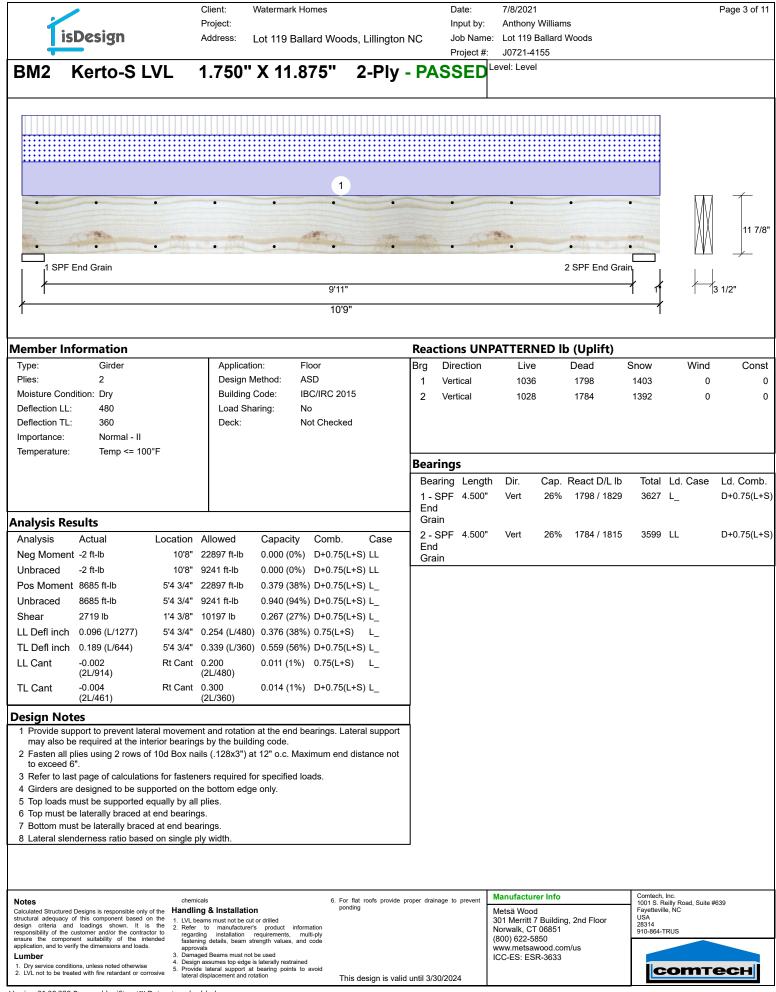
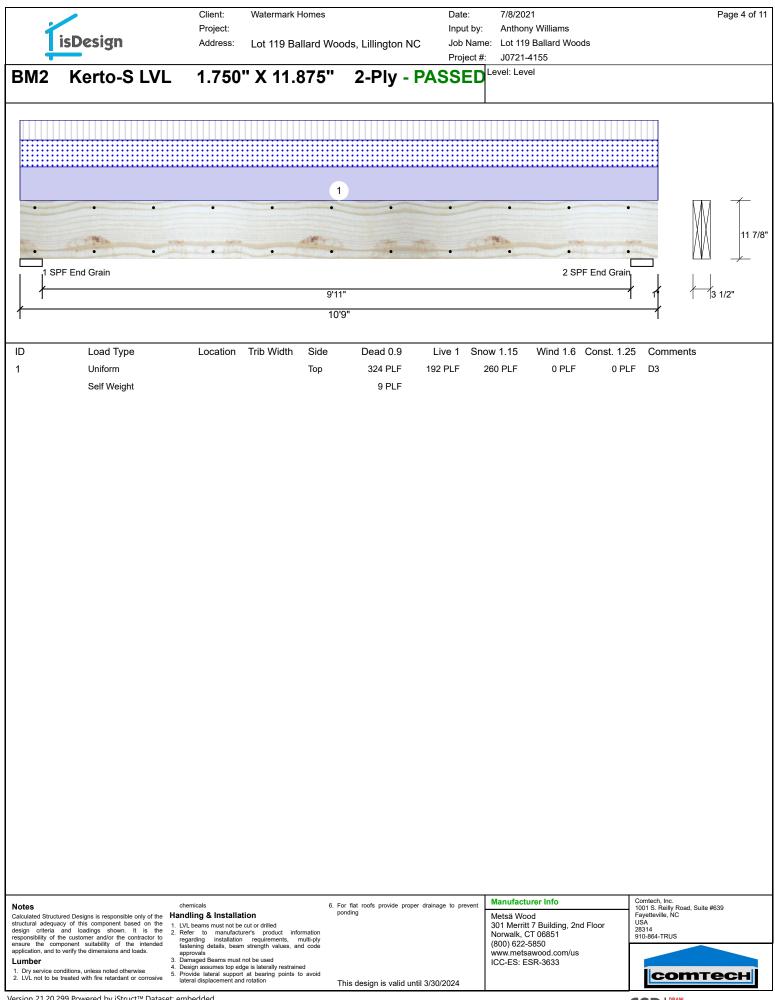
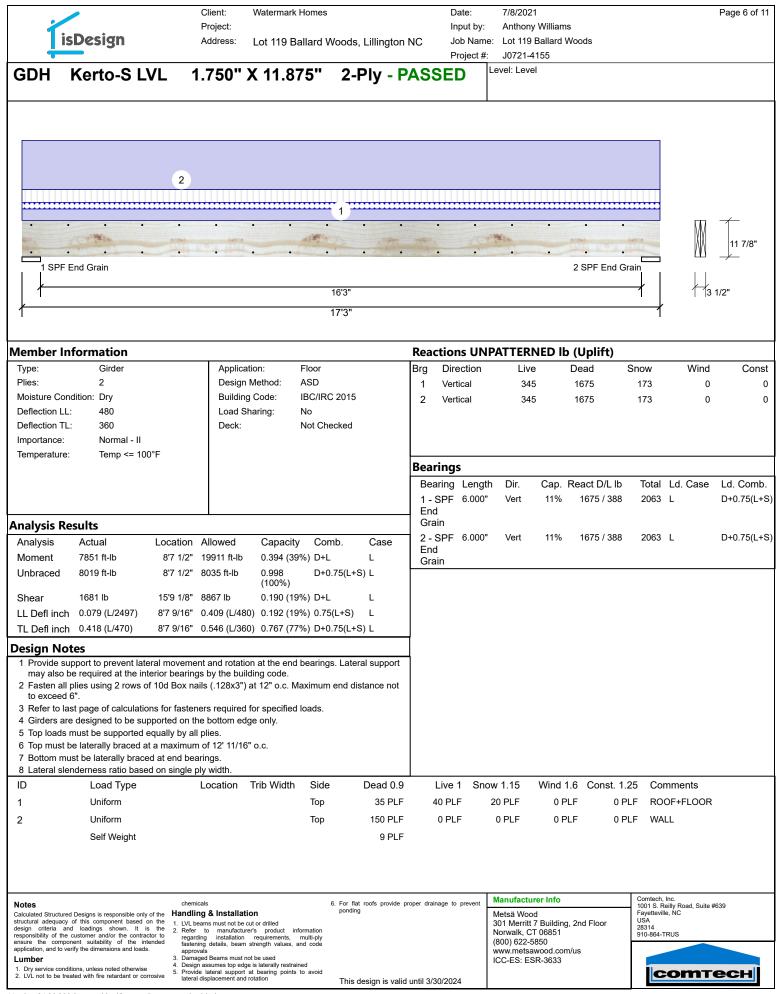


			Client:	Watermark Homes	i	Date:	7/8/2021	Page 2 of 11
	isDesign		Project: Address:	Lot 119 Ballard	Woods, Lillington		ne: Lot 119 Ballard Woods	
BM ²	Kerto-S	LVL	1.750'	' X 11.875	" 2-Ply	Project :		
					_ · · j			
•	•	•	•	•	• •	•	• •	
								↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
	• SPF End Grain	•	•	•	• •	•	• • • 2 SPF Er	
					10'11"		2 SFF EI	3 1/2"
					10'11"			
	Ply Analysis							
Fasten Capacity	all plies using 2 ro	ws of 10d	Box nails ((.128x3") at 12"	o.c Maximum	end distance r	not to exceed 6".	
Load		0.0 PLF	-					
Yield Lim	it per Foot it per Fastener	163.7 PL 81.9 lb.	F					
Yield Moo Edge Dist		IV 1 1/2"						
Min. End Load Con	Distance	3"						
Duration		1.00						
Notes	Structured Designs is responsible on		nicals ing & Installati	on	 For flat roofs provide p ponding 	proper drainage to prevent	Manufacturer Info Metsä Wood	Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC
structural a design crit	dequacy of this component based teria and loadings shown. It	on the 1. LVLI	peams must not be o r to manufacture	ut or drilled er's product information			301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851	USA 28314 910-864-TRUS
application,	y of the customer and/or the contr component suitability of the i and to verify the dimensions and load	ds. appr	ning details, beam ovals	requirements, multi-ply strength values, and code			(800) 622-5850 www.metsawood.com/us	
1. Dry serv 2. LVL not	ice conditions, unless noted otherwis to be treated with fire retardant or c	e 4. Desi 5. Prov	aged Beams must n gn assumes top edg ide lateral support al displacement and	e is laterally restrained at bearing points to avoid			ICC-ES: ESR-3633	сотесн
		iateli	aroprocentent and		This design is valid	i until 3/30/2024	1	

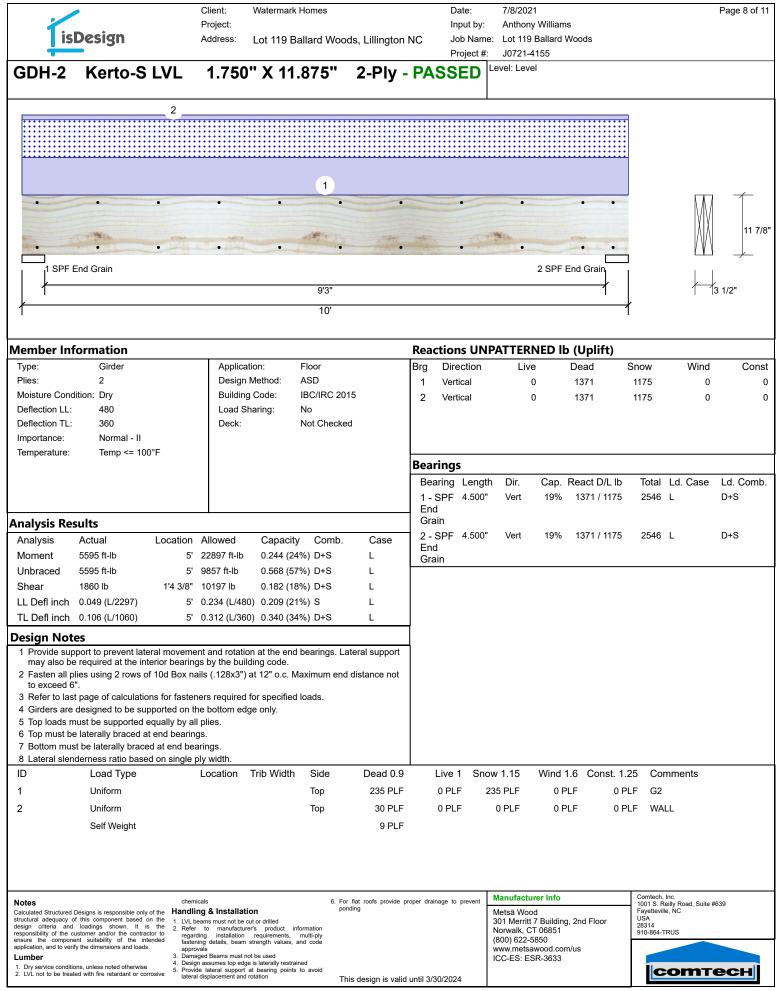




	Client: Watermark Homes		Date:	7/8/2021	Page 5 of 11
LieDesign	Project:		Input by:	Anthony Williams	
isDesign	Address: Lot 119 Ballard	Woods, Lillington NC	Job Name: Project #:	Lot 119 Ballard Woods J0721-4155	
BM2 Kerto-S LVL	1.750" X 11.875	" 2-Plv - PA			
	1.750 X 11.075	Z -1 1 y - 1 A			
			I		
•••	• •	• •	•	• •	•
	• •	• •	•	• •	• <u> </u>
1 SPF End Grain				2 SPF End Gra	
/		9'11"			3 1/2"
 .		10'9"			
					ļ
Multi-Ply Analysis					
Fasten all plies using 2 rows of 10d	Box nails (128x3") at 12"	o.c. Maximum end di	istance no	t to exceed 6"	
Capacity 0.0 %					
Load 0.0 PLF Yield Limit per Foot 163.7 PL	F				
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					
Notes cher	micals	6. For flat roofs provide proper draina	ge to prevent	Manufacturer Info	Comtech, Inc. 1001 S. Reilly Road, Suite #639
Calculated Structured Designs is responsible only of the Handl structural adequacy of this component based on the		ponding		Metsä Wood 301 Merritt 7 Building, 2nd Floor	Fayetteville, NC USA
design criteria and loadings shown. It is the 2. Reference of the customer and/or the contractor to regard the intended regard for the intended for the contract of the intended for the customer and the shown and the shown are shown as the shown are shown are shown as the sho	er to manufacturer's product information arding installation requirements, multi-ply ening details, beam strength values, and code			Norwalk, CT 06851 (800) 622-5850	28314 910-864-TRUS
application, and to verify the dimensions and loads. appr Lumber 3. Dam	rovals naged Beams must not be used		,	www.metsawood.com/us ICC-ES: ESR-3633	
1. Dry service conditions, unless noted otherwise 5. Prov	ign assumes top edge is laterally restrained vide lateral support at bearing points to avoid ral displacement and rotation	This design is valid until 3/30			соттесн



	-		Client:	Watermark Homes	i		Date:	7/8/2021	Page 7 of 11
	isDesign		Project: Address:	Lot 119 Ballard	Woods, Lillingto	on NC	Input by: Job Name		
GDI	H Kerto-S	LVL	1.750"	X 11.875"	2-Ply -		Project #:	Level: Level	
					,				
	• •	• •	•	• • •	• •	• •	•	• • • •	
	• •		•				•		<u> </u>
	1 SPF End Grain							2 SPF End G	rain //
					16'3"				
1					17'3"				1
Multi	Ply Analysis								
Fasten Capacity	all plies using 2 i	rows of 10	d Box nails	(.128x3") at 12"	o.c Maximu	ım end dist	ance n	ot to exceed 6".	
Load	nit per Foot	0.0 /k 0.0 PL 163.7							
Yield Lim	nit per Fastener	81.9 lb							
Yield Mo Edge Dis		IV 1 1/2"							
	d Distance Imbination	3"							
Duration		1.00							
							. 1	Manufacturer Info	Comtech, Inc.
Notes Calculated structural	Structured Designs is responsible adequacy of this component ba	e only of the Hai	hemicals 1dling & Installa .VL beams must not be		 For flat roofs provid ponding 	de proper drainage	to prevent	Metsä Wood 301 Merritt 7 Building, 2nd Floor	 1001 S. Řeilly Road, Suite #639 Fayetteville, NC USA
design c responsibil ensure th	riteria and loadings shown. lity of the customer and/or the c ne component suitability of th	It is the 2. F ontractor to r e intended f	Refer to manufact egarding installation	e cut or drilled urer's product information n requirements, multi-ply m strength values, and code				Norwalk, CT 06851 (800) 622-5850	28314 910-864-TRUS
application Lumber	n, and to verify the dimensions and r	loads. a 3. [4. [approvals Damaged Beams must Design assumes top eo	t not be used dge is laterally restrained				www.metsawood.com/us ICC-ES: ESR-3633	
	rvice conditions, unless noted othe ot to be treated with fire retardant	rwise 5. F	Provide lateral support ateral displacement ar	rt at bearing points to avoid	This design is v	valid until 3/30/20)24		сотесн



isDesign	Client: Watermark Homes Project: Address: Lot 119 Ballard	I	Date: nput by: Job Name:	7/8/2021 Anthony Williams Lot 119 Ballard Woods	Page 9 of 11
		F	Project #:	J0721-4155 evel: Level	
GDH-2 Kerto-S LVL	1.750" X 11.875	5" 2-Ply - PASS	SED		
			I		
· · · ·	• •	• •	•	• • •	11 7/8"
	• •		•	• • • -	<u> </u>
1 SPF End Grain				2 SPF End Grain	
	9':	3"		ł	3 1/2"
1	10)'			ſ
Multi-Ply Analysis					
Fasten all plies using 2 rows of 10	d Box nails (.128x3") at 12"	o.c Maximum end dist	ance not	t to exceed 6".	
Capacity 0.0 % Load 0.0 PLF	-				
Yield Limit per Foot163.7 FYield Limit per Fastener81.9 lb.					
Yield Mode IV Edge Distance 1 1/2"					
Min. End Distance 3"					
Load Combination Duration Factor 1.00					
Calculated Structured Designs is responsible only of the Han	emicals dling & Installation	 For flat roofs provide proper drainage t ponding 	N	Manufacturer Info Vletsä Wood	Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC
structural adequacy of this component based on the 1. LV design criteria and loadings shown. It is the 2. Re responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads. 1 umher 3. Dr	/L beams must not be cut or drilled effer to manufacturer's product information garding installation requirements, multi-ply stening details, beam strength values, and code provals maged Beams must not be used		3 N ((001 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 800) 622-5850 www.metsawood.com/us CC-ES: ESR-3633	USA 28314 910-864-TRUS
1. Dry service conditions, unless noted otherwise 5. Pr	esign assumes top edge is laterally restrained ovide lateral support at bearing points to avoid leral displacement and rotation	This design is valid until 3/30/20			соттесн

•		Snow 1409 1409	Wind 0 0	9 3 1/2" Con
Live 0 0 Dir. Cap.	Dead 1432	1409	Wind	3 1/2"
Live 0 0 Dir. Cap.	Dead 1432	1409	Wind	3 1/2"
Live 0 0 Dir. Cap.	Dead 1432	1409	Wind	
Live 0 0 Dir. Cap.	Dead 1432	1409	Wind	
Live 0 0 Dir. Cap.	Dead 1432	1409	0	Con
Live 0 0 Dir. Cap.	Dead 1432	1409	0	Cor
Live 0 0 Dir. Cap.	Dead 1432	1409	0	Cor
0 Dir. Cap.			-	
Dir. Cap.	1432	1409	0	
•				
•				
•				
•				
•				
Vert 31%	React D/L lb 1432 / 1409	Total Ld. 2841 L		Ld. Con D+S
Vert 31%	1432 / 1409	2841 L	[D+S
1.15 Wind	1.6 Const. 1.	25 Comme	ents	
PLF 0 F	PLF 0 P	LF A5		
				LF 0 PLF 0 PLF A5

		Client:	Watermark Home	s	Date:	7/8/2021	Page 11 of 1
		Project:			Input by		
ISL	Design	Address:	Lot 119 Ballard	Woods, Lillingto		ne: Lot 119 Ballard Woods	
					Project a	#: J0721-4155 Level: Level	
DBL-28	Kerto-S L\	/L 1.75	0" X 9.250)" 2-Piy	- PASSED		
	•	•	•	•	•		T T
	-	•	•	•	-	12	
						<1 1/2"	9 1/
•	•	•	•	•	•		
	d Grain				2 SPF End Gra		,
			6'3"				3 1/2"
· · · · · ·							3 1/2
			6'3"				
Multi-Ply An	alysis						
Fasten all plie	s using 2 rows of	10d Box nails	(.128x3") at 12'	' o.c Maximur	m end distance r	not to exceed 6".	
Capacity	0.0	%					
Load Viald Limit non Fa		PLF .7 PLF					
Yield Limit per Foo Yield Limit per Fas							
Yield Mode	IV						
Edge Distance	1 1/ : 3"	2"					
Min. End Distance Load Combination							
Duration Factor	1.00	D					
structural adequacy of design criteria and responsibility of the cus	this component based on the	regarding installation	cut or drilled rer's product information requirements, multi-ply	ponding	e proper drainage to prevent	Manufacturer Info Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850	Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA 28314 910-864-TRUS
application, and to verify Lumber 1. Dry service condition	the dimensions and loads.	approvals 3. Damaged Beams must r 4. Design assumes top edg	e is laterally restrained at bearing points to avoid		ılid until 3/30/2024	www.metsawood.com/us ICC-ES: ESR-3633	соттесн