

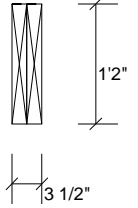
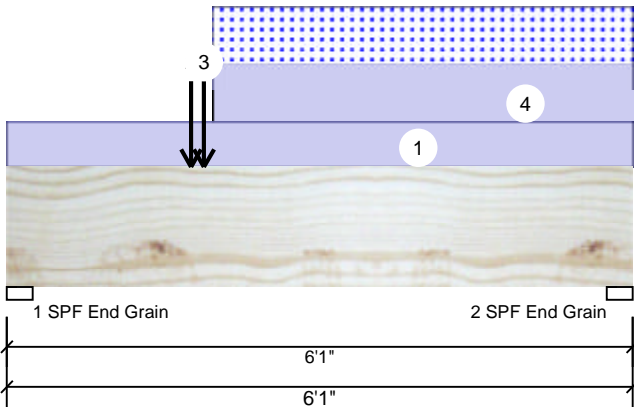


Client: Weaver Homes
 Project: Gaston II (181035B)
 Address: Gaston II (181035B)

Date: 5/12/2022
 Input by: Marshall Naylor
 Job Name: Gaston II
 Project #:

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

Level: Level



Member Information

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 - II		
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	723	4403	1838	0	0
2	Vertical	282	2388	1142	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	Vert	72%	4403 / 1920	6323	L	D+0.75(L+S)
2 - SPF End Grain	3.000"	Vert	40%	2388 / 1142	3530	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	10224 ft-lb	1'11"	31049 ft-lb	0.329 (33%)	D+0.75(L+S)	L
Unbraced	10224 ft-lb	1'11"	17620 ft-lb	0.580 (58%)	D+0.75(L+S)	L
Shear	6150 lb	1'5"	12021 lb	0.512 (51%)	D+0.75(L+S)	L
LL Defl inch	0.016 (L/4193)	2'3 15/16"	0.143 (L/480)	0.114 (11%)	0.75(L+S)	L
TL Defl inch	0.052 (L/1315)	2'4"	0.190 (L/360)	0.274 (27%)	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 Girders are designed to be supported on the bottom edge only.
- 3 Multiple plies must be fastened together as per manufacturer's details.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be laterally braced at end bearings.
- 6 Bottom must be laterally braced at end 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			Top	120 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall
2	Point	1-9-8		Top	3014 lb	1005 lb	0 lb	0 lb	0 lb	F8
	Bearing Length	0-3-8								
3	Point	1-11-0		Top	2335 lb	0 lb	2335 lb	0 lb	0 lb	C3
	Bearing Length	0-3-8								
4	Part. Uniform	2-0-0 to 6-1-0		Top	158 PLF	0 PLF	158 PLF	0 PLF	0 PLF	C2
	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.

Lumber

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

Handling & Installation

1. LVL 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 11/3/2024

Manufacturer Info

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

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 1001 S. Reilly Road, Suite #639
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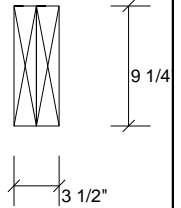
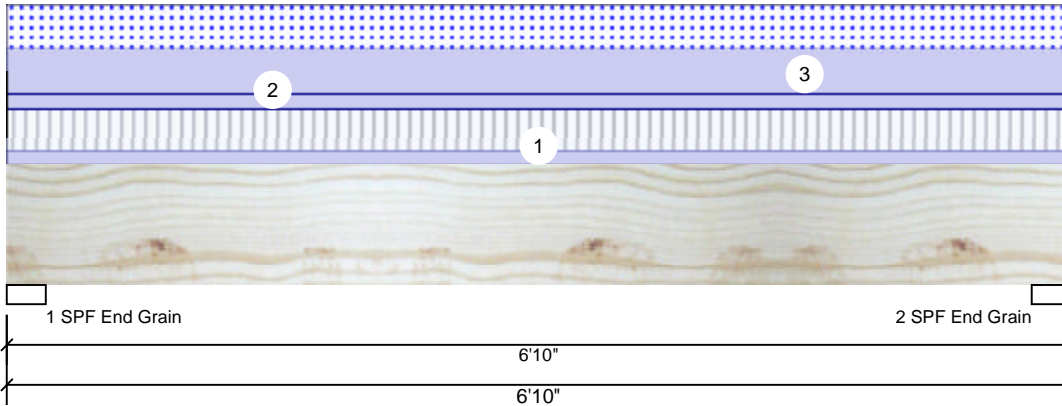


Client: Weaver Homes
 Project: Gaston II (181035B)
 Address: Gaston II (181035B)

Date: 5/12/2022
 Input by: Marshall Naylor
 Job Name: Gaston II
 Project #:

6/0 Sliding Door HDR Kerto-S LVL 1.750" X 9.250" 2-Ply - PASSED

Level: Level



Member Information

Type:	Girder
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 2012
Load Sharing:	No
Deck:	Not Checked

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	1100	1965	1162	0	0
2	Vertical	1100	1965	1162	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	Vert	42%	1965 / 1696	3662	L	D+0.75(L+S)
2 - SPF End Grain	3.000"	Vert	42%	1965 / 1696	3662	L	D+0.75(L+S)

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	5588 ft-lb	3'5"	14423 ft-lb	0.387 (39%)	D+0.75(L+S)	L
Unbraced	5588 ft-lb	3'5"	10130 ft-lb	0.552 (55%)	D+0.75(L+S)	L
Shear	2573 lb	1' 1/4"	7943 lb	0.324 (32%)	D+0.75(L+S)	L
LL Defl inch	0.051 (L/1511)	3'5"	0.161 (L/480)	0.318 (32%)	0.75(L+S)	L
TL Defl inch	0.111 (L/700)	3'5"	0.215 (L/360)	0.514 (51%)	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 Girders are designed to be supported on the bottom edge only.
- 3 Multiple plies must be fastened together as per manufacturer's details.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be laterally braced at end bearings.
- 6 Bottom must be laterally braced at end 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			Top	108 PLF	322 PLF	0 PLF	0 PLF	0 PLF	F4
2	Uniform			Top	120 PLF	0 PLF	0 PLF	0 PLF	0 PLF	WALL
3	Uniform			Top	340 PLF	0 PLF	340 PLF	0 PLF	0 PLF	A4
	Self Weight				7 PLF					

Notes
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Lumber
 1. Dry service conditions, unless noted otherwise
 2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation
 1. LVL 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 11/3/2024

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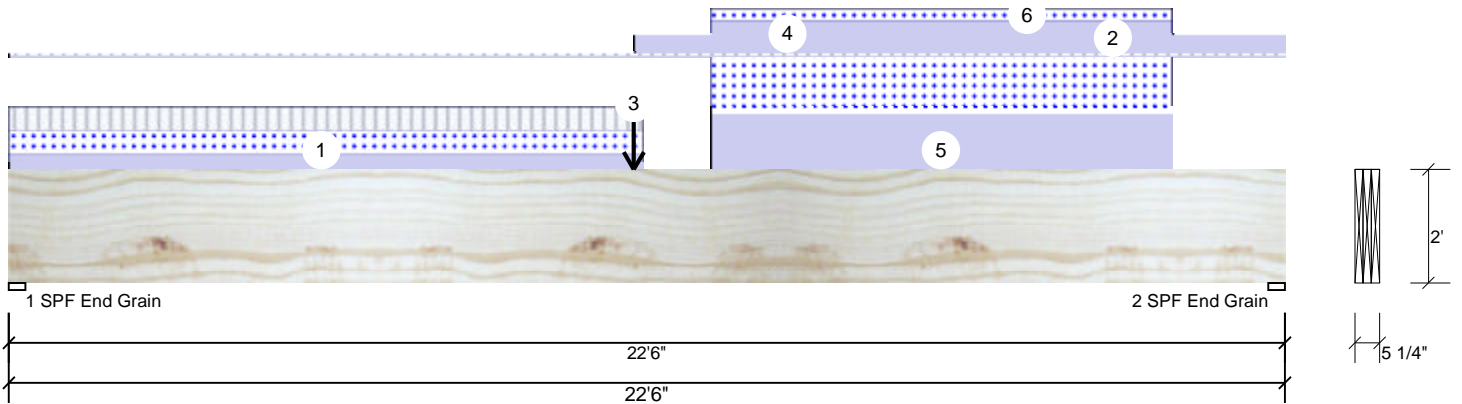


Client: Weaver Homes
 Project: Gaston II (181035B)
 Address: Gaston II (181035B)

Date: 5/12/2022
 Input by: Marshall Naylor
 Job Name: Gaston II
 Project #:

FB2 Kerto-S LVL 1.750" X 24.000" 3-Ply - PASSED

Level: Level



Member Information

Type: Girder	Application: Floor
Plies: 3	Design Method: ASD
Moisture Condition: Dry	Building Code: IBC 2012
Deflection LL: 480	Load Sharing: Yes
Deflection TL: 360	Deck: Not Checked
Importance: Normal - II	
Temperature: Temp <= 100°F	

Reactions UNPATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	1493	3705	3383	0	0
2	Vertical	632	5449	4153	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	Vert	48%	3705 / 3657	7362	L	D+0.75(L+S)
2 - SPF End Grain	3.500"	Vert	62%	5449 / 4153	9602	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	59233 ft-lb	11' 1/4"	131295 ft-lb	0.451 (45%)	D+S	L
Unbraced	59233 ft-lb	11' 1/4"	59272 ft-lb	0.999 (100%)	D+S	L
Shear	9560 lb	20' 2 1/2"	30912 lb	0.309 (31%)	D+S	L
LL Defl inch	0.209 (L/1267)	11' 4"	0.552 (L/480)	0.379 (38%)	S	L
TL Defl inch	0.454 (L/583)	11' 5 7/16"	0.735 (L/360)	0.618 (62%)	D+S	L

Design Notes

- 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.
- Girders are designed to be supported on the bottom edge only.
- Multiple plies must be fastened together as per manufacturer's details.
- Top loads must be supported equally by all plies.
- Top must be laterally braced at a maximum of 4' 3/4" o.c.
- Bottom must be laterally braced at end bearings.
- Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Part. Uniform	0-0-0 to 11-2-0		Near Face	100 PLF	150 PLF	150 PLF	0 PLF	0 PLF	M3
2	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
3	Point	11-0-4		Top	2294 lb	0 lb	2294 lb	0 lb	0 lb	B2
	Bearing Length	0-3-8								
4	Part. Uniform	11-0-4 to 22-6-0		Top	120 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall
5	Part. Uniform	12-4-8 to 20-6-0		Top	360 PLF	0 PLF	360 PLF	0 PLF	0 PLF	A2

Continued on page 2...

Notes

Calculated Structural 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

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

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 11/3/2024

Manufacturer Info

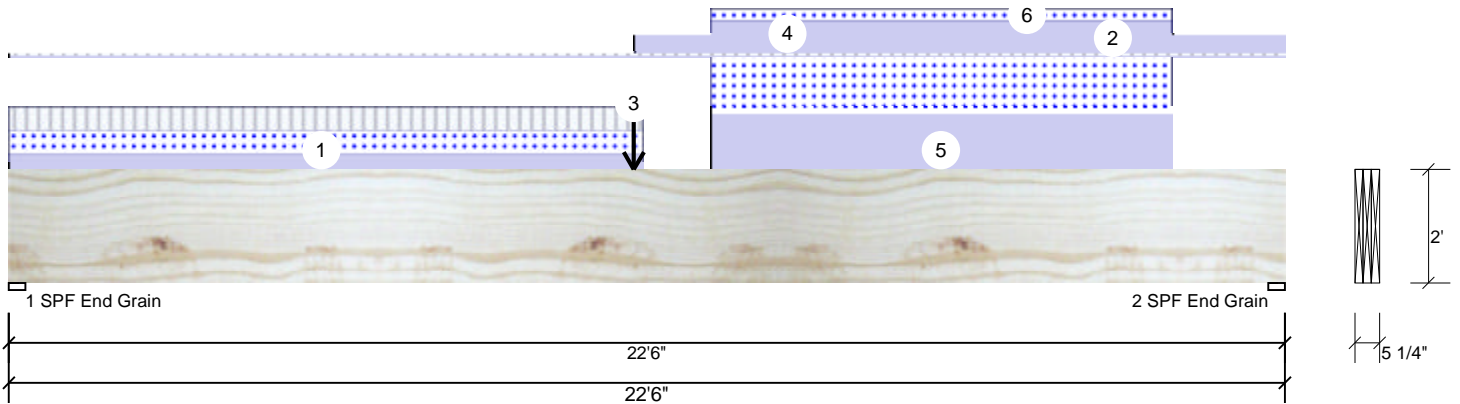
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FB2 Kerto-S LVL 1.750" X 24.000" 3-Ply - PASSED

Level: Level



...Continued from page 1

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
6	Part. Uniform	12-4-8 to 20-6-0		Near Face	79 PLF	0 PLF	79 PLF	0 PLF	0 PLF	M2
	Self Weight				28 PLF					

Notes

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Lumber

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

Handling & Installation

1. LVL 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 11/3/2024

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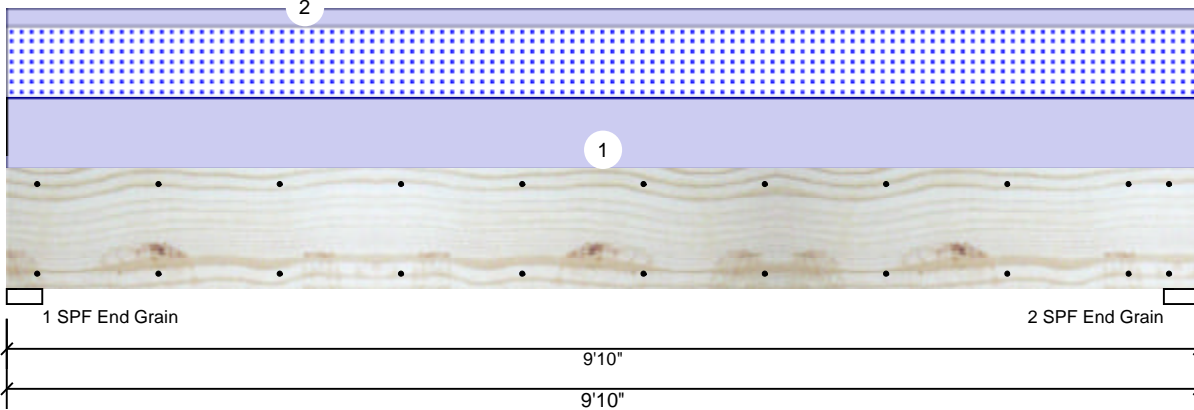


Client: Weaver Homes
 Project: Gaston II (181035B)
 Address: Gaston II (181035B)

Date: 5/12/2022
 Input by: Marshall Naylor
 Job Name: Gaston II
 Project #:

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

Level: Level



Member Information

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 - II		
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	1540	1200	0	0
2	Vertical	0	1540	1200	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	Vert	27%	1540 / 1200	2740	L	D+S
2 - SPF End Grain	3.500"	Vert	27%	1540 / 1200	2740	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	6122 ft-lb	4'11"	22897 ft-lb	0.267 (27%)	D+S	L
Unbraced	6122 ft-lb	4'11"	9857 ft-lb	0.621 (62%)	D+S	L
Shear	2035 lb	1'3 3/8"	10197 lb	0.200 (20%)	D+S	L
LL Defl inch	0.051 (L/2213)	4'11"	0.234 (L/480)	0.217 (22%)	S	L
TL Defl inch	0.116 (L/969)	4'11"	0.312 (L/360)	0.372 (37%)	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".
- 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	Uniform			Top	244 PLF	0 PLF	244 PLF	0 PLF	0 PLF	G2
2	Uniform			Top	60 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Exterior Load
	Self Weight				9 PLF					

Notes

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Lumber

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

Handling & Installation

1. LVL 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 11/3/2024

Manufacturer Info

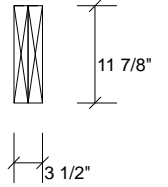
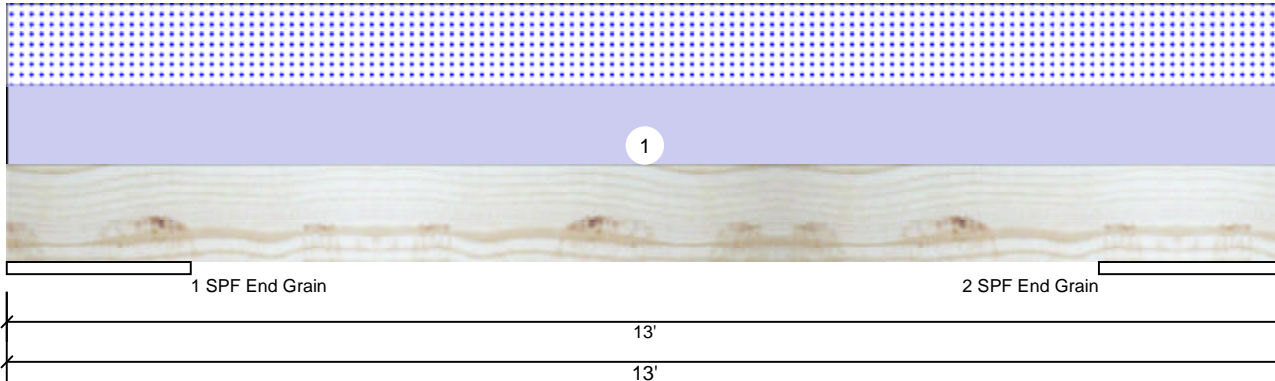
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 910-864-TRUS



FB1 Kerto-S LVL 1.750" X 11.875" 2-Ply - PASSED

Level: Level



Member Information

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 - II		
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	1685	1625	0	0
2	Vertical	0	1685	1625	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	22.500"	Vert	5%	1685 / 1625	3310	L	D+S
2 - SPF End Grain	22.500"	Vert	5%	1685 / 1625	3310	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	5595 ft-lb	6'6"	22897 ft-lb	0.244 (24%)	D+S	L
Unbraced	5595 ft-lb	6'6"	9857 ft-lb	0.568 (57%)	D+S	L
Shear	1860 lb	2'10 3/8"	10197 lb	0.182 (18%)	D+S	L
LL Defl inch	0.052 (L/2160)	6'6"	0.234 (L/480)	0.222 (22%)	S	L
TL Defl inch	0.106 (L/1060)	6'6"	0.312 (L/360)	0.340 (34%)	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 Girders are designed to be supported on the bottom edge only.
- 3 Multiple plies must be fastened together as per manufacturer's details.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be laterally braced at end bearings.
- 6 Bottom must be laterally braced at end 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			Top	250 PLF	0 PLF	250 PLF	0 PLF	0 PLF	G2
	Self Weight				9 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

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

Handling & Installation

1. LVL 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 11/3/2024

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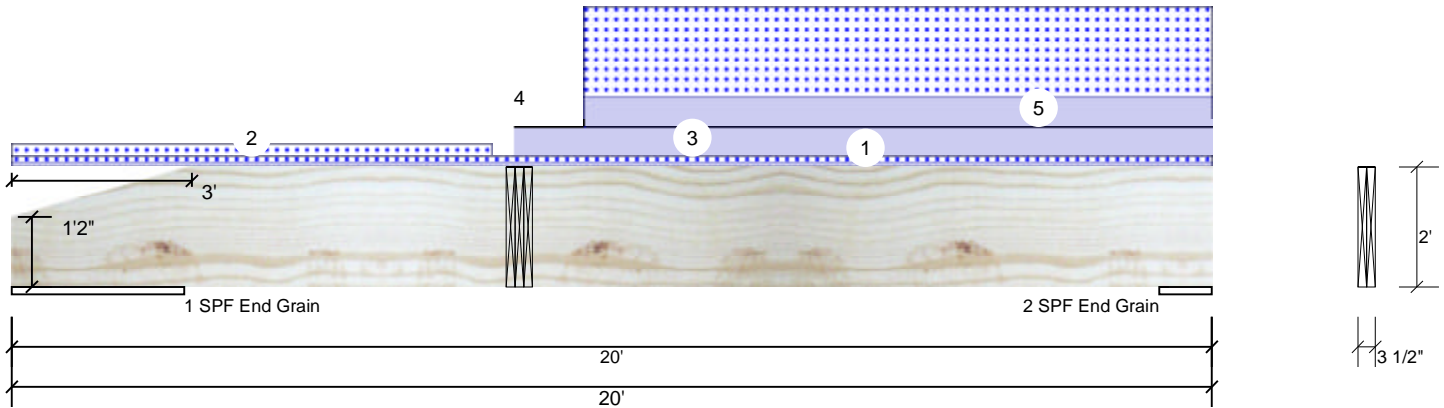


Client: Weaver Homes
 Project: Gaston II (181035B)
 Address: Gaston II (181035B)

Date: 5/12/2022
 Input by: Marshall Naylor
 Job Name: Gaston II
 Project #:

Side GDH Kerto-S LVL 1.750" X 24.000" 2-Ply - PASSED

Level: Level



Member Information

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 - II		
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	414	4766	4182	0	0
2	Vertical	218	4109	4395	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	34.500"	Vert	9%	4766 / 4182	8949	L	D+S
2 - SPF End Grain	10.500"	Vert	28%	4109 / 4395	8504	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	47951 ft-lb	8'5 1/2"	84163 ft-lb	0.570 (57%)	D+S	L
Unbraced	47951 ft-lb	8'5 1/2"	48066 ft-lb	0.998 (100%)	D+S	L
Shear	9556 lb	4'10 1/2"	20608 lb	0.464 (46%)	D+S	L
Lt. Scarf	157 psi, 8784 lb		368 psi	0.427 (43%)	D+S	L
LL Defl inch	0.153 (L/1286)	10'6 3/16"	0.410 (L/480)	0.373 (37%)	S	L
TL Defl inch	0.320 (L/615)	10'4 7/16"	0.547 (L/360)	0.585 (59%)	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 Notches in LVL are in accordance with APA Form No. EWS G535, Figure 1.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Multiple plies must be fastened together as per manufacturer's details.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at a maximum of 3'7 7/16" o.c.
- 7 Bottom must be laterally braced at end bearings.
- 8 Lateral slenderness ratio based on single ply width.

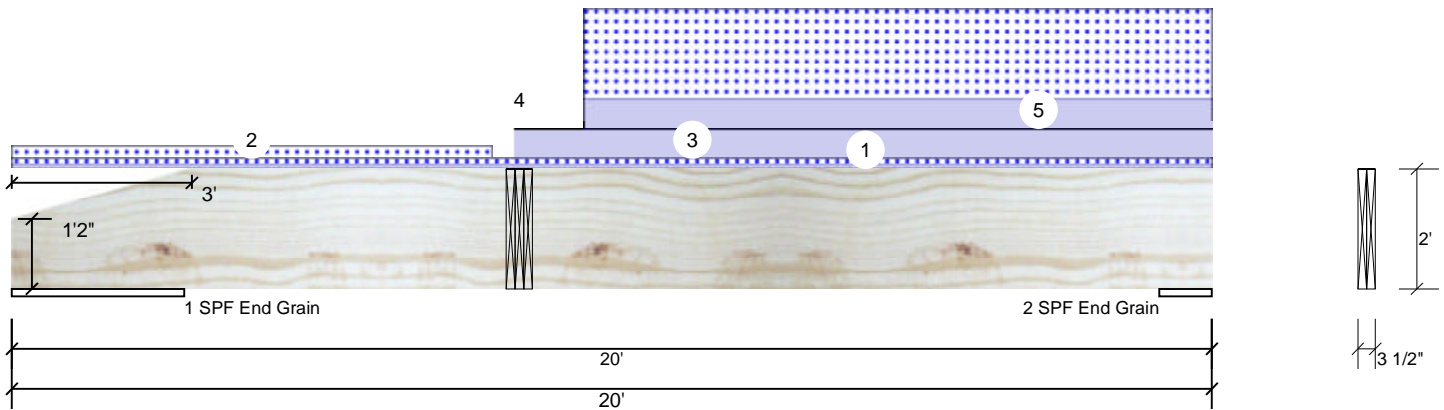
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Tie-In	0-0-0 to 20-0-0	1-0-0	Top	20 PSF	0 PSF	20 PSF	0 PSF	0 PSF	2' Roof
2	Part. Uniform	8-0-0 to 0-0-0		Top	0 PLF	0 PLF	50 PLF	0 PLF	0 PLF	Gable
3	Part. Uniform	8-4-4 to 20-0-0		Top	120 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall

Continued on page 2...

<p>Notes</p> <p>Calculated Structural 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.</p> <p>Lumber</p> <ol style="list-style-type: none"> 1. Dry service conditions, unless noted otherwise 2. LVL not to be treated with fire retardant or corrosive chemicals <p>Handling & Installation</p> <ol style="list-style-type: none"> 1. LVL 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 	<p>6. For flat roofs provide proper drainage to prevent ponding</p>	<p>Manufacturer Info</p> <p>Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us</p>	<p>Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA 28314 910-864-TRUS</p>
		<p>This design is valid until 11/3/2024</p>	

Side GDH Kerto-S LVL 1.750" X 24.000" 2-Ply - PASSED

Level: Level



...Continued from page 1

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
4	Point	8-5-8		Far Face	5449 lb	632 lb	4153 lb	0 lb	0 lb	FB2 Brg 2
5	Part. Uniform Self Weight	9-6-8 to 20-0-0		Far Face	120 PLF 19 PLF	0 PLF	360 PLF	0 PLF	0 PLF	F01

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

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Manufacturer Info

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