Kerto-S LVL BM3

1.750" X 9.250"

2-Ply - PASSED

Level: Level





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Multi-Ply Analysis

Fasten all plies using 2 rows of SDW22338 at 24" o.c., Maximum end distance not to exceed 12"

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Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	255.0 PLF
Yield Limit per Fastener	255.0 lb.
Yield Mode	Lookup
Edge Distance	1 1/2"
Min. End Distance	6"
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

6. For flat roofs provide proper drainage to prevent ponding

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