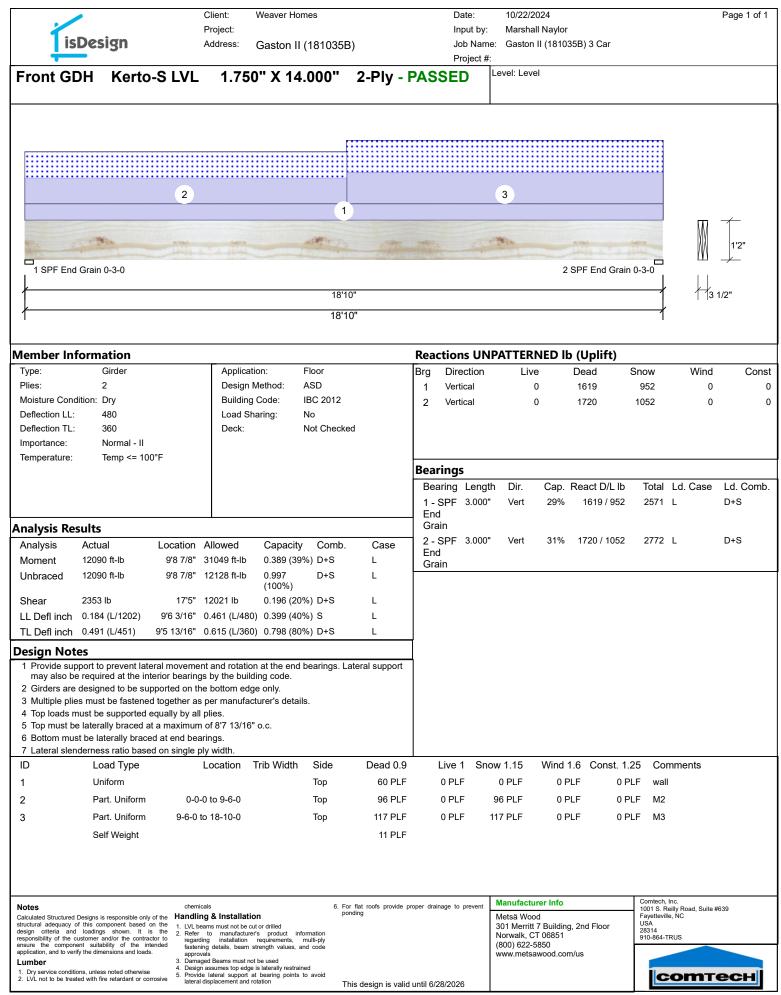


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	Design DER Kerto-	Client: Project: Address: S LVL	Weaver Ho Gaston I 1.750'' X	l (181035B)	2-Plv	- PA	Date: Input by: Job Name Project #: SSED		Naylor I (181035B) 3 C	ar		Page 1
	2		1		3							
	End Grain 0-3-8	ili en i	6'7" 6'7"		AT	2 SPF	End Grain	0-3-8	,			
/lember Inf	formation					React	ions UNI	PATTERN	NED lb (Upli	ft)		
Type: Plies: Moisture Cond Deflection LL: Deflection TL: Importance:	Girder 2 lition: Dry 480	Des Buile	ication: gn Method: ling Code: l Sharing: ‹:	Floor ASD IBC 2012 No Not Checked		Brg 1	Direction Vertical Vertical	Live 1060 1060	Dead 1887	Sn 1 [.]	ow W 113 113	/ind C 0 0
Temperature:	Temp <= 100°F					1 - Sl End Grair	ng Length PF 3.500"	Vert	Cap. React [34% 1887 /	1629	Total Ld. Ca 3516 L	D+0.75
TL Defl inch Design Note 1 Provide sup may also be 2 Girders are 3 Multiple plie 4 Top loads m 5 Top must be	5009 ft-lb 3 5009 ft-lb 3 2387 lb 3 0.042 (L/1741) 3 0.091 (L/807) 3 es opport to prevent lateral r designed to be support designed to be support as must be fastened tog aust be supported equal a laterally braced at end	r bearings by the l ted on the bottom jether as per man illy by all plies. d bearings.	Ib 0.347 (3) Ib 0.479 (4) 0.300 (3) 480) 0.276 (2) 360) 0.446 (4) ation at the encoulding code. edge only.	5%) D+0.75(L+ 3%) D+0.75(L+ 3%) D+0.75(L+ 3%) 0.75(L+S) 5%) D+0.75(L+ 1 bearings. Late	S) L S) L L S) L	2 - Si End Grair	PF 3.500" 1	Vert	34% 1887 /	1629	3516 L	D+0.75
	at be laterally braced at derness ratio based on	•										
ID 1 2 3	Load Type Uniform Uniform Uniform Self Weight	Location	Trib Width	Side Top Top Top	Dead 0.9 108 PLF 120 PLF 338 PLF 7 PLF	322 0	PLF PLF	w 1.15 0 PLF 0 PLF 38 PLF	Wind 1.6 Co 0 PLF 0 PLF 0 PLF	nst. 1.25 0 PLF 0 PLF 0 PLF	F4 WALL	5
structural adequacy o design criteria and responsibility of the cu ensure the compone application, and to verif Lumber 1. Dry service condition	Designs is responsible only of the of this component based on the loadings shown. It is the ustorner and/or the contractor to ent suitability of the intended by the dimensions and loads.	 LVL beams must not Refer to manufa regarding installa fastening details, b approvals Damaged Beams m Design assumes top Provide latteral com 	be cut or drilled cturer's product ir ion requirements, aam strength values, ist not be used edge is laterally restra oot at bearing points	pondir multi-ply and code ined to avoid	at roofs provide pr g design is valid		e to prevent	Norwalk, CT (800) 622-58	1 7 Building, 2nd Flo ⁻ 06851	or 1	Comtech, Inc. 1001 S. Reilly Road, Tayetteville, NC JSA 18314 110-864-TRUS	Suite #639



-	•	Client: Project:	Weaver Ho	mes		Date: Input b	b."	10/22/20 Marshall					Page 1 of
1 is	Design	Address:	Gaston II	(181035B)		Job Na	-	Gaston I		iB) 3 Car			
	-		Custon n	(101000B)		Projec		-	(,			
Window	Hdr. Kerto	-S LVL 1.	750" X	14.000"	2-Ply	- PASSEI	D Le	evel: Level					
2	6 3 4		1	5								FF	
	- The second	146 cm 144		att a part								\mathbb{W}	1'2"
1 SPF End	d Grain 0-3-0		2 SPF I	End Grain 0-3-									
/		6'10"										<i>~</i>	, 3 1/2"
<u>/</u>		6'10"			\rightarrow								
/lember Inf	ormation					Reactions U	JNP	ATTERN	IED lb	(Uplift)			
Туре:	Girder	Applic		Floor		Brg Directio	n	Live		Dead	Snow	Wind	Co
Plies: Moisture Cond	2 ition: Dn/		n Method:	ASD IBC 2012		1 Vertical		2861		3387	1990	0	
Deflection LL:	480		ig Code: Sharing:	No		2 Vertical		873		1906	1168	0	
Deflection TL:	360	Deck:	manng.	Not Checked									
Importance:	Normal - II												
Temperature:	Temp <= 100°F												
						Bearings							
						Bearing Ler	ngth	Dir.	Cap. F	leact D/L	lb Tot	al Ld. Case	Ld. Con
						1 - SPF 3.0	00"	Vert	80%	3387 / 363	38 702	25 L	D+0.75(
nalveie Dee						End Grain							
nalysis Res		ocation Allowed	Capacity	Comb.		2 - SPF 3.0	00"	Vert	39%	1906 / 153	31 343	37 L	D+0.75(
Analysis Moment	Actual Lo	2' 31049 ft-lb		%) D+0.75(L+	Case	End							
Unbraced	11172 ft-lb	2' 15767 ft-lb		%) D+0.75(L+		Grain							
Shear	6407 lb	1'5" 12021 lb		%) D+0.75(L+	,								
		2'7 5/8" 0.161 (L/48	`	, (,								
		2'8 7/8" 0.215 (L/36											
esign Note	. ,	20110 01210 (2/0	(0) 0.000 (0)	/// 2/01/0(2	0,2								
	port to prevent lateral	movement and rotat	on at the end	bearings. Late	ral support	1							
may also be	required at the interio	or bearings by the bu	ilding code.	g									
	designed to be suppo s must be fastened to		• •	le									
	ust be supported equa												
	a laterally braced at en	-											
	t be laterally braced a derness ratio based or	•											
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow	1.15	Wind 1.	6 Const.	1.25 (Comments	
1	Uniform			Тор	120 PLF	0 PLF		0 PLF	0 PL			VALL	
2	Tie-In	0-0-0 to 2-0-0	1-0-0	Тор	20 PSF	0 PSF) PSF	0 PS			' ROOF	
3	Point	1-9-8		Тор	1040 lb	3115 lb	20	0 lb	010			- 1001	
0	Bearing Length	0-3-8		10P		011010			01	~			
4	Point	2-0-0		Тор	2385 lb	0 lb	2:	385 lb	01	b	0 lb (3	
	Bearing Length	0-3-8		·-r	2000 10	516	2.		01		(
ontinued on pag		0-0-0											
											1.	ale la s	
Notes chemicals 6. For flat roofs provide pro						oper drainage to preve		lanufactur			1001	ech, Inc. S. Reilly Road, Suite eville, NC	#639
calculated Structured Designs is responsible only of the failuling of installation structural adequacy of this component based on the 1. LVL beams must not be cut or drilled						3	01 Merritt 7	Building,	2nd Floor	USA 28314			
responsibility of the customer and/or the contractor to ensure the component suitability of the intended fastening details, beam strength values and code								lorwalk, CT 800) 622-58				64-TRUS	
application, and to verif L umber	y the dimensions and loads.	approvals 3. Damaged Beams must	not be used					/ww.metsav		us			
1. Dry service conditio	ons, unless noted otherwise ed with fire retardant or corrosive	 Design assumes top ec Provide lateral support 	ge is laterally restrai t at bearing points	to avoid							1	comt	есн
		e lateral displacement an		This	design is valid	until 6/28/2026							

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	Client: Weaver Homes	Date:	10/22/2024	Page 2 of 2		
	Project:	Input b		1 age 2 01 2		
isDesign	Address: Gaston II (181	035B) Job Na Project				
Window Hdr. Kerto-	S LVL 1.750" X 14.0	000" 2-Ply - PASSED				
6 3 4						
	······					
² ²	1 5					
				M 1		
and the second second		in The		1'2"		
1 SPF End Grain 0-3-0	2 SPF End G	rain 0-3-0				
]	6'10"			13 1/2"		
	6'10"	1				
Continued from page 1						
ID Load Type 5 Part. Uniform	Location Trib Width Sid		now 1.15 Wind 1.6 Const. 1. 160 PLF 0 PLF 0 P			
6 Part. Uniform	2-3-0 to 0-0-0 Top			LF F07		
Self Weight		11 PLF				
Notes	chemicals	6. For flat roofs provide proper drainage to preven	t 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 design criteria and loadings shown. It is the	1. LVL beams must not be cut or drilled	ponding	Metsä Wood 301 Merritt 7 Building, 2nd Floor	Fayetteville, NC USA 28314		
responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.	 Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals 		Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us	910-864-TRUS		
Lumber 1. Dry service conditions, unless noted otherwise	approvals 3. Damaged Beams must not be used 4. Design assumes top edge is laterally restrained 5. Provide lateral support at bearing points to avoid		www.metsawood.com/ds	COMTOOL		
2. LVL not to be treated with fire retardant or corrosive	lateral displacement and rotation	This design is valid until 6/28/2026		соттесн		
Version 23.40.705 Powered by iStruct [™] Datas	el. 20002201.1					

