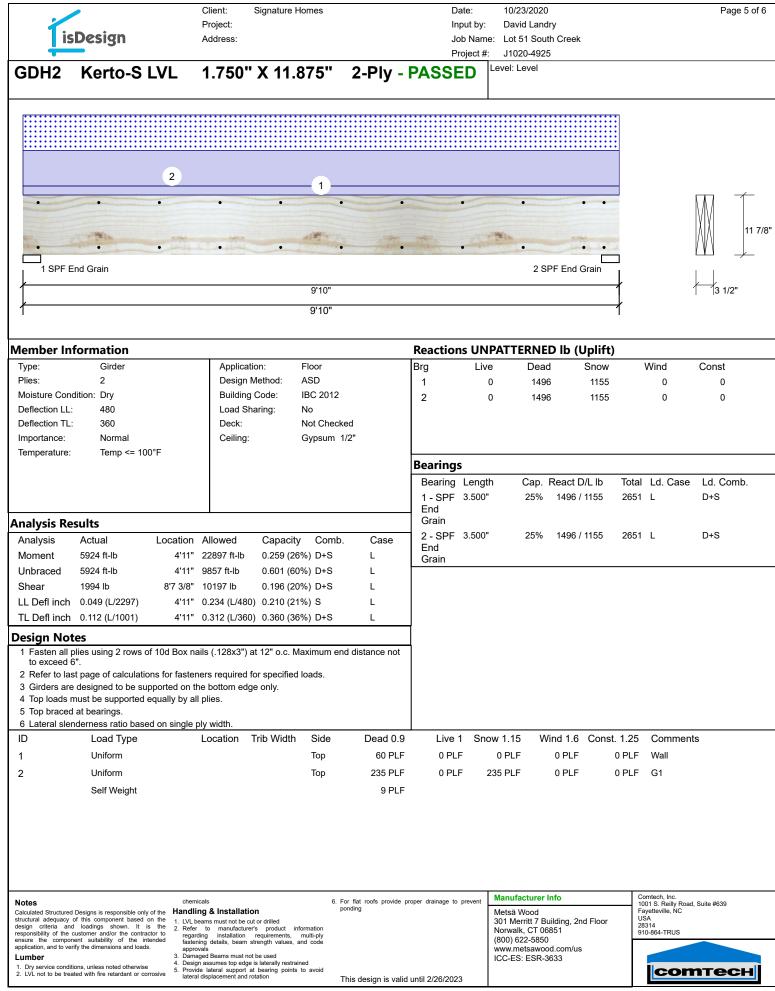


isDesign	Client: Signature Homes Project: Address:	Date: Input by: Job Nam Project #	e: Lot 51 South Creek	Page 2 of 6
BM1 Kerto-S LVL	1.750" X 9.250"	2-Ply - PASSED	Level: Level	
			L	,
	• •	• •	41 1/2 "	9 1/
1 SPF End Grain	5'6"	2 SPF End Grain		↓ ↓ ↓3 1/2"
ł	6'3"			
Multi-Ply Analysis Fasten all plies using 2 rows of 10d Capacity 0.0 %	Box nails (.128x3") at 12"	o.c Maximum end distance n	ot to exceed 6"	
Load 0.0 PLF Yield Limit per Foot 163.7 PL Yield Limit per Fastener 81.9 lb.	F			
Yield ModeIVEdge Distance1 1/2"				
Min. End Distance 3" Load Combination				
	micals	<ol> <li>For flat roofs provide proper drainage to prevent ponding</li> </ol>	Manufacturer Info Metsä Wood	Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC
structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the contractor to ensure the component suitability of the intended fast	beams must not be cut or drilled er to manufacturer's product information arding installation requirements, multi-ply ening details, beam strength values, and code		301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850	USA 28314 910-864-TRUS
Lumber 3. Dan 1. Dry service conditions, unless noted otherwise 5. Prov	rovals naged Beams must not be used ign assumes top edge is laterally restrained vide lateral support at bearing points to avoid ral displacement and rotation	This design is valid until 2/26/2023	www.metsawood.com/us ICC-ES: ESR-3633	соттесн

is	Design	Client: Signature H Project: Address:	lomes	Date: Input I Job N Projec	ame: Lot 51 South Creek	Page 3 c
GDH	Kerto-S LVL	1.750" X 11.8	75" 2-Ply		Level: Level	
• •	ind Grain	2	1	• • • • • • • • • • • • • • • • • • •	3 	<u> </u>
I			17'3"			Ι
lember In	formation			Reactions l	JNPATTERNED lb (Uplift)	l
Type: Plies: Moisture Con Deflection LL: Deflection TL: Importance:	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			Bearings Bearing Le 1 - SPF 6.0 End Grain		Total Ld. Case Ld. Comb. 2624 L D+S
TL Defl inch esign Not 1 Fasten all p to exceed 6 2 Refer to las 3 Girders are 4 Top loads r 5 Top must b 6 Bottom bra	Actual         Loc           9527 ft-lb         8'           9527 ft-lb         8'           2046 lb         15'           0.035 (L/5617)         8'7           0.532 (L/369)         8'7           ces         5''           blies using 2 rows of 10d         5''           y".         st page of calculations for           designed to be supported equall         e continuously braced.           ced at bearings.         Ced at bearings.		%) D     Unifo       %) D     Unifo       %) D     Unifo       6) S     L       %) D+S     L	2 - SPF 6.0 End Grain	00" 14% 2452 / 173	2624 L D+S
7 Lateral sler	nderness ratio based on Load Type	single ply width. Location Trib Width	Side Dead	0.9 Live 1	Snow 1.15 Wind 1.6 Const	. 1.25 Comments
1 2	Uniform Uniform		•	PLF 0 PLF PLF 0 PLF	0 PLF 0 PLF 0 PLF 0 PLF	0 PLF C1 0 PLF Wall
3	Tie-In Self Weight	0-0-0 to 17-3-0 1-0-0	•	PSF 0 PSF PLF	20 PSF 0 PSF	0 PSF Roof
tructural adequacy lesign criteria and esponsibility of the insure the compor upplication, and to ver <b>_umber</b> 1. Dry service condit	Designs is responsible only of the of this component based on the I loadings shown. It is the sustomer and/or the contractor to ent suitability of the intended fly the dimensions and loads. Ions, unless noted otherwise ted with fire retardant or corrosive	chemicals Handling & Installation 1. UK beams must not be cut or drilled 2. Refer to manufacturer's product in regarding installation requirements, fastening details, beam strength values, a approvals 3. Damaged Beams must not be used 4. Design assumes top edge is laterally restrai 5. Provide lateral support a taering points lateral displacement and rotation	ponding ormation multi-ply nd code ned to avoid	vide proper drainage to preve valid until 2/26/2023	nt 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. Reilly Road, Suite #639 Fayetteville, NC USA 28314 910-864-TRUS

Clier	t: Signature Homes	Date:	10/23/2020	Page 4 of 6
Proje		Input by:	David Landry	
isDesign Addr	ess:	Job Name:	Lot 51 South Creek	
		Project #:	J1020-4925	
GDH Kerto-S LVL 1.75	50" X 11.875" 2-	Plv - PASSED	evel: Level	
		.,		
	· · ·		· · · · ·	
				<u> </u>
1 SPF End Grain			2 SPF End Gra	
	16'3"			1 1/2"
↓ ★	17'3"			
				·
Multi-Ply Analysis				
Fasten all plies using 2 rows of 10d Box	nails ( 128x3") at 12" o.c. N	laximum end distance no	t to exceed 6"	
Capacity 0.0 %				
Load 0.0 PLF				
Yield Limit per Foot 163.7 PLF				
Yield Limit per Fastener 81.9 lb.				
Yield ModeIVEdge Distance1 1/2"				
Min. End Distance 3"				
Load Combination				
Duration Factor 1.00				
				0
Notes chemicals		Tools provide proper drainage to prevent	Manufacturer Info	Comtech, Inc. 1001 S. Reilly Road, Suite #639
	ust not be cut or drilled		Metsä Wood 301 Merritt 7 Building, 2nd Floor	Fayetteville, NC USA
design criteria and loadings shown. It is the 2 Refer to mesonsibility of the customer and/or the contractor to regarding in	nanufacturer's product information astallation requirements, multi-ply		Norwalk, CT 06851	28314 910-864-TRUS
application, and to verify the dimensions and loads. approvals	ils, beam strength values, and code		(800) 622-5850 www.metsawood.com/us	
4. Design assum	ms must not be used es top edge is laterally restrained		ICC-ES: ESR-3633	
2 11/1 pet to be treated with fire retendent or corrective J. Flovide latera	I support at bearing points to avoid ement and rotation This of	lesign is valid until 2/26/2023		соттесн



			Client:	Signature Homes		Date:	10/23/2020	Page 6 of 6
			Project:	·		Input by		
is	sDesign		Address:			Job Na	me: Lot 51 South Creek	
						Project	#: J1020-4925	
GDH2	Kerto-S		1 750'	' X 11.875	" 2_DIv	- PASSED	Level: Level	
GDI12	Nerto-5		1.750	× 11.075	<b>2-</b> F iy	-FASSED		
•	•	•	•	•	•	• •	• • •	$\overline{1}$
								2
								11 7/8"
	•		•	•	•		1	<u> </u>
1 SPF I	End Grain						2 SPF End Grain	
<del> </del>				9'10	ר"			3 1/2"
								, 10 112 ,
1 1				9'10	U"		1	
Multi-Ply A	Analysis							
-	-		ь	(100 0)				
	lies using 2 ro		Box nails	(.128x3") at 12'	o.c Maximu	um end distance	not to exceed 6"	
Capacity		0.0 % 0.0 PLF						
Load Yield Limit per I	Foot	0.0 PLF 163.7 PL	F					
Yield Limit per l		81.9 lb.	.1					
Yield Mode		IV						
Edge Distance		1 1/2"						
Min. End Distar		3"						
Load Combinat Duration Factor		1.00						
Duration Factor		1.00						
							Manufacturer Info	Comtech, Inc.
Notes	d Designs is responsible on		nicals ing & Installat	ion	<ol><li>For flat roofs prov ponding</li></ol>	ide proper drainage to prevent	Metsä Wood	1001 S. Reilly Road, Suite #639 Fayetteville, NC
structural adequacy	d Designs is responsible on of this component based ind loadings shown. It	on the 1. LVL	beams must not be o	cut or drilled			301 Merritt 7 Building, 2nd Floor	USA 28314
responsibility of the	customer and/or the contra onent suitability of the in	actor to rega	rding installation	er's product information requirements, multi-ply			Norwalk, CT 06851 (800) 622-5850	910-864-TRUS
application, and to ve	erify the dimensions and load	ds. appr	ening details, beam ovals laged Beams must n	strength values, and code			www.metsawood.com/us	
Lumber 1. Dry service cond	itions, unless noted otherwis	e 4. Desi	gn assumes top edg	e is laterally restrained at bearing points to avoid			ICC-ES: ESR-3633	
2. LVL not to be tre	eated with fire retardant or c		al displacement and	rotation	This design is	valid until 2/26/2023		соттесн