

Glover Newport Newport Date: 7/29/2022 Input by: Christine Shivy

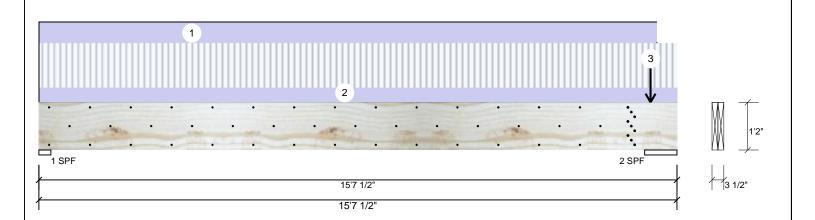
Job Name: Newport

Project #:

1.750" X 14.000" **Kerto-S LVL** BM₁

2-Ply - PASSED

Level: Level



Member Infor	mation			Read	ctions UNP	ATTERN	IED lb (Uplift)			
Type:	Girder	Application:	Floor	Brg	Direction	Live	Dead	Snow	Wind	Const
Plies:	2	Design Method:	ASD	1	Vertical	2087	1723	0	0	0
Moisture Conditio	n: Dry	Building Code:	IBC/IRC 2015	2	Vertical	5663	2921	0	0	0
Deflection LL:	480	Load Sharing:	No							
Deflection TL:	360	Deck:	Not Checked							
Importance:	Normal - II									
Temperature:	Temp <= 100°F									
				Bear	rings					
				Bea	aring Length	Dir.	Cap. React D/L lt	o Total	Ld. Case	Ld. Comb.
				1 -	SPF 3.500"	Vert	73% 1723 / 208	7 3811	L	D+L
				2-	SPF 9.500"	Vert	61% 2921 / 5663	3 8584	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	13549 ft-lb	7'6 3/4"	26999 ft-lb	0.502 (50%)	D+L	<u>L</u>
Unbraced	13549 ft-lb	7'6 3/4"	13579 ft-lb	0.998 (100%)	D+L	L
Shear	3518 lb	13'8"	10453 lb	0.337 (34%)	D+L	L
LL Defl inch	0.197 (L/894)	7'6 13/16"	0.367 (L/480)	0.537 (54%)	L	L
TL Defl inch	0.360 (L/489)	7'6 13/16"	0.489 (L/360)	0.736 (74%)	D+L	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 3 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 Concentrated load fastener specification is in addition to hanger fasteners if a hanger is
- 5 Simpson fasteners applied from a single side of the member use tip values where published.
- 6 Girders are designed to be supported on the bottom edge only.
- 7 Top loads must be supported equally by all plies.
- 8 Top must be laterally braced at a maximum of 7'6 1/16" o.c.
- 9 Bottom must be laterally braced at end bearings.
- 10 Lateral slenderness ratio based on single ply width.

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

- L. UVL 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

Manufacturer Info

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



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This design is valid until 11/3/2024



BM1

Kerto-S LVL

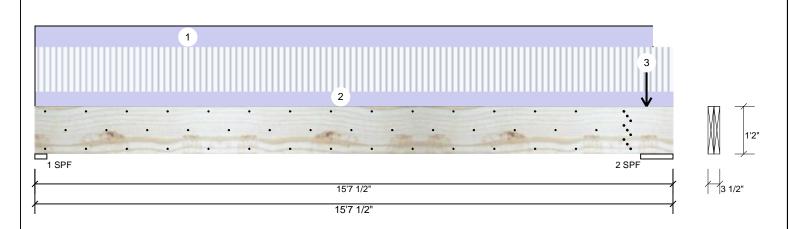
Client: Project: Address:

Glover Date: 7/29/2022 Newport Input by: Christine Shivy Job Name: Newport Newport

Project #:

1.750" X 14.000" 2-Ply - PASSED

Level: Level



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 15-1-8		Тор	125 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Exterior Wall
2	Uniform			Near Face	92 PLF	276 PLF	0 PLF	0 PLF	0 PLF	F2
3	Point	14-11-12		Near Face	1146 lb	3438 lb	0 lb	0 lb	0 lb	ВМ3
	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. IVI beams must not be out or drilled

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

 3. Damaged Beams must not be used

 4. Design assumes top edge is laterally restrained

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

For flat roofs provide proper drainage to prevent ponding

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This design is valid until 11/3/2024



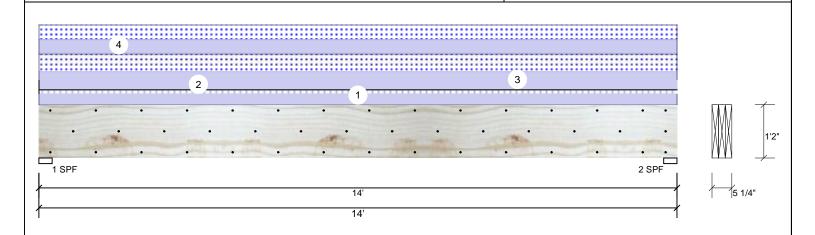
Glover Newport Newport Date: 7/29/2022

Input by: Christine Shivy Job Name: Newport

Project #:

1.750" X 14.000" 3-Ply - PASSED **Kerto-S LVL** BM₂

Level: Level



Member Information					tions UNP	ATTERNE	D lb (Uplift)			
Type:	Girder	Application:	Floor	Brg	Direction	Live	Dead	Snow	Wind	Const
Plies:	3	Design Method:	ASD	1	Vertical	280	3670	2576	0	0
Moisture Condition	: Dry	Building Code:	IBC/IRC 2015	2	Vertical	280	3670	2576	0	0
Deflection LL:	480	Load Sharing:	Yes							
Deflection TL:	360	Deck:	Not Checked							
Importance:	Normal - II									
Temperature:	Temp <= 100°F									
				Bear	ings					
				Bea	ring Length	Dir. C	Cap. React D/L lb	Total	Ld. Case	Ld. Comb.
				1 - 3	SPF 3.500"	Vert	80% 3670 / 2576	6246	L	D+S
A				2 - 9	SPF 3.500"	Vert	80% 3670 / 2576	6246	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	20454 ft-lb	7'	48437 ft-lb	0.422 (42%)	D+S	L
Unbraced	20454 ft-lb	7'	20467 ft-lb	0.999 (100%)	D+S	L
Shear	5376 lb	12'6 1/2"	18032 lb	0.298 (30%)	D+S	L
LL Defl inch	0.129 (L/1258)	7' 1/16"	0.339 (L/480)	0.382 (38%)	S	L
TL Defl inch	0.313 (L/519)	7' 1/16"	0.451 (L/360)	0.694 (69%)	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 3 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 a maximum of 7'6 3/4" 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	Uniform			Тор	125 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Load
2	Uniform			Far Face	15 PLF	40 PLF	0 PLF	0 PLF	0 PLF	Floor Load
3	Uniform			Тор	199 PLF	0 PLF	199 PLF	0 PLF	0 PLF	E1
4	Uniform			Near Face	169 PLF	0 PLF	169 PLF	0 PLF	0 PLF	A4
	Self Weight				16 PLF					

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 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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CSD I



BM3

Client: Project: Address:

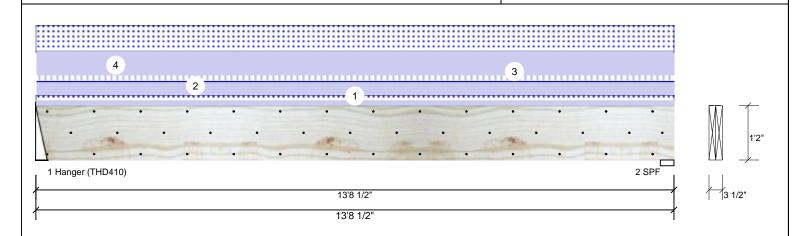
Glover Date: 7/29/2022 Newport Input by: Christine Shivy Job Name: Newport Newport

Project #:

1.750" X 14.000" **Kerto-S LVL**

2-Ply - PASSED

Level: Level



Member Infor	mation			Read	tions UNP	ATTERN	NED II	(Uplift)			
Type:	Girder	Application:	Floor	Brg	Direction	Live		Dead	Snow	Wind	Const
Plies:	2	Design Method:	ASD	1	Vertical	273	3	2808	1777	0	0
Moisture Condition	n: Dry	Building Code:	IBC/IRC 2015	2	Vertical	275	;	2825	1788	0	0
Deflection LL:	480	Load Sharing:	No								
Deflection TL:	360	Deck:	Not Checked								
Importance:	Normal - II										
Temperature:	Temp <= 100°F										
				Bear	ings						
				Bea	ring Length	Dir.	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.
				1 -	3.000"	Vert	52%	2808 / 1777	4584	L	D+S
				—— Har	iger						
Analysis Resu	lts			2 -	SPF 3.500"	Vert	89%	2825 / 1788	4612	L	D+S

	Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
	Moment	14816 ft-lb	6'10"	31049 ft-lb	0.477 (48%)	D+S	L
	Unbraced	14816 ft-lb	6'10"	14824 ft-lb	0.999 (100%)	D+S	L
	Shear	3769 lb	1'5"	12021 lb	0.314 (31%)	D+S	L
	LL Defl inch	0.128 (L/1250)	6'10"	0.332 (L/480)	0.384 (38%)	S	L
	TL Defl inch	0.329 (L/485)	6'10"	0.443 (L/360)	0.743 (74%)	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 3 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 Fill all hanger nailing holes.
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Top loads must be supported equally by all plies.
- 7 Top must be laterally braced at a maximum of 6'10 7/8" o.c.
- 8 Bottom must be laterally braced at end bearings.
- 9 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			Far Face	45 PLF	0 PLF	45 PLF	0 PLF	0 PLF	M1
2	Uniform			Тор	125 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Exterior Wall
3	Uniform			Far Face	15 PLF	40 PLF	0 PLF	0 PLF	0 PLF	Floor Load
4	Uniform			Тор	215 PLF	0 PLF	215 PLF	0 PLF	0 PLF	E1
	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

This design is valid until 11/3/2024

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Glover Newport Newport Date: 7/29/2022

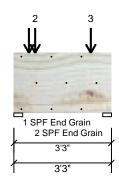
Input by: Christine Shivy Job Name: Newport

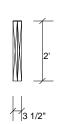
Project #:

1.750" X 24.000" **Kerto-S LVL** BM4

2-Ply - PASSED

Level: Level





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Member Inf	formation	•	•				Reac	tion	ns UNPA	ATTERN	IED II	b (Uplift)	•		
Type:	Girder		Application	n: F	loor		Brg	Dire	ection	Live		Dead	Snow	Wind	Const
Plies:	2		Design M	lethod: A	ASD		1	Verti	ical	3963		1464	0	0	0
Moisture Cond	dition: Dry		Building (Code: II	BC/IRC 2015		2	Verti	ical	1285		471	0	0	0
Deflection LL:	480		Load Sha	ring: N	No										
Deflection TL:	360		Deck:	N	Not Checked										
Importance:	Normal - II														
Temperature:	Temp <= 10	00°F													
							Bear	ings	6						
							Bea	ring	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
							1 - 8	SPF	3.500"	Vert	53%	1464 / 3963	5428	L	D+L
							End								
Analysis Re	sults						Grai								
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case	2-8		3.500"	Vert	17%	471 / 1285	1756	L	D+L
Moment	2627 ft-lb	8 1/2"	73185 ft-lb	0.036 (4%)	D+L	L	End Grai								
Unbraced	2627 ft-lb	8 1/2"	57918 ft-lb	0.045 (5%)	D+L	L		-							
Shear	1148 lb	11 1/2"	17920 lb	0.064 (6%)	D+L	L									
LL Defl inch	0.003	8 1/2"	0.070 (L/480)	0.040 (4%)	L	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.

8 1/2" 0.094 (L/360) 0.041 (4%) D+L

- 2 Fasten all plies using 3 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.

(L/11939) TL Defl inch 0.004 (L/8816)

- 7 Bottom must be laterally braced at end bearings.
- 8 Lateral slenderness ratio based on single ply width.

		F-7									
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments	
1	Point	0-6-0		Тор	125 lb	0 lb	0 lb	0 lb	0 lb	Wall Load	
	Bearing Length	0-3-8									
2	Point	0-8-8		Тор	1562 lb	4685 lb	0 lb	0 lb	0 lb	BM2	
	Bearing Length	0-3-8									

Continued on page 2...

Notes

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

 - 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

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

Manufacturer Info

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Glover Newport Newport Date: 7/29/2022 Input by: Christine Shivy

Job Name: Newport

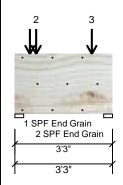
Project #:

2-Ply - PASSED

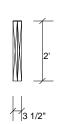
Kerto-S LVL BM4

1.750" X 24.000"

Level: Level



Continued from page 1



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Continued from	page i										
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments	
3	Point	2-6-12		Тор	188 lb	563 lb	0 lb	0 lb	0 lb	F1	
	Bearing Length	0-3-8									
	Self Weight				19 PLF						

Notes

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 LVL not to be treated with fire retardant or corrosive

Handling & Installation

- Handling & Installation

 1. IVI 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

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6. For flat roofs provide proper drainage to prevent ponding

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Glover Newport Newport Date: 7/29/2022

Input by: Christine Shivy Job Name: Newport

Project #:

Kerto-S LVL 3-Ply - PASSED 1.750" X 24.000" **GDH**

Level: Level

Reactions UNPATTERNED Ib (Uplift)

Dir.

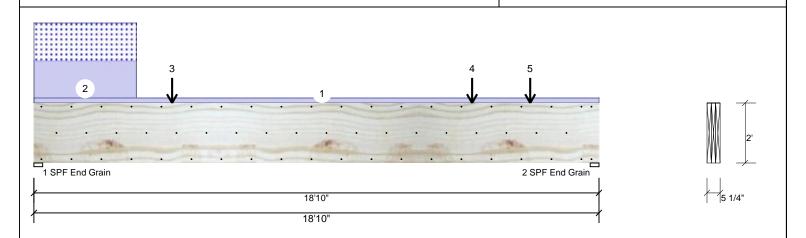
Vert

Vert

Cap. React D/L lb

7106 / 6277

7033 / 6204



I VICITIDEI IIII OIT	nation			rtcu	Ctions Oiti		o io (opinit)			
Type:	Girder	Application:	Floor	Brg	Direction	Live	Dead	Snow	Wind	Const
Plies:	3	Design Method:	ASD	1	Vertical	0	7106	6277	0	0
Moisture Condition	: Dry	Building Code:	IBC/IRC 2015	2	Vertical	0	7033	6204	0	0
Deflection LL:	480	Load Sharing:	Yes							
Deflection TL:	360	Deck:	Not Checked							
Importance:	Normal - II									
Temperature:	Temp <= 100°F									
	•			Bea	rings					

Bearing Length

1 - SPF 3.500"

2 - SPF 3.500"

End Grain

End Grain

Analysis Results

Member Information

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	48572 ft-lb	7'11 1/16"	131295 ft-lb	0.370 (37%)	D+S	L
Unbraced	48572 ft-lb	7'11 1/16"	48751 ft-lb	0.996 (100%)	D+S	L
Shear	13091 lb	16'6 1/2"	30912 lb	0.423 (42%)	D+S	L
LL Defl inch	0.147 (L/1501)	9'4 11/16"	0.460 (L/480)	0.320 (32%)	S	L
TL Defl inch	0.316 (L/698)	9'4 13/16"	0.613 (L/360)	0.516 (52%)	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 3 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 a maximum of 5'5 15/16" 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	Uniform			Тор	60 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Exterior Load	
2	Part. Uniform	0-0-0 to 3-5-0		Тор	490 PLF	0 PLF	490 PLF	0 PLF	0 PLF	B1	
3	Point	4-7-4		Тор	4669 lb	0 lb	4669 lb	0 lb	0 lb	B2	
	Bearing Length	0-3-8									

Continued on page 2...

Notes Handling & Installation

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 LVL not to be treated with fire retardant or corrosive
- L. UVL 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

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Total Ld. Case

13383 L

13236 L

Ld. Comb.

D+S

D+S



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This design is valid until 11/3/2024





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Client: Project: Address:

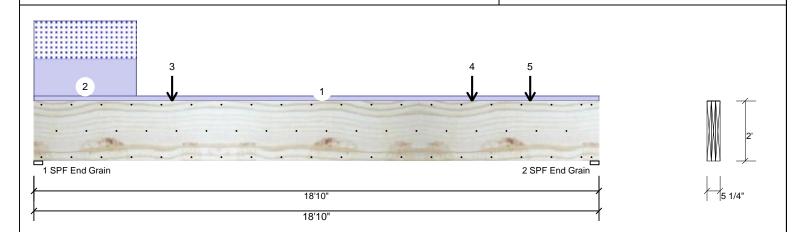
Glover Newport Newport Date: 7/29/2022

Input by: Christine Shivy Job Name: Newport

Project #:

1.750" X 24.000" 3-Ply - PASSED **Kerto-S LVL GDH**

Level: Level



Continued from p	Conunued 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	14-7-4		Тор	4669 lb	0 lb	4669 lb	0 lb	0 lb	B2	
	Bearing Length	0-3-8									
5	Point	16-6-8		Тор	1469 lb	0 lb	1469 lb	0 lb	0 lb	B3	
	Bearing Length	0-3-8									
	Self Weight				28 PLF						

Notes

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 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
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 1. IVI beams must not be out or drilled

 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastering 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

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

Manufacturer Info

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