	-		Client:	Weaver Dev	elopment		D	ate:	5/13/2	2020				Page 1	of 10
	<b>B 1</b>		Project:				In	nput by:	Curtis	Quick					
	Design		Address:				Jo	ob Name	: The L	auren H	Beams				
							P	roject #:		vol					
GDH	Kerto-S L	.VL 1	1.750"	X 14.00	<b>)0'' 2</b> .	-Ply - P	ASSE	D	Level. Le	vei					
•	•	•	•		1	•			•		•			$\Pi \neq$	
	Contration .		·	Ser V. Sta	att in yo	-	•		No.	•		• •		1'2"	
-	CARCELL AND CONTRACT	· · · ·	•		Contractor of the	•	Beneral Street		•		- Andrews			₩	
1 SPF En	d Grain										2 SPI	F End Gra	in L		
					18'10"								$\neg$	3 1/2"	
1					18'10"	1							$\neg$		
/lember In	formation						Reaction	ns UNF	PATTE	RNED	lb (Uplif	ft)			
Туре:	Girder		Applicat	tion:	Floor		Brg	Live		Dead	Snov	N	Wind	Const	
Plies:	2		Design	Method:	ASD		1	0		2457		0	0	0	
Moisture Con	dition: Dry		Building	Code:	IBC 2012		2	0		2457		0	0	0	
Deflection LL	360		Load Sr	haring:	NO Not Checked										
Importance:	Normal		Deck.	I											
Temperature	Temp <= 1	JU₀E													
remperature.	lemp <= it	501					Bearing	s							
							Bearing	l enath		an Re	act D/L lb	Total	Id Case	Id Comb	
							1 - SPF	3.500"		23%	2457 / 0	2457	Uniform	D	
							End	0.000	-		2.0170	2.01	01110111	2	
nalysis Re	sults						Grain							_	
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case	2 - SPF	3.500"	4	23%	2457 / 0	2457	Uniform	D	
Moment	11011 ft-lb	9'5"	24299 ft-lb	0.453 (459	%) D	Uniform	Grain								
Unbraced	11011 ft-lb	9'5"	11013 ft-lb	1.000	D	Uniform									_
Ohaan	2002 IF	414 0/4	0400 lb	(100%)		l lucificana									
Snear	2093 ID	1.4 3/4	9408 lb	0.222 (22)	%) D	Uniform									
LL Defl inch	0.000 (L/999)	015 4/401	999.000 (L/C	) 0.000 (0%	)	1 In 16 mm									
IL Defl inch	0.444 (L/497)	9'5 1/16"	0.919 (L/240	0) 0.480 (489	%) D	Uniform	-								
esign No	tes						1								
1 Fasten all	olies using 3 rows	of SDW2233	8 at 24" o.c. N	laximum end	distance not	to exceed									
2 Refer to la	st page of calculati	ions for faster	ners required	for specified I	oads.										
3 Simpson fa	asteners applied fro	om a single s	ide of the mer	mber use tip \	alues where	published.									
4 Girders are	e designed to be su	upported on the	ne bottom edg	ge only.											
6 Top must b	e laterally braced	at a maximun	n of 9'7 1/2" o	.C.											
7 Bottom bra	ced at bearings.														
8 Lateral sle	nderness ratio bas	ed on single	oly width.												
ID	Load Type		Location	Trib Width	Side	Dead 0.9	Live	1 Snov	w 1.15	Wind	11.6 Cor	nst. 1.25	Commen	ts	
1	Uniform				Тор	250 PLF	0 PL	F	0 PLF	0	PLF	0 PLF			
	Self Weight					11 PLF									
Notes		chem	icals		6. For fl	lat roofs provide p	roper drainage to	prevent	Manufac	turer Info		C	omtech, Inc.	1 Suite #639	
Calculated Structured	Designs is responsible on	ly of the Handli	ng & Installati	on	pondi	ng			Metsä Wo	bod		Ei II	ayetteville, NC	, cano #000	
esign criteria an esponsibility of the	d loadings shown. It customer and/or the contr	is the 2. Refer	eams must not be control to manufacture	ut or drilled er's product info	rmation				301 Merri Norwalk,	nt / Buildi CT 06851	ng, 2nd Floc	PT 20	3314 10-864-TRUS		
insure the compoi application, and to ve	nent suitability of the i rify the dimensions and load	ntended faster	ning details, beam vals	strength values, ar	ndiu-piy nd code				(800) 622	2-5850 sawood o	om/us				
umber		3. Dama 4. Desir	iged Beams must no in assumes ton edge	ot be used a is laterally restrain	ed				ICC-ES: I	ESR-3633	}				
<ol> <li>Dry service condit</li> <li>LVL not to be treat</li> </ol>	tions, unless noted otherwis ated with fire retardant or c	e 5. Provi orrosive latera	de lateral support a l displacement and r	at bearing points t rotation	o avoid	design is valid	until 2/26/202	3					con	птесн	
	<b>D</b>				THIS	acargi ia vallu	anui 2/20/202								

CSD DESIGN

		/		Client:	Weaver Developm	ient	Da	te:	5/13/2020	Page 2 of 10
	ſ.	Design		Project:			Inp	out by:	Curtis Quick	
	_ <b>_</b> _	spesigr	1	Address:			Jol	o Name: biect # <sup>.</sup>	The Lauren H Beams	
GD	<u>,                                     </u>	Korto	<u>e i vi</u>	1 750"	V 14 000"	2 DIV	DASSEL	L	evel: Level	
00		Nerto-		. 1.750	× 14.000	<b>Z</b> -F iy	FASSEL	,		
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Mult	i-Ply	Analysis								
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Yield Li	imit per	Foot	38	32.5 PLF						
Yield Li Yield M	imit per lode	Fastener	25 Lo	55.0 lb. bokup						
Edge D	istance	•	1	1/2"						
Min. Er Load C	nd Dista combina	ince	6'							
Duratio	n Facto	pr	1.	00						
Notes				chemicals		6. For flat roofs prov	ide proper drainage to p	prevent	Manufacturer Info	Comtech, Inc. 1001 S. Reilly Road, Suite #639
Calculate structura	ed Structur al adequac	ed Designs is respor y of this componen	t based on the	Handling & Install 1. LVL beams must not b	ation e cut or drilled	ponding			Metsä Wood 301 Merritt 7 Building, 2nd Floor	Fayetteville, NC USA 28314
responsi ensure	bility of the comp	e customer and/or the customer suitability of	he contractor to f the intended	<ol> <li>Reter to manufac regarding installation fastening details, beau</li> </ol>	turer's product information in requirements, multi-ply im strength values, and code				Norwalk, CT 06851 (800) 622-5850	910-864-TRUS
application	on, and to v	verify the dimensions	and loads.	approvals 3. Damaged Beams mus	t not be used				www.metsawood.com/us ICC-ES: ESR-3633	
1. Dry s 2. LVL	service con not to be tr	ditions, unless noted reated with fire retard	otherwise dant or corrosive	<ol> <li>Design assumes top e</li> <li>Provide lateral support lateral displacement a</li> </ol>	age is laterally restrained ort at bearing points to avoid nd rotation	This desire :-	valid until 2/26/2002			соттесн
L						i no uesigii is	rana anui 2/20/2023			



Version 20.20.044 Powered by iStruct™

Protection       Protection       Marriest		/	Client:	Weaver Development	Date:	5/13/2020	Page 4 of 10
Description         Address         Description         Description           BM1         Kerto-S LVL         1.750" X 9.250"         2-Pily - PASSED         Intellinent Events           Image: State and Piles using 2 rows of SDW22338 at 24" o.c. Maximum end distance not to exceed 12"         Image: State and Piles using 2 rows of SDW22338 at 24" o.c. Maximum end distance not to exceed 12"         Image: State and Piles using 2 rows of SDW22338 at 24" o.c. Maximum end distance not to exceed 12"           Rester and Piles using 2 rows of SDW22338 at 24" o.c. Maximum end distance not to exceed 12"         Image: State and Piles using 2 rows of SDW22338 at 24" o.c. Maximum end distance not to exceed 12"           Rester and Piles using 2 rows of SDW22338 at 24" o.c. Maximum end distance not to exceed 12"         Image: State and Piles using 2 rows of SDW22338 at 24" o.c. Maximum end distance not to exceed 12"           Rester and Piles using 2 rows of SDW22338 at 24" o.c. Maximum end distance not to exceed 12"         Image: State and Piles using 2 rows of SDW2238 at 24" o.c. Maximum end distance not to exceed 12"           Rester and Piles using 2 rows of SDW2238 at 24" o.c. Maximum end distance not to exceed 12"         Image: State and Piles using 2 rows of SDW2238 at 24" o.c. Maximum end distance not to exceed 12"           Rest distance         0.0 Pile         0.0 Pile         0.0 Pile         0.0 Pile           Maximum end distance         0.0 Pile         0.0 Pile         0.0 Pile         0.0 Pile           Maximum end distance         0.0 Pile <t< th=""><th>  <b>`</b></th><th>1 B a a 1 aug</th><th>Project:</th><th></th><th>Input b</th><th>y: Curtis Quick</th><th></th></t<>	<b>`</b>	1 B a a 1 aug	Project:		Input b	y: Curtis Quick	
Image: Second		isDesign	Address:		Job Na	me: The Lauren H Beams	
BM1     Kerto-S LVL     1.750" X S.250"     2-Piy - PASSED     Index Local       Image: Index Control     Image: Index Control     Image: Index Control     Image: Index Control       Image: Index Control     Image: Index Control     Image: Index Control     Image: Index Control       Image: Index Control     Image: Index Control     Image: Index Control     Image: Index Control       Image: Index Control     Image: Index Control     Image: Index Control     Image: Index Control       Image: Index Control     Image: Index Control     Image: Index Control     Image: Index Control       Image: Index Control     Image: Index Control     Image: Index Control     Image: Index Control       Image: Index Control     Image: Index Control     Image: Index Control     Image: Index Control       Image: Index Control     Image: Index Control     Image: Index Control     Image: Index Control       Image: Index Control     Image: Index Control     Image: Index Control     Image: Index Control       Image: Index Control     Image: Index Control     Image: Index Control     Image: Index Control       Image: Index Control     Image: Index Control     Image: Index Control     Image: Index Control       Image: Index Control     Image: Index Control     Image: Index Control     Image: Index Control       Image: Index Control     Image: Index Control     Image: Ind					Project	#:	
Multi-Ply Analysis     Tot     Jost     Jost       Faster all plies using 2 rows of SDW22338 at 24" o.c. Maximum end distance not to exceed 12"     Consolid     Consolid       Walk Link pr Faster     250 PL     Consolid     Consolid       Vial Link pr Faster     100     Consolid     Consolid       Duator Faster     100     Consolid     Consolid	BM1	Kerto-S LVI	L 1.750	" X 9.250"	2-Ply - PASSED	Level: Level	
Protect					-		
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Number of the second							
Nulti-Ply Analysis         Fasten all plies using 2 rows of SDW22338 at 24° o.c. Maximum end distance not to exceed 12°         Coperity       0.0° Hr.         Vidi Ling Pool       2.00° Hr.         Kadi Ling Foot       2.00° Hr.         Kadi Combinition       0°         Buation Factor       1.00°							
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1     76"     1       Multi-Ply Analysis       Fasten all plies using 2 rows of 5DW22338 at 24" o.c. Maximum end distance not to exceed 12"       Capacity     0.0 %       Multi -Ply Analysis       Year of root     2.02 H, F       Load Combination     8"       Duration Factor     1.00				70			3 1/2
Multi-Ply Analysis           Fasten all plies using 2 rows of SDW22338 at 24" o.c. Maximum end distance not to exceed 12"           Capacity         0.0 %           Uod         0.0 %           Weld Motor         2.50 0.0           Uod         1.00	1 -			7'6"		1	
Multi-Ply Analysis         Fasten all plies using 2 rows of SDW22338 at 24" o.c., Maximum end distance not to exceed 12"         Copacity       0.0 %         Load       0.0 %         Veld Linte For       255.0 PLF         Yield Mode       Lookup         Edge Dilance       6"         Load combination       11/2"         Wield Mode       0.00kp         Edge Dilance       6"         Lad Combination       00         Duration Factor       1.00							
Faster all plus using 2 rows of SDW22338 at 24" o.c., Maximum end distance not to exceed 12"         Gapacity       0.0 %         Kad       0.0 PUF         Yield tim top Floot       255 0 PUF         Yield tim top Faster       100	Multi-Plv	y Analysis					
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Notes         chemicals         6. For flat roofs provide proper drainage to prover         Manufacturer Info         Comtech, Inc.           Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design offens and loadings shown. It is the or manufacturer's product information         6. For flat roofs provide proper drainage to prevent ponding         Manufacturer Info         Comtech, Inc. 1001 S. Relity Road, Suite #639           Calculated Structured Designs is responsible only of this design offens and loadings shown. It is the calculated Structured Designs is responsible only of this structural adequacy of this component based on the 1. UL beams must not be cut or drilled 2. Refer to manufacturer's product information         Manufacturer Info         Comtech, Inc. 1001 S. Relity Road, Suite #639           0. VEX         To manufacturer's product information         1. UL beams must not be cut or drilled 2. Refer to manufacturer's product information         VEX         28314 201. Adv. TPU IS							
Notes       chemicals       6. For flat roofs provide proper drainage to prover       Manufacturer Info       Comtech, Inc.         Calculated Structured Designs is responsible only of this structural adequacy of this component based on the structural adequacy of this component based on the design or firefina and loadings shown. It is the is       6. For flat roofs provide proper drainage to prover drainage to prevent ponding       Manufacturer Info       Comtech, Inc.         1. UL beams must not be cut or drilled       1. UL beams must not be cut or drilled       301 Merritt 7 Building, 2nd Floor       USA         2. Refer to manufacturer's product information       1. VL beams must not be cut or drilled       28314       28314							
Notes       chemicals       6. For flat roofs provide proper drainage to provert ponding       Manufacturer Info       Comtech, Inc.         Calculated Structural Designs is responsible only of this component based on the structural adequacy of this component based on the design criteria and loadings shown. It is the to annufacture's product information       Manufacturer Info       Comtech, Inc.         001 S. Relily Road, Suite #639       1001 S. Relily Road, Suite #639       1001 S. Relily Road, Suite #639       1001 S. Relily Road, Suite #639         2. Vert to manufacture's product information       1. UL beams must not be cut or drilled       301 Merritt 7 Building, 2nd Floor       Valia 42314         2. Refer to manufacture's product information       2. Refer to manufacture's product information       Norwalk. CT 08551       201.							
Notes     chemicals     6. For flat roofs provide proper drainage to prover     Manufacturer Info     Contech, Inc.       Calculated Structured Designs is responsible only of this sufficient and loadings shown. It is their     1. UX beams must not be cut or drilled     Metsä Wood     5. Refit Wood     5. Refit Wood     5. Refit Wood     28314       2. Refer to manufacturer's product information     2. Refer to manufacture's product information     Norwalk, CT 06851     9.1. August 2014							
Notes     chemicals     6. For flat roofs provide proper drainage to prover     Manufacturer Info     Contech, Inc.       Calculated Structured Designs is responsible only of the structural adequacy of this component based on the structural and loadings shown. It is the to manufacturer's product information     1. UL beams must not be cut or drilled     Metsä Wood     5. Refr to Manufacturer's product information							
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Notes     chemicals     6. For flat roofs provide proper drainage to prevent ponding     Manufacturer Info     Comtech, Inc.       Calculated Structured Designs is responsible only of the design criteria and loadings shown. It is the design criteria and loadings shown. It is the text or drilled     6. For flat roofs provide proper drainage to prevent ponding     Metsä Wood     Fayetterville, NC       2. Refer to manufacturer's product information     1. UVL beams must not be cut or drilled     301 Merritt 7 Building, 2nd Floor     USA       2. Refer to manufacturer's product information     2. Refer to manufacturer's product information     Notwash, C T0 (851)     910.894, TEU (S							
Notes         chemicals         6. For flat roofs provide proper drainage to provent ponding         Manufacturer Info         Comtech, Inc.           Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the design articler is the manufacturer's product information         1. VL beams must not be cut or drilled         Manufacturer Info         Comtech, Inc.           2. Refer to         nanufacturer's product information         0.01 S. Relity Road, Suite #639         Fayetterille, NC           2. Refer to         manufacturer's product information         0.01 Merritt 7 Building, 2nd Floor         USA           2. Refer to         manufacturer's product information         Norwalk, CT 0.0851         910-864.TEUS							
Calculated Structured Designs is responsible only of the structured adequacy of this component based on the design oriteria and loadings shown. It is the 2. Refer to manufacturer's product information ponding 2. Refer to manufactur	Notes		chemicals	6.	For flat roofs provide proper drainage to prever	Manufacturer Info	Comtech, Inc. 1001 S. Reilly Road, Suite #639
design criteria and loadings shown. It is the 1. but beams must not be during information 301 Merritir / Building, 2nd Floor 28314 28314 28314 28314	Calculated Struct	tured Designs is responsible only of the lacy of this component based on the	Handling & Installa	tion	ponding	Metsä Wood 301 Morritt 7 Building, 2nd Flags	Fayetteville, NC USA
responsibility of the customer and/or the contractor to regarding installation requirements multi-niv	design criteria responsibility of	and loadings shown. It is the the customer and/or the contractor to	LVL peams must not be     Refer to manufactu     regarding installation	urer's product information		Norwalk, CT 06851	28314 910-864-TRUS
ensure the component suitability of the intended application, and to verify the dimensions and loads. fastening details, beam strength values, and code approvals	ensure the cor application, and t	mponent suitability of the intended to verify the dimensions and loads.	fastening details, bear approvals	n strength values, and code		(800) 622-5850 www.metsawood.com/us	
Lumber     3. Damaged Beams must not be used       1. Dry service conditions, unless noted otherwise     3. Demaged Beams must not be used       4. Design assumes top edge is laterally restrained       7. Dry service conditions, unless noted otherwise	Lumber 1. Dry service of	conditions, unless noted otherwise	<ol> <li>Damaged Beams must</li> <li>Design assumes top ed</li> </ol>	not be used Ige is laterally restrained		ICC-ES: ESR-3633	
2. LVL not to be treated with fire retardant or corrosive . Provide lateral support at bearing points to avoid lateral displacement and rotation This design is valid until 2/26/2023	2. LVL not to be	e treated with fire retardant or corrosive	<ol> <li>Provide lateral suppor lateral displacement an</li> </ol>	ι aι bearing points to avoid d rotation	This design is valid until 2/26/2023		соттесн

	Client: Weaver Development	Date:	5/13/2020	Page 5 of 10
	Project:	Input by:	Curtis Quick	-
isDesign	Address:	Job Nam	e: The Lauren H Beams	
		Project #	:	
BM2 Karta-SIVI	1 750" X 9 250" 2-Plv -	PASSED	Level: Level	
	1.750 X 5.250 Z-1 ly -	TAGGLD		
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and a state of the state	and although the second	and the second se		
A REPORT OF THE PARTY OF THE PA				
1 SPE End Grain	2 SPE End Gr			
	5'4"			3 1/2"
1	5'4"	Ĩ		
Member Information		Reactions LIN	PATTERNED IN (Unlife)	
	Application: Elect	Bra		Wind Const
Plies 2	Design Method: ASD			
Moisture Condition: Dry	Building Code: IBC 2012		0 1000 1007	0 0
Deflection LL: 360	Load Sharing: No	2	0 1000 1007	0 0
Deflection TL: 240	Deck: Not Checked			
Importance: Normal				
Temperature: Temp <= 100°F				
		Bearings		
		Bearing Lengt	th Cap. React D/L lb	Total Ld. Case Ld. Comb.
		1 - SPF 3.500	31% 1686 / 1667	3353 L D+S
		End		
Analysis Results		Grain		
Analysis Actual Location	Allowed Capacity Comb. Case	2 - SPF 3.500 End	" 31% 1686 / 1667	3353 L D+S
Moment 3735 ft-lb 2'8"	14423 ft-lb 0.259 (26%) D+S L	Grain		
Unbraced 3735 ft-lb 2'8"	11811 ft-lb 0.316 (32%) D+S L			
Shear 2095 lb 1'	7943 lb 0.264 (26%) D+S L			
LL Defl inch 0.024 (L/2457) 2'8"	0.162 (L/360) 0.150 (15%) S L			
TL Defl inch 0.048 (L/1221) 2'8"	0.244 (L/240) 0.200 (20%) D+S L			
Desian Notes				
1 Fasten all plies using 2 rows of SDW2233	8 at 24" o.c. Maximum end distance not to exceed	-1		
12".				
<ol> <li>Refer to last page of calculations for faste</li> <li>Simpson fasteners applied from a single s</li> </ol>	ners required for specified loads.			
4 Girders are designed to be supported on t	the bottom edge only.			
5 Top loads must be supported equally by a	Il plies.			
6 Top braced at bearings.				
<ul> <li>/ Bottom braced at bearings.</li> <li>8 Lateral slenderness ratio based on single</li> </ul>	ply width			
ID I oad Type	Location Trib Width Side Dead 0.0	live 1 Sn	ow 1.15 Wind 1.6 Const	1 25 Comments
1 Uniform				
			VEGTER VILF	
Self Weight	7 PLF	•		
Natao	nicale 6 Fax Bat safe	proper drainage to prove-t	Manufacturer Info	Comtech, Inc.
NOTES cher Calculated Structured Designs is responsible only of the Hand	ing & Installation 6. For flat roots provide ponding	proper urainage to prevent	Metsä Wood	1001 S. Reilly Road, Suite #639 Fayetteville, NC
structural adequacy of this component based on the 1. LVL design criteria and loadings shown. It is the 2. Refe	beams must not be cut or drilled er to manufacturer's product information		301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851	USA 28314 010 864 TDUC
responsibility of the customer and/or the contractor to ensure the component suitability of the intended analication and to use it is a suitability of the intended	rding installation requirements, multi-ply ning details, beam strength values, and code		(800) 622-5850	910-864-1RUS
Lumber apprication, and to verify the dimensions and loads. apprice of the dimensions and loads.	ovals naged Beams must not be used		www.metsawood.com/us ICC-ES: ESR-3633	
1. Dry service conditions, unless noted otherwise 2. LVL not to be treated with fire retardant or corrosive	gn assumes top edge is laterally restrained ide lateral support at bearing points to avoid al displacement and rotation			соттесн
- later	This design is vali	d until 2/26/2023		
and an 20 20 044 Decision of her Statistics				

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	Client: Weaver Developm	ent Date:	5/13/2020	Page 6 of 10
lisDesign	Project:	Input by	/: Curtis Quick	
	Address.	Project	#:	
BM2 Kerto-S LVL	1.750" X 9.250"	2-Ply - PASSED	Level: Level	
				,
•	٠	•		$\Lambda$ T
		1		
•	•	•¥		
1 SPE End Grain				
	5'//"			3 1/2"
	54			0 1/2
I	54	I		
			1.400	
Fasten all plies using 2 rows of S	5DW22338 at 24" o.c Maxim	ium end distance not to exce	ed 12"	
Load 0.0 F	PLF			
Yield Limit per Foot 255.0 Yield Limit per Fastener 255.0	0 PLF			
Yield Mode Look	kup			
Edge Distance 1 1/2 Min End Distance 6"				
Load Combination				
Duration Factor 1.00				
			Manufacturer Info	Comtech, Inc.
Notes Calculated Structured Designs is responsible only of the H	chemicals andling & Installation	<ol><li>For flat roofs provide proper drainage to preven ponding</li></ol>	Metsä Wood	1001 S. Reilly Road, Suite #639 Fayetteville, NC
structural adequacy of this component based on the 1 design criteria and loadings shown. It is the 2 responsibility of the customer and/or the contractor to	. LVL beams must not be cut or drilled . Refer to manufacturer's product information regarding installation requirements multiple		301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851	05A 28314 910-864-TRUS
ensure the component suitability of the intended application, and to verify the dimensions and loads.	fastening details, beam strength values, and code approvals		(800) 622-5850 www.metsawood.com/us	
Lumber         3           1. Dry service conditions, unless noted otherwise         5           2. U/L pet to be track of with first and         5	<ul> <li>Damaged Beams must not be used</li> <li>Design assumes top edge is laterally restrained</li> <li>Provide lateral support at bearing points to avoid</li> </ul>		ICC-ES: ESR-3633	Comtecul
<ol> <li>LVL not to be treated with fire retardant or corrosive</li> </ol>	lateral displacement and rotation	This design is valid until 2/26/2023		Connech
Varcian 20.20.044 Powarad by iStructTM				



	Client: Weaver Deve	lopment D	ate: 5/13/2020	Page 8 of 10
	Project:	In	put by: Curtis Quick	
isDesign	Address:	JC	bb Name: The Lauren H Beams	
		P	roject #:	
BM2 CDE#	2 2 000" ¥ 10 000		Level: Level	
DIVIJ J-F-F#	2 2.000 × 10.000	Z-FIY - FASSEL	,	
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			$\frac{1}{\Sigma}$	∧   ∧   9 1/4
•	•	• • —	+¥	
			∃──★	
1 SPF End Grain		2 SPF End Grain	1	
	5'8 1/2"		7	3"
/	EI0 4/01		- <del>/</del>	
	561/2		I	
Multi-Ply Analysis				
Easton all plics using 2	rowc of SDW/22200 at 24" o.c. Ma	wimum and distance not to a	wcood 12"	
Capacity	10ws 01 3DW22300 at 24 0.c 1012		exceed 12	
Load	0.0 % 0.0 PLF			
Yield Limit per Foot	255.0 PLF			
Yield Limit per Fastener	255.0 lb.			
Yield Mode				
Edge Distance	1 1/2"			
Min. End Distance	6"			
Load Combination	C C			
Duration Factor	1.00			
			Manufactor	Comtook Inc
			Manufacturer Info	1001 S. Reilly Road, Suite #639
				Fayetteville, NC USA
				28314 910-864-TRUS
				сотесн
		This design is valid until 2/26/202	3	

		Client: Weaver D	evelopment	Date:	5/13/2020	Page 9 of 10
2		Project:	1	Input by:	Curtis Quick	5
i	isDesign	Address:		Job Nam	ne: The Lauren H Beams	
				Project #	<u></u>	
BM4	Kerto-S LVL	1.750" X 9.2	250" 2-Plv	- PASSED	Level: Level	
		1				,
		•	-			
	and a state of the		alt in the second	and the second second	7	9 1/4
	AND AND AND A DESCRIPTION OF		a a the state of the second second			
	'F End Grain			2 SPF End Grain		1 1
/		6'			7	3 1/2"
		0				3 1/2
1		6'			1	
Member I	nformation			Reactions UN	IPATTERNED lb (Uplift)	•
Туре:	Girder	Application:	Floor	Brg Liv	ve Dead Snow	Wind Const
Plies:	2	Design Method:	ASD	1	0 2188 2166	0 0
Moisture Co	ondition: Dry	Building Code:	IBC 2012	2	0 2188 2166	0 0
Deflection L	L: 360	Load Sharing:	No Not Checked			
Importance:	L: 240 Normal	Deck:	Not Checked			
Temperature	e: Temp <= 100°F					
				Bearings		
				Bearing Leng	th Cap. React D/L lb	Total Ld. Case Ld. Comb.
				1 - SPF 3.500	41% 2188 / 2166	4354 L D+S
				End Crain		
Analysis R	Results				" <u>41%</u> 2188 / 2166	4354 I D+S
Analysis	Actual Loca	ation Allowed Capaci	ty Comb. Case	End		
Moment	5571 ft-ID	3' 14423 ft-lb 0.386 (3	9%) D+S L	Grain		
Shear	2002 lb	1' 79/3 lb 0.365 (3	(7%) D+S			
	b 0.043 (1/1545)	3' 0 185 (L/360) 0 230 (2	(3%) S I			
TI Defl inc	h 0.087 (L/769)	3' 0 277 (L/240) 0 310 (3	1%) D+S			
1 Easten al	DTES	22338 at 24" o.c. Maximum e	ad distance not to excee			
12".	in piles using 2 rows of 3DW					
2 Refer to I	last page of calculations for	fasteners required for specifie	d loads.	.		
3 Simpson 4 Girders a	tasteners applied from a sir are designed to be supported	ngle side of the member use ti d on the bottom edge only.	o values where published			
5 Top loads	s must be supported equally	by all plies.				
6 Top brace	ed at bearings.					
7 Bottom b 8 Lateral sl	iraced at bearings. lenderness ratio based on si	ingle ply width.				
ID	Load Type	Location Trib Width	n Side Dead	).9 Live 1 Sn	ow 1.15 Wind 1.6 Const	. 1.25 Comments
1	Uniform		Top 722 F	LF 0 PLF	722 PLF 0 PLF	0 PLF A2
•	Self Weight		' 7 F	1 F		
	een rreign					
					Manufacturer Infe	Comtech Inc
Notes	red Designs is responsible only of the	chemicals	<ol><li>For flat roofs proponding</li></ol>	ide proper drainage to prevent	Metsä Wood	1001 S. Reilly Road, Suite #639 Fayetteville, NC
structural adequad design criteria a	cy of this component based on the and loadings shown. It is the	1. LVL beams must not be cut or drilled 2. Refer to manufacturer's product	information		301 Merritt 7 Building, 2nd Floor	USA 28314
responsibility of the ensure the comp	ponent suitability of the intended	regarding installation requirements, fastening details, beam strength values.	multi-ply and code		(800) 622-5850	910-864-TRUS
application, and to Lumber	verity the dimensions and loads.	approvals 3. Damaged Beams must not be used	- los d		www.metsawood.com/us ICC-ES: ESR-3633	
<ol> <li>Dry service con</li> <li>LVL not to be t</li> </ol>	nditions, unless noted otherwise treated with fire retardant or corrosive	<ol> <li>Design assumes top edge is laterally restrict.</li> <li>Provide lateral support at bearing point lateral displacement and rotation.</li> </ol>	ained s to avoid			соттесн
		เฉเงาลา นาอุทลงอากอาน สาม 101811011	This design is	/alid until 2/26/2023		

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	Client: Weaver Developme	nt Date:	5/13/2020	Page 10 of 10
	Project:	Input by:	Curtis Quick	
isDesign	Address:	Job Nam	e: The Lauren H Beams	
		Project #	:	
DM4 Karta CIV			Level: Level	
BIVIA Reflo-5 LV	L 1.750 X 9.250	2-Ply - PASSED		
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				X X 9 1/4
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			<u>┤──</u> ★	
1 SPF End Grain		2 SPF End Grain		
/ <u>/</u>	6		×	3 1/2"
·			<u>_</u>	3 1/2
1	6'		1	
Multi-Dly Analysis				
Fasten all plies using 2 rows o	f SDW22338 at 24" o.c Maximu	um end distance not to excee	d 12"	
Capacity 0.	0 %			
Load 0.				
Yield Limit per Foot 25	55.0 PLF			
Yield Mode	pokup			
Edge Distance 1	1/2"			
Min. End Distance 6				
Load Combination				
Duration Factor 1.	00			
			I	
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	Handling & Installation	ponony	Metsä Wood 301 Merritt 7 Building, 2nd Floor	Fayetteville, NC USA
design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to	<ol> <li>2. Refer to manufacturer's product information regarding installation requirements multiply</li> </ol>		Norwalk, CT 06851	28314 910-864-TRUS
ensure the component suitability of the intended application, and to verify the dimensions and loads.	fastening details, beam strength values, and code approvals		(800) 622-5850 www.metsawood.com/us	
Lumber	2. Damaged Beams must not be used     4. Design assumes ton edge is laterally restrained		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>Provide lateral support at bearing points to avoid lateral displacement and rotation</li> </ol>	This design is the discrete		сотесн
1		mis design is valid until 2/26/2023		