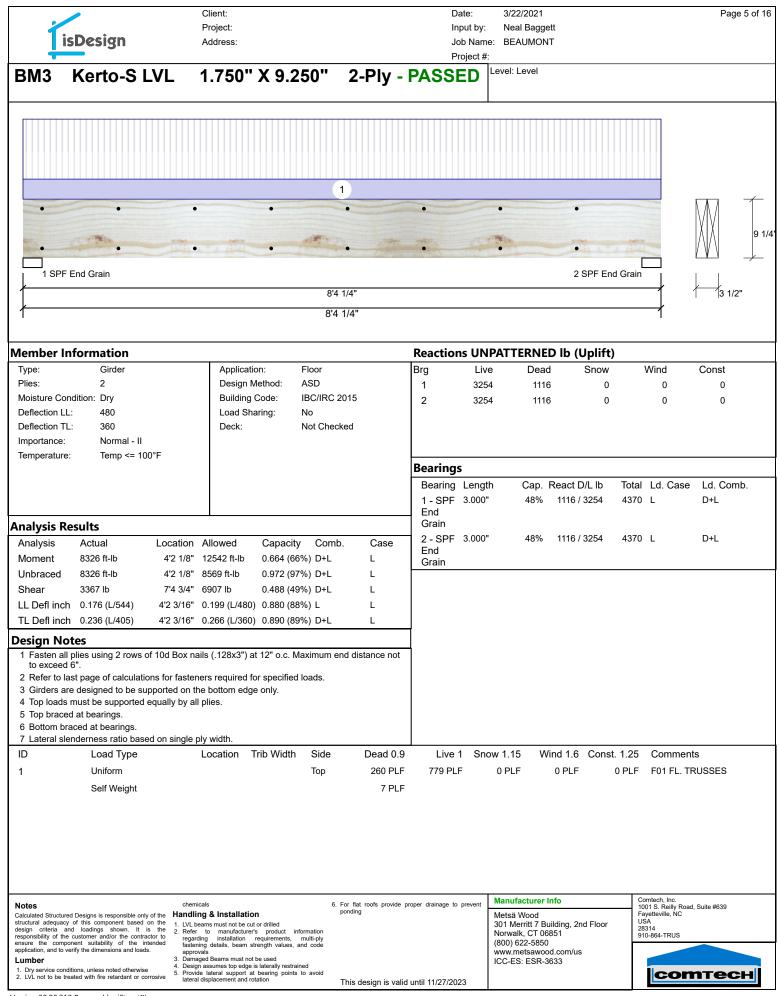
	isDesign	Pro	ent: oject:				-	out by:	3/22/2021 Neal Bagg				Page 1 d
<b>!</b> '	ispesign	Ad	dress:					b Name: oject #:	BEAUMOI	NI			
BM4	Kerto-S LVL	. 1.7	50" X	13.00	0" 2-	Ply - P	ASSED	-	evel: Level				
		1											
- 1 SPF		Fil		• 2 Hange	er (HDQ410IF								
/		6'4"				$\rightarrow$							3 1/2"
∤		6'4"				$\neg$							
lember l	Information						Reaction	s UNP/	ATTERNI	ED lb (Up	lift)		
Type:	Girder 2		Application		Floor		Brg	Live	Dea		now	Wind	Const
Plies: Moisture Co	2 ondition: Dry		Design Me Building C		ASD BC/IRC 2015		1	1441 1441	51 51		0 0	0 0	0 0
Deflection L	•		Load Shar		No		2	1441	0	10	0	Ū	Ŭ
Deflection T	TL: 360		Deck:	r	Not Checked								
mportance:													
Temperature	re: Temp <= 100°F						Boorings						
							Bearings						
							Bearing	-	•	React D/L		otal Ld. Cas	
							1 - SPF 2 -	3.000"	44% 21%	513 / 14 513 / 14		954 L 954 L	D+L D+L
nalysis R	Results						Hanger	0.000	2170	010714		504 L	DIE
Analysis	Actual Lo	ocation All	owed	Capacity	Comb.	Case							
Moment	2739 ft-lb	3'2" 23	540 ft-lb	0.116 (12%	6) D+L	L							
Jnbraced	2739 ft-lb	3'2" 152	248 ft-lb	0.180 (18%	6) D+L	L							
Shear	1170 lb 1	1'3 1/4" 970	07 lb	0.121 (12%	6) D+L	L							
LL Defl inc	ch 0.015 (L/4710)	3'2" 0.1	49 (L/480)	0.100 (10%	6) L	L							
TL Defl inc	ch 0.021 (L/3473)	3'2" 0.1	99 (L/360)	0.100 (10%	6) D+L	L							
esign No	otes												
1 Fasten al	all plies using 3 rows of 100	d Box nails (	.128x3") at	12" o.c. Ma	ximum end di	istance not	1						
to exceed	d 6". last page of calculations fo	or factonors	required for	coocified l	oode								
	anger nailing holes.		required for	specified i	Jaug.								
	are designed to be support		-	only.									
	s must be supported equa ed at bearings.	ally by all plie	es.										
	praced at bearings.												
	lenderness ratio based on												
D	Load Type	Lo	cation Tr	ib Width	Side	Dead 0.9	Live 1			Vind 1.6 C			
1	Uniform				Тор	152 PLF	455 PLF	(	0 PLF	0 PLF	0 F	LF F03 FL.	TRUSSES
	Self Weight					10 PLF							
		chemicals			6. For fla	at roofs provide p	roper drainage to p	bieveni	lanufacturer	Info		Comtech, Inc. 1001 S. Reilly Ro	oad, Suite #639
alculated Structur	ured Designs is responsible only of the cy of this component based on the	Handling &	Installation		6. For fla pondin	at roofs provide p g	proper drainage to p	N	letsä Wood		loor	<ul> <li>1001 S. Reilly Ro Fayetteville, NC USA</li> </ul>	oad, Suite #639
Calculated Structur tructural adequac lesign criteria a esponsibility of th	and loadings shown. It is the he customer and/or the contractor to	1. LVL beams 2. Refer to regarding	must not be cut o manufacturer's installation re	r drilled product info quirements, n	pondin rmation nulti-ply	at roofs provide p g	proper drainage to p	N 3 N	letsä Wood 01 Merritt 7 E lorwalk, CT 0	Building, 2nd F 6851	loor	<ul> <li>1001 S. Reilly Ro Fayetteville, NC</li> </ul>	oad, Suite #639
tructural adequactering a segment of the segment of	cv of this component based on the	<ul> <li>Handling 8</li> <li>1. LVL beams</li> <li>2. Refer to regarding fastening d approvals</li> </ul>	must not be cut o manufacturer's installation re etails, beam stre	r drilled product info quirements, n ngth values, an	pondin rmation nulti-ply	at roofs provide p g	roper drainage to p	N 3 N (8	Metsä Wood 01 Merritt 7 E lorwalk, CT 0 300) 622-585 /ww.metsawo	Building, 2nd F 6851 0 od.com/us	loor	<ul> <li>1001 S. Reilly Ro Fayetteville, NC USA 28314</li> </ul>	bad, Suite #639
alculated Structur tructural adequace esign criteria a esponsibility of the nsure the composition, and to pplication, and to .umber	icy of this component based on the and loadings shown. It is the he customer and/or the contractor to uponent suitability of the intended	<ul> <li>Handling 8</li> <li>1. LVL beams</li> <li>2. Refer to regarding fastening d approvals</li> <li>3. Damaged B</li> <li>4. Design assis</li> <li>5. Provide lat</li> </ul>	must not be cut o manufacturer's installation re	r drilled product info quirements, n ngth values, an e used laterally restraine	pondin rmation hulti-ply d code	at roofs provide p g	roper drainage to p	N 3 N (8	Metsä Wood 01 Merritt 7 E lorwalk, CT 0 300) 622-585	Building, 2nd F 6851 0 od.com/us	loor	1001 S. Reilly Ro Fayetteville, NC USA 28314 910-864-TRUS	mtech

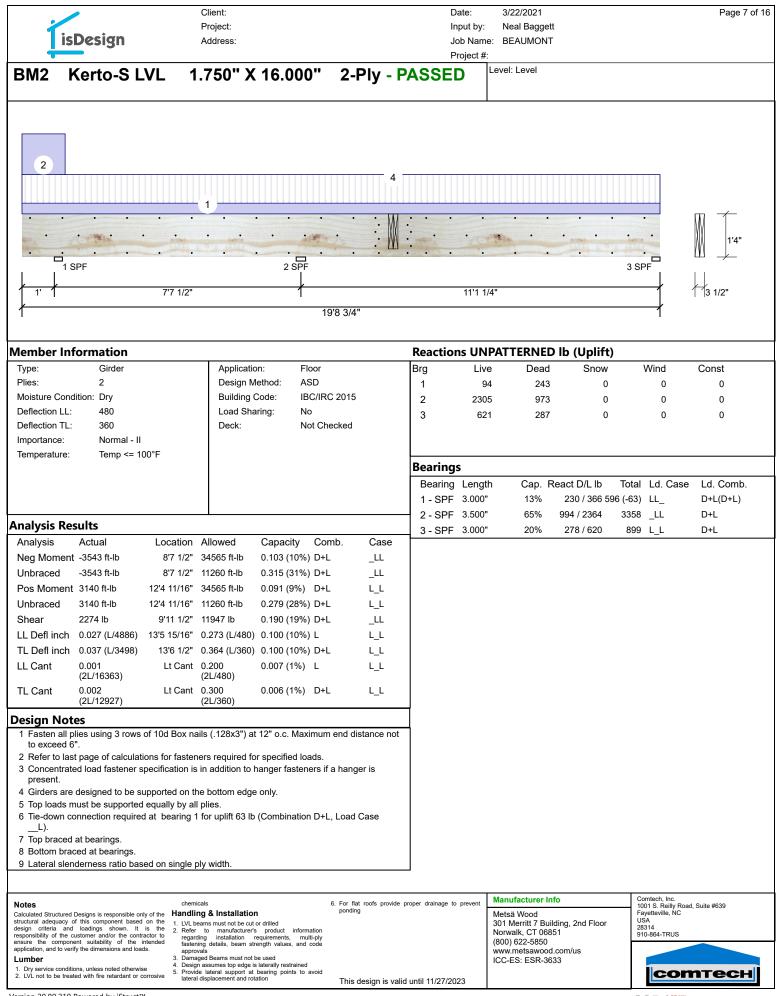
	Client:		Date: 3/22/2021	Page 2 of 16
isDesign	Project: Address:		nput by: Neal Baggett lob Name: BEAUMONT	
			Project #:	
BM4 Kerto-S LVL	1.750" X 13.000"	2-Ply - PASSE	D Level: Level	
• • •	• • •			$\overline{\mathbf{M}}$ 1
• •	• • •	<ul> <li></li> <li></li> </ul>		X   X   1'1"
• • •	• • • -	/ <b> </b> _¥		
1 SPF	2 Hanger (HD			
¢	6'4"	<del>_</del>		3 1/2"
f	6'4"			
Multi-Ply Analysis				
	f 10d Box nails (.128x3") at 12"	o.c Maximum end dista	ance not to exceed 6"	
	0 % 0 PLF			
Yield Limit per Foot 24	45.6 PLF			
Yield Mode IV				
Edge Distance 1 Min. End Distance 3'	1/2"			
Load Combination				
Duration Factor 1.	00			
Notoo	chemicals	6. For flat roofs provide proper drainage t	Manufacturer Info	Comtech, Inc.
Notes Calculated Structured Designs is responsible only of the structural adequacy of this component based on the	Handling & Installation	<ol> <li>For flat roots provide proper drainage t ponding</li> </ol>	Metsä Wood 301 Merritt 7 Building, 2nd Floor	1001 S. Reilly Road, Suite #639 Fayetteville, NC USA
design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended	<ol> <li>Refer to manufacturer's product information regarding installation requirements, multi-ply</li> </ol>		Norwalk, CT 06851 (800) 622-5850	28314 910-864-TRUS
application, and to verify the dimensions and loads.	approvals 3. Damaged Beams must not be used		www.metsawood.com/us ICC-ES: ESR-3633	
<ol> <li>Dry service conditions, unless noted otherwise</li> <li>LVL not to be treated with fire retardant or corrosive</li> </ol>	<ol> <li>Design assumes top edge is laterally restrained</li> <li>Provide lateral support at bearing points to avoid lateral displacement and rotation</li> </ol>	This design is valid until 11/27/20		соттесн
Version 20.80.210 Powered by iStruct™				

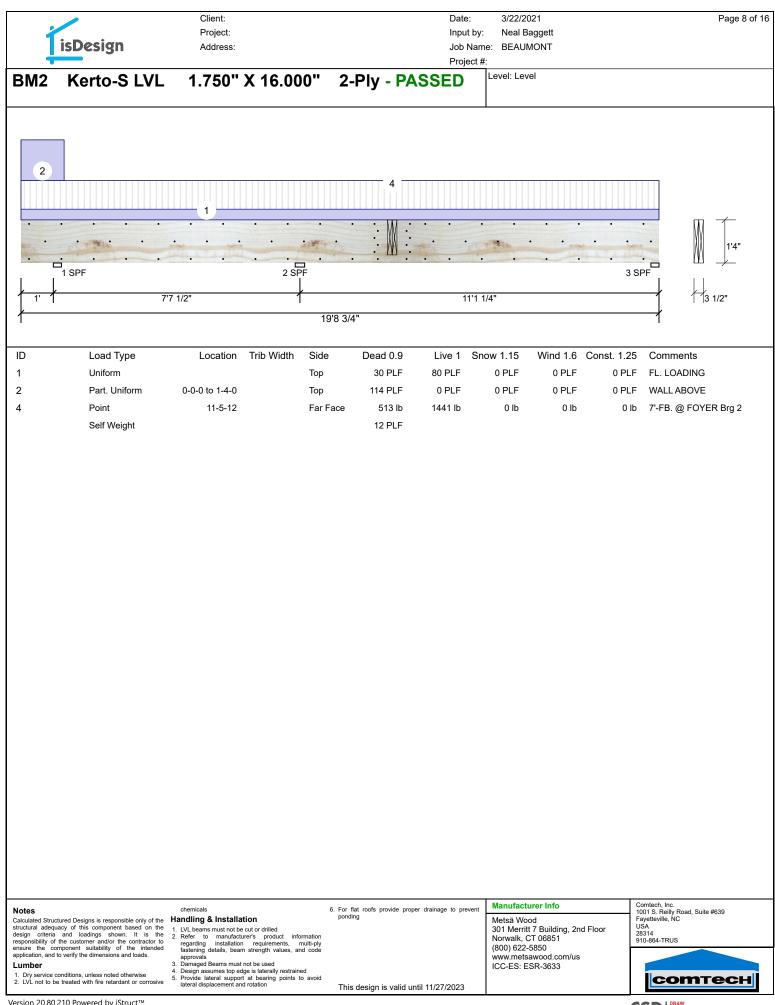
is	Design	Client: Project: Address:		Date: Input Job N Proje	by: Ne lame: BE	2/2021 al Baggett AUMONT			Page 3 of
BM6	Kerto-S LVL	1.750" X 9.2	50" 2-Ply -	,		Level			
••••••••••••••••••••••••••••••••••••••	2 2 F End Grain	1.		3	• • • • • •	••••••••••••••••••••••••••••••••••••••			∮ ∮ ↓ ↓ 1/2"
/		6'10"							1 10 172
	formation			Deciti			(1		
Type: Plies: Moisture Con Deflection LL: Deflection TL: Importance: Temperature:	Girder 2 dition: Dry : 480 : 360 Normal - II	Design Method: Building Code: Load Sharing:	Floor ASD IBC/IRC 2015 No Not Checked		Live 1548 1548	Dead 2508 2508	Snow 1579 1579	Wind 0 0	Const 0 0
nalysis Re				Bearings Bearing Le 1 - SPF 4.3 End Grain	-	Cap. React 35% 2508		tal Ld. Case 353 L	Ld. Comb. D+0.75(L+S)
Analysis Moment Unbraced Shear LL Defl inch TL Defl inch <b>esign Not</b> 1 Fasten all to exceed 6 2 Refer to las 3 Girders are 4 Top loads r 5 Top bracec 6 Bottom bra	Actual     Locat       6844 ft-lb     3       6844 ft-lb     3       3503 lb     9       0.061 (L/1212)     3       0.127 (L/586)     3       tes       plies using 2 rows of 10d Bc       5".     st page of calculations for fact adesigned to be supported must be supported equally be	3'5"       10370 ft-lb       0.660 (66         1'1"       7943 lb       0.441 (44         3'5"       0.155 (L/480)       0.400 (40         3'5"       0.207 (L/360)       0.610 (61         bx       nails (.128x3") at 12" o.c. M         asteners required for specified on the bottom edge only.         by all plies.	<ul> <li>%) D+0.75(L+S) L</li> <li>%) D+0.75(L+S) L</li> <li>%) D+0.75(L+S) L</li> <li>%) 0.75(L+S) L</li> <li>%) D+0.75(L+S) L</li> <li>aximum end distance not</li> </ul>	2 - SPF 4. End Grain	500"	35% 2508	3/2345 48	353 L	D+0.75(L+S)
ID 1 2 3 4	Load Type Uniform Uniform Uniform Uniform	Location Trib Width	SideDead 0.9Top151 PLFTop114 PLFTop322 PLFFar Face140 PLF7 PLF	453 PLF 0 PLF 0 PLF 0 PLF	Snow 1.1 0 PL 0 PL 322 PL 140 PL	F 0 PL F 0 PL F 0 PL	F OPL F OPL	_F F03 FL. T _F WALL AB( _F A03 RF. T	RUSSES DVE RUSSES
tructural adequacy esign criteria and esponsibility of the nsure the compor pplication, and to ve .umber I. Dry service condit	d loadings shown. It is the 2. customer and/or the contractor to hent suitability of the intended rify the dimensions and loads. 3. 4.	chemicals andling & Installation LVL beams must not be cut or drilled Refer to manufacturer's product infr regarding installation requirements, fastening details, beam strength values, a approvals Damaged Beams must not be used Design assumes top edge is laterally repstaria Provide Lateral support at bearing points lateral displacement and rotation	nulti-ply nd code ed	proper drainage to prev	Metsä 301 M Norwa (800) www.i	facturer Info I Wood lerritt 7 Building, alk, CT 06851 622-5850 metsawood.com/ S: ESR-3633		Comtech, Inc. 1001 S. Reilly Roa Fayetteville, NC USA 28314 910-864-TRUS	1, Suite #639

1	isDesign	Client: Project: Address:		Date: 3/22/2021 Input by: Neal Baggett Job Name: BEAUMONT	Page 4 of 16
				Project #:	
BM6	Kerto-S LV	L 1.750" X 9.25	0" 2-Ply - PAS	SED Level Level	
				i	
•	•	• •	• •	• •	
					27 V 9 1/4
		• •	• •		$\frac{1}{1}$
	SPF End Grain	6'1"		2 SPF End Grain	3 1/2"
<del> </del>		6'10"			
Multi-Pl	y Analysis				
Fasten al	l plies using 2 rows o	of 10d Box nails (.128x3") at	12" o.c Maximum end d	stance not to exceed 6"	
Capacity Load Yield Limit p	1	4.4 % 40.0 PLF 88.3 PLF			
Yield Limit p Yield Limit p Yield Mode	per Fastener 9	√			
Edge Distan	nce 1	1/2"			
Min. End Dis Load Combi		" )+S			
Duration Fa	ictor 1	.15			
Notes Calculated Strue	ictured Designs is responsible only of the	chemicals e Handling & Installation	<ol><li>For flat roofs provide proper drains ponding</li></ol>	ge to prevent Manufacturer Info Metsä Wood	Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC
structural adeq design criteria responsibility of	uacy of this component based on the a and loadings shown. It is the of the customer and/or the contractor to	e 1. LVL beams must not be cut or drilled e 2. Refer to manufacturer's product inform	nation	301 Merritt 7 Building, 2 Norwalk, CT 06851	
ensure the co application, and	to verify the dimensions and loads.	<ul> <li>regarding installation requirements, mid fastening details, beam strength values, and approvals</li> <li>Damaged Beams must not be used</li> </ul>	code	(800) 622-5850 www.metsawood.com/u	
Lumber 1. Dry service 2. LVL not to b	conditions, unless noted otherwise be treated with fire retardant or corrosive	<ol> <li>Design assumes top edge is laterally restrained</li> <li>Browide lateral support at bearing points to</li> </ol>	<sup>avoid</sup> This design is valid until 11/2	ICC-ES: ESR-3633	соттесн
L			rino ucorginio valiu unur 11/2	.,_510	



	-	Clier	nt:		Date:	3/22/2021		Page 6 of 16
1	icDecign	Proje			Input by:			
	isDesign	Addr	ess:		Job Nam Project #	e: BEAUMONT		
BM3	Korto-S I	VI 17	750" X 9.250"	2_Dlv	,	Level: Level		
DIVIS	Reno-3 L	.VL 1./	50 A 9.250	<b>Z-F</b> 1 <b>y</b>	- PASSED			
•	•	•	•	•	•	•	•	ā///
								·
•	•	•	•	•	•	•	•	
	PF End Grain						2 SPF End Grain	
				8'4 1/4"				3 1/2"
				3'4 1/4"				7
			C	04 1/4				Ι
	y Analysis							
	ll plies using 2 row		nails (.128x3") at 12"	o.c Maximu	m end distance n	ot to exceed 6		
Capacity Load		0.0 % 0.0 PLF						
Yield Limit p		163.7 PLF						
Yield Limit p Yield Mode		81.9 lb. IV						
Edge Distan		1 1/2"						
Min. End Dis Load Combi		3"						
Duration Fa		1.00						
Notes		chemicals		6. For flat roofs provid	e proper drainage to prevent	Manufacturer Info	Com	tech, Inc. S. Reilly Road, Suite #639
Calculated Strue	uctured Designs is responsible only quacy of this component based o	of the Handling & I		ponding		Metsä Wood 301 Merritt 7 Buildir	Faye USA	tteville, NC
design criteria responsibility of	a and loadings shown. It is of the customer and/or the contrac	the 2. Refer to n tor to regarding in	ust not be cut or drilled nanufacturer's product information nstallation requirements, multi-ply			301 Merritt 7 Buildir Norwalk, CT 06851	2831 2831	4 864-TRUS
application, and	component suitability of the inte d to verify the dimensions and loads.	ended fastening deta approvals	ails, beam strength values, and code			(800) 622-5850 www.metsawood.co		
	conditions, unless noted otherwise	<ol> <li>Design assum</li> <li>Provide latera</li> </ol>	ims must not be used es top edge is laterally restrained al support at bearing points to avoid			ICC-ES: ESR-3633		соттесн
<ol> <li>LVL not to b</li> </ol>	be treated with fire retardant or con	lateral displace	ement and rotation	This design is va	alid until 11/27/2023			Sonneen





1	isDesign	Client: Project: Address:	Date: Input by: Job Name Project #:		Page 9 of 16
BM2	Kerto-S LVL	1.750" X 16.000"		_evel: Level	
			1		
		· · · · · ·		· · · · · · · · · · · · · · · · · · ·	
			$\cdot$ $\vdots$ $\mathbb{M}$ $\vdots$ $\cdot$ $\cdot$ $\cdot$		
	1 SPF ,	2 SPF	11'1 1/4	3 SPF	Λ 3 1/2"
∤'		-	9'8 3/4"	·	

## Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. except for regions covered by concentrated load fastening. Maximum end distance not to exceed 6"

Maximum cha distance	
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

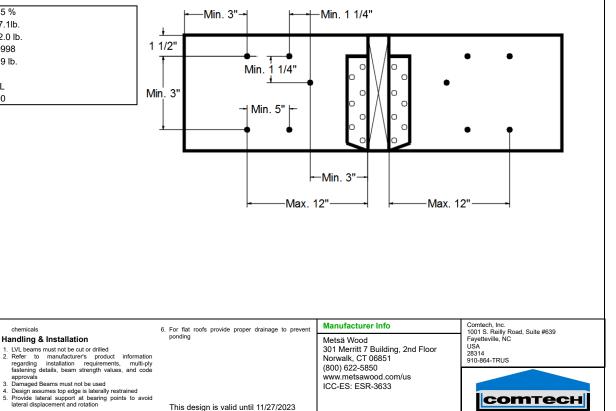
## Concentrated Load

Fasten at concentrated side load at 11-5-12 with a minimum of (12) – 10d Box nails (.128x3") in the

pattern	shown

pattern snown.		
Capacity	99.5 %	
Load	977.1lb.	
Total Yield Limit	982.0 lb.	
Cg	0.9998	
Yield Limit per Fastener	81.9 lb.	
Yield Mode	IV	
Load Combination	D+L	
Duration Factor	1.00	

## Min/Max fastener distances for Concentrated Side Loads



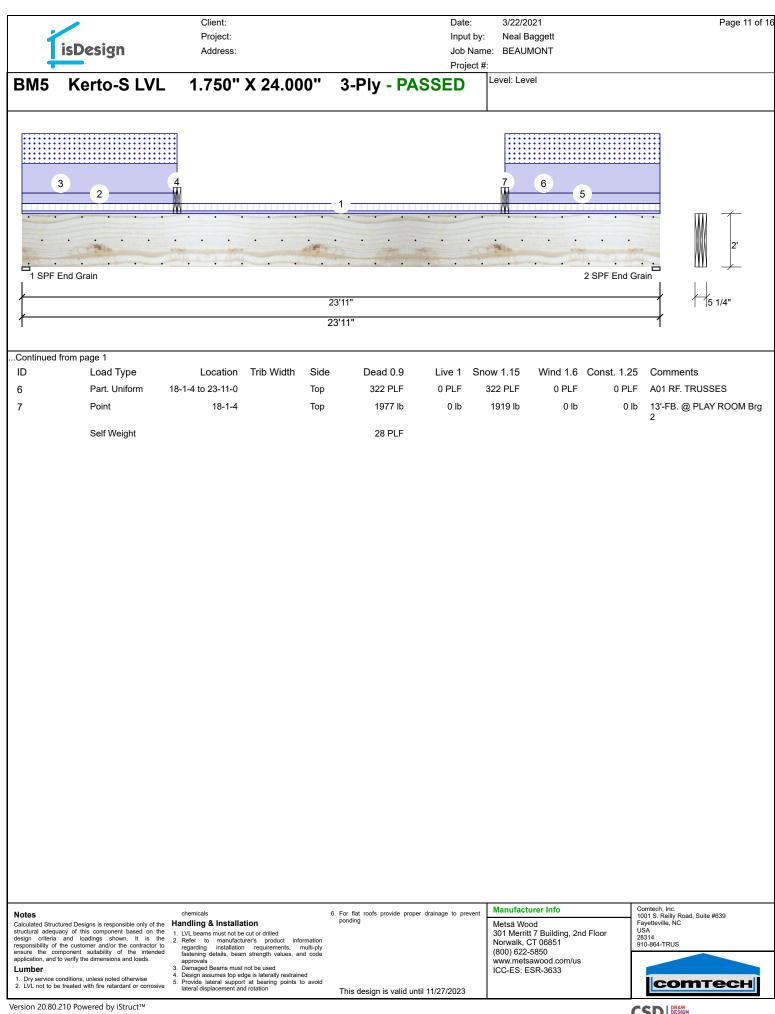


Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads. Lumber 1. Dry service conditions, unless noted otherwise 2. LVL not to be treated with fire retardant or corrosive 5.

chemicals

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Tie	sDesign	Clier Proje Addr	ect:			In	put by:	3/22/2021 Neal Bagg BEAUMON				Page 10 c
		Addi	633.				roject #:	DEADWON	• •			
BM5	Kerto-S LV	L 1.75	0" X 24	000" 3	B-Ply - P	ASSEI	<b>)</b> Lev	el: Level				
3	2	4					Ĩ	7 6	5			
•	• • •	· ₩ · ·	•	1		•		Ŵ <u>.</u>		•	• •	m 1
												2'
	al sizes	- Minera	11 -	112 12					- AND -			
1 SPF End	d Grain								2 SF	PF End Gr	ain	
1				23'1	1"							5 1/4"
ſ				23'1	1"						1	
Tember In Type:	formation Girder		Application:	Floor		Reaction Brg	Live	TTERNE Dea	D Ib (Upli d Sno	-	Wind	Const
Plies:	3		Design Method:	ASD		1	957	520			0	0
Moisture Con			Building Code:	IBC/IRC 20	15	2	957	520	5 379	91	0	0
Deflection LL Deflection TL			₋oad Sharing: Deck:	Yes Not Checke	hd							
Importance:	Normal - II		Deok.	Not Officiate	, d							
Temperature:	: Temp <= 100°	F										
						Bearing	5					
						Bearing	Length	Cap.	React D/L lb	o Total	Ld. Case	e Ld. Comb.
						1 - SPF	3.500"	56%	5205 / 3791	8996	ιL	D+S
nalysis Re	esults					End Grain						
Analysis		Location Allo	ved Capa	city Comb.	Case	2 - SPF	3.500"	56%	5205 / 3791	8996	i L	D+S
Moment		11'11 1/2" 1312	•	(29%) D+0.75(		End Grain						
Unbraced	37841 ft-lb	11'11 1/2" 3795			L+S) L	Grain						
04	7405 16	2410.2/01 2004	(100%	,	1							
Shear	7185 lb 0.160 (L/1763) 1 <sup>°</sup>	21'8 3/8" 3091 1'11 9/16" 0.58		(23%) D+S	L							
		1'11 9/16" 0.38 1'11 9/16" 0.78	( )	( )	L							
			(1/000) 0.100	(10,0) D.0	-	1						
esign No	plies using 3 rows of	10d Box nails ( 1	28x3") at 12" o	c. Maximum end	distance not	4						
to exceed	6".											
	ist page of calculation: e designed to be supp			fied loads.								
4 Top loads	must be supported eq	ually by all plies										
	be laterally braced at a aced at bearings.	a maximum of 7'	1 1/8" o.c.									
	enderness ratio based	on single ply wid	lth.									
D	Load Type	Loca	tion Trib Wi	dth Side	Dead 0.9	Live	1 Snow	1.15 W	/ind 1.6 Co	nst. 1.25	Commer	nts
1	Uniform			Тор	30 PLF	80 PL	= 0	PLF	0 PLF	0 PLF	FL. LOAD	DING
2	Part. Uniform	0-0-0 to 5-	9-12	Тор	114 PLF	0 PL	F 0	PLF	0 PLF	0 PLF	WALL AB	OVE
3	Part. Uniform	0-0-0 to 5-	9-12	Тор	322 PLF	0 PL	F 322	PLF	0 PLF	0 PLF	A01 RF. T	RUSSES
4	Point	5-	9-12	Тор	1977 lb	01	b 19 <sup>-</sup>	19 lb	0 lb	0 lb	13'-FB. @ 1	PLAY ROOM Br
5	Part. Uniform	18-1-4 to 23-	11-0	Тор	114 PLF	0 PL	F 0	PLF	0 PLF	0 PLF	' WALL AB	OVE
ontinued on p				·								
lotes		chemicals		6. Fo	r flat roofs provide p	roper drainage to	prevent Ma	nufacturer	Info	Ç	Comtech, Inc. 001 S. Reilly Roa	ad Suite #630
alculated Structure	d Designs is responsible only of of this component based on	the Handling & I		po	nding	,: aramayo tu	Me	tsä Wood	uilding 2nd El-	or L	ayetteville, NC JSA	au, Suite #639
esign criteria an esponsibility of the	nd loadings shown. It is customer and/or the contracto	the 2. Refer to r r to regarding in	st not be cut or drilled nanufacturer's produc stallation requirement	nts, multi-ply			No	rwalk, CT 06		2	8314 10-864-TRUS	
nsure the compo pplication, and to ve	onent suitability of the inten erify the dimensions and loads.	ded fastening deta approvals	ils, beam strength val	ues, and codé			ŵw	0) 622-5850 /w.metsawoo	od.com/us			
	itions, unless noted otherwise	<ol> <li>Design assum</li> <li>Provide laters</li> </ol>	ms must not be used es top edge is laterally r I support at bearing p	estrained oints to avoid			ICO	C-ES: ESR-(	3633			ntocu
. LVL not to be tre	eated with fire retardant or corros	sive lateral displace	ment and rotation		nis design is valid	until 11/27/20	23					птесн



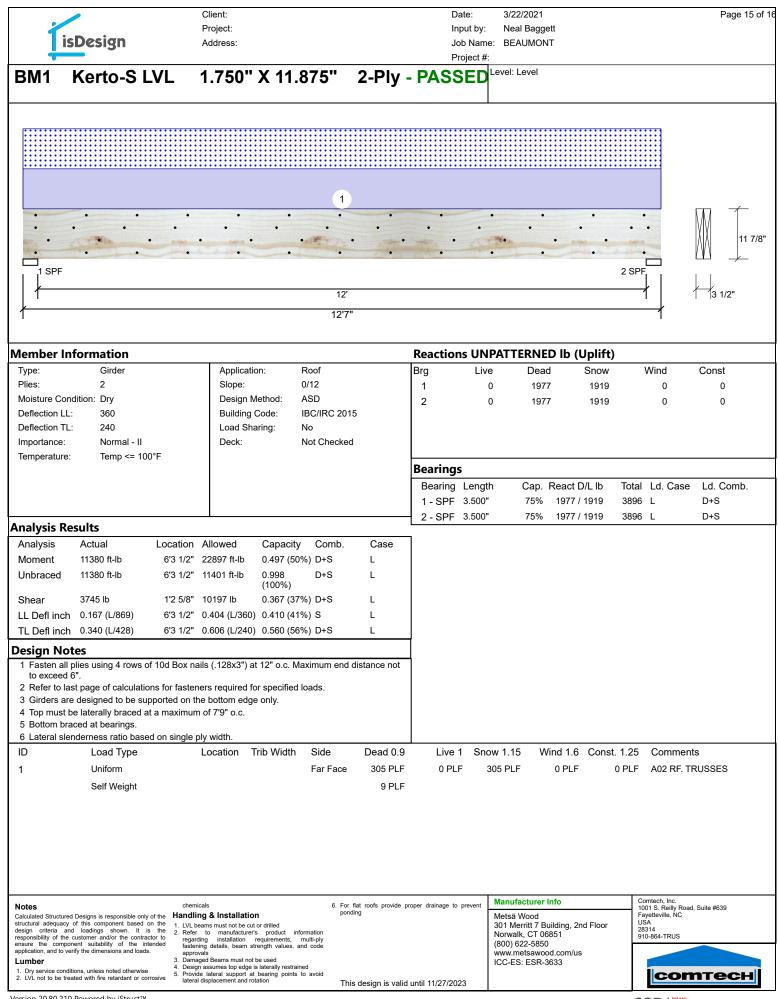
isDesign	Client: Project: Address:	Date: Input by: Job Name Project #:		Page 12 of 1
BM5 Kerto-S LVL	1.750" X 24.000"	3-Ply - PASSED	Level: Level	
	X		<u>M</u>	n <del>/</del>
	· · · · · · ·	· · · · · · ·		2'
1 SPF End Grain	<u> </u>			
1		23'11"	/·	5 1/4"
ł	:	23'11"	1	
Multi-Ply Analysis asten all plies using 3 rows of 1	0d Box nails (.128x3") at 12"	o.c Nail from both sides. Maxi	imum end distance not to exceed	

0		
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	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	LVL beams must not be cut or drilled     Refer to manufacturer's product information     regarding installation requirements multi-ply	ponding This design is valid until 11/27/2023	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 28314 910-864-TRUS

Design		Project: Address:				J	nput by: ob Name: 'roject #:	Neal Bagg BEAUMOI				
Certo-S LV	L 1.	750")	( 11.87	75" 2-	Ply - F			evel: Level				
	•	•	•	1	•		•			•		M 1-
• • • • Grain	. init t								2 SP	• • • • • • • • • • • • • • • • • • •		11 7/8"
				18'3"							+	3 1/2"
				19'							/	1 10
ormation						Reactio	ns UNP	ATTERNI	D lb (Upli	ft)		
Girder						Brg	Live	Dea	id Sno	W	Wind	Const
tion: Dry 480 360 Normal - II		Building	Code: aring:	IBC/IRC 2015 No		1 2	0			0	0	0 0
Temp <= 100°F	:					Booring	<u> </u>					
						Bearing	Length	Cap. 15%				Ld. Comb. D
ults						Grain	4 500"	450/	0040 //	0040	1 I : <b>6</b>	D
8957 ft-lb	9'6" 1	7919 ft-lb	0.500 (50	%) D	Uniform	End Grain	4.500	1370	201070	2010	Uniform	
			(100%)									
0.000 (L/999)	0 9	99.000 (L/0	) 0.000 (0%	)								
	961/16 0	0.012 (L/300	) 0.950 (95	%) D	Uniform	-						
es using 2 rows of 1 page of calculations lesigned to be supported ust be supported equ laterally braced at a ed at bearings.	for fastene orted on the ually by all p maximum c	rs required f bottom edg lies. of 10'4 1/8" o	or specified e only.		stance not							
Load Type Uniform		ocation .	Trib Width	Side Top	Dead 0.9 203 PLF 9 PLF			v 1.15 V 0 PLF	Vind 1.6 Co 0 PLF	nst. 1.25 0 PLF	Commen END WAL	ts L / GABLE
	Dermation           Girder           2           ion: Dry           480           360           Normal - II           Temp <= 100°F	Grain         Grain           prmation         Girder           2         Girder           2         Girder           2         Girder           2         Girder           360         Normal - II           Temp <= 100°F	Grain         ormation         Girder       Applicati         2       Design N         ion: Dry       Building         480       Load Sh         360       Deck:         Normal - II       Temp <= 100°F	Grain           prmation           Girder         Application:           2         Design Method:           along Application:         Design Method:           ion: Dry         Building Code:           480         Load Sharing:           360         Deck:           Normal - II         Temp <= 100°F	Grain         18'3"           19'         19'           ormation         Application: Floor Design Method: ASD Building Code: IBC/IRC 2015 Load Sharing: No Deck: Not Checked           Normal - II Temp <= 100"F	Grain       18'3"         18'3"         18'3"         19'         Dormation         Girder         2       Design Method:       ASD         Building Code:       IBC/IRC 2015       Load Sharing:       No         360       Deck:       Not Checked       Deck:       Not Checked         Attual Location Allowed Capacity Comb. Case         8957 ft-lb       9'6"       17919 ft-lb       0.500 (50%) D       Uniform         Motion:         Actual Location Allowed Capacity Comb. Case         8957 ft-lb       9'6"       17919 ft-lb       0.500 (50%) D       Uniform         0.000 (L/999)       0       999.000 (L/0)       0.000 (0%)       0.01form         0.000 (L/999)       0       999.000 (L/0)       0.000 (0%)       0.01form         S         es using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not         page of calculations for fasteners required for specified loads.         leage of calculations for fasteners required for specified loads.         leage of calculations for fasteners required for specified loads.         leage of calculat	Grain         18'3"           19'         19'           cirder         Application:         Floor           2         Design Method:         ASD           at80         Building Code:         IBC/IRC 2015           Load Sharing:         No         Deck:           Normal - II         Temp <= 100"F	Grain         18'3"         19'         Reactions UNP.         Girder       Application:       Floor         2       Design Method:       ASD         building Code:       IBC/IRC 2015       Dead Sharing:         Load Sharing:       No       Deck:       Not Checked         Normal - II       Temp <= 100"F       Bearing Length       1 - SPF 4.500"         Bearing Length         1. SPF 4.500"       End         Bearing Length         1. SPF 4.500"       End         B957 ft-lb       9'6"       17919 ft-lb       0.500 (50%) D       Uniform         8957 ft-lb       9'6"       9'69 0.00 (L/0)       0.000 (D%)       D       Uniform         0.000 (L/999)       0       999.000 (L/0)       0.000 (0%)       0.116'rm       2 - SPF 4.500"         See using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not page of calculations for fasteners required for specified loads.       Esigned to be supported on the bottom edge only.       Is be supported equally by all plies.       Isterally braced at a maximum of 10'4' 1/8" o.c.         at at bearings.       10'14'' 1/8" o.c.       di at bearings.       Isterally braced at a maximum of 10'4' 1/8" o.c.	IP''       IP''       Grain       IP''       Cormation       Girder       2     Application:     Floor       Design Method:     ASD     Building Code:     IBC/IRC 2015       Load Sharing:     No     Deck:     Not Checked       Normal - II     Temp <= 100°F	Grain         2 SP           18'3"         19'           Demation         Reactions UNPATTERNED Ib (Upli 19'           Girder 2 100:         Application:         Floor Design Method:         ASD Building Code:         Brg         Live         Dead         Snc           360         Normal - II Temp <= 100"F	Grain         2 SPF End Grai           Grain         2 SPF End Grai           18'3"         19'           cormation         Application:           Gridr         Application:           Promation         Big Live           Design Method:         ASD           Building Code:         IBC/IRC 2015           Load Sharing:         No           Deck:         Not Checked           Deck:         Not Checked           Bearings         Bearings           Bearing Length         Cap. React D/L.lb           1 0         2016           Jones         Not Checked           Bearings         Bearing Length           1 0         2016 / 0           Jones         Dool (Jong)           Actual         Location         Allowed           Sep5 ft-lb         96°         Apel Ib         0.218 (22%) D           Uniform         (100%)         0.990 D         Uniform           0.000 (US99)         0.999.000 (UN)         0.990.000 (UN)         15%           0.000 (US99)         0.999.000 (UN)         0.900 (Pinorm           st seling 2 rows of 10d Box nails (128x3") at 12" o.c. Maximum end distance not           page of calculations for	Grain         2 SPF End Grain           18'3"         19'           Design Method:         Application:         Floor         Reactions UNPATTERNED Ib (Uplift)           Grider         Application:         Floor         Brg         Live         Dead         Snow         Wind           18'3"         19'         Design Method:         ASD         Brg         Live         Dead         Snow         Wind           2         0         2016         0         0         2         0         2016         0         0           360         Deck:         Not Checked         Deck:         Not Checked         Bearing Length Grain         Cap. React D/L Ib         Total         Ld. Case           1< SPF 4.500"

-	Client: Project:	Date: Input by:	3/22/2021 : Neal Baggett	Page 14 of
isDesign	Address:	Job Nan Project #	ne: BEAUMONT	
GDH Kerto-S LV	′L 1.750'' X 11.875	2-Ply - PASSED	Level: Level	
				E.
• • • •	• • • • •	• • • • •	• • • •	
1 SPF End Grain			••••••••••••••••••••••••••••••••••••••	<u> </u>
		4.010	2 SFF Ellu	
		18'3" 19'		3 1/2"
				•
Multi-Ply Analysis				
	of 10d Box nails (.128x3") at 1	2" o.c Maximum end distance r	not to exceed 6"	
oad /ield Limit per Foot	0.0 PLF 163.7 PLF			
ield Limit per Fastener	81.9 lb.			
eld Mode dge Distance	IV 1 1/2"			
in. End Distance	3"			
oad Combination Juration Factor	1.00			
			Manufacturar Info	Comtech, Inc.
Notes Calculated Structured Designs is responsible only of		<ol> <li>For flat roofs provide proper drainage to prevent ponding</li> </ol>	Manufacturer Info Metsä Wood	1001 S. Reilly Road, Suite #639 Fayetteville, NC
structural adequacy of this component based on design criteria and loadings shown. It is responsibility of the customer and/or the contracto	the 1. LVL beams must not be cut or drilled the 2. Refer to manufacturer's product informat r to regarding installation requirements multi		301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851	USA 28314 910-864-TRUS
ensure the component suitability of the inten application, and to verify the dimensions and loads. Lumber	<ul> <li>ded fastening details, beam strength values, and co approvals</li> <li>3. Damaged Beams must not be used</li> </ul>	ode	(800) 622-5850 www.metsawood.com/us	
Lumber     1. Dry service conditions, unless noted otherwise	<ol> <li>Design assumes top edge is laterally restrained</li> </ol>		ICC-ES: ESR-3633	соттесн



isDesign	Client: Project: Address:	Date: Input Job N Proje	by: Neal Baggett Name: BEAUMONT	Page 16 of 1
BM1 Kerto-S L	VL 1.750" X 11.8	75" 2-Ply - PASSE		
				— . n <i>t</i>
			· · · · ·	
1 SPF		12' 12'7"	2	SPF / / / 3 1/2"
		12 7		I
Id Limit per Foot Id Limit per Fastener Id Mode Je Distance I. End Distance Id Combination ration Factor	305.0 PLF 376.5 PLF 94.1 lb. IV 1 1/2" 3" D+S 1.15			

Notes	chemicals	6. For flat roofs provide proper drainage to prevent	Manufacturer Info	Comtech, Inc. 1001 S. Reilly Road, Suite #639
	1. I VI beams must not be cut or drilled	ponding This design is valid until 11/27/2023	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 28314 910-864-TRUS
Version 20.90.210 Deward by iStructM				