

Oliverte Middler Overterste		A0/0/0000	Dawa 0 af 0
Client: Wellco Contracto Project:		Date: 10/6/2020 nput by: David Landry	Page 2 of 6
isDesign Address:		ob Name: Lot 60 Happy Acres	
		Project #: J0920-4401	
DM4 Karta CLVI 4 750" X 44 000"			
BM1 Kerto-S LVL 1.750" X 14.000"	2-Ply - PASSE		
			,
• • • • • •	• • •	• • • •	• • 1
			↓ 1'2"
	• • •	• • • •	
1 SPF End Grain		2 SPF End C	Grain //
/	13'2"		3 1/2"
			3 1/2
1	13'2"		
Multi-Ply Analysis			
	U.S. S.A. S.S. S. S. J. J. S.		
Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12	" o.c Maximum end dista	ance not to exceed 6"	
Capacity 0.0 % Load 0.0 PLF			
Yield Limit per Foot 245.6 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           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 utability of the intended application, and to verify the dimensions and loads.         1. UV beams must not be cut or drilled           2. Refer to manufacturers' product information requirements, multi-pit fastering details, beam strength values, and codr approvals         2. Refer to manufacturers' product information requirements, multi-pit fastering details, beam strength values.           Lumbor         3. Damaged Beams must not be used	1	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. Rellly Road, Suite #639 Fayetteville, NC USA 28314 910-864-TRUS
1. Dry service conditions, unless noted otherwise     2. LVL not to be treated with fire retardant or corrosive	i This design is valid until 1/8/202		соттесн

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		С	lient: V	Vellco Contra	ictors		Dat	te:	10/6/2020				Page 3 o
			roject:					ut by:	David Lan				
isl	Design	A	ddress:						: Lot 60 Ha				
								ject #:	J0920-440 evel: Level	)1			
BM2 K	Kerto-S LVI	L 1.7	750" X	16.000	)" 2-	Ply - P	ASSED		evel: Level				
2 1 SPF 1 SPF Member Info Type: Plies: Moisture Condi	1 	3	Applicatio Design M Building C	ethod: A Code: IE	oor SD SC/IRC 2015	·	Reactions Brg 1 2	s UNF Live 681 681	Dea 80	)5 (	/ )	Wind 0 0	Const 0 0
Deflection LL: Deflection TL: Importance: Temperature:	480 360 Normal Temp <= 100°F	=	Load Sha Deck: Ceiling:	N	o ot Checked ypsum 1/2"		Bearings Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
							1 - SPF 3 2 - SPF 3		29% 29%	805 / 681	1486 1486		D+L D+L
Analysis Res													
Analysis		ocation A		Capacity	Comb.	Case							
Moment	1393 ft-lb	2'3 1/2" 34		0.040 (4%)		L							
Unbraced	1393 ft-lb	2'3 1/2" 2		0.054 (5%)		L							
Shear LL Defl inch		1'6 5/8" 1 <sup>-</sup> 2'3 9/16" 0.		0.084 (8%) 0.020 (2%)		L							
TL Defl inch		2'3 9/16" 0.	.138 (L/360)	0.030 (3%)	D+L	L							
Design Note	(L/10653)						l						
<ol> <li>Fasten all pl to exceed 6"</li> <li>Refer to last</li> <li>Girders are of</li> <li>Top loads m</li> <li>Top braced a</li> </ol>	ies using 3 rows of 1 '. page of calculations designed to be supported equ	for fasteners orted on the ually by all pl	s required fo bottom edge lies.	r specified lo		istance not							
ID	Load Type			rib Width	Side	Dead 0.9	Live 1	Snov	w 1.15 V	Vind 1.6 Con	st. 1.25	Comment	s
1	Uniform				Near Face	99 PLF	297 PLF		0 PLF	0 PLF	0 PLF	F2	
2	Uniform				Тор	120 PLF	0 PLF		0 PLF	0 PLF	0 PLF	Wall	
3	Uniform				Тор	120 PLF	0 PLF		0 PLF	0 PLF	0 PLF	B2GE	
-	Self Weight					12 PLF							
tructural adequacy of lesign criteria and esponsibility of the cu	Designs is responsible only of t this component based on t loadings shown. It is at ustomer and/or the contractor nt suitability of the intend	he 1. LVL beam he 2. Refer to to regarding	& Installation	or drilled product inform equirements, mu	pondin nation Ilti-ply		oper drainage to p	revent	Manufacturer Metsä Wood 301 Merritt 7 E Norwalk, CT 0 (800) 622-585	Building, 2nd Floor 16851	10 Fa . U	omtech, Inc. J01 S. Reilly Road ayetteville, NC SA 3314 10-864-TRUS	Suite #639
application, and to verify Lumber 1. Dry service condition	nt suitability of the intendi y the dimensions and loads. ns, unless noted otherwise ad with fire retardant or corrosi	approvals 3. Damaged 4. Design as 5. Provide la	; I Beams must not b ssumes top edge is	laterally restrained bearing points to	avoid	design is valid	until 1/8/2023		Www.metsawc ICC-ES: ESR-	od.com/us		con	птесн

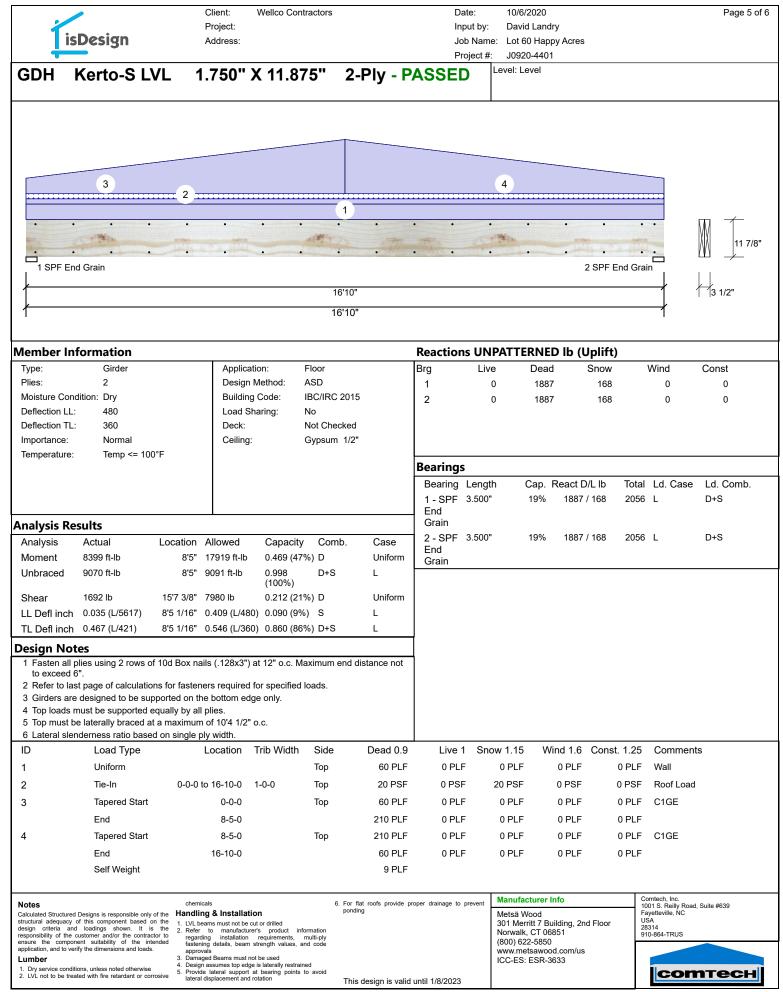
		Client: Project:	Wellco Contractors		Date: Input by:	10/6/2020 David Landry	Page 4 of 6
1	isDesign	Address:			Job Name:	-	
-					Project #:	J0920-4401	
BM2	Kerto-S LVL	1.750" 2	X 16.000"	2-Ply - PASSI		evel: Level	
		2 SPF	-				1'4" 1'4" 3 1/2"

## Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6"

	-
Capacity	80.6 %
Load	198.0 PLF
Yield Limit per Foot	245.6 PLF
Yield Limit per Fastener	81.9 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	D+L
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 design oriteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads. <b>Lumber</b> 1. Dry service conditions, unless noted otherwise 2. LVL not to be treated with fire retardant or corrosive	LVL beams must not be cut or drilled     Refer to manufacturer's product information     regarding installation requirements multi-nly	ponding This design is valid until 1/8/2023	Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us ICC-ES: ESR-3633	Fayetteville, NC USA 228314 910-864-TRUS



CSD DESIGN

	Client:	Wellco Contractors		Date:	10/6/2020	Page 6 of 6
LieDesian	Project:			Input by:	David Landry	
isDesign	Address:				Lot 60 Happy Acres	
				Project #:	J0920-4401 evel: Level	
GDH Kerto-S L	VL 1.750"	X 11.875"	2-Ply - PASSE	ED		
	• •	•••	• • •	•••		
	• •	• •	• • •		• • •	<u> </u>
1 SPF End Grain					2 SPF End	Grain A
<u> </u>			16'10"			
						3 1/2
1			6'10"			1
Multi-Ply Analysis						
Fasten all plies using 2 row	vs of 10d Box nails	(.128x3") at 12"	o.c Maximum end dis	tance no	t to exceed 6"	
Capacity	0.0 %	(				
Load	0.0 PLF					
Yield Limit per Foot Yield Limit per Fastener	163.7 PLF 81.9 lb.					
Yield Mode	IV					
Edge Distance	1 1/2"					
Min. End Distance Load Combination	3"					
Duration Factor	1.00					
Notes	chemicals		<ol> <li>For flat roofs provide proper drainage ponding</li> </ol>	to prevent	Manufacturer Info	Comtech, Inc. 1001 S. Reilly Road, Suite #639
Calculated Structured Designs is responsible only structural adequacy of this component based of design articles and leadings shown It is	on the 1. LVL beams must not be	cut or drilled			Metsä Wood 301 Merritt 7 Building, 2nd Floor	Fayetteville, NC USA 28314
design criteria and loadings shown. It is responsibility of the customer and/or the contrac ensure the component suitability of the int	s the 2. Refer to manufacti ctor to regarding installation	rer's product information requirements, multi-ply			Norwalk, CT 06851 (800) 622-5850	28314 910-864-TRUS
application, and to verify the dimensions and loads		n strength values, and code not be used			www.metsawood.com/us	
Lumber     1. Dry service conditions, unless noted otherwise     2. LVL not to be treated with fire retardant or con	<ol> <li>Design assumes top ed 5. Provide lateral support</li> </ol>	ge is laterally restrained t at bearing points to avoid			ICC-ES: ESR-3633	соттесн
	lateral displacement an		This design is valid until 1/8/20	23		
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