



	Client:	Weaver Developme	nt	Date:	4/14/2022	Page 3 of 1
LieDesign	Project:			Input by:	Curtis Quick	
Ispesign	Address:			Job Name Project #	e: Ferguson Beams	
DH Karta-S	I VI 1 750"	X 11 875"		SED	Level: Level	
Dir Kento-O		X 11.075	5-i iy - i A0			
• •	• •	•	• •	•	• • •	
• •	• •	•	• •	•	• • •	
 1 SPE End Grain					2 SPE End Grain	
		10 [.]				5 1/4"
		10'				1
Iti-Ply Analysis						
en all plies using 2 r	ows of 10d Box nails	(128x3") at 12" (o.c. Nail from both	sides Max	imum end distance not to	o exceed
city	0.0 %					
l insites an East	0.0 PLF					
Limit per Foot Limit per Fastener	81.9 lb.					
Mode	IV					
Distance End Distance	1 1/2" 3"					
Combination	3					
tion Factor	1.00					
						-
es	chemicals	lien	 For flat roofs provide proper di ponding 	ainage to prevent	Manufacturer Info	Comtech, Inc. 1001 S. Reilly Road, Suite #639
lated Structured Designs is responsible ural adequacy of this component base	only of the Handling & Installat ed on the 1. LVL beams must not be	cut or drilled	- 210011 9		Metsä Wood 301 Merritt 7 Building, 2nd Floor	Fayetteville, NC USA 28314
I criteria and loadings shown. I nsibility of the customer and/or the co e the component suitability of the	ntractor to intended for the second s	requirements, multi-ply			Norwalk, CT 06851 (800) 622-5850	910-864-TRUS
ation, and to verify the dimensions and lo	pads. approvals 3. Damaged Beams must	not be used			www.metsawood.com/us	
ry service conditions, unless noted other	4. Design assumes top ed 5. Provide lateral support	ge is laterally restrained at bearing points to avoid				Comtecul
	lateral displacement and	rotation	This design is valid until 1	1/3/2024		



Version 21.80.417 Powered by iStruct™ Dataset: 22022101.1447



	Client:	Weaver Development	Date [.]	4/14/2022	Page 6 of 19
	Project:		Input by	: Curtis Quick	
isDesign	Address:		Job Nar	ne: Ferguson Beams	
			Project	<u>#:</u>	
BM1 Kerto-S	LVL 1.750" X	(24.000" 3-PI	v - PASSED	Level: Level	
	• • • • •	• • • •		• • • • •	• •
					V W L
1 SPF End Grain					
1		24'1 1/2"			5 1/4"
×		24'1 1/2"			f
		2111/2			·
Multi-Ply Analysis					
Fasten all plies using 3 r	ows of 10d Box nails (.	128x3") at 12" o.c Nai	il from both sides. Ma	ximum end distance not to	exceed
6".					
Capacity	0.0 %				
Load	0.0 PLF				
Yield Limit per Foot Yield Limit per Fastener	245.6 PLF 81.9 lb				
Yield Mode	IV				
Edge Distance	1 1/2"				
Min. End Distance	3"				
Load Combination	1.00				
	1.00				
Notes	chemicals	6. For flat roo	ofs provide proper drainage to prevent	Manufacturer Info	Comtech, Inc. 1001 S. Reilly Road, Suite #639
Calculated Structured Designs is responsible structural adequacy of this component bas	only of the Handling & Installation	n ponding t or drilled		Metsä Wood 301 Merritt 7 Building, 2nd Floor	Fayetteville, NC USA
design criteria and loadings shown. responsibility of the customer and/or the co	It is the 2. Refer to manufacturer regarding installation	's product information requirements, multi-ply		Norwalk, CT 06851	28314 910-864-TRUS
ensure the component suitability of the application, and to verify the dimensions and I	intended fastening details, beam s loads. approvals	trength values, and code		(000) 022-5850 www.metsawood.com/us	
1. Dry service conditions, unless noted other	3. Damaged Beams must not 4. Design assumes top edge	be used is laterally restrained			
 LVL not to be treated with fire retardant of 	5. Provide lateral support a lateral displacement and ro	tation This design of the test of	ign is valid until 11/3/2024		соттесн



	Client: We	aver Development	Date:	4/14/2022	Page 8 of 1
	Project:		Input by:	Curtis Quick	
isDesign	Address:		Job Name:	Ferguson Beams	
			Project #:		
BM2 Kerto-S	LVL 1.750" X 1	18.000" 2-Ply	- PASSED	evel: Level	
				1	
	· · · · · · · · ·	· · · · · ·			· · · · · · · · · · · · · · · · · · ·
1 Hanger (BPH3524)				2 LVL	
/		18'5 1/2"			3 1/2"
/		18'5 1/2"			\rightarrow
Multi-Ply Analysis					
Fasten all plies using 4	rows of 10d Box nails (.12	8x3") at 12" o.c except	for regions covered	by concentrated load fasteni	ng.
Maximum end distance	e not to exceed 6".				
Capacity	91.6 %				
_oad	345.0 PLF				
rield Limit per Foot	376.5 PLF				
/ield Limit per Fastener	94.1 lb.				
/ield Mode	IV				
Edge Distance	1 1/2"				
/in. End Distance	3"				
oad Combination	D+S				
Juration Factor	1.15				
Concentrated Load	-				
Fasten at concentrated	side load at 17-7-8 with a	ì			
minimum of (9) – 10d E	Box hails (.128x3") in the	Min /May fac	taway diatawaaa fay	Concentrated Side Loads	
pattern shown.			tener distances for	Concentrated Side Loads	
Capacity	78.3 %	Mir	n. 3"→	/in. 1 1/4"	
₋oad	663.0lb.			active day in the second s	
Fotal Yield Limit	847.0 lb.				
Cg	0.9998	1 1/2"			
/ield Limit per Fastener	94.1 lb.	Ŧ			•
/ield Mode	IV		Min. 1 1/4"		
oad Combination	D+S		<u>'</u>	Ŭ 	
Duration Factor	1.15	Min. 3"		\circ \land \circ	
	-		Min. 5"	° // °	
					14cV
			• •	•	• 1
			I ⊢-1	vin. 3"	

 Notes
 chemicals
 chemicals
 6. For flat roofs provide proper drainage to proven ponding
 Manufacturer Info
 Contech, Inc.

 Calculated Structural adequacy of this component based on the design site responsibility of the customer and/or dations, and to verify the dimensions and leads.
 1. UL beams must not be cut or drilled
 1. UL beams must not be cut or drilled
 Manufacturer Info
 Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 (www.metsawood.com/us
 USA 28314 (910-864-TRUS)

 1. Dry service conditions, unless noted otherwise
 3. Damaged Beams must not be used
 3. Damaged Beams must not be used (16-10) fastellation requirements, multip-ty fasteling details, beam strength values, and code approvals
 3. Damaged Beams must not be used
 USA 28314 (910-864-TRUS)

 2. UVL not to be treated with fire retardand or corrosive
 3. Damaged Beams must not be used (16-10) fastellation requirement and rotation
 This design is valid until 11/3/2024
 This design is valid until 11/3/2024

-Max. 12"----

-Max. 12"-

		С	lient:	Weaver Deve	lopment			Date:	4/14/202	2				Page 9 of 19
	_	P	roject:					Input by:	Curtis Qu	uick				
is	Design	A	ddress:					Job Nam	ne: Fergusor	n Beams				
								Project #	t:					
BM3 I	Kerto-S LV	/L 1.7	750" >	(14.00	0" 2-	Ply - P	ASSI	ED	Level: Level					
						•								
	2													
			_ 1											,
•		•	•	•	•								\overline{M}	
•		•	•	•	•	•	•/						IVIVI	
•	a retter	•		• •	Att in Star	•	•/						IAIA	1'2"
		الله والشاري			•									
1 Hange	r (IHFL35112 (Min))			2 H	anger (IHFL	.35112 (Min))							1 1	
			7'0"											1/0"
,			19										3	1/2
1			7'9"				1							
Member In	formation						Reacti	ons UN	PATTERN	IED lb (U	plift)			
Type:	Girder		Applicat	on: F	loor		Bra [Direction	Live	Dea	id	Snow	Wind	Const
Plies:	2		Design N	/lethod: A	SD		1 \	/ertical	1519	183	32	1283	0	0
Moisture Cond	dition: Dry		Building	Code: IE	3C/IRC 2015	5	2 \	/ertical	1519	183	32	1283	0	0
Deflection LL:	480		Load Sh	aring: N	0									
Deflection TL:	360		Deck:	N	ot Checked									
Importance:	Normal - II	۰ -												
remperature:	Temp <= 100	F					Bearir	as						
							Bearin	ng leng	th Dir	Can Rea	ct D/L lb	Total	Id Case	Id Comb
								3 500	" Vert	45% 18	32 / 2101	3934	Lu. Case	D+0.75(L+S)
							Hang	er	Volt	1070 100	272101	0001	-	D . 0.1 0(L . 0)
Analysis Re	sults						2 -	3.500	" Vert	45% 183	32 / 2101	3934	L	D+0.75(L+S)
Analysis	Actual	Location A	llowed	Capacity	Comb.	Case	Hang	er						
Moment	6902 ft-lb	3'10 1/2" 3	1049 ft-lb	0.222 (22%) D+0.75(L+	⊦S) L								
Unbraced	6902 ft-lb	3'10 1/2" 1	3942 ft-lb	0.495 (50%) D+0.75(L+	⊦S) L								
Shear	2749 lb	1'5" 1	0453 lb	0.263 (26%) D+L	L								
LL Defl inch	0.031 (L/2835)	3'10 9/16" 0	.184 (L/480) 0.169 (17%) 0.75(L+S)	L								
TL Defl inch	0.058 (L/1514)	3'10 9/16" 0	.246 (L/360) 0.238 (24%) D+0.75(L+	⊦S) L	1							
Design Not	es													
1 Provide su	oport to prevent later	ral movement	and rotation	n at the end be	earings. Late	eral support								
2 Fasten all r	blies using 4 rows of	10d Box nails	s (.128x3") a	ng coue. at 12" o.c. Max	kimum end d	listance not								
to exceed 6	5".													
3 Refer to las 4 Fill all banc	st page of calculation	ns for fastener	s required t	or specified lo	ads.									
5 Girders are	designed to be sup	ported on the	bottom edg	e only.										
6 Top loads r	nust be supported e	qually by all pl	lies.											
7 Iop must b 8 Bottom mu	e laterally braced at st be laterally braced	end bearings.	nas											
9 Lateral sler	nderness ratio based	d on single ply	width.											
ID	Load Type	L	ocation .	Trib Width	Side	Dead 0.9	Liv	/e 1 Sn	ow 1.15	Wind 1.6	Const. 1	1.25 Col	mments	
1	Uniform				Near Face	131 PLF	392	PLF	0 PLF	0 PLF	0	PLF F01		
2	Uniform				Тор	331 PLF	0	PLF	331 PLF	0 PLF	0	PLF E4		
	Self Weight					11 PLF								
Notes		chemicals	8		6. For fl	lat roofs provide p	proper drainag	e to prevent	Manufactur	er Info		Comtech,	Inc.	639
Calculated Structured	Designs is responsible only on this component based on	of the Handling	& Installatio	on tordrillod	pondi	ng	5		Metsä Wood	Building 2nd	Floor	Fayettevil	le, NC	
design criteria and responsibility of the o	I loadings shown. It is customer and/or the contracted	the 2. Refer to or to regarding	 must not be cu manufacturer installation 	or aniled 's product inform requirements mi	nation ulti-ply				Norwalk, CT	66851	1001	28314 910-864-7	RUS	
ensure the comport application, and to ver	ent suitability of the inter ify the dimensions and loads.	nded fastening approvals	details, beam s	trength values, and	code				(800) 622-58 www.metsav	50 /ood.com/us				
Lumber 1. Dry service condition	ions, unless noted otherwise	 Damaged Design as 	Beams must not ssumes top edge	be used is laterally restrained	l									
2. LVL not to be trea	ted with fire retardant or corro	osive 5. Provide l lateral dis	placement and ro	t bearing points to station	This	design is valio	l until 11/3/2	2024				C	omt	ech
· · · · · · · · · · · · · · · · · · ·									÷					

Client: Weaver Developr	nent Date:	4/14/2022	Page 10 of
Project: isDesign Address:	Input by Job Nan	Curtis Quick ne: Ferguson Beams	
BM3 Kerto-S I VI 1 750" X 14 000"		t: Level: Level	
	2-I IY - I AOOED		
	•••/		
	1 1/2		1'2"
	· · / <u> </u>		
1 Hanger (IHFL35112 (Min)) 2 Hange	er (IHFL35112 (Min))		
7'9"			3 1/2"
	Ι		
Multi-Ply Analysis			
Fasten all plies using 4 rows of 10d Box nails (.128x3") at 12'	" o.c Maximum end distance r	not to exceed 6".	
Load 261.5 PLF			
Yield Limit per Foot 327.4 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 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 regarding installation requirements. multi-ok 1. LVL beams must not be cut or drilled 2. Refer to manufacturer's product information regarding installation installation requirements. 1. Structure installation	 For flat roofs provide proper drainage to prevent ponding 	Manufacturer Info Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851	Comtech. Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA 28314 910-864-TRUS
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 Identified application and the subscription of th	This design is well-twell 44 0 0004	(800) 622-5850 www.metsawood.com/us	соттесн
Version 21.80.417 Deward by iStructIN Datacet: 22022101.1447	i nis design is valid until 11/3/2024		



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		Client: We	aver Development	Date	e: 4/14/2022	Page 13 of
1	isDesign	Project:		Inpu	it by: Curtis Quick Name: Ferguson Beams	
-	150 651511	, iderooo.		Proj	ect #:	
BM4	Kerto-S LVI	_ 1.750" X ′	14.000" 2-1	Ply - PASSED	Level: Level	
						% m +
\ .						· · · · · · · · · · · · · · · · · · ·
1 Han	•••••	• • •	• • •		• • • • •	
	.go. (00020)		195 1/2"			
			18'5 1/2	1		
I			100 1/2			,
Multi-Pl	ly Analysis					
Fasten al	Il plies using 3 rows o	of 10d Box nails (.12	8x3") at 12" o.c N	laximum end distan	ce not to exceed 6".	
Capacity Load	().0 %).0 PLF				
Yield Limit p	per Foot 2	245.6 PLF				
Yield Limit p Yield Mode	per Fastener t	V				
Edge Distar	nce	1/2"				
Min. End Di	istance 3	3"				
Load Comp Duration Fa	oination	1.00				
					Manufacturer Info	Comtech, Inc.
Notes Calculated Stru	uctured Designs is responsible only of th	chemicals e Handling & Installation	 For flat ponding 	roofs provide proper drainage to pr	Metsä Wood	1001 S. Reilly Road, Suite #639 Fayetteville, NC
structural adeq design criteria	quacy of this component based on the and loadings shown. It is the	 I. LVL beams must not be cut or of 2. Refer to manufactureric 	Irilled		301 Merritt 7 Building, 2nd Floor	USA 28314
responsibility o ensure the c	of the customer and/or the contractor t component suitability of the intende	 Neice to manufacturer's regarding installation required fastening details, beam strend 	th values, and code		Norwaik, CT 06851 (800) 622-5850	910-864-TRUS
application, and Lumber	a to verify the dimensions and loads.	approvals 3. Damaged Beams must not be u	ised		www.metsawood.com/us	
 Dry service LVL not to b 	e conditions, unless noted otherwise be treated with fire retardant or corrosiv	 Design assumes top edge is lat Provide lateral support at be lateral displacement and rotation 	erally restrained aring points to avoid n			соттесн
			This c	iesign is valid until 11/3/2024		

		Cli	ent:	Weaver De	velopment			Date:	4/14/20	22				Page 14 of 1
	-	Pro	oject:					Input by:	Curtis 0	Quick				
ÍS	vesign	Ad	dress:					Job Nam	ne: Fergus	on Beam	s			
								Project #	t: The well the w	-1				
BM5 I	Kerto-S LVL	_ 1.7	50")	(14.00	00" 2	-Ply - P	ASSE	D	Level: Leve	ei				
					0									
					2									
	1					• • • • • • • • • • • • •	3	•••••	• • • • • • • • • •	-				
•	•		•	•		•	-	-	• •					\uparrow
													IVIVI	
	a ritte				alt in the		-	- AC	- With				IAIA	1'2"
-			1	•	- 1 - 1 -	•	•						(V)	
1 SPF E	nd Grain							2 SPF E	End Grain				1 1	,
×				10'						ł				8 1/2"
				10										0 1/2
1				10'						1				
Member In	formation						Reactio	ons UN	IPATTER	NED I	o (Uplift)			
Туре:	Girder		Applicat	ion:	Floor		Brg D	irection	Liv	е	Dead	Snow	Wind	Const
Plies:	2		Design I	Method:	ASD		1 Ve	ertical		0	4097	4043	0	0
Moisture Cond	dition: Dry		Building	Code:	IBC/IRC 201	5	2 V	ertical		0	3891	3836	0	0
Deflection LL:	360		Load Sh	aring:	No Not Checker	4								
Importance:	Normal - II		Deck.		NUL CHECKE	1								
Temperature:	Temp <= 100°F													
	·						Bearin	gs						
							Bearin	g Leng	th Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
							1 - SP	F 3.500	" Vert	79%	4097 / 4043	8140	L	D+S
							End							
Analysis Re	suits	4 ¹		0	0 a mala	0	2 - SP	= 3.500	" Vert	75%	3891 / 3836	7727	L	D+S
Analysis	Actual L	ocation All		Capacity		Case	End						-	
Unbraced	30739 It-ID 30739 ft-Ib	5'6 1/2" 31	049 IL-ID 049 ft-Ib	0.990 (95	1%) D+S	L 1	Grain							
Shear	7447 lb	8'6 1/2" 12	021 lb	0.619 (62	%) D+S	1								
LL Defl inch	0.166 (L/689) 5	5'5 1/16" 0.3	318 (L/360) 0.522 (52	:%) S	L								
TL Defl inch	0.334 (L/343) 5	5'5 1/16" 0.4	177 (L/240) 0.700 (70	%) D+S	L								
Decign Not	····			,	1		ſ							
1 Provide su	port to prevent lateral	movement a	nd rotatio	n at the end	bearings. La	teral support	4							
may also b	e required at the interio	or bearings b	y the build	ling code.										
2 Fasten all p to exceed 6	olies using 3 rows of 10 5".	od Box nails ((.128x3") a	at 12" o.c. N	aximum end	distance not								
3 Refer to las	t page of calculations	for fasteners	required f	or specified	loads.									
4 Girders are	designed to be suppo	orted on the b	ottom edg	e only.										
6 Top must b	e continuously laterally	y braced.	55.											
7 Bottom mu	st be laterally braced a	at end bearing	gs.											
8 Lateral sler	derness ratio based o	n single ply v	vidth.		0.1		<u> </u>	- 1 - 2	4 4=	107 .		05 0		
	Load Type	LO	cation	nid width	Side		LIV	en Sn	OW 1.15	vvind '		1.25 COI	nments	
	Part. Uniform	0-0-0 to	0 4-3-8		іор т	424 PLF	U F	′LF	424 PLF	0 P				
2	Point		5-6-8		юр	5707 lb	(מו נ	5707 lb	(ai n	UID E30	DK	
	Bearing Length	<u> </u>	0-3-14		-		-		05 51 -	-		D. E. = -		
3	Part. Uniform	6-3-8 to	10-0-0		Тор	95 PLF	0 F	ĽΕ	95 PLF	0 P	LF 0	PLF E4		
	Self Weight					11 PLF								
Notes		chemicals			6. For	flat roofs provide p	roper drainage	to prevent	Manufactu	irer Info		Comtech,	Inc.	1639
Calculated Structured structural adequacy	Designs is responsible only of th of this component based on th	Handling 8	Installatio	on t or drilled	pon	ding	Ū		Metsä Woo	d 7 Building	1 2nd Floor	Fayettevill	e, NC	
design criteria and responsibility of the o	loadings shown. It is th customer and/or the contractor t	e 2. Refer to regarding	manufacture installation	's product in requirements.	formation multi-ply				Norwalk, C	T 06851	, 2πα FIUUI	28314 910-864-T	RUS	
ensure the comport application, and to ver	ent suitability of the intende ify the dimensions and loads.	d fastening d approvals	letails, beam s	trength values, a	and code				(800) 622- www.metsa	o850 awood.cor	n/us			
1. Dry service condit	ons, unless noted otherwise	 Jamaged E Design assi Provide lat 	umes top edge eral support	i pe used is laterally restrai t bearing pointe	ned to avoid									
2. LVL not to be treat	ted with fire retardant or corrosiv	/e lateral displ	lacement and r	otation	Th	is design is valid	until 11/3/20)24				C	Smr	CCH

	Client: Weaver Develop	nent Date:	4/14/2022	Page 15 of 1
	Project:	Input by:	Curtis Quick	C C
isDesign	Address:	Job Nam	ne: Ferguson Beams	
		Project #	<i>t</i> :	
BM5 Kerto-SI	VI 1 750" X 14 000"	2-Ply - PASSED	Level: Level	
	.VE 1.750 X 14.000	2-1 ly - 1 A00ED		
• • •	• • •	• • •	• •	$\overline{\mathbf{M}}$ $\overline{\mathbf{T}}$
			/3"	IVIVI
	• • • •	• • •	•	1'2"
• • •	• • •	• • •	· · Y	VVV I.
1 SPE End Grain		2 SDE E		
		2 3FF 5		
	10'			3 1/2"
∤	10'		ł	
	10		I	
Multi-Ply Analysis				
Easton all plics using 2 ro	we of 10d Boy pails (129y2") at 12	" o.c. Maximum and distance r	not to avgood 6"	
Capacity	WS OF TOU BOX Halls (.126X5) at 12	o.c Maximum end distance i	Int to exceed 6.	
Load	0.0 %			
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"			
Duration Factor	1.00			
Notes	chemicals	6. For flat roofs provide proper drainage to prevent ponding	Manufacturer Info	Comtech, Inc. 1001 S. Reilly Road, Suite #639
Calculated Structured Designs is responsible or structural adequacy of this component based	ly of the Handling & Installation	Pontang	Metsä Wood 301 Merritt 7 Building, 2nd Floor	Fayetteville, NC USA
design criteria and loadings shown. It responsibility of the customer and/or the cont	is the 2. Refer to manufacturer's product information ractor to regarding installation requirements. multi-nl	1	Norwalk, CT 06851	28314 910-864-TRUS
ensure the component suitability of the application, and to verify the dimensions and loa	intended fastening details, beam strength values, and code ads. approvals	2	(800) 622-5850 www.metsawood.com/us	
1 Dry service conditions, unloss noted other	3. Damaged Beams must not be used 4. Design assumes top edge is laterally restrained			
 by service conditions, unless noted otherwill LVL not to be treated with fire retardant or 	corrosive 5. Provide lateral support at bearing points to avoid lateral displacement and rotation	This design is valid until 11/3/2024		соттесн
L		deelg to valid antar 11/0/2024		



isDesign	Client: Weaver Developm Project: Address:	ent Date: Input by: Job Nam	4/14/2022 Curtis Quick e: Ferguson Beams	Page 17 of 19
BM6 Kerto-S I	VI 1 750" X 9 250'	Project #	: Level: Level	
	VE 1.700 X 5.200	2-i iy - i Addeb		
• •	• •	• •	• •	
				9 1/4
•••	• •	• •		
1 SPF	7'		2 SPF	3 1/2"
×	7'			1 10
Multi-Ply Analysis	s of 10d Box nails (128v3") at 12'	o.c. Maximum and distance n	ot to exceed 6"	
Capacity	0.0 %	o.c Maximum end distance n		
Load Yield Limit per Foot	163.7 PLF			
Yield Limit per Fastener Yield Mode	81.9 lb. IV			
Edge Distance	1 1/2"			
Min. End Distance	3"			
Duration Factor	1.00			
Notes	chemicals	 For flat roofs provide proper drainage to prevent ponding 	Manufacturer Info	Comtech, Inc. 1001 S. Reilly Road, Suite #639 Favetherulie NC
carculated Structured Designs is responsible only structural adequacy of this component based o design criteria and loadings shown. It is responsibility of the customer and/or the contrac ensure the component suitability of the inite application, and to verify the dimensions and loads. Lumber	or me retruining or IIIStätiättion in the 1. LVL beams must not be cut or drilled the 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	. •	Netsa wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us	USA 28314 910-864-TRUS
 Dry service conditions, unless noted otherwise LVL not to be treated with fire retardant or conditional service of the service of	 Design assumes top edge is laterally restrained Provide lateral support at bearing points to avoid lateral displacement and rotation 	This design is valid until 11/3/2024		соттесн
L		5	1	



	Client: Weaver Developr	nent Date:	4/14/2022	Page 19 of 19
isDesign	Project:	Input by:	Curtis Quick	
130631311	Auress.	Project #	t:	
BM7 Kerto-S	LVL 1.750" X 9.250	2-Ply - PASSED	Level: Level	
		_ ,		
• •	• •	• •	· · ·	$\mathbb{N}/\mathbb{N}/\mathbb{N}$
				9 1/4
• •	• •	• •		
				/
/	7'			3 1/2"
<u></u>				3 1/2
	ſ		1	
Multi-Ply Analysis				
Fasten all plies using 2 ro	ws of 10d Box nails (.128x3") at 12	" o.c Maximum end distance r	ot to exceed 6".	
Capacity	0.0 %			
Load Yield Limit per Foot	163.7 PLF			
Yield Limit per Fastener	81.9 lb.			
Yield Mode Edge Distance	IV 1 1/2"			
Min. End Distance	3"			
Load Combination	4.00			
Duration Factor	1.00			
Notoo	chemicals	6. For flat roofs provide proper draipage to prevent	Manufacturer Info	Comtech, Inc.
Calculated Structured Designs is responsible on structural adequacy of this account based	by of the Handling & Installation	ponding	Metsä Wood	Fayetteville, NC
design criteria and loadings shown. It responsibility of the customer and/or the contr	is the 2. Refer to manufacturer's product information actor to regarding installation requirements multi-the		301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851	28314 910-864-TRUS
ensure the component suitability of the in application, and to verify the dimensions and load	ntended fastening details, beam strength values, and code fs. approvals		(800) 622-5850 www.metsawood.com/us	
Lumber 1. Dry service conditions, unless noted otherwis	3. Damaged Beams must not be used 4. Design assumes top edge is laterally restrained 6			
2. LVL not to be treated with fire retardant or c	lateral displacement and rotation	This design is valid until 11/3/2024		соттесн