		C	ient:	Wellco Contr	ractors		Da	ate:	5/8/202	24				Page 1 of 14
	- •	Pi	roject:				In	put by:	Curtis (Quick				
ÍS	Design	A	ddress:				Ja	b Name	e: Plan 17	' Beams				
							Pr	oject #:						
GDH	Kerto-S L\	/L 1.7	750"	X 11.87	5" 2	2-Ply - P	ASSE	כ	Level. Lev	ei				
										4				
					5 -	;	3				6			
					Ŭ,									
		1							2					
• •	• •	•	•	• •	•	•	• •		•	•	•	• •	M	\uparrow
	a rittle				at the gra	all the		-	a free and a second	-	-		XXX	11 7/8"
					•	ACMPART A	Course a Street	- 10 M	•		and descelaring a second second	•		\rightarrow
1 SPF 0-3	3-8										2 SPF	0-3-8		
<u>/</u>					16'1	0"							13	1/2"
/					16'1	0"								
ļ					101							I		
Member In	formation						Reaction	is UN	PATTER	NED Ib	(Uplift)			
Type:	Girder		Applica	tion: F	Floor		Brg Dire	ection	Liv	e D)ead	Snow	Wind	Const
Piles: Moisture Con	Z dition: Dry		Design	Method: /	45D		1 Vert	ical		0	764	190	0	0
Deflection LL:	480		Load SI	naring:	No		2 Vert	ical		0	1549	291	0	0
Deflection TL:	360		Deck:	j. I	Not Checke	ed								
Importance:	Normal - II													
Temperature:	Temp <= 100	°F												
							Bearings	5						
							Bearing	Lengt	h Dir.	Cap. R	eact D/L lb	Total I	.d. Case	Ld. Comb.
							1 - SPF	3.500"	Vert	18%	/64 / 190	955 L	-	D+S
Analysis Re	sults						2 - SPF	3.500	vert	35%	1549/291	1640 [D+5
Analysis	Actual	Location A	llowed	Capacity	Comb.	Case	1							
Moment	5342 ft-lb	9'6 7/8" 17	7919 ft-lb	0.298 (30%	%) D	Uniform								
Unbraced	6333 ft-lb	9'6 13/16" 63	340 ft-lb	0.999	D+S	L								
Shoor	1211 lb	15'6 5/9" 70	090 Ib	(100%)		Uniform								
Snear		1000/0 / 1	an no 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.104 (10%	%)D %)S	Uniform								
	0.000 (L/0912)	8'9 15/16" 0	409 (L/400 546 (L/360	0.123(12)	%) 0+S	L 								
	0.011(E/020)	0010/10 0.	010 (2/000	, 0.070 (007		<u> </u>	1							
1 Provide su	es	ral movement -	and rotatic	n at the end h	pearings I	ateral support	4							
may also b	e required at the inte	erior bearings b	by the build	ding code.	Jeannys. L	aterar support								
2 Fasten all p	olies using 2 rows of	10d Box nails	(.128x3")	at 12" o.c. Ma	aximum en	d distance not								
3 Refer to las	t page of calculatior	ns for fasteners	s required	for specified l	oads.									
4 Girders are	designed to be sup	ported on the l	pottom edg	ge only.										
5 Top loads r	nust be supported e	qually by all pli	es. 15'8 7/16	"										
7 Bottom mu	st be laterally braced at	d at end bearin	gs.	0.0.										
8 Lateral sler	nderness ratio based	d on single ply	width.											
ID	Load Type	Lo	ocation	Trib Width	Side	Dead 0.9	Live 2	1 Sno	ow 1.15	Wind 1.6	6 Const. 1	.25 Com	ments	
1	Part. Uniform	0-0-0 t	o 7-1-8		Тор	17 PLF	0 PLF	=	17 PLF	0 PLF	= 0 F	PLF M1		
2	Part. Uniform	7-10-0 to	16-10-0		Тор	120 PLF	0 PLF	=	0 PLF	0 PLF	= 0 F	PLF Wall		
3	Tapered Start		7-10-0		Тор	15 PLF	0 PLF	=	0 PLF	0 PLF	= 0 F	PLF Gable	÷	
	End		13-3-4			65 PLF	0 PLF	=	0 PLF	0 PLF	= 0 F	PLF		
Continued on pa	age 2													
Notes		chemicals			6. Fo	or flat roofs provide p	roper drainage to	prevent	Manufact	irer Info				
Calculated Structured structural adequacy	Designs is responsible only o of this component based or	of the Handling	& Installati s must not be c	on ut or drilled	po	onding			Metsä Woo 301 Merritt	od 7 Buildina, 2	2nd Floor			
design criteria and responsibility of the	I loadings shown. It is customer and/or the contract	the 2. Refer to or to regarding	manufacture installation	er's product info requirements, n	rmation nulti-ply				Norwalk, C	T 06851				
application, and to ver	ify the dimensions and loads.	nded fastening approvals	details, beam	strength values, an	id code				(800) 622- www.mets	awood.com/u	IS			
1. Dry service condit	ions, unless noted otherwise	 Damaged Design as Provide la 	sumes top edge ateral support	e is laterally restraine at bearing points to	ed avoid									
2. LVL not to be treat	ted with fire retardant or corre	osive lateral disp	placement and	rotation	T	his design is valid	until 6/28/2026	3						



1	isDesign	Client: Project: Address:	Wellco Contractors	3	Date: Input t Job Na Project	5/8/2024 by: Curtis Quick ame: Plan 17 Beams t #:	Page 3 of 1
GDH	Kerto-S L	VL 1.750"	X 11.875"	2-Ply	- PASSED	Level: Level	
	• • •	• •	• •	• •	• •	• • •	····
	• • • • • • • • • • • • • • • • • • •	•••	•••	•••	•••	• • •	2 SPF 0-3-8
				16'10" 16'10"			
Multi-Pl Fasten all	y Analysis I plies using 2 rov	vs of 10d Box nails	(.128x3") at 12"	o.c Maxim	um end distance	not to exceed 6".	
Capacity Load	Foot	0.0 % 0.0 PLF					
Yield Limit p Yield Limit p	ber Foot ber Fastener	163.7 PLF 81.9 lb. 1					
Yield Mode		IV 1 1/2"					
Min. End Distan	stance	3"					
Load Combi Duration Fac	ination ctor	1.00					
Notes		chemicals		6. For flat roofs pro	vide proper drainage to preve	Manufacturer Info	
Calculated Structural adequed design criteria	uctured Designs is responsible only quacy of this component based a and loadings shown. It	on the s the 2 Pefer to monufact	tion cut or drilled rer's product information	ponaing		Metsä Wood 301 Merritt 7 Building, 2nd F	loor
responsibility of ensure the co application, and	f the customer and/or the contra component suitability of the ir d to verify the dimensions and load	ctor to regarding installation tended fastening details, bear 5. approvals	requirements, multi-ply strength values, and code			Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us	
Lumber 1. Dry service	conditions, unless noted otherwise	3. Damaged Beams must 4. Design assumes top ec 5. Provide lateral support	not be used ge is laterally restrained at bearing points to avoid			ds	
2. LVL not to b	be treated with fire retardant or co	rrosive lateral displacement an	d rotation	This design is	volid uptil 6/29/2026		







1	isDesign		Client: Project: Address:	Wellco Contractors	;		Date: Input by: Job Name Project #:	5/8/2024 Curtis Quick e: Plan 17 Beams		Page 7 of 14
BM2	Kerto-S	LVL	1.750"	X 16.000"	2-Ply	- PASSE	D	Level: Level		
							1			
•	• •	•	•	• •	•	• •	•	• •	•	M 1
	•	•	•••	• •	•	•	•	• •		1'4"
	- 0-3-8			13'8	3 3/4"			2 S	$ \xrightarrow{PF 0-3-8} \land $	3 1/2"
≁				13'8	3 3/4"					
Multi-Ply	y Analysis									
Fasten all Capacity Load	plies using 3	rows of 7 0.0 9 0.0 1	l 0d Box nails % PLF	(.128x3") at 12"	o.c Maxim	ium end dist	tance no	ot to exceed 6".		
Yield Limit p Yield Limit p Cm	er Foot er Fastener	245. 81.9 1	6 PLF lb.							
Yield Mode Edge Distan	ce	IV 1 1/2	2"							
Min. End Dis Load Combin Duration Fac	stance nation stor	3"								
Bulaton rac		1.00								
Notes			chemicals		6. For flat roofs pr	ovide proper drainage	to prevent	Manufacturer Info		
Calculated Struct structural adequidesign criteria responsibility of	tured Designs is responsib acy of this component bar and loadings shown. the customer and/or the	le only of the ased on the tis the contractor to	LVL beams must not b Refer to manufact regarding installation	e cut or drilled urer's product information n requirements. multi-ply	ponding			Metsä Wood 301 Merritt 7 Building, 2nd F Norwalk, CT 06851	loor	
ensure the co application, and Lumber	proposent suitability of the to verify the dimensions and	he intended d loads. 4	fastening details, bea approvals Damaged Beams mus Design assumes top e	t not be used dge is laterally restrained				(800) 622-5850 www.metsawood.com/us		
2. LVL not to b	e treated with fire retardant	t or corrosive	 Provide lateral support lateral displacement ar 	rt at bearing points to avoid nd rotation	This design is	s valid until 6/28/20	026			

	/	Client: Wel	co Contractors			Date	e:	5/8/2024					Page 8 of 1
Í.	Docign	Project:				Inpu	t by:	Curtis Q	uick				
	spesign	Address:				Job Proi	Name: ect #:	Plan 17	Beams				
BM3	Kerto-S LVI	1.750" X	9.250"	2-Ply -	PA	SSE	D Le	evel: Leve					
			•	,									
				<u></u>	<u></u>	<u></u>	<u></u>						
		an and a second s	1										
												M	/
	a retter		al Miner					¥in.					9 1
				NALMER AL AL	Side integal	a Second	in the second					Ĺ¥	
1 SPF	F 0-3-8					2	SPF 0-	-3-8					
1			6'7"					,	,			1	3 1/2"
1			6'7"					1					
lember lı Type:	nformation Girder	Application:	Floor		Rea	Direct	UNP/	ATTERN	IED Ib	(Uplift)	Spow	Wind	Con
Plies:	2	Design Meth	od: ASD		1	Vertica	al	0		1449	1425	0	Con
Moisture Co	ndition: Dry	Building Coo	e: IRC 2018	3	2	Vertica	al	C		1449	1425	0	
Deflection LL	L: 480	Load Sharin	g: No Not Cher	ked									
Importance:	Normal - II	Dook											
Temperature	e: Temp <= 100°F					•							
					Веа	rings	onath	Dir	Can	Peact D/L lb	Total	ld Case	Id Com
					1 -	SPF 3	engin .500"	Vert	55%	1449 / 1425	2874 I	Lu. Case L	D+S
	•				2 -	SPF 3	.500"	Vert	55%	1449 / 1425	2874 I	L	D+S
	Actual Loc	ation Allowed C	anacity Com	h Case	7								
Moment	4095 ft-lb 3'	3 1/2" 14423 ft-lb 0.	284 (28%) D+S	L L									
Unbraced	4095 ft-lb 3'	3 1/2" 10451 ft-lb 0.	392 (39%) D+S	L									
Shear	1952 lb	1' 3/4" 7943 lb 0.	246 (25%) D+S	L									
LL Defl inch	h 0.037 (L/1991) 3' h 0.074 (L/987) 3'	3 1/2" 0.153 (L/480) 0. 3 1/2" 0 204 (L/360) 0	241 (24%) S 365 (36%) D+S	L									
	1 0.074 (L/907) 3	3 1/2 0.204 (L/300) 0.	303 (30 %) D+3	L	-								
1 Provide s	upport to prevent lateral m	ovement and rotation at	he end bearings.	Lateral support	4								
may also 2 Fasten all	be required at the interior	bearings by the building Box nails (128x3") at 12	code. " o.c. Maximum e	end distance not									
to exceed	l 6".												
4 Girders a	re designed to be supporte	ed on the bottom edge or	ly.										
5 Top loads	must be supported equal	y by all plies.											
7 Bottom m	ust be laterally braced at end	end bearings.											
8 Lateral sle	enderness ratio based on s	single ply width.	Width Side	Dead 0.0		Live 1	Snow	1 15	Wind 1	6 Const 1	25 Com	mente	
1	Uniform	Location mb	Тор	433 PLF	:	0 PLF	433	3 PLF	0 Pl	_F 01	20 00m PLF A1	incino	
	Self Weight			7 PLF	:								
lotes		chemicals	6.	For flat roofs provide	proper dra	inage to pre	event N	lanufactur	er Info				
Calculated Structure tructural adequacy lesign criteria a	ed Designs is responsible only of the y of this component based on the and loadings shown. It is the	Handling & Installation 1. LVL beams must not be cut or dr 2. Pofer to manufactured	lled	Pouring			N 3	letsä Wood 01 Merritt	l Building	2nd Floor			
esponsibility of the	e customer and/or the contractor to ponent suitability of the intended	 regarding installation requi fastening details, beam strengt 	ements, multi-ply n values, and code				N (8	orwalk, C1 300) 622-5	06851 350	h			
_umber	ditions unloss sated attaction	approvals 3. Damaged Beams must not be us 4. Design assumes top edge is late	ed rally restrained				w	ww.metsa	vood.com	//uS			
2. LVL not to be tr	reated with fire retardant or corrosive	 Provide lateral support at bear lateral displacement and rotation 	ing points to avoid	This design is vali	d until 6/	28/2026							

1	isDesign	Client: Wellco C Project: Address:	ontractors	Date: Input by: Job Name:	5/8/2024 Curtis Quick : Plan 17 Beams	Page 9 of 14
BM3	Kerto-S LV	L 1.750" X 9.	250" 2-Ply -	Project #:	evel: Level	
•	•	••••	•	•	• 11/2"	9 1/4
	SPF 0-3-8	6'7"		2 SPF (D-3-8	
∤		6'7"				1 1 1 1
Multi-Ply	y Analysis					
Load Yield Limit pr Yield Limit pr CM Yield Mode Edge Distan Min. End Dis Load Combii Duration Fac	o er Foot 1 er Fastener 8 1 v v ce 1 stance 3 nation ctor 1	.0 PLF 63.7 PLF 1.9 lb. / 1/2" " .00				
Notes Calculated Struc structural adequ design criteria responsibility of ensure the co application and	ctured Designs is responsible only of the acy of this component based on the and loadings shown. It is the the customer and/or the contractor to mponent suitability of the intended to verify the dimensione card loade	chemicals Handling & Installation 1. LVL beams must not be cut or drilled 2. Refer to manufacturer's product regarding installation requirements fastening details, beam strength value	 For flat roofs provide ponding information , multi-ply and code 	proper drainage to prevent	Manufacturer Info Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850	
application, and Lumber 1. Dry service o 2. LVL not to b	to verify the almensions and loads. conditions, unless noted otherwise e treated with fire retardant or corrosive	approvals 3. Damaged Beams must not be used 4. Design assumes top edge is laterally res 5. Provide lateral support at bearing poir lateral displacement and rotation	trained nts to avoid This design is val	id until 6/28/2026	www.metsawood.com/us	

			Client:	Wellco Contra	actors		Da	ate:	5/8/202	24				Page 10 of 1
			Project:				Inp	out by:	Curtis (Quick				
is	Design		Address:				Jo	b Nam	ie: Plan 17	7 Beams				
Ţ,							Pre	oject #						
BM4 I	Kerto-S L	VL 1.	.750" >	(16.00	0" 2	-Ply - P	ASSEC)	Level: Lev	el				
						_								
2	<u>.</u>													
• • • • • • • • • • • •	<u></u>		<u>,</u>											
	1													,
•		•												
													IVIVI	
	a rittle												IAIA	1'4"
4.	CALCULATION DESCRIPTION	الم المنظم												
1 SPF 0-	3-8 2	2 SPF 0-7-0												
/	۵'۵"		\rightarrow											3 1/2"
			_											112
	4'4"		1											
Member In	formation		Applicat	ion: E	loor		Reaction	s UN		NED Ib	(Uplift)	Spour	Mind	Canat
Plies:	2		Design I	Method: A	SD		1 Verti	cal	LIV	0	817	265	0	Const
Moisture Con	dition: Dry		Building	Code: II	RC 2018		2 Verti	cal		0	935	303	0	0
Deflection LL:	480		Load Sh	aring: N	lo			cai		0	000	000	0	0
Deflection TL:	360		Deck:	N	lot Checked	ł								
Importance:	Normal - II													
Temperature:	Temp <= 10	00°F												
							Bearings	;						
							Bearing	Lengt	th Dir.	Cap. F	React D/L lb	Total L	d. Case	Ld. Comb.
							1 - SPF	3.500'	" Vert	21%	817 / 265	1082 L		D+S
Analysis Ro	culte						2 - SPF	7.000	" Vert	12%	935 / 303	1238 L		D+S
	Actual	Location	Allowed	Canacity	Comb	Case	1							
Moment	869 ft-lb	2' 1/4"	39750 ft-lb	0.022 (2%)	D+S	I								
Unbraced	869 ft-lb	2' 1/4"	29979 ft-lb	0.029 (3%)	D+S	1								
Shear	229 lb	2'5"	13739 lb	0.017 (2%)	D+S	L								
LL Defl inch	0.001	2' 5/16"	0.090 (L/480) 0.007 (1%)	S	L								
	(L/66978)	2 0,10	0.000 (2, 100	,,	0	-								
TL Defl inch	0.003	2' 5/16"	0.120 (L/360) 0.022 (2%)	D+S	L								
	(L/10387)						{							
Design Not	tes		at and votatio	n at the and h		tanal auronant	4							
may also b	e required at the in	teral movement	s by the build	n at the end b ling code.	earings. Lat	teral support								
2 Fasten all p	olies using 3 rows o	of 10d Box nai	ils (.128x3") a	at 12" o.c. Ma	kimum end	distance not								
3 Refer to las	o". st page of calculatio	ons for fasten	ers required f	or specified lo	ads									
4 Girders are	designed to be su	pported on the	e bottom edg	e only.										
5 Top loads r	nust be supported	equally by all	plies.											
6 Top must b	e laterally braced a	at end bearing	S.											
8 Lateral sler	nderness ratio base	ed on single p	ly width.											
ID	Load Type		Location .	Trib Width	Side	Dead 0.9	Live 1	Sn	ow 1.15	Wind 1.	.6 Const. 1.2	25 Comr	nents	
1	Uniform				Тор	272 PLF	0 PLF	-	91 PLF	0 PL	.F 0 Pl	_F F05		
2	Uniform				Тор	120 PLF	0 PLF	-	40 PLF	0 PL	.F 0 Pl	_F F02		
	Self Weight					12 PLF								
	een treight													
N /		chomic			ê Fer	flat ranfo provide p	rener dreinere te	neccent	Manufactu	irer Info		1		
Notes Calculated Structured	Designs is responsible only	y of the Handlin	ig & Installatic	on	pond	ding	roper urainage to	prevent	Metsä Woo	od		-		
structural adequacy design criteria and	of this component based I loadings shown. It	on the 1. LVL be is the 2. Refer	ams must not be cu to manufacture	it or drilled r's product infori	nation				301 Merritt Norwalk C	7 Building, T 06851	2nd Floor			
ensure the compor	customer and/or the contra nent suitability of the in ity the dimensions and load	actor to regardi ntended fastenii	ng installation ng details, beam s	requirements, m strength values, and	ulti-ply code				(800) 622-	5850	h			
Lumber	,	approv 3. Damag 4. Design	jed Beams must no	t be used	1				www.mets	awoou.com	145			
 Dry service condit LVL not to be treat 	ions, unless noted otherwise ated with fire retardant or co	e 5. Provide prrosive lateral	 lateral support a displacement and r 	at bearing points to otation	avoid Thi	is design is valid	until 6/28/2026							

	Client:	Wellco Contractors	Da	te:	5/8/2024	Page 11 of 14
	Project:		Ing	out by:	Curtis Quick	
isDesign	Address:		Jol	Name:	Plan 17 Beams	
			Pro	oject #:		
BM4 Kerto-S LVL	1.750"	X 16.000"	2-Ply - PASSED)	evel: Level	
1 SPF 0-3-8 2 SPF 0-7- 4'4" 4'4"	 →<11/2"					114" 114" 13 1/2"
Fasten all plies using 3 rows of 10	d Box nails	(128x3") at 12" c	o c Maximum end distar	nce not	t to exceed 6"	

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	245.6 PLF
Yield Limit per Fastener	81.9 lb.
См	1
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	
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	Handling & Installation 1. LVL beams must not be cut or drilled 2. Refer to manufacturer's product information regarding installation requirements, multi-ply	ponding	Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851	
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	fastening details, beam strength values, and code 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 lateral displacement and rotation	This design is valid until 6/28/2026	(800) 622-3850 www.metsawood.com/us	

Į is	Design	Cl Pi Ad	lient: roject: ddress:	Wellco Contra	ctors			D Ir Ji P	Date: nput by: ob Name Proiect #:	5/8/202 Curtis (e: Plan 17	4 Quick ′ Beams				Page 12 of 1
BM5	Kerto-S LV	′L 1.7	750" X	(16.000)" 2-	Ply - P	AS	SEI	D	Level: Leve	el				
2 V 1 Hanger 2 SP 2 2	1 (IUS3.56/16 (Min)) 0-1	2-0													1'4"
Member In	formation						Rea	ctio	ns UNI	PATTER	NED II	b (Uplift)			
Туре:	Girder		Applicati	on: Fl	oor		Brg	Dir	ection	Liv	е	Dead	Snow	Wind	Const
Plies:	2		Design N	Alethod: A	SD		1	Ver	tical		0	196	72	0	0
Deflection L	· 480		Load Sh	Code: In aring: N	C 2018		2	Ver	tical		0	189	48	0	0
Deflection TL	: 360		Deck:	Ne Ne	ot Checked										
Importance:	Normal - II														
Temperature	Temp <= 100°	Ϋ́F					Bea	rina	<u>د</u>						
							Be	aring	Length	n Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
							1 -	0	2.000"	Vert	5%	196 / 72	268	L	D+S
Analysis Re	sults						Ha	nger	3 500"	Vert	5%	189 / 48	237	1	D+S
Analysis	Actual	Location A	llowed	Capacity	Comb.	Case			0.000	Volt	0,0	100710	201		
Moment	143 ft-lb	9 1/4" 39	9750 ft-lb	0.004 (0%)	D+S	L									
Unbraced	143 ft-lb	9 1/4" 39	9187 ft-lb	0.004 (0%)	D+S	L									
Shear	52 lb	1'6" 10	0752 lb	0.005 (0%)	D	Uniform									
LL Defl inch	0.000 (L/187413)	9 1/4" 0.	042 (L/480)	0.003 (0%)	S	L									
TL Defl inch	0.000	9 1/4" 0.	056 (L/360)	0.006 (1%)	D+S	L									
	(L/63485)						┥								
1 Provide su	tes	al movement :	and rotation	at the end he	arings Late	eral support	4								
may also b	be required at the inte	rior bearings b	by the build	ing code.											
2 Fasten all to exceed	plies using 3 rows of 7 6".	10d Box nails	(.128x3") a	t 12" o.c. Max	imum end di	istance not									
3 Refer to la	st page of calculation	s for fasteners	s required fo	or specified loa	ads.										
4 Fill all hanges 5 Left Headers	ger nailing holes. er: SPF. Thickness: 3	1/2"													
6 Girders are	e designed to be supp	ported on the l	bottom edge	e only.											
7 Top loads 8 Top must b	must be supported eq	qually by all pli end bearings	ies.												
9 Bottom mu	ist be laterally braced	l at end bearin	igs.												
10 Lateral sle	nderness ratio based	on single ply	width.												
Notes		chemicals			6. For fla	at roofs provide p	proper dra	inage to	prevent	Manufactu	irer Info				
Calculated Structure structural adequacy	d Designs is responsible only of of this component based on	f the Handling the 1. LVL beam	& Installatio s must not be cut	n or drilled		9				Metsä Woo 301 Merritt	od 7 Buildin	g, 2nd Floor	1		
responsibility of the ensure the compo	customer and/or the contracto nent suitability of the inten	or to regarding fastening	installation	s product inform requirements, mu trength values and	lation lti-ply code					Norwalk, C (800) 622-	T 06851 5850				
application, and to ve Lumber	erify the dimensions and loads.	approvals 3. Damaged	Beams must not	be used						www.metsa	awood.co	m/us			
 Dry service condi LVL not to be tre 	itions, unless noted otherwise ated with fire retardant or corro	4. Design as 5. Provide la lateral disp	sumes top edge ateral support at placement and ro	is laterally restrained bearing points to tation	avoid Thie	design is valio	l until 6/	28/202	26						
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			Client:	Wellco Contracto	ors		Date:	5/8/20	24			Р	age 13 of 14
	1	isDesign	Project:				Input t	by: Curtis	Quick 7 Booms				
	- 4	130631311	Address.				Proiec	anie. Fian i ct#:	/ Deallis				
B	M5	Kerto-S I VI	1 750"	X 16 000"	2-PI	ν - ΡΔ	SSED	Level: Lev	vel				
	NIU		1.700	X 10.000	Z -1 1	y - i A	OOLD						
IE 1 2	2 1 Hang 2	er (IUS3.56/16 (Min)) 0-2-0 SPF 0-3-8 2' 2' Load Type Uniform Point Bearing Length Self Weight	Location 0-9-4 0-3-8	Trib Width Si To To	de De p 1 p	ead 0.9 120 PLF 120 Ib 12 PLF	Live 1 S 0 PLF 0 lb	Snow 1.15 0 PLF 120 lb	Wind 1.6 0 PLF 0 Ib	Const. 1.25 0 PLF 0 lb	Commen Wall C1	ts	2"
No	tes		chemicals		6. For flat rool	fs provide prope	r drainage to preve	ent Manufact	urer Info				
Cale	culated Struc	tured Designs is responsible only of the acy of this component based on the	Handling & Installa 1. LVL beams must not be	tion e cut or drilled	ponding			Metsä Wo 301 Merri	ood tt 7 Building, 2n	d Floor			
des resp ens	gn criteria onsibility of ure the co	and loadings shown. It is the the customer and/or the contractor to mponent suitability of the intended	 Refer to manufacture regarding installation fastening details bear 	urer's product information requirements, multi-pl n strength values and cod	n y e			Norwalk, (800) 622	CT 06851 -5850				
app Lu	lication, and f	to verify the dimensions and loads.	approvals 3. Damaged Beams must	not be used				www.mets	sawood.com/us				
1. 2.	Dry service c LVL not to be	onditions, unless noted otherwise e treated with fire retardant or corrosive	 Design assumes top ec Provide lateral suppor lateral displacement an 	Ige is laterally restrained t at bearing points to avoi d rotation	d This decir	an is valid un	til 6/28/2026						
L			-		i i iis uesi(gii is vailu ull	un 0/20/2020	1					

isDesign	Client: Wi Project: Address:	elico Contractors	Date: 5/8/2024 Input by: Curtis Quick Job Name: Plan 17 Beams Project #:	Page 14 of 14
BM5 Kerto-S	SLVL 1.750" X	16.000" 2-Ply -	PASSED Level: Level	
1 Hanger (IUS3.56/16 (N 2 SPF 0-3-8 2' 2' 2'	Tim)) 0-2-0			1'4" 1'4" 3 1/2"
Fasten all plies using 3	rows of 10d Box nails (.12	8x3") at 12" o.c Maximui	n end distance 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.			
	1			
	IV 1.1/01			
Edge Distance	1 1/2"			
Min. End Distance	3"			

Notes	chemicals	6. For flat roofs provide proper drainage to prevent	Manufacturer Info	
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	Handling & Installation 1. LVL beams must not be cut or drilled 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code 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 lateral displacement and rotation	ponding This design is valid until 6/28/2026	Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us	

Load Combination Duration Factor

1.00

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