

Project: Address:

Weaver Homes

Gaston II (181035B)

6/2/2021

Job Name: Gaston II (181035B)

Marshall Naylor

Page 1 of 1

Const

0

0

Ld. Comb. D+S

D+S

0

0

8104 L

Input by:

Date:

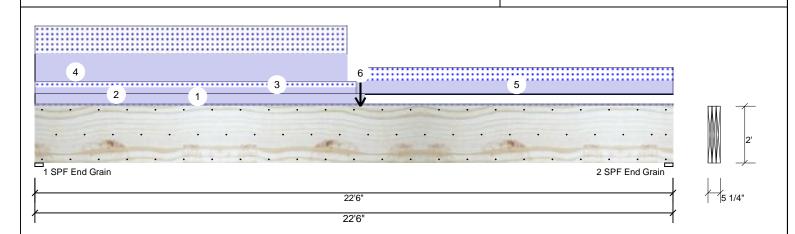
Project #:

Kerto-S LVL FB₂

1.750" X 24.000"

3-Ply - PASSED

Level: Level



Member Information Reactions UNPATTERNED Ib (Uplift) Туре: Girder Application: Floor Brg Wind Live Dead Snow Plies: 3 Design Method: ASD 225 6536 5095 1 Moisture Condition: Dry **Building Code:** IBC 2012 225 2 4429 3676 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 1 - SPF 3.500" 6536 / 5095 11631 L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	65477 ft-lb	11'5 3/4"	131295 ft-lb	0.499 (50%)	D+S	L
Unbraced	65477 ft-lb	11'5 3/4"	65903 ft-lb	0.994 (99%)	D+S	L
Shear	10093 lb	2'2 5/8"	30912 lb	0.327 (33%)	D+S	L
LL Defl inch	0.226 (L/1171)	11'1 11/16"	0.552 (L/480)	0.410 (41%)	S	L
TL Defl inch	0.501 (L/528)	11' 7/8"	0.735 (L/360)	0.680 (68%)	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 3'11 5/8" o.c.
- 6 Bottom braced at bearings.

7 Lateral slend	erness ratio based or	n 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 22-6-0	0-6-0	Far Face	15 PSF	40 PSF	0 PSF	0 PSF	0 PSF	1' Floor
2	Part. Uniform	0-0-0 to 11-7-8		Тор	120 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall
3	Part. Uniform	0-0-0 to 11-4-0		Near Face	79 PLF	0 PLF	79 PLF	0 PLF	0 PLF	M2
4	Part. Uniform	0-0-0 to 11-0-0		Тор	341 PLF	0 PLF	341 PLF	0 PLF	0 PLF	A2
5	Part. Uniform	11-4-0 to 22-6-0		Near Face	164 PLF	0 PLF	164 PLF	0 PLF	0 PLF	M3
6	Point	11-5-12		Тор	2293 lb	0 lb	2293 lb	0 lb	0 lb	B2
	Self Weight				28 PLF					

End Grain

End Grain

2 - SPF 3.500"

Notes

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

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
- LVL beams must not be cut or drilled
 Refer to manufacturer's product information
 regarding installation requirements, multi-ply
 fastening details, beam strength values, and code
 approvals

- Damaged Beams must not be used
- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

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4429 / 3676

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This design is valid until 2/26/2023

Manufacturer Info



Weaver Homes

Project: Address:

Gaston II (181035B)

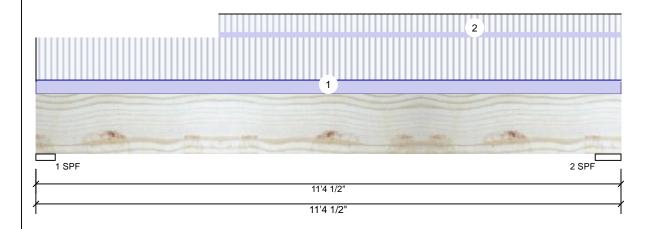
Date: 6/2/2021

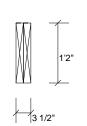
Input by: Marshall Naylor Job Name: Gaston II (181035B)

Project #:

1.750" X 14.000" 2-Ply - PASSED **Kerto-S LVL** FB₁

Level: Level





Page 1 of 1

Member Infor	mation			Reactio	ns UNPAT	TERNED Ib	(Uplift))	
Type:	Girder	Application:	Floor	Brg	Live	Dead	Snow	Wind	Const
Plies:	2	Design Method:	ASD	1	2129	771	0	0	0
Moisture Condition	n: Dry	Building Code:	IBC 2012	2	2523	904	0	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	4.500"	43% 77	71 / 2129	2899 L	D+L
				2 - SPF	6.000"	38% 90	04 / 2523	3426 L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	8168 ft-lb	5'9 3/16"	26999 ft-lb	0.303 (30%)	D+L	L
Unbraced	8168 ft-lb	5'9 3/16"	10258 ft-lb	0.796 (80%)	D+L	L
Shear	2446 lb	9'9 1/4"	10453 lb	0.234 (23%)	D+L	L
LL Defl inch	0.090 (L/1419)	5'8 3/16"	0.266 (L/480)	0.340 (34%)	L	L
TL Defl inch	0.122 (L/1044)	5'8 3/16"	0.354 (L/360)	0.340 (34%)	D+L	L

Design Notes

- 1 Girders are designed to be supported on the bottom edge only.
- 2 Multiple plies must be fastened together as per manufacturer's details.
- 3 Top loads must be supported equally by all plies.
- 4 Top braced at bearings.
- 5 Bottom braced at bearings.
- 6 Lateral slenderness ratio based on single ply width.

I	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	318 PLF	0 PLF	0 PLF	0 PLF	F5	
	2	Part. Uniform	3-6-8 to 11-4-8		Тор	44 PLF	132 PLF	0 PLF	0 PLF	0 PLF	F9	
l		Self Weight				11 PLF						

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 out 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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This design is valid until 2/26/2023 CSD BOOK



Project:

Address: Gaston II (181035B) Date: 6/2/2021 Input by:

Marshall Naylor Job Name: Gaston II (181035B)

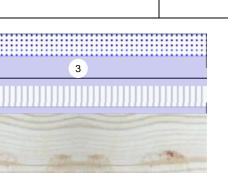
Level: Level

Project #:

6/0 SLIDER **Kerto-S LVL** 1.750" X 9.250"

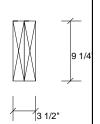
Weaver Homes

2-Ply - PASSED



1 SPF End Grain 2 SPF End Grain 6'7

6'7'



Page 1 of 1

Member Inform	nation
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 Wind Const Live Dead Snow 1060 1887 1113 0 0 1 1060 0 0 2 1887 1113

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	5009 ft-lb	3'3 1/2"	14423 ft-lb	0.347 (35%)	D+0.75(L+S)	L
Unbraced	5009 ft-lb	3'3 1/2"	10451 ft-lb	0.479 (48%)	D+0.75(L+S)	L
Shear	2448 lb	1'	7943 lb	0.308 (31%)	D+0.75(L+S)	L
LL Defl inch	0.042 (L/1741)	3'3 1/2"	0.153 (L/480)	0.280 (28%)	0.75(L+S)	L
TL Defl inch	0.091 (L/807)	3'3 1/2"	0.204 (L/360)	0.450 (45%)	D+0.75(L+S)	L

Bearings Bearing Length Cap. React D/L lb Total Ld. Case Ld. Comb. 1887 / 1629 1 - SPF 3.500" 3516 L D+0.75(L+S)

End Grain 2 - SPF 3.500" 1887 / 1629 3516 L

D+0.75(L+S)

Design Notes

- 1 Girders are designed to be supported on the bottom edge only.
- 2 Multiple plies must be fastened together as per manufacturer's details.
- 3 Top loads must be supported equally by all plies.
- 4 Top braced at bearings.
- 5 Bottom braced at bearings.
- 6 Lateral slenderness ratio based on single ply width.

Grain

End

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	108 PLF	322 PLF	0 PLF	0 PLF	0 PLF	F4
2	Uniform			Тор	120 PLF	0 PLF	0 PLF	0 PLF	0 PLF	WALL
3	Uniform			Тор	338 PLF	0 PLF	338 PLF	0 PLF	0 PLF	A4
	Self Weight				7 PLF					

Notes

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- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
 - Indiang & 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 I

Manufacturer Info



Client: Address:

Project:

Weaver Homes

Gaston II (181035B)

Date: 6/2/2021

Input by: Marshall Naylor Job Name: Gaston II (181035B) Page 1 of 1

Const

0

0

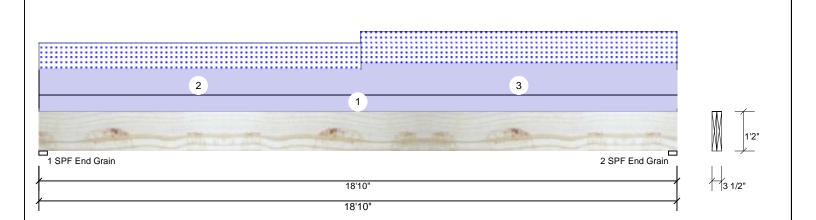
Ld. Comb. D+S

D+S

Project #:

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

Reactions UNPATTERNED Ib (Uplift)



Type: Girder Application: Floor Brg Live Wind Dead Snow Plies: 2 Design Method: ASD 0 1619 952 0 1 Moisture Condition: Dry **Building Code:** IBC 2012 0 1720 1052 2 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 1 - SPF 3.000" 1619 / 952 End Grain Analysis Results 2 - SPF 3.000" 1720 / 1052 2772 L Location Allowed Comb. Case Analysis Actual Capacity End 12090 ft-lb Moment 9'8 7/8" 31049 ft-lb 0.389 (39%) D+S L Grain Unbraced 12090 ft-lb 9'8 7/8" 12111 ft-lb 0.998 L

(100%)

9'6 3/16" 0.461 (L/480) 0.400 (40%) S

9'5 13/16" 0.615 (L/360) 0.800 (80%) D+S

0.196 (20%) D+S

TL Defl inch Design Notes

Shear

- 1 Girders are designed to be supported on the bottom edge only.
- 2 Multiple plies must be fastened together as per manufacturer's details.

17'5 3/4" 12021 lb

- 3 Top loads must be supported equally by all plies.
- 4 Top must be laterally braced at a maximum of 8'7 7/8" o.c.
- 5 Bottom braced at bearings.

LL Defl inch 0.184 (L/1202)

2360 lb

0.491 (L/451)

Member Information

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			Тор	60 PLF	0 PLF	0 PLF	0 PLF	0 PLF	wall	
2	Part. Uniform	0-0-0 to 9-6-0		Тор	96 PLF	0 PLF	96 PLF	0 PLF	0 PLF	M2	
3	Part. Uniform	9-6-0 to 18-10-0		Тор	117 PLF	0 PLF	117 PLF	0 PLF	0 PLF	M3	
	Self Weight				11 PLF						

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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
 lateral displacement and rotation
- 6. For flat roofs provide proper drainage to prevent ponding

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Manufacturer Info

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This design is valid until 2/26/2023



Client: Weaver Homes

Project:

Address: Gaston II (181035B) Date: 6/2/2021

Input by: Marshall Naylor Job Name: Gaston II (181035B)

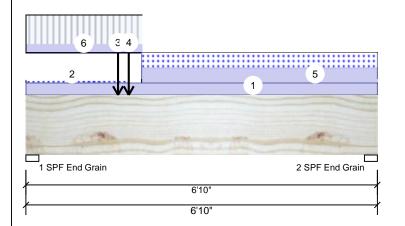
Project #:

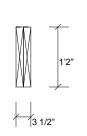
Window Hdr. Kerto-S LVL 1.750" X 14.000" 2-Ply - PASSED

Level: Level

Reactions UNPATTERNED Ib (Uplift)

Bearings





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

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

			(- I)			
Brg	Live	Dead	Snow	Wind	Const	
1	2861	3387	1990	0	0	
2	873	1906	1168	0	0	

Analysis Results Analysis Actual Location Allowed Comb. Case Capacity 0.360 (36%) D+0.75(L+S) L Moment 11172 ft-lb 2' 31049 ft-lb Unbraced 11172 ft-lb 2' 15735 ft-lb 0.710 (71%) D+0.75(L+S) L 6425 lb 1'4 1/4" 12021 lb 0.534 (53%) D+0.75(L+S) L Shear LL Defl inch 0.033 (L/2343) 2'7 5/8" 0.161 (L/480) 0.200 (20%) 0.75(L+S) L 2'8 7/8" 0.215 (L/360) 0.310 (31%) D+0.75(L+S) L TL Defl inch 0.067 (L/1165)

Bearing Length Cap. React D/L lb Total Ld. Case Ld. Comb. 3387 / 3638 1 - SPF 3.000" 7025 L D+0.75(L+S) End Grain 2 - SPF 3.000" 1906 / 1531 3437 L D+0.75(L+S) End Grain

Design Notes

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- 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			Тор	120 PLF	0 PLF	0 PLF	0 PLF	0 PLF	WALL
2	Tie-In	0-0-0 to 2-0-0	1-0-0	Тор	20 PSF	0 PSF	20 PSF	0 PSF	0 PSF	2' ROOF
3	Point	1-9-8		Тор	1040 lb	3115 lb	0 lb	0 lb	0 lb	F08
4	Point	2-0-0		Тор	2385 lb	0 lb	2385 lb	0 lb	0 lb	C3
5	Part. Uniform	2-3-0 to 6-10-0		Тор	160 PLF	0 PLF	160 PLF	0 PLF	0 PLF	C2
6	Part. Uniform	2-3-0 to 0-0-0		Тор	97 PLF	300 PLF	0 PLF	0 PLF	0 PLF	F07
	Self Weight				11 PLF					

Notes

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- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
- LVI beams must not be cut or drilled
 Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
- Damaged Beams must not be used
- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation
- 6. For flat roofs provide proper drainage to prevent ponding

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Manufacturer Info

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This design is valid until 2/26/2023





Project: Address:

Weaver Homes

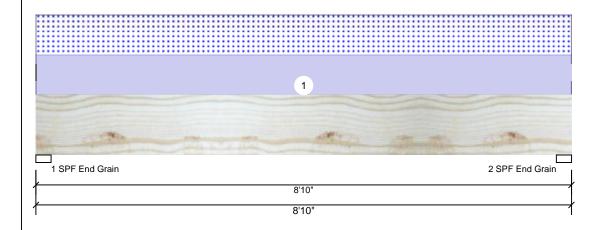
Date: 6/2/2021

Input by: Marshall Naylor Job Name: Gaston II (181035B)

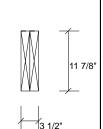
Project #:

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

Level: Level



Gaston II (181035B)



Page 1 of 1

ſ	Type:	Girder	Application:	Floor					
	Plies:	2	Design Method:	ASD					
	Moisture Condition:	Dry	Building Code:	IBC 2012					
	Deflection LL:	480	Load Sharing:	No					
	Deflection TL:	360	Deck:	Not Checked					
	Importance:	Normal							
	Temperature:	Temp <= 100°F							
ŀ									
1	Analysis Docults								

Reactions UNPATTERNED lb (Uplift)										
Brg	Live	Dead	Snow	Wind	Const					
1	0	1145	1104	0	0					
2	0	1145	1104	0	0					

Analysis Results Analysis Actual Case Location Allowed Capacity Comb. Moment 4554 ft-lb 4'5" 22897 ft-lb 0.199 (20%) D+S L Unbraced 4554 ft-lb 4'5" 10675 ft-lb 0.427 (43%) D+S L 1650 lb 1'2 1/8" 10197 lb 0.162 (16%) D+S Shear ī LL Defl inch 0.036 (L/2845) 4'5 1/16" 0.211 (L/480) 0.170 (17%) S TL Defl inch 0.073 (L/1397) 4'5 1/16" 0.282 (L/360) 0.260 (26%) D+S L

Bearings

ı	Bearing	Length	Cap. I	React D/L lb	Total	Ld. Case	Ld. Comb.
ł	1 - SPF End Grain	3.000"	25%	1145 / 1104	2249	L	D+S
ı	2 - SPF End Grain	3.000"	25%	1145 / 1104	2249	L	D+S

Design Notes

- 1 Girders are designed to be supported on the bottom edge only.
- 2 Multiple plies must be fastened together as per manufacturer's details.
- 3 Top loads must be supported equally by all plies.
- 4 Top braced at bearings.

Member Information

- 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 Top 250 PLF 0 PLF 250 PLF 0 PLF 0 PLF G2

9 PLF Self Weight

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
 lateral displacement and rotation
 - This design is valid until 2/26/2023

Manufacturer Info 6. For flat roofs provide proper drainage to prevent ponding

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GCO

Client:

Weaver Homes

Project:

Address: Gaston II (181035B) Date: 6/2/2021

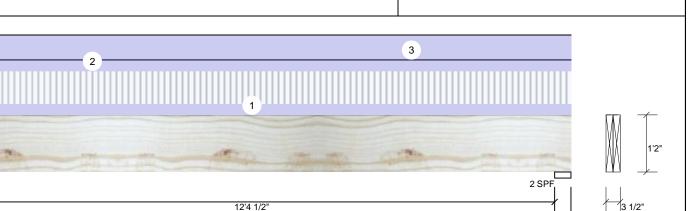
Input by: Marshall Naylor Job Name: Gaston II (181035B)

Level: Level

Page 1 of 1

Project #:

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



Member Infor	mation			Reactio	Reactions UNPATTERNED Ib (Uplift)						
Type:	Girder	Application:	Floor	Brg	Live	Dead	Snow	Wind	Const		
Plies:	2	Design Method:	ASD	1	2374	3468	0	0	0		
Moisture Condition	n: Dry	Building Code:	IBC 2012	2	2374	3468	0	0	0		
Deflection LL:	480	Load Sharing:	No								
Deflection TL:	240	Deck:	Not Checked								
Importance:	Normal										
Temperature:	Temp <= 100°F										
				Bearing	S						
				Bearing	Length	Cap. Rea	ct D/L lb	Total Ld. Case	Ld. Comb.		
				1 - SPF	4.000"	98% 346	68 / 2374	5842 L	D+L		
	-			2 - SPF	4.000"	98% 346	68 / 2374	5842 L	D+L		

13' 1/2"

Analysis Results

1 SPF

<i>J</i>						
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	17498 ft-lb	6'6 1/4"	26999 ft-lb	0.648 (65%)	D+L	L
Unbraced	17498 ft-lb	6'6 1/4"	17570 ft-lb	0.996 (100%)	D+L	L
Shear	4554 lb	1'5 1/4"	10453 lb	0.436 (44%)	D+L	L
LL Defl inch	0.142 (L/1059)	6'6 1/4"	0.312 (L/480)	0.450 (45%)	L	L
TL Defl inch	0.349 (L/430)	6'6 1/4"	0.625 (L/240)	0.560 (56%)	D+L	L

Design Notes

- 1 Girders are designed to be supported on the bottom edge only.
- 2 Multiple plies must be fastened together as per manufacturer's details.
- 3 Top loads must be supported equally by all plies.
- 4 Top must be laterally braced at a maximum of 5'6 3/4" o.c.
- 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			Тор	122 PLF	364 PLF	0 PLF	0 PLF	0 PLF	F01
2	Uniform			Тор	125 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall
3	Uniform			Тор	274 PLF	0 PLF	0 PLF	0 PLF	0 PLF	A1
	Self Weight				11 PLF					

Notes

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

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

Handling & Installation

Handling & Installation

1. UVI beams must not be out or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

6. For flat roofs provide proper drainage to prevent ponding

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This design is valid until 2/26/2023

Manufacturer Info