	/		Client:	Weaver Development		Date:	2/1/2	022			Page 1 of 1
	-		Project:			Input I	by: Curti	s Quick			
IS	Design		Address:			Job N	lame: The l	_auren H Beams			
	_					Projec	ct #:				
GDH	Kerto-S L	.VL 1	.750"	X 14.000" 2	2-Ply - F	PASSED	Level: Lo	evei			
				1							
•		•	•	•	•	•	•	•		M	$\uparrow$
1	C. The law	-	•	18 Y 77	, mare	·	- THEIR	• • •	· ·	XIX	1'2"
	•	•	•	•		12 1 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	•	•		$\Box$	
1 SPF End	d Grain							2 SPF En	d Grain		
/				18'1	0"					3	1/2"
/				18'1	0"					P.	
				101	0						
						<b>.</b>					
	Girdor		Applica	tion: Eloor					Snow		Const
Plies	2		Design	Method <sup>.</sup> ASD		1 Vertical	JII L	0 2457	Show	vvina 0	Const
Moisture Con	dition: Dry		Building	Code: IBC 2012		2 Vertical		0 2457	0	0	0
Deflection LL:	360		Load SI	naring: No		2 Vortiour		2101	0	Ŭ	0
Deflection TL:	240		Deck:	Not Checke	ed						
Importance:	Normal - II										
Temperature:	Temp <= 10	00°F				Boarings					
						Bearing	nath Dir	Cop. Boost D/L lk	Total		Id Comb
							119th Dir. 500" Vert		) 10(a)	Lu. Case	
						End		2470 240770	2437	onnonn	D
Analysis Re	sults					Grain					
Analysis	Actual	Location	Allowed	Capacity Comb.	Case	2 - SPF 3.5	500" Vert	24% 2457/0	) 2457	Uniform	D
Moment	11011 ft-lb	9'5"	24299 ft-lb	0.453 (45%) D	Uniform	Grain					
Unbraced	11011 ft-lb	9'5"	11036 ft-lb	0.998 D	Uniform						
Shear	2089 lb	1'5 1/2"	9408 lb	0.222 (22%) D	Uniform						
LL Defl inch	0.000 (L/999)	0	999.000 (L/0	) 0.000 (0%)							
TL Defl inch	0.444 (L/497)	9'5 1/16"	0.919 (L/240	)) 0.483 (48%) D	Uniform						
Desian Not	es					1					
1 Provide su	pport to prevent lat	teral moveme	nt and rotatic	n at the end bearings. L	ateral support	1					
may also b	e required at the ir	nterior bearing	gs by the build	ding code.							
2 Fasten all p 12".	blies using 3 rows	01 50 1022338	3 at 24 0.C. N	aximum end distance n	IOT TO EXCEED						
3 Refer to las	t page of calculati	ions for faster	ners required	for specified loads.							
4 Simpson fa 5 Girders are	steners applied fro	om a single si	de of the mei	nber use tip values whe ne only	re published.						
6 Top loads r	nust be supported	equally by al	l plies.	<b>J</b> O 01 <b>J</b> .							
7 Top must b	e laterally braced	at a maximun	n of 9'7 7/16"	0.C.							
<ul> <li>8 Βοποm mu</li> <li>9 Lateral sler</li> </ul>	st be laterally brac	ed at end bea ed on single r	arings. olv width.								
ID	Load Type	5-1	Location	Trib Width Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6 Const.	1.25 Co	mments	
1	Uniform			Тор	250 PLF	0 PLF	0 PLF	0 PLF 0	PLF		
	Self Weight				11 PLF						
							Manufa	cturer Info	Comtech	, Inc.	
Notes Calculated Structured	Designs is responsible onl	chemi Iy of the Handli	ng & Installati	6. Fo	or tiat roots provide j onding	proper drainage to preve	Metsä V	/ood	1001 S. F Fayettevi	≷eilly Road, Suite # lle, NC	#639
structural adequacy design criteria and	of this component based loadings shown. It	on the 1. LVL b is the 2. Refer	eams must not be c to manufacture	ut or drilled er's product information			301 Mer Norwalk	ritt 7 Building, 2nd Floor . CT 06851	USA 28314	TRUS	
ensure the compor application, and to very	customer and/or the contra nent suitability of the in rify the dimensions and load	ntended faster	ding installation ing details, beam	requirements, multi-ply strength values, and code			(800) 62	2-5850	910-864-		
Lumber	inne veleer rote tot of	3. Dama 4. Desig	iged Beams must no n assumes top edu	ot be used is laterally restrained			<u>www.ine</u>	<u></u>			
<ol> <li>Dry service condit</li> <li>LVL not to be treat</li> </ol>	ions, unless noted otherwis ated with fire retardant or co	orrosive 5. Provid latera	de lateral support I displacement and	at bearing points to avoid rotation	his design is valid	d until 11/3/2024			G	OMT	есн
							I				

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		(	Client:	Weaver Developn	nent		Date:	2/1/2022				Page 1 of 1
	_	F	Project:				Input by:	Curtis Qu	ck			
IS	Design	A	Address:				Job Nam	e: The Laure	en H Beams			
							Project #					
BM2	Kerto-S L	VL 1	.750"	X 9.250'	' 2-Ply	- PAS	SSED	Level: Level				
			1								5.4	1 1
-			•		-						M	(
-	- mar	11/201	1000	-14	23 7	-					IĂIĂ	9 1/
•	Manual de Cartonia				• · · · ·		1				<u> </u>	
1 SPF	End Grain				2 SPF End	Grain	ļ					ļ
			5'4"			,	ĺ				1	3 1/2"
1			5'4"			,	1					
Mombar In	formation					Door	tione IIN					
Type:	Girder		Applicati	on: Floor		Bra	Direction	Live		Snow	Wind	Const
Plies:	2		Design M	/lethod: ASD		1	Vertical	0	1659	1640	0	0
Moisture Con	dition: Dry		Building	Code: IBC 2	012	2	Vertical	0	1659	1640	0	0
Deflection LL:	360		Load Sh	aring: No								
Deflection TL:	240		Deck:	Not C	hecked							
Importance:	Normal - II											
remperature:	Temp <= 100*	F				Beau	rinas					
						Bea	aring Lengt	h Dir	Can React D/L II	Total	I.d. Case	Id Comb
						1 -	SPF 3.500'	' Vert	32% 1659 / 1640	, 10tai	1	D+S
						End	3	Ven	02/0 1000 / 1040	0200	-	DIO
Analysis Re	sults					Gra	iin					
Analysis	Actual	Location A	Allowed	Capacity Co	omb. Case	2 - 5	SPF 3.500'	Vert	32% 1659 / 1640	3299	L	D+S
Moment	3675 ft-lb	2'8" 1	4423 ft-lb	0.255 (25%) D+	-S L	Gra	in					
Unbraced	3675 ft-lb	2'8" 1	1811 ft-lb	0.311 (31%) D+	-S L							
Shear	1990 lb	4'3 1/4" 7	'943 lb	0.251 (25%) D+	-S L							
LL Defl inch	0.023 (L/2497)	2'8" (	0.162 (L/360	) 0.144 (14%) S	L							
TL Defl inch	0.047 (L/1241)	2'8" (	0.244 (L/240	) 0.193 (19%) D+	-S L							
Design Not	tes											
1 Provide su	pport to prevent later	al movement	and rotation	at the end bearin	igs. Lateral suppo	rt						
2 Fasten all r	e required at the inte	rior bearings	by the build	ing code. aximum end dista	nce not to exceed							
12".		0011220001	at 2 1 0.0. IV									
3 Refer to las	st page of calculation	s for fastene	rs required f	or specified loads.								
5 Girders are	e designed to be supr	a single side	bottom eda	iber use tip values e only	s where published							
6 Top loads r	nust be supported ec	qually by all p	lies.	,-								
7 Top must b	e laterally braced at	end bearings										
8 Bottom mu 9 Lateral sler	st be laterally braced	at end bear	ngs. / width									
ID	Load Type		ocation -	Frib Width Sid	e Dead (	.9	Live 1 Sno	ow 1.15	Vind 1.6 Const	1.25 Co	mments	
1	Uniform			Tor	615 P	F	0 PI F	615 PI F	0 PI F 0	PLF A2		
	Self Weight			.05	7 0	F						
	Sell Weight				71	_1						
Notes			le		6 For flat roofs are	le propor de-	name to prover	Manufacture	r Info	Comtech,	Inc.	
Calculated Structured	Designs is responsible only of	the Handling	& Installatio	n	ponding	io proper ufail	nage to prevent	Metsä Wood		1001 S. R Fayettevil	eilly Road, Suite # le, NC	639
design criteria and	of this component based on d loadings shown. It is	the 1. LVL bear the 2. Refer	ms must not be cu to manufacturer	t or drilled 's product information				301 Merritt 7 Norwalk, CT (	Building, 2nd Floor 06851	USA 28314 910 964	TRUS	
ensure the compor application, and to very	nent suitability of the inten rify the dimensions and loads	ided fastening	g installation g details, beam s	requirements, multi-ply trength values, and code				(800) 622-585	50 and com/us	510-004-		
Lumber	,	approval 3. Damage 4. Design s	d Beams must not assumes top edge	be used is laterally restrained				www.metsaw	<u>700.0011/US</u>			
<ol> <li>Dry service condit</li> <li>LVL not to be treat</li> </ol>	tions, unless noted otherwise ated with fire retardant or corro	sive 5. Provide lateral di	lateral support a splacement and ro	bearing points to avoid	This design is y	alid until 11	/3/2024			C	OMT	есн
L					This design IS V		5/2024					

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			Client:	Weaver Dev	elopment		Da	ate:	2/1/2	2022				Page 1 of 1
			Project:		·		In	put by:	Curt	is Quick				
is	Design		Address:				Jo	ob Name	e: The	Lauren H I	Beams			
<b></b>							Pi	roject #:	<del>.</del>					
BM3	Kerto-S L	.VL	1.750"	X 9.2	50"	2-Ply -	PASSI	ED	Level: L	evel				
			_			_								
													IVIV	/
17. C	C. Mar	-	-		Str. 23		-		THE L					9 1/
			-			Carl Contractor							V_V_	
1 SPF	End Grain			0.01			2 SPF End	d Grain					<u> </u>	2.4/2"
,				6'3"									I	3 1/2
I				03					I					
Member In	formation						Reaction	ns UN	PATTI	RNED	b (Uplift)			
Туре:	Header		Applicat	ion:	Floor		Brg Dire	ection		_ive	Dead	Snow	Wind	Const
Plies:	2		Design I	Method:	ASD		1 Vert	ical		0	2363	2341	0	0
Moisture Con	dition: Dry		Building	Code:	BC 2012		2 Vert	ical		0	2363	2341	0	0
Deflection TL:	360 240		Load Sr Header	Supports	NO									
Importance:	Normal - II		Glass:	Capponto										
Temperature:	Temp <= 100	)°F	Deck:	I	Not Checke	d								
·	·						Bearings	5						
							Bearing	Lengt	h Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
							1 - SPF	3.500"	Ver	t 46%	2363 / 2341	4704	L	D+S
Analycic Do	eulte						_ End Grain							
Analysis	Actual	Location	Allowed	Capacity	Comb	Case	2 - SPF	3.500"	Ver	46%	2363 / 2341	4704	L	D+S
Moment	6311 ft-lb	3'1 1/2"	14423 ft-lb	0.438 (449	%) D+S	L	End							
Unbraced	6311 ft-lb	3'1 1/2"	10779 ft-lb	0.586 (599	%) D+S	L	Giain							
Shear	3110 lb	1' 3/4"	7943 lb	0.392 (399	%) D+S	L								
LL Defl inch	0.052 (L/1330)	3'1 1/2"	0.193 (L/360	) 0.271 (279	%) S	L								
TL Defl inch	0.105 (L/662)	3'1 1/2"	0.290 (L/240	) 0.363 (369	%) D+S	L								
Design Not	es						1							
1 Provide su	oport to prevent late	ral moveme	ent and rotatio	n at the end l	pearings. La	ateral support	1							
2 Fasten all r	e required at the inte blies using 2 rows of	erior bearing f SDW22338	gs by the build 8 at 24" o.c. M	ling code. Iaximum end	distance no	ot to exceed								
12".														
3 Refer to las	t page of calculation	ns for faster	ners required f	or specified I	oads. alues wher	e published								
5 Girders are	designed to be sup	ported on the	he bottom edg	le only.	alues when	e published.								
6 Top loads r	nust be supported e	equally by al	l plies.	-										
7 Top must b	e laterally braced at	end bearing	gs. arings											
9 Lateral sler	nderness ratio based	d on single p	oly width.											
ID	Load Type		Location	Trib Width	Side	Dead 0.9	Live	1 Snc	w 1.15	Wind	1.6 Const. 7	1.25 Coi	mments	
1	Uniform				Тор	749 PLF	0 PLI	F 7	749 PLF	0	PLF 0	PLF A2		
	Self Weight					7 PLF								
Notes		chemi	icals		6. Foi poi	r flat roofs provide p nding	proper drainage to	prevent	Manufa	cturer Info		Comtech, 1001 S. R	Inc. ceilly Road, Suite #	639
calculated Structured structural adequacy design criteria	Designs is responsible only of of this component based of loadings shown it in	or the <b>nandli</b>	eams must not be cu	it or drilled		-			301 Me	rritt 7 Buildir	ng, 2nd Floor	USA 28314	6, NO	
responsibility of the o	customer and/or the contract ient suitability of the inte	tor to regard ended factor	to manufacture ding installation	rs product info requirements, r	rmation nulti-ply id. code				Norwall (800) 62	k, CT 06851 22-5850		910-864-T	TRUS	
application, and to ver	ify the dimensions and loads.	appro 3. Dama	wals aged Beams must no	t be used					<u>www.m</u>	etsawood.co	om/us			
<ol> <li>Dry service conditi</li> <li>LVL not to be treat</li> </ol>	ions, unless noted otherwise ted with fire retardant or corr	4. Desig 5. Provio	n assumes top edge de lateral support a	is laterally restrain t bearing points t	ed o avoid							le	OMT	есн
2. 2.2 Hot to be itea		latera	asplacement and r	pration	Tł	nis design is valio	d until 11/3/2024	4						

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