

Weaver Development Poplar Elev. C Poplar Elev. C

Date: 3/24/2021

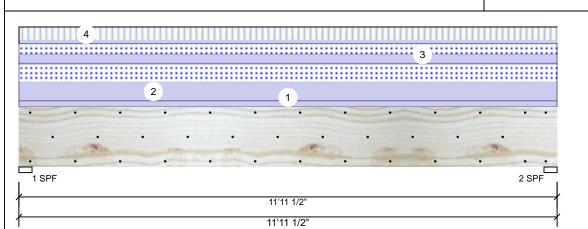
Input by: Christine Shivy Job Name: Poplar

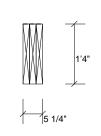
Level: Level

Project #:

Kerto-S LVL 1.750" X 16.000" BM₁

3-Ply - PASSED





Page 1 of 1

Member Information Reactions UNPATTERNED Ib (Uplift) Туре: Girder Application: Floor Brg Dead Wind Const Live Snow Plies: 3 Design Method: ASD 1046 3287 2350 0 0 1 Moisture Condition: Dry **Building Code: IBC/IRC 2015** 1046 3287 2350 0 0 2 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 Ld. Comb. 1 - SPF 3.500" 3287 / 2547 5834 L D+0.75(L+S) 2 - SPF 3.500" 75% 3287 / 2547 5834 I D+0.75(L+S)

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	16187 ft-lb	5'11 3/4"	62010 ft-lb	0.261 (26%)	D+0.75(L+S)	L
Unbraced	16187 ft-lb	5'11 3/4"	16274 ft-lb	0.995 (99%)	D+0.75(L+S)	L
Shear	4898 lb	1'6 5/8"	20608 lb	0.238 (24%)	D+0.75(L+S)	L
LL Defl inch	0.057 (L/2434)	5'11 3/4"	0.288 (L/480)	0.200 (20%)	0.75(L+S)	L
TL Defl inch	0.130 (L/1063)	5'11 3/4"	0.384 (L/360)	0.340 (34%)	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 braced at bearings.
- 6 Bottom braced at bearings.
- 7 Lateral slenderness ratio based on single ply width.

	3	1 7								
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	80 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Load
2	Uniform			Тор	253 PLF	0 PLF	253 PLF	0 PLF	0 PLF	B1
3	Uniform			Near Face	140 PLF	0 PLF	140 PLF	0 PLF	0 PLF	M1
4	Uniform			Far Face	58 PLF	175 PLF	0 PLF	0 PLF	0 PLF	F4
	Self Weight				19 PLF					

Notes

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

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 1/8/2023



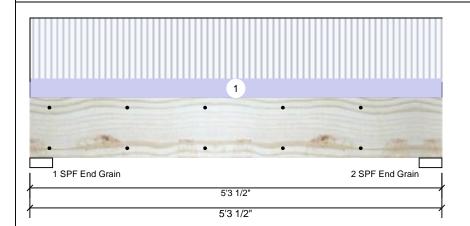
Client: Weaver Development Project: Poplar Elev. C Address:

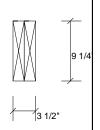
Date: 3/24/2021 Input by: Christine Shivy Job Name: Poplar Poplar Elev. C

Project #:

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

Level: Level





D+L

Page 1 of 1

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

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

Reactions UNPAITERNED Ib (Uplift)									
Brg	Live	Dead	Snow	Wind	Const				
1	2469	842	0	0	0				
2	2469	842	0	0	0				

Analysis Results Analysis Case Actual Comb. Location Allowed Capacity Moment 3654 ft-lb 2'7 3/4" 12542 ft-lb 0.291 (29%) D+L L Unbraced 3654 ft-lb 2'7 3/4" 10922 ft-lb 0.335 (33%) D+L L 2059 lb 1' 6907 lb 0.298 (30%) D+L Shear ī LL Defl inch 0.035 (L/1681) 2'7 3/4" 0.121 (L/480) 0.290 (29%) L TL Defl inch 0.046 (L/1253)

Bearings Bearing Length Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 3.500" 842 / 2469 3310 L D+I End

Grain 842 / 2469 3310 L 2 - SPF 3.500" 31% End Grain

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".

2'7 3/4" 0.161 (L/360) 0.290 (29%) D+L

- 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 Location Trib Width Dead 0.9 Load Type Side Snow 1.15 Wind 1.6 Const. 1.25 Comments Live 1 1 Uniform Top 311 PLF 933 PLF 0 PLF 0 PLF 0 PLF Self Weight 7 PLF

Notes

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

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 1/8/2023

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

Manufacturer Info







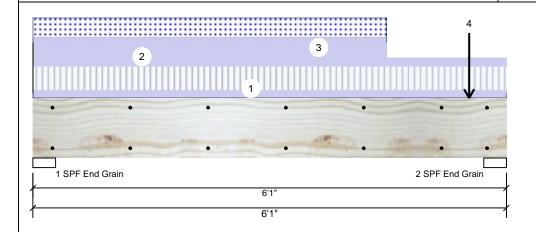
Client: Weaver Development Project: Poplar Elev. C Address: Poplar Elev. C

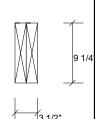
Date: 3/24/2021 Input by: Christine Shivy Job Name: Poplar

Project #:

F. Room W. Hdr. **Kerto-S LVL** 1.750" X 9.250" 2-Ply - PASSED

Level: Level





Page 1 of 1

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

Member Information

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

Reactions UNPATTERNED Ib (Uplift) Brg Dead Wind Const Live Snow 973 1523 795 0 0 1 973 1871 0 0 2 1144

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3235 ft-lb	3' 3/8"	12542 ft-lb	0.258 (26%)	D+L	L
Unbraced	3685 ft-lb	3' 5/16"	10944 ft-lb	0.337 (34%)	D+0.75(L+S)	L
Shear	2105 lb	5'1"	7943 lb	0.265 (26%)	D+0.75(L+S)	L
LL Defl inch	0.027 (L/2474)	3' 1/2"	0.141 (L/480)	0.190 (19%)	0.75(L+S)	L
TL Defl inch	0.059 (L/1152)	3' 1/2"	0.188 (L/360)	0.310 (31%)	D+0.75(L+S)	L

Bearings

Grain

Bearing	Length	Cap. F	React D/L lb	Total	Ld. Case	Ld. Comb.	_
1 - SPF End Grain	3.500"	27%	1523 / 1327	2850	L	D+0.75(L+S)	
2 - SPF End	3.500"	32%	1871 / 1588	3459	L	D+0.75(L+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	107 PLF	320 PLF	0 PLF	0 PLF	0 PLF	F4
2	Uniform			Тор	125 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Load
3	Part. Uniform	0-0-0 to 4-6-8		Тор	264 PLF	0 PLF	264 PLF	0 PLF	0 PLF	B1
4	Point	5-7-4		Тор	740 lb	0 lb	740 lb	0 lb	0 lb	A1SE
	Self Weight				7 PLF					

Notes

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

- 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

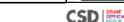
6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 1/8/2023

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

Manufacturer Info







Weaver Development Poplar Elev. C Poplar Elev. C

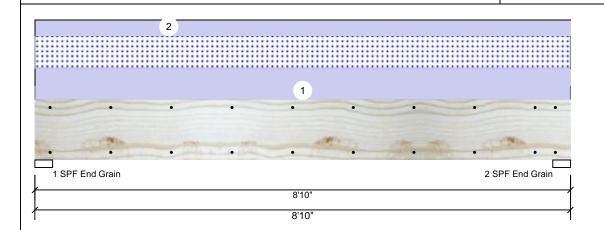
Date: 3/24/2021

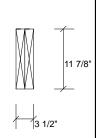
Input by: Christine Shivy Job Name: Poplar

Project #:

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

Level: Level





Page 1 of 1

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

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

Reactions UNPATTERNED Ib (Uplift) Brg Live Dead Wind Const Snow 0 827 521 0 0 1 521 0 827 0 0 2

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2676 ft-lb	4'5"	22897 ft-lb	0.117 (12%)	D+S	L
Unbraced	2676 ft-lb	4'5"	10756 ft-lb	0.249 (25%)	D+S	L
Shear	976 lb	1'2 5/8"	10197 lb	0.096 (10%)	D+S	L
LL Defl inch	0.016 (L/6189)	4'5 1/16"	0.209 (L/480)	0.080 (8%)	S	L
TL Defl inch	0.042 (L/2392)	4'5 1/16"	0.279 (L/360)	0.150 (15%)	D+S	L

Bearings

Bearing Length	Cap. I	React D/L lb	Total	Ld. Case	Ld. Comb.	
1 - SPF 3.500" End Grain	13%	827 / 521	1348	L	D+S	
2 - SPF 3.500" End Grain	13%	827 / 521	1348	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	118 PLF	0 PLF	118 PLF	0 PLF	0 PLF	M1
2	Uniform			Тор	60 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Exterior Loads
	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.

- 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

This design is valid until 1/8/2023

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

Manufacturer Info







Weaver Development Poplar Elev. C Poplar Elev. C

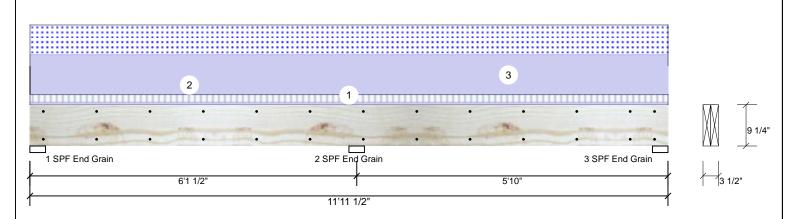
Date: 3/24/2021

Input by: Christine Shivy Job Name: Poplar

Project #:

1.750" X 9.250" Kerto-S LVL 2-Ply - PASSED PB₁

Level: Level



							(1.1.116.)		
Member Inforr	mation	_		Reaction	ns UNPAI	TERNED Ib	(Uplift)		
Type:	Girder	Application:	Floor	Brg	Live	Dead	Snow	Wind	Const
Plies:	2	Design Method:	ASD	1	238	1352	936	0	0
Moisture Condition	n: Dry	Building Code:	IBC/IRC 2015	2	665	3780	2618	0	0
Deflection LL:	480	Load Sharing:	No	3	221	1256	870	0	0
Deflection TL:	360	Deck:	Not Checked						
Importance:	Normal								
Temperature:	Temp <= 100°F								
				Bearing	S				
				Bearing	Length	Cap. Read	ct D/L lb	Total Ld. Case	Ld. Comb.
				1 - SPF End	3.500"	22% 13	322 / 976	2298 L_	D+S
Analysis Result	ts			Grain					
	tual Location	Allowed Capac	city Comb. Cas	2 - SPF	3.500"	61% 384	1 / 2661	6502 LL	D+S

End Grain 3 - SPF 3.500"

Fnd Grain

l	Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
	Neg Moment	-3744 ft-lb	6'1 1/2"	14423 ft-lb	0.260 (26%)	D+S	LL
	Unbraced	-3744 ft-lb	6'1 1/2"	10676 ft-lb	0.351 (35%)	D+S	LL
	Pos Moment	2417 ft-lb	2'6 1/2"	14423 ft-lb	0.168 (17%)	D+S	L_
١	Unbraced	2417 ft-lb	2'6 1/2"	10676 ft-lb	0.226 (23%)	D+S	L_
١	Shear	2604 lb	5'4 1/4"	7943 lb	0.328 (33%)	D+S	LL
1							

LL Defl inch 0.019 (L/3767) 2'11 7/8" 0.147 (L/480) 0.130 (13%) S TL Defl inch 0.042 (L/1677) 2'11 5/16" 0.197 (L/360) 0.210 (21%) 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	32 PLF	94 PLF	0 PLF	0 PLF	0 PLF	F1, F2 & F5
2	Uniform			Тор	125 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Load
3	Uniform			Тор	370 PLF	0 PLF	370 PLF	0 PLF	0 PLF	A2
	Self Weight				7 PLF					

Notes

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

- 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

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

Manufacturer Info

20%

1225 / 922

2146 _L

D+S

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



Page 1 of 1

This design is valid until 1/8/2023 CSD |



Poplar Elev. C Poplar Elev. C

Weaver Development Date:

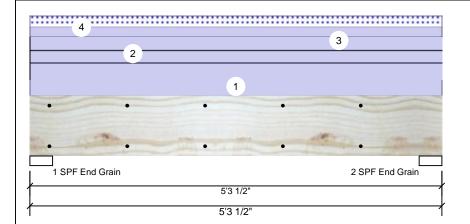
Input by: Christine Shivy Job Name: Poplar

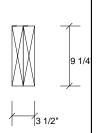
3/24/2021

Project #:

Kerto-S LVL 2-Ply - PASSED 1.750" X 9.250" PB₂

Level: Level





Page 1 of 1

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

Reactions UNPAITERNED Ib (Uplift)											
Brg	Live	Dead	Snow	Wind	Const						
1	0	720	106	0	0						
2	0	720	106	0	0						

Analysis Results Analysis Case Actual Comb. Location Allowed Capacity Moment 795 ft-lb 2'7 3/4" 11288 ft-lb 0.070 (7%) D Uniform Unbraced 795 ft-lb 2'7 3/4" 10138 ft-lb 0.078 (8%) D Uniform 448 lb 4'3 1/2" 6216 lb 0.072 (7%) D Uniform Shear LL Defl inch 0.001 2'7 3/4" 0.121 (L/480) 0.010 (1%) S (L/39203) TL Defl inch 0.012 (L/5023) 2'7 3/4" 0.161 (L/360) 0.070 (7%) D+S

Bearings

Bearing	Length	Cap. Re	act D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	8%	720 / 106	826	L	D+S
2 - SPF End Grain	3.500"	8%	720 / 106	826	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	125 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Load
2	Uniform			Тор	50 PLF	0 PLF	0 PLF	0 PLF	0 PLF	A1GE
3	Uniform			Тор	50 PLF	0 PLF	0 PLF	0 PLF	0 PLF	KW5
4	Uniform			Тор	40 PLF	0 PLF	40 PLF	0 PLF	0 PLF	Roof Load
	Self Weight				7 PLF					

Notes

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

- 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
- 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 1/8/2023

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

Manufacturer Info







Poplar Elev. C

Weaver Development Date: Input by: Poplar Elev. C

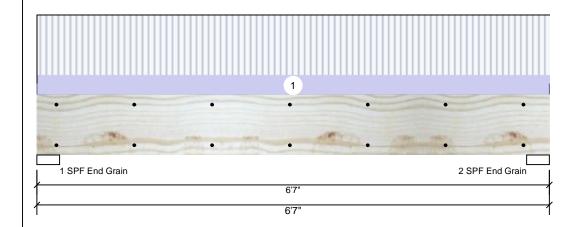
Project #:

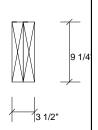
3/24/2021 Christine Shivy Job Name: Poplar

Sliding Door Hdr. **Kerto-S LVL** 1.750" X 9.250"

2-Ply - PASSED

Level: Level





Page 1 of 1

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

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

Reactions UNPATTERNED Ib (Uplift) Brg Dead Wind Const Live Snow 2051 708 0 0 0 1 2051 708 0 0 0 2

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3931 ft-lb	3'3 1/2"	12542 ft-lb	0.313 (31%)	D+L	L
Unbraced	3931 ft-lb	3'3 1/2"	9934 ft-lb	0.396 (40%)	D+L	L
Shear	1921 lb	1'	6907 lb	0.278 (28%)	D+L	L
LL Defl inch	0.053 (L/1383)	3'3 1/2"	0.153 (L/480)	0.350 (35%)	L	L
TL Defl inch	0.071 (L/1028)	3'3 1/2"	0.204 (L/360)	0.350 (35%)	D+L	L

Bearings

Bearing	Length	Cap. R	eact D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	26%	708 / 2051	2759	L	D+L
2 - SPF End Grain	3.500"	26%	708 / 2051	2759	L	D+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 Trib Width Side Dead 0.9 Comments Location Live 1 Snow 1.15 Wind 1.6 Const. 1.25 1 Uniform Top 208 PLF 623 PLF 0 PLF 0 PLF 0 PLF F1 & F2

> Self Weight 7 PLF

Notes

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

- 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

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 1/8/2023

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

Manufacturer Info



