

	-		Client:	Wellco Contractors	3	Date:	9/15/2022	Page 2 of 8
1	ioDeeirm		Project:	Plan 7		Input b	y: Jonathan Landry	
	IsDesign		Address:	152 Otter Hole [Kenly NC 2754]	Drive 2	Job Na Project	me: Lot 115 Hidden Lakes	
	Korto S	1 \/I	1 750"		2 DIV		Level: Level	
DIVI	Rerio-5	LVL	1.750	X 9.250	2-Piy	- PASSED		
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•	•		•	•	•	• •	• •	•¥ W [^{9 1/4} "
1 SP	F End Grain						2 SPF	End Grain
				1	012 1/0"			
					010 4 /0"			
				1	231/2"			I
Multi-Ply	y Analysis							
Fasten all	l plies using 2 ro	ows of 10d	Box nails (.	128x3") at 12"	o.c Maximu	um end distance	not to exceed 6".	
Capacity Load		0.0 % 0.0 PLF						
Yield Limit p	er Foot	163.7 PL	F					
Yield Limit p Vield Mode	er Fastener	81.9 lb.						
Edge Distan	ce	1 1/2"						
Min. End Dis	stance	3"						
Duration Fac	ctor	1.00						
							Manufacturer Info	Comtech. Inc.
Notes Calculated Struc	ctured Designs is responsible	chem only of the Handl	nicals	on	For flat roofs prov ponding	ide proper drainage to preven	Metsä Wood	1001 S. Reilly Road, Suite #639 Fayetteville, NC
structural adequidesign criteria	and loadings shown. It	ed on the 1. LVL I t is the 2. Refe	beams must not be cu r to manufacture	it or drilled r's product information			301 Merritt 7 Building, 2nd Floo Norwalk, CT 06851	r USA 28314 910-864-TRUS
ensure the co application, and	omponent suitability of the to verify the dimensions and lo	intended faste ads. appr	rding installation ning details, beam s ovals	requirements, multi-ply strength values, and code			(800) 622-5850 www.metsawood.com/us	
Lumber	conditions, unless noted other	3. Dam 4. Desi	aged Beams must not gn assumes top edge	t be used is laterally restrained				
2. LVL not to b	e treated with fire retardant or	corrosive 5. Provi latera	ide lateral support a al displacement and ro	to bearing points to avoid botation	This design is v	valid until 11/3/2024		соттесн



Client: Wellco Contracto	ors Date:	9/15/2022	Page 4 of 8
Project: Plan 7 isDesign Address: 152 Otter Hole	e Drive Job Nar	: Jonathan Landry ne: Lot 115 Hidden Lakes	
Kenly, NC 275	42 Project a	#: J0922-4635	
BM2 Kerto-S LVL 1.750" X 16.000'	' 2-Ply - PASSED	Level: Level	
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		۲ ای	M
	• • • •	\cdot \cdot \cdot	1'4"
	• • •		
1011			
120			5 1/2
1 120		I	
Multi-Ply Analysis			
Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12	2" o.c Maximum end distance r	not to exceed 6".	
Capacity 52.1 % Load 128.0 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 D+L			
Duration Factor 1.00			
Nata	6. For flat roofs provide proper drainage to accurate	Manufacturer Info	Comtech, Inc.
Calculated Structured Designs is responsible only of the structural adequacy of this component based on the 1. LVL beams must not be cut or drilled	ponding	Metsä Wood 301 Merritt 7 Building, 2nd Floor	Fayetteville, NC
eesign criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the linended fastening details, beam strength values, and coc	on ly le	Norwalk, CT 06851 (800) 622-5850	20314 910-864-TRUS
approvals Lumber 1. Dry service conditions unless noted otherwise 1. Dry service conditions unless noted otherwise 1. Dry service conditions unless noted otherwise		www.metsawood.com/us	
2. LVL not to be treated with fire retardant or corrosive . Provide lateral support at bearing points to avoid lateral displacement and rotation	This design is valid until 11/3/2024		COMTECH



CSD DESIGN



Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. except for regions covered by concentrated load fastening. Maximum end distance not to exceed 6".

Capacity	80.7 %
Load	228.0 PLF
Yield Limit per Foot	282.4 PLF
Yield Limit per Fastener	94.1 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	D+S
Duration Factor	1.15

Concentrated Load

Fasten at concentrated side load at 7-5-0 with a minimum of (6) – 10d Box nails (.128x3") in the

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Min/Max fastener distances for Concentrated Side Loads





Ispecies Address 122 Otter Hole Drive Journame Popetaries Popetaries Popetaries Popetaries GDH Kerto-S LVL 1.750" X 14.000" 2-Ply - PASSED Lowel: Lowel Lowel: Lowel Image: State of the st	
GDH Kerto-S LVL 1.750" X 14.000" 2-Ply - PASSED Lord: Lord 	
1 SPF End Grain 2 SPF End Grain 1 SPF End Grain 16'10" 1 16'10" 16'10" whit-Ply Analysis sten all plies using 3 rows of 10d Box nails (128x3") at 12" o.c Maximum end distance not to exceed 6". addy 0.0 % d Unit Ply Analysis sten all plies using 3 rows of 10d Box nails (128x3") at 12" o.c Maximum end distance not to exceed 6". add 0.0 PLF 0.0 % d Lining pr Foot d Stance 10. d Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan= 200 PLF d Colspan= 200 PLF d Colspa= 200 PLF	
19PF End Gram 2 SPF End Gram 2 SPF End Gram 1610" 19PF End Gram 2 SPF End Gram 1610" 1010 101 101 101 101 101 101 101 101 10	
1 SPF End Grain 2 SPF End Grain 16'10' 16'10' 16'10' 16'10' ulti-Ply Analysis 5ten all plies using 3 rows of 10d Box nails (.128x3'') at 12" o.c Maximum end distance not to exceed 6". availy aulty 0.0 % d 0.0 PLF d Limt per Fastener 81.9 B. d Mode V je Distance 1'2' End Distance 3' d Combination 1.00	
1 SPF End Grain 2 SPF End Grain 1 SPF End Grain 16'10" 1 Idi 10" 16'10" Idi 10"	
1 SPF End Grain 2 SPF End Grain 2 SPF End Grain 16'10" 16'10" Idf: Ply Analysis tten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c Maximum end distance not to exceed 6". addy 0.0% d 0.	<u>+</u> ∭ _⊥ - _{3 1/2"}
16'10' Idi'10' Idi'	3 1/2"
16'10' 1 alti-Ply Analysis sten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c Maximum end distance not to exceed 6". work 0.0 PLF d Limit per Foot 245.6 PLF d Limit per Foot 245.6 PLF d Limit per Foot 10' d Mode IV e Distance 3'' d Combination 1.00	
ulti-Ply Analysis sten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c Maximum end distance not to exceed 6". vacity d 00 PLF d Limit per Fostener 81.9 lb. d Mode IV e Distance 3" d Combination ation Factor 1.00	
ten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c Maximum end distance not to exceed 6".	
Limit per Foot 245.8 PLF Limit per Fastener 81.9 lb. Mode V Distance 11/2" End Distance 3 Combination tion Factor 1.00	
Limit per Fastener 81.9 lb. Mode IV Distance 11/2" End Distance 3" Combination tion Factor 1.00	
Mode V Distance 11/2" End Distance 3" Combination	
End Distance 3° Combination tion Factor 1.00	
I Combination tion Factor 1.00	
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onsibility of the customer and/or the contractor to regarding installation requirements, multi-ply fastening details, beam strength values, and code (800) 622-5850	Inc. eilly Road, Suite #639 e, NC
cation, and to verify the dimensions and loads. approvals www.metsawood.com/us nber A Decision periment on edge is laterally instantiated	Inc. eilly Road, Suite #639 ie, NC
Dry service conditions, unless noted otherwise LVL not to be treated with fire retardant or corrosive LVL not to be treated with fire retardant or corrosive lateral displacement and rotation This design is until until 44/0/0004	Inc. eilly Road, Suite #639 le, NC RUS

This design is valid until 11/3/2024

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