	Design Kerto-S LVL	Address: 1.750" X 11.875"	2-Ply - P	Pro	oject #:	e Jackson Beams		
	• •		1		-		2 SPF	
<u>/</u>			16'10"					3 1/2"
ľ			16'10"				†	
								
ember Inf	formation Girder	Application: Floor		Reaction: Brg	s UNPATT Live	ERNED Ib (Uplift)	Wind	Const
Plies: Noisture Conc Deflection LL: Deflection TL: mportance:	2 lition: Dry 480 360 Normal	Design Method: ASD Building Code: IBC 2 Load Sharing: No	012 hecked	1 2	0	2182 0 2182 0	0	0
emperature:	Temp <= 100°F			Bearings Bearing 1 - SPF 2 - SPF	Length 3.500"	Cap. React D/L lb 42% 2182 / 0 42% 2182 / 0	Total Ld. Case 2182 Uniform 2182 Uniform	E Ld. Comb. D D
nalysis Res		ation Allowed Capacity Co	omb. Case	1				
Moment Jnbraced Shear L Defl inch	8689 ft-lb 8689 ft-lb 1866 lb 157 0.000 (L/999)	8'5" 17919 ft-lb 0.485 (48%) D 8'5" 8700 ft-lb 0.999 D (100%) 7 7 3/8" 7980 lb 0.234 (23%) D 0 999.000 (L/0) 0.000 (0%) 1/16" 0.546 (L/360) 0.830 (83%) D	Uniform Uniform Uniform Uniform					
esign Not			-	ſ				
 Fasten all p to exceed 6 Refer to las Girders are Top loads m Top must be Bottom brace Lateral slend 	lies using 2 rows of 10d ". t page of calculations for designed to be supporte hust be supported equally e laterally braced at a ma ced at bearings. derness ratio based on s	iximum of 10'9" o.c.					405 0	
D	Load Type Uniform Self Weight	Location Trib Width Sid Top		Live 1 0 PLF			. 1.25 Commer 0 PLF	nts
uctural adequacy c sign criteria and sponsibility of the c sure the component	of this component based on the loadings shown. It is the ustomer and/or the contractor to ent suitability of the intended fy the dimensions and loads.	chemicals Handling & Installation 1. LVL beams must not be cut or drilled 2. Refer to manufacturers product information regarding installation requirements, multi-pyl fastening details, beam strength values, and code approvals 3. Damaged Beams must not be used	6. For flat roofs provide p ponding	oper drainage to p	Metsä 301 M Norwa (800) www.r	facturer Info Wood erritt 7 Building, 2nd Floor Ilk, CT 06851 622-5850 netsawood.com/us S: ESR-3633	Comtech, Inc. 1001 S. Reilly Roa Fayetteville, NC USA 28314 910-864-TRUS	id, Suite #639

Client: Pro Craft Project:	Date	by: Curtis Quick	Page 2 of 2
isDesign Address:	Job N Proje		
GDH Kerto-S LVL 1.750" X 11.87	5" 2-Ply - PASSED	Level: Level	
• • • • • • • •	• • • •	• • • •	→ 13
<u></u>			
1 SPF			
	16'10" 16'10"		1]3 1/2"
	1010		I
Multi-Ply Analysis			
Fasten all plies using 2 rows of 10d Box nails (.128x3") at Capacity 0.0 %	12" o.c Maximum end distanc	e not to exceed 6"	
Load 0.0 PLF Yield Limit per Foot 163.7 PLF			
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	 For flat roofs provide proper drainage to prev ponding 		Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC
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 and/or the contractor to ensure the component suitability of the intended	nation	Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850	USA 28314 910-864-TRUS
application, and to verify the dimensions and loads. Lumber Dry service conditions, unless noted otherwise Dry service	d avoid	www.metsawood.com/us ICC-ES: ESR-3633	соттесн
2. LVL not to be treated with fire retardant or corrosive lateral displacement and rotation	This design is valid until 2/26/2023		