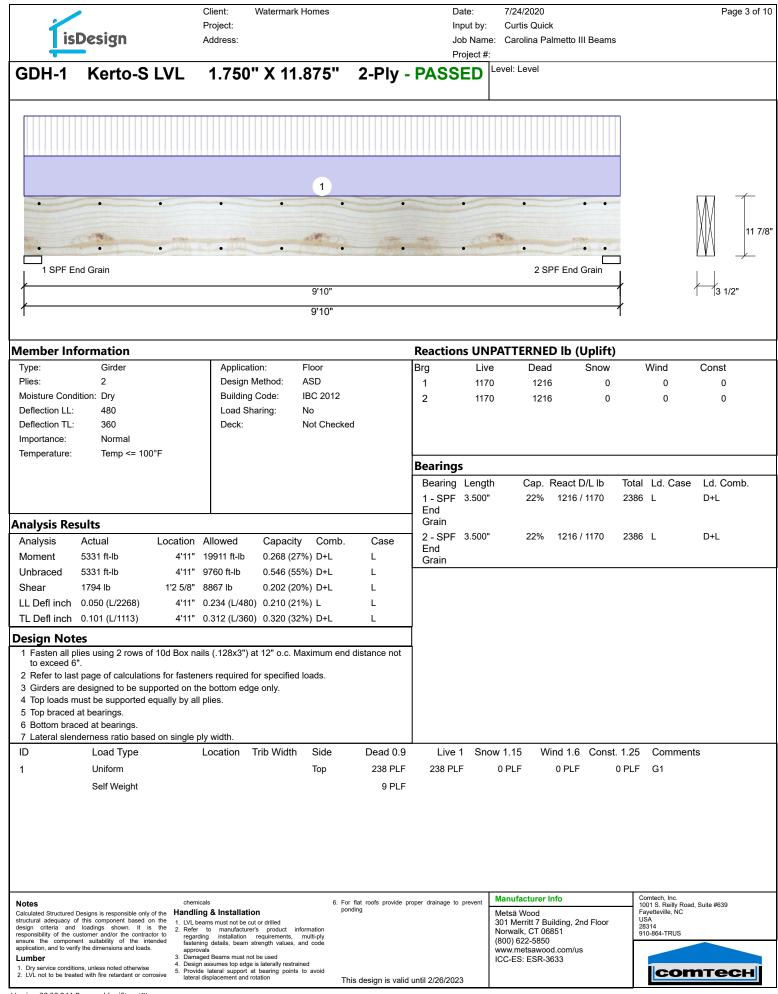
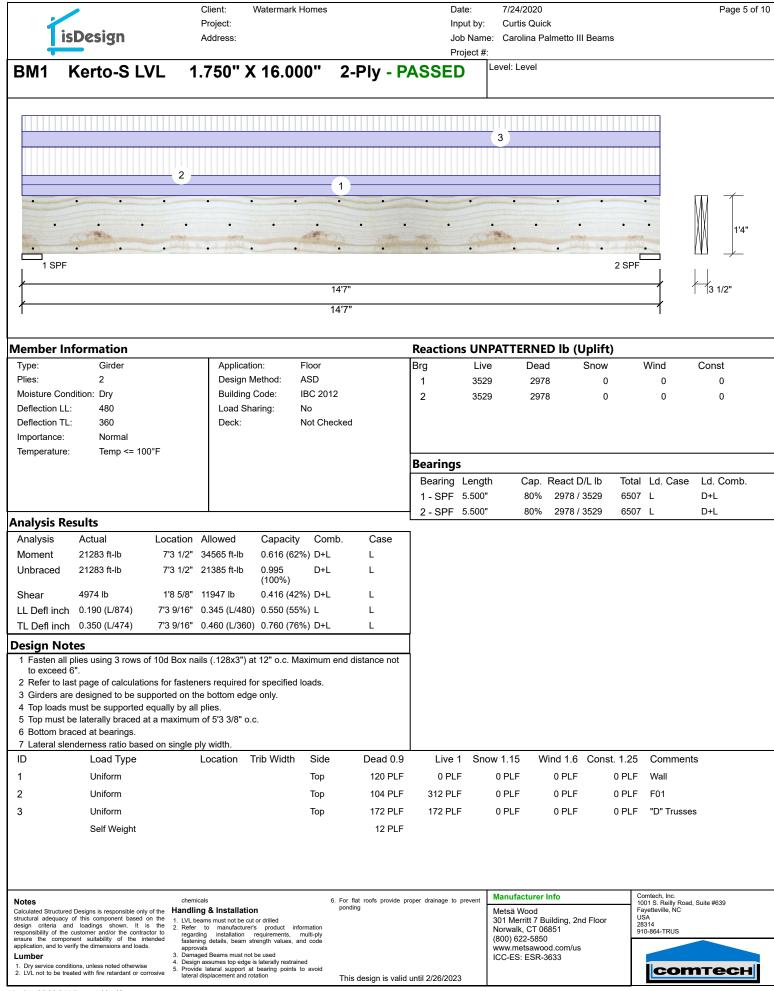


CSD DESIGN

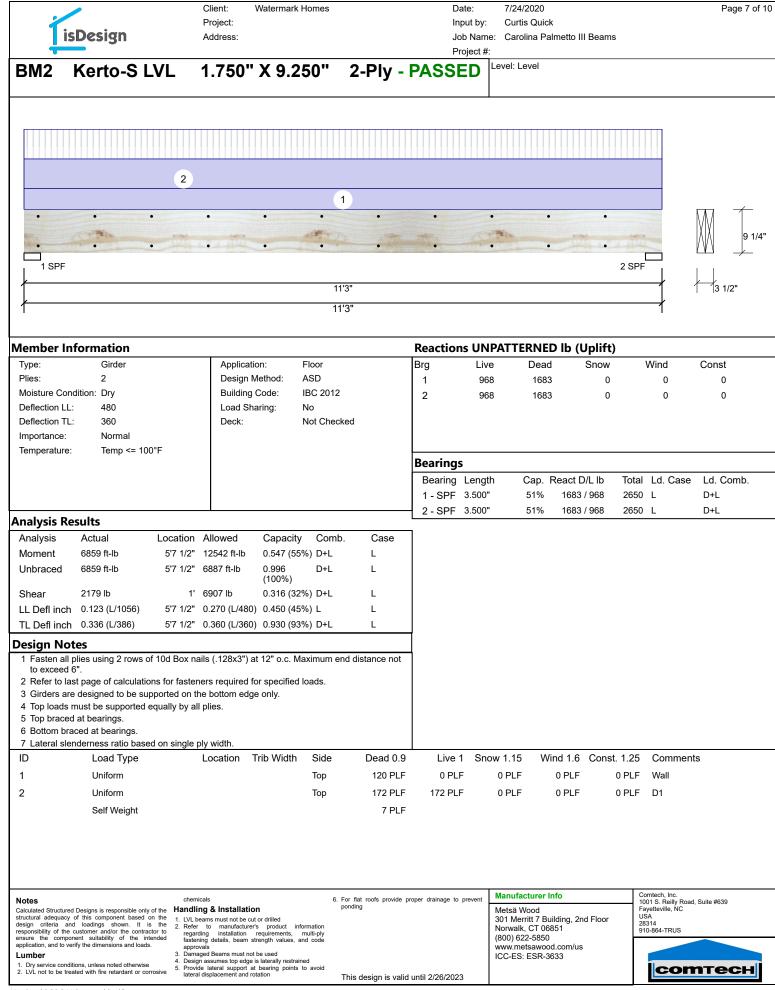
			Client:	Watermark Homes	S	Date:	7/24/2020	Page 2 of 10
1	isDesign		Project: Address:				ne: Carolina Palmetto III Beams	
	Karta S		4 750"	V 44 075"	2 Db/	Project #	#: Level: Level	
GDH	Kerto-S		1.750	X 11.875"	Z-Piy	- PASSED		
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Notes Calculated Strue	ctured Designs is responsib	le only of the 🖁	chemicals landling & Installa	tion	For flat roofs pro ponding	vide proper drainage to prevent	Manufacturer Info Metsä Wood	Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC
structural adeq design criteria responsibility of	uacy of this component b a and loadings shown. If the customer and/or the	ased on the 1 It is the 2 contractor to	. LVL beams must not be Refer to manufactu				301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851	USA 28314 910-864-TRUS
ensure the co	component suitability of t d to verify the dimensions and	he intended d loads.	fastening details, bean approvals Damaged Beams must	n strength values, and code			(800) 622-5850 www.metsawood.com/us	
1. Dry service	conditions, unless noted oth be treated with fire retardant	erwise 4	 Design assumes top ed 	ge is laterally restrained t at bearing points to avoid			ICC-ES: ESR-3633	соттесн
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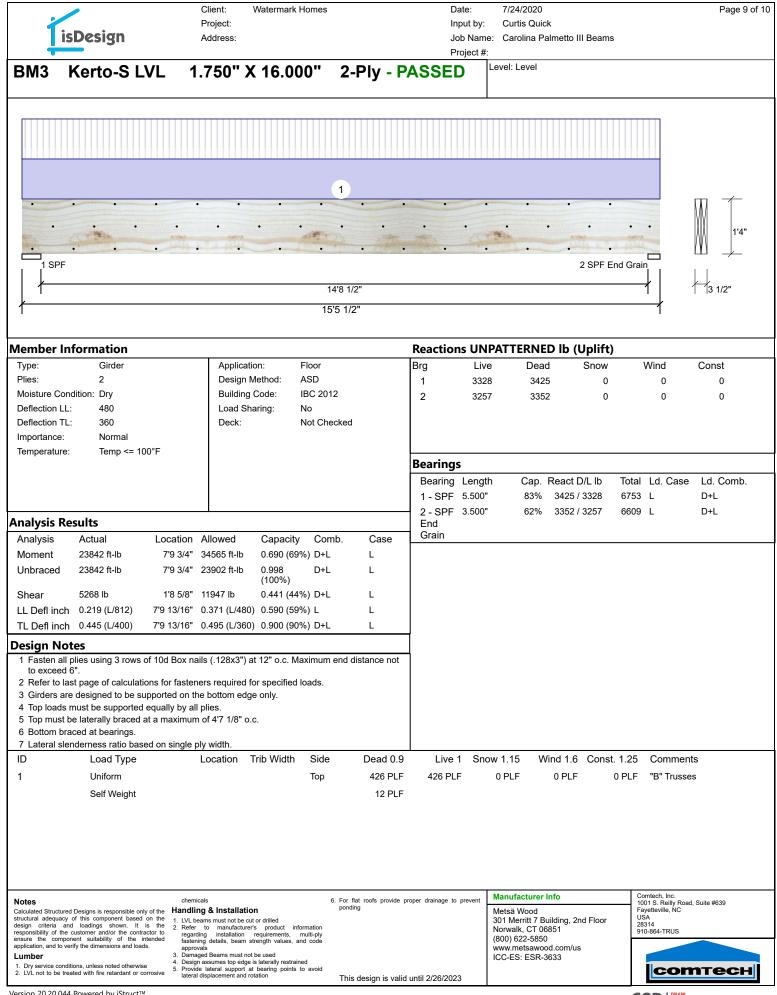
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Separati English GDH-1 Kerto-S LVL 1.750" X 11.875" 2-Ply - PASSED Low Low Image: Separation of the second of the se		- •		Project:			Input by:	Curtis Quick	
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	2. LVL not to be treat	ed with fire retardant or con		al displacement and r	rotation		id until 2/26/2023		соттесн



_	Client: Watermark Ho	mes Date:	7/24/2020	Page 6 of 10
	Project:	Input b	y: Curtis Quick	-
isDesign	Address:		ame: Carolina Palmetto III Beams	
		Projec		
BM1 Kerto-S L	VL 1.750" X 16.000	" 2-Ply - PASSED	Level: Level	
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• • •	• • •	• • • •	• • •	· · [7]
			• • •	• ¥ //
1 SPF			2	SPF
<u> </u>				
		14'7"		1 13 1/2"
1		14'7"		
Multi-Ply Analysis				
	we of 10d Box pails (128v2") at	12" o.c Maximum end distance	not to avcood 6"	
astern an pries using 5 roo		12 O.C. Maximum end distance	not to exceed o	
oad	0.0 PLF			
ield Limit per Foot	245.6 PLF			
ield Limit per Fastener ield Mode	81.9 lb. IV			
dge Distance	1 1/2"			
in. End Distance	3"			
oad Combination Juration Factor	1.00			
			Manufacture 1-6-	Comtach Inc
Notes Calculated Structured Designs is responsible onl	chemicals y of the Handling & Installation	For flat roofs provide proper drainage to prever ponding	Manufacturer Info Metsä Wood	Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC
Calculated Structured Designs is responsible onl structural adequacy of this component based design criteria and loadings shown. It	on the 1. LVL beams must not be cut or drilled		301 Merritt 7 Building, 2nd Floor	USA 28314
esponsibility of the customer and/or the contra- ensure the component suitability of the in	actor to regarding installation requirements, mu ntended fastening details beam strength values and	ti-ply	Norwalk, CT 06851 (800) 622-5850	910-864-TRUS
application, and to verify the dimensions and load	 approvals 3. Damaged Beams must not be used 		www.metsawood.com/us ICC-ES: ESR-3633	
 Dry service conditions, unless noted otherwis LVL not to be treated with fire retardant or control of the service o	 e 4. Design assumes top edge is laterally restrained 5. Provide lateral support at bearing points to 			соттесн
	lateral displacement and rotation	This design is valid until 2/26/2023		
lersion 20.20.044 Powered by iStruct™	1			



	/		Client:	Watermark Home	s	Date:	7/24/2020	Page 8 of 10
			Project:			Input by:		-
	isDesign		Address:			Job Nam		
						Project #		
BM2	Kerto-S	LVL	1.750"	' X 9.250'	2-Ply	- PASSED	Level: Level	
								= /
•	•	•	•	• •	•	•	• • •	₹ ∭ 1
								Ū [Å]Å 9 1/4"
•	•	•	•	• •	•	•	• • • –	
1 SPI	F						2	SPF
/ / · · · ·					11'3"			3 1/2"
					11'3"			
Multi-Ply	y Analysis							
Fasten all	plies using 2 ro	ows of 10d	Box nails (.128x3") at 12'	' o.c Maximu	m end distance n	ot to exceed 6"	
Capacity	p	0.0 %						
Load		0.0 PLF						
Yield Limit pe Yield Limit pe		163.7 PL 81.9 lb.	F					
Yield Limit pe	er Fastener	IV						
Edge Distand		1 1/2"						
Min. End Dis		3"						
Load Combir Duration Fac		1.00						
							Manufacturer Info	Comtech, Inc.
Notes Calculated Struct	tured Designs is responsible	only of the Handl	nicals ing & Installation	on	 For flat roofs provid ponding 	e proper drainage to prevent	Metsä Wood	 1001 S. Reilly Road, Suite #639 Fayetteville, NC
structural adequa design criteria	acy of this component base and loadings shown.	ed on the 1. LVL I t is the 2. Refe	beams must not be co r to manufacture	ut or drilled r's product information			301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851	USA 28314 010 864 TRUS
ensure the cor	the customer and/or the component suitability of the to verify the dimensions and lo	intended faste	rding installation ning details, beam	requirements, multi-ply strength values, and code			(800) 622-5850	910-864-TRUS
Lumber		3. Dam	ovals aged Beams must no on assumes ton edge	t be used is laterally restrained			www.metsawood.com/us ICC-ES: ESR-3633	
	conditions, unless noted otherw e treated with fire retardant of	vise 5. Prov		at bearing points to avoid		alid until 2/26/2022		соттесн
L	044.0		,		i nis design is va	alid until 2/26/2023		



lisDe	sign	Client: Project: Address:	Watermark Homes		Date: Input I Job Ni	7/24/2020 by: Curtis Quick ame: Carolina Pali		Page 10 of
	rto-S LVL		X 16.000"	2-Ply -	Projec			
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•	•••	•••	• •	• •	• •	•••	• •	· [7] 1'4"
				14'8 1/2"			2 SPF End Grain	
<u>/</u>			1	5'5 1/2"				-1
lulti-Ply Anal	vcic							
apacity pad eld Limit per Foot eld Limit per Faster eld Mode Ige Distance n. End Distance pad Combination	ner 81.9 IV 1 1/: 3"	PLF 6 PLF 0 lb. 2"						
ration Factor	1.00)						
tructural adequacy of this lesign criteria and load	s is responsible only of the component based on the ings shown. It is the err and/or the contractor to	4 13/0 b	e and an define d	6. For flat roofs proponding	vide proper drainage to preve	Manufacturer In Metsä Wood 301 Merritt 7 Buil Norwalk, CT 068	Iding, 2nd Floor	ntech, Inc. 1 S. Reilly Road, Suite #639 etteville, NC X 14 -864-TRUS

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	LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-pyl fastening details, beam strength values, and code approvals Damaged Beams must not be used Design assumes top edge is laterally restrained 5. Provide lateral support at bearing points to avoid	 For flat roofs provide proper drainage to prevent ponding 	Manufacturer Info Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us ICC-ES: ESR-3633	Comtech, Inc. 1001 S. Relly Road, Suite #639 Fayetteville, NC USA 28314 910-864-TRUS
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 2/26/2023		соттесн
Annian 20 20 044 Developed by Structt				