

Version 19.80.203 Powered by iStruct™

	Client: Signature Home B	uilders Date:	9/21/2020	Page 2 of 4
	Project:	Input by:	Hampton Horrocks	-
isDesign	Address:	Job Nam		
		Project #:	-	
	4 750" V 44 075		Level: Level	
BM1 Kerto-S LVL	1./50" X 11.8/5	" 2-Ply - PASSED		
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			2	צ  V V
				Å  Å   11 7/8"
	• •	• • •	• • • • • • • • • • • • • • • • • • • •	∠ /\\\
				$\leftarrow$ $\Box$ $\rightarrow$
1 SPF			2 SPF	
↓ <u>/</u>	9'7"			3 1/2"
1	9'7"		1	
Multi-Ply Analysis				
Fasten all plies using 2 rows of 7	10d Box nails (.128x3") at 12"	o.c Maximum end distance n	ot to exceed 6"	
Capacity 0.0 °				
Load 0.0 F				
	.7 PLF			
Yield Limit per Fastener 81.9	) lb.			
Yield Mode IV Edge Distance 1 1/2	0"			
Edge Distance 1 1/2 Min. End Distance 3"	2			
Load Combination				
Duration Factor 1.00	)			
	-			
Notos	chemicals	6. For flat roofs provide proper drainage to prevent	Manufacturer Info	Comtech, Inc.
	Handling & Installation	ponding	Metsä Wood	Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC
structural adequacy of this component based on the 1 design criteria and loadings shown. It is the 2	1. LVL beams must not be cut or drilled 2. Refer to manufacturer's product information		301 Merritt 7 Building, 2nd Floor	USA 28314
responsibility of the customer and/or the contractor to ensure the component suitability of the intended	regarding installation requirements, multi-ply fastening details, beam strength values, and code		Norwalk, CT 06851 (800) 622-5850	910-864-TRUS
application, and to verify the dimensions and loads.	approvals 3. Damaged Beams must not be used		www.metsawood.com/us	
1. Dry service conditions, unless noted otherwise	<ol> <li>Damaged Bearlis must not be used</li> <li>Design assumes top edge is laterally restrained</li> <li>Provide lateral support at bearing points to avoid</li> </ol>		ICC-ES: ESR-3633	соттесн
2. LVL not to be treated with fire retardant or corrosive	lateral displacement and rotation	This design is valid until 11/13/2022		Connech

2		Client: Project:	Signature Ho	me Builders		ate:	9/21/2020 Hampton Horrocks			Page 3 of
l is	sDesign	Address:					Chris Foisy Resider	ice		
					Р	Project #:	J0920-4348			
GDH	Kerto-S LVL	. 1.750" )	<b>〈</b> 24.00	0" 2-Ply	- PASSE	D Le	vel: Level			
			<u></u>	<u> </u>	2	5	4			
		1			V					
										M
i.	and the second second		· · ·	1	· · ·	-	ita i	•		2'
	STATES IN LA STREET, ST.			and a standard and a		•				
1 SPF							2 SPI	-  .		
1			1	9'3"						3 1/2"
1			1	9'3"				1		
lember Ir	nformation				Reaction	ns UNPA	TTERNED Ib (I	Jplift)		
Type:	Girder 2	Applicat		loor	Brg	Live	Dead	Snow	Wind	Const
Plies: Moisture Cor		Design I Building		SD 3C/IRC 2015	1	1602 1653	4179 4276	3314 2819	0	0 0
Deflection LL	•	Load Sh		0	2	1055	4270	2019	0	0
Deflection TL	.: 360	Deck:	N	ot Checked						
Importance:	Normal									
Temperature	: Temp <= 100°F				Bearing	<u>د</u>				
						Length	Cap. React D	)/LID T	otal Ld. Case	Ld. Comb.
					1 - SPF	-	88% 4179/		'866 L	D+0.75(L+S)
					2 - SPF	6.000"	85% 4276 /	3354 7	'630 L	D+0.75(L+S)
nalysis R		Allowed	Conceitu	Camb Caa						
Analysis Moment		2'7 1/4" 84163 ft-lb	Capacity 0 507 (51%	Comb. Case ) D+0.75(L+S) L	e					
Unbraced		2'7 1/4" 42861 ft-lb		) D+0.75(L+S) L						
Shear	7114 lb 10	6'9 7/8" 20608 lb		) D+0.75(L+S) L						
LL Defl inch	0.171 (L/1289)	10' 0.460 (L/480	) 0.370 (37%	) 0.75(L+S) L						
TL Defl inch	ר 0.368 (L/600) 1	0' 5/16" 0.613 (L/360	) 0.600 (60%	) D+0.75(L+S) L						
esign No	otes									
1 Fasten all to exceed	plies using 3 rows of 10 6".	d Box nails (.128x3") a	at 12" o.c. Max	kimum end distance i	not					
	ast page of calculations f	or fasteners required f	or specified lo	ads.						
	e designed to be suppor must be supported equa		e only.							
	be laterally braced at a n									
	aced at bearings.									
7 Lateral sie	enderness ratio based or Load Type		Trib Width	Side Dead	0.9 Live	1 Snow	1.15 Wind 1.6	Const 1	.25 Comment	s
1	Part. Uniform	0-0-0 to 11-7-4		Top 338			PLF 0 PLF		25 00mmen PLF B1/2	
2	Point	12-7-4			12 lb 1544 l		97 lb 0 lb		0 lb B2GRD	
3	Tapered Start	12-7-4		Top 155			PLF 0 PLF		PLF gable	
-	End	19-3-0		105			PLF 0 PLF		PLF	
4	Part. Uniform	13-7-4 to 19-3-0			PLF 0 PL		PLF 0PLF		PLF roof	
5	Part. Uniform	13-7-4 to 19-3-0			PLF 40 PL		PLF 0 PLF		PLF floor	
-	Self Weight				PLF	·				
Notes		chemicals		6. For flat roofs pro	ovide proper drainage to	prevent M	anufacturer Info		Comtech, Inc. 1001 S. Reilly Road	. Suite #639
Calculated Structure structural adequacy	ed Designs is responsible only of the of this component based on the	Handling & Installatio		ponding		M	etsä Wood )1 Merritt 7 Building, 2r	d Floor	Fayetteville, NC USA	, _0.0 ,000
lesign criteria an esponsibility of the	nd loadings shown. It is the customer and/or the contractor to	2. Refer to manufacture regarding installation	's product inform requirements, m	ulti-ply		N	orwalk, CT 06851		28314 910-864-TRUS	
application, and to v	onent suitability of the intended erify the dimensions and loads.	fastening details, beam s approvals	trength values, and	code		Ŵ	00) 622-5850 ww.metsawood.com/us			
.umber I. Dry service cond	litions, unless noted otherwise	<ol> <li>Damaged Beams must no</li> <li>Design assumes top edge</li> <li>Provide lateral support a</li> </ol>	is laterally restrained t bearing points to	avoid		IC	C-ES: ESR-3633			Tecu
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GDH Kerto-S LVL 1.750" X 24.000"	2-Plv - PASSED	Level: Level	
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			M
		1/2"	W
		<del>,</del>	2'
<mark></mark>		<u> </u>	
1 SPF		<sub>2 SPF</sub> A	
19'3"			ີ   <b>]</b> 3 1/2"
19'3"		ł	
Multi-Ply Analysis			
Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" of	o.c Maximum end distand	e not to exceed 6"	
Capacity 0.0 %			
Load 0.0 PLF			
Yield Limit per Foot 245.6 PLF			
Yield Limit per Fastener 81.9 lb.			
Yield Mode IV Edge Distance 1 1/2"			
Min. End Distance 3"			
Load Combination			
Duration Factor 1.00			
		Manufacturer Info	Comtech, Inc.
Notes chemicals Calculated Structured Designs is responsible only of the Handling & Installation	<ol><li>For flat roofs provide proper drainage to pre ponding</li></ol>	Metsä Wood	<ul> <li>1001 S. Reilly Road, Suite #639</li> <li>Fayetteville, NC</li> </ul>
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2. LVL not to be treated with fire retardant or corrosive attrait displacement and rotation			