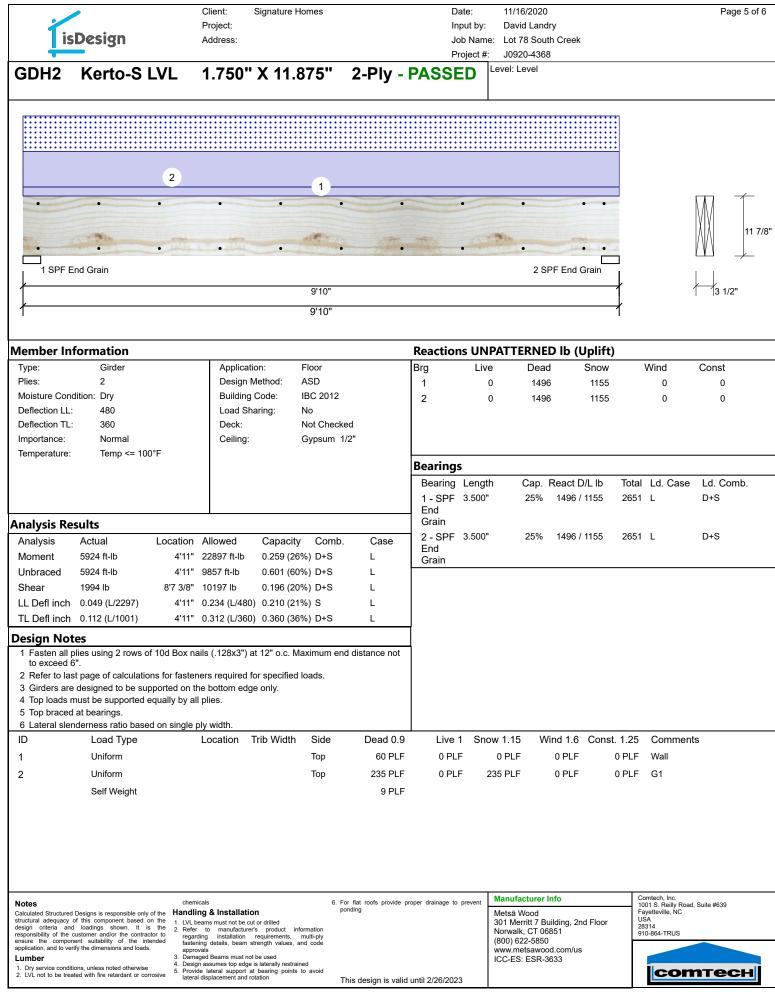


	Client: Signature Homes	Date:	11/16/2020	Page 2 of 6
isDesign	Project: Address:	Input by: Job Nam		
		Project #		
BM1 Kerto-S LVL	1.750" X 9.250"	2-Ply - PASSED	Level: Level	
		,		
• •	• •	• •		
			<1 1/2"	9 1
• •	• •	• •	<u> </u>	
		L		
1 SPF End Grain		2 SPF End Grain		
	5'6"	1		1 13 1/2"
1	6'3"		1	
Multi-Ply Analysis				
Fasten all plies using 2 rows of 10		o.c Maximum end distance n	ot to exceed 6"	
Capacity 0.0 % Load 0.0 PL				
Yield Limit per Foot 163.7 I				
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	chemicals	6. For flat roofs provide proper drainage to prevent	Manufacturer Info	Comtech, Inc. 1001 S. Reilly Road, Suite #639
Calculated Structured Designs is responsible only of the structural adequacy of this component based on the	ndling & Installation	ponding	Metsä Wood 301 Merritt 7 Building, 2nd Floor	Fayetteville, NC USA
design criteria and loadings shown. It is the 2 F responsibility of the customer and/or the contractor to	Refer to manufacturer's product information regarding installation requirements, multi-ply		Norwalk, CT 06851 (800) 622-5850	28314 910-864-TRUS
application, and to verify the dimensions and loads.	astening details, beam strength values, and code approvals Damaged Beams must not be used		www.metsawood.com/us ICC-ES: ESR-3633	
1. Dry service conditions, unless noted otherwise 4. E 5. F	Design assumes top edge is laterally restrained Provide lateral support at bearing points to avoid ateral displacement and rotation	This design is well a well of oppose		соттесн
12		This design is valid until 2/26/2023		

is	Design	Client: Signature Project: Address:	Homes	Date: Input I Job N Projec	ame: Lot 78 South Creek	Page 3 d
GDH I	Kerto-S LVL	. 1.750" X 11.8	75" 2-Ply		Level: Level	
• •	nd Grain	2	1 	•		11 7/8
lember Inf					INPATTERNED lb (Uplift)	
Type: Plies: Moisture Conc Deflection LL: Deflection TL: Importance:	Girder 2 lition: Dry 480 360 Normal	Application: Design Method: Building Code: Load Sharing: Deck:	Floor ASD IBC 2012 No Not Checked	Brg 1 2	Live Dead Snow 0 2452 173 0 2452 173	Wind Const 0 0 0 0
Temperature:	Temp <= 100°F			Poprings		
				Bearings Bearing Lei 1 - SPF 6.0 End Grain	•	TotalLd. CaseLd. Comb.2624LD+S
	Actual Loc 9527 ft-lb 3 9527 ft-lb 3 2046 lb 1 0.035 (L/5617) 8	Allowed Capacit 8'7 1/2" 17919 ft-lb 0.532 (5: 8'7 1/2" 17919 ft-lb 0.532 (5: 8'7 1/2" 17919 ft-lb 0.532 (5: 5'9 7/8" 7980 lb 0.256 (2: 7 9/16" 0.409 (L/480) 0.090 (9: 7 9/16" 0.546 (L/360) 0.970 (9:	3%) D Unifo 3%) D Unifo 3%) D Unifo %) S L	2 - SPF 6.0 End rm Grain rm	00" 14% 2452 / 173	2624 L D+S
esign Not	es					
to exceed 6 2 Refer to las 3 Girders are 4 Top loads n 5 Top must be 6 Bottom brac 7 Lateral slen	". t page of calculations f designed to be suppor nust be supported equa e continuously braced. ced at bearings. derness ratio based or	n single ply width.	loads.			
D	Load Type	Location Trib Width	Side Dead		Snow 1.15 Wind 1.6 Const	
1 2	Uniform Uniform		Top 195 F Top 60 F			0 PLF C1 0 PLF Wall
2 3	Tie-In	0-0-0 to 17-3-0 1-0-0	Top 20 F			0 PLF Wall 0 PSF Roof
	Self Weight		•	PLF		
ructural adequacy on esign criteria and esponsibility of the c	of this component based on the loadings shown. It is the ustomer and/or the contractor to	 Refer to manufacturer's product in regarding installation requirements 	ponding	vide proper drainage to preve	Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851	Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA 28314 910-864-TRUS
nsure the compone pplication, and to veri _umber 1. Dry service condition	south and and the contractor interded fy the dimensions and loads.	 fastening details, beam strength values, approvals Damaged Beams must not be used Design assumes top edge is laterally restration of the strength of th	and code ined to avoid	valid until 2/26/2023	(800) 622-5850 www.metsawood.com/us ICC-ES: ESR-3633	соттесн

			Client:	Signature Homes		Date:	11/16/2020	Page 4 of 6
1	isDesign		Project: Address:			Input b <u>y</u> Job Na	y: David Landry me: Lot 78 South Creek	
–						Project		
GDH	Kerto-S	LVL	1.750"	X 11.875"	2-Ply ·	- PASSED	Level: Level	
								-
•	• •	• •	•	• •	• •	• • •	• • • •	
•	• •	• •	•	• •	• •			. <u> </u>
1 SP	PF End Grain						2 SPF End G	Grain
					16'3"			3 1/2"
/					17'3"			f
Multi-Ply	y Analysis							
	plies using 2 re		d Box nails	(.128x3") at 12	o.c Maxim	um end distance	not to exceed 6"	
Capacity Load		0.0 % 0.0 PLI	F					
Yield Limit pe		163.7 F	PLF					
Yield Limit pe Yield Mode	er Fastener	81.9 lb IV						
Edge Distand Min. End Dis		1 1/2" 3"						
Load Combir	nation							
Duration Fac	ctor	1.00						
							Manufacturer Info	Comtech, Inc.
Notes Calculated Struc	tured Designs is responsible	only of the Han			 For flat roofs prov ponding 	vide proper drainage to prevent	Metsä Wood	1001 S. Reilly Road, Suite #639 Fayetteville, NC
design criteria responsibility of	and loadings shown. I the customer and/or the co	It is the 2. R Intractor to	VL beams must not be Refer to manufact egarding installation	e cut or drilled turer's product information n requirements, multi-ply			301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851	USA 28314 910-864-TRUS
ensure the co	mponent suitability of the to verify the dimensions and lo	e intended fa oads. a	astening details, bear pprovals Damaged Bearns must	m strength values, and code			(800) 622-5850 www.metsawood.com/us	
1. Dry service c	conditions, unless noted other e treated with fire retardant o	wise 5. P	esign assumes top e	dge is laterally restrained rt at bearing points to avoid	TL:		ICC-ES: ESR-3633	соттесн
		18	ai aispiaoditietit al		I nis design is	valid until 2/26/2023		



isDesign	Client: Signature Homes Project: Address:	Date: Input by: Job Name:	11/16/2020 David Landry : Lot 78 South Creek	Page 6 of 6
	4 750" V 44 075"		J0920-4368 Level: Level	
GDH2 Kerto-S LVL	1.750" X 11.875"	2-Ply - PASSED		
	• •	••••		
• • • 1 SPF End Grain	• •	•••	2 SPF End Grain	
	9'10"			3 1/2"
/	9'10"			
				_
Multi-Ply Analysis				
Fasten all plies using 2 rows of 10dCapacity0.0 %	Box nails (.128x3") at 12" o.	.c Maximum end distance no	it to exceed 6"	
Load 0.0 PLF Yield Limit per Foot 163.7 PLI	F			
Yield Limit per Fastener 81.9 lb.				
Yield ModeIVEdge Distance1 1/2"				
Min. End Distance 3"				
Load Combination Duration Factor 1.00				
Notes chem	irale ^	For flat roofs provide proper drainers to any t	Manufacturer Info	Comtech, Inc.
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 ana/or the contractor to ensure the component suitability of the interded	ng & Installation beams must not be cut or drilled r to manufacturer's product information ding installation requirements, multi-ply ning details, beam strength values, and code	ponding.	Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850	1001 S. Reilly Road, Suite #639 Fayetteville, NC USA 28314 910-864-TRUS
application, and to verify the dimensions and loads. appro Lumber 4. Desig 1. Dry service conditions, unless noted otherwise 5. Provi	ovals aged Beams must not be used n assumes top edge is laterally restrained de lateral support at bearing points to avoid		www.metsawood.com/us ICC-ES: ESR-3633	соттесн