Project: Address: .750" X 16.000" 2-Ply · 1	Project #:	Curtis Quick The Lauren III Beams	2 SPF
.750" X 16.000" 2-Ply	Project #:		
1 	· · ·	evel: Level	
1 			
18'10"			
18'10"			
18'10"			
18'10"			
18'10"			
18'10"	<u></u>		
		and the second	
			3 1/2"
1010			
			I
	Peactions LINP	ATTERNED Ib (Uplift)	)
Application: Floor	Brg Live	Dead Snow	Wind Const
Design Method: ASD	1 0	1840 1723	0 0
	2 0	1840 1723	0 0
Deck: Not Checked			
	Bearings		
	Bearing Length	Cap. React D/L lb	Total Ld. Case Ld. Comb.
	1 - SPF 3.500"	68% 1840 / 1723	3564 L D+S
	2 - SPF 3.500"	68% 1840 / 1723	3564 L D+S
Allowed Capacity Comb. Case	9		
39750 ft-lb 0.403 (40%) D+S L			
16016 ft-lb 1.000 D+S L (100%)			
13739 lb 0.217 (22%) D+S L			
0.460 (L/480) 0.460 (46%) S L			
J.613 (L/360) 0.720 (72%) D+S L	<u> </u>		
s (.128x3") at 12" o.c. Maximum end distance r	ot		
bottom edge only.			
	0.9 Live 1 Snow	1.15 Wind 1.6 Const	t. 1.25 Comments
			0 PLF A4A
12 1	PLF		
12 1	PLF		
	Building Code:         IBC 2012           Load Sharing:         No           Deck:         Not Checked             Allowed         Capacity         Comb.         Case           39750 ft-lb         0.403 (40%)         D+S         L           16016 ft-lb         1.000         D+S         L           16016 ft-lb         1.000         D+S         L           0.460 (L/480)         0.460 (46%)         S         L           0.613 (L/360)         0.720 (72%)         D+S         L           s (.128x3") at 12" o.c.         Maximum end distance r         rs required for specified loads.           a bottom edge only.         Siles.         of 7'4 1/2" o.c.         y width.           Location         Trib Width         Side         Dead           Top         183 F         Top         Top	Building Code:       IBC 2012         Load Sharing:       No         Deck:       Not Checked         Bearings       Bearing Length         1 - SPF 3.500"       2 - SPF 3.500"         2 - SPF 3.500       2 - SPF 3.500"         2 - SPF 3.500       100%         13739 lb       0.217 (22%) D+S       L         0.460 (L/480)       0.460 (46%) S       L         0.613 (L/360)       0.720 (72%) D+S       L         s (.128x3") at 12" o.c. Maximum end distance not       rs required for specified loads.         e bottom edge only.       Section edge only.         Diles.       of 7'4 1/2" o.c.         y width.       Location Trib Width       Side       Dead 0.9       Live 1       Snow	Building Code:       IBC 2012         Load Sharing:       No         Deck:       Not Checked         Bearings       Bearing Length         Capacity       Comb.         Case       39750 ft-lb         39750 ft-lb       0.403 (40%) D+S         L       L         16016 ft-lb       1.000         D+S       L         0.403 (L/360)       D+S         L       L         0.404 (L/480)       0.403 (40%) D+S         L       L         0.406 (L/480)       0.406 (46%) S         L       L         0.403 (L/360)       0.720 (72%) D+S         L       L         0.403 (L/360)       0.720 (72%) D+S         L       L         0.403 (L/360)       0.720 (72%) D+S         L       L         0.413 (L/360)       0.720 (72%) D+S         L       L         0.413 (L/360)       0.720 (72%) D+S         L       L         0.413 (L/360)       0.720 (72%) D+S         L       L         0.414 (L/2" o.c.         y width.       L

CSD I

Level: Level $ \begin{array}{c} \hline                                    $
2 SPF       Image: 2 SPF         2 SPF       Image: 2 SPF         1 3 1/2"         PATTERNED Ib (Uplift)         e       Dead         0       1696         1 631       0
2 SPF       Image: 2 SPF         2 SPF       Image: 2 SPF         1 3 1/2"         PATTERNED Ib (Uplift)         e       Dead         0       1696         1 631       0
2 SPF       Image: 2 SPF         2 SPF       Image: 2 SPF         1 3 1/2"         PATTERNED Ib (Uplift)         e       Dead         0       1696         1 631       0
2 SPF       Image: 2 SPF         2 SPF       Image: 2 SPF         1 3 1/2"         PATTERNED Ib (Uplift)         e       Dead         0       1696         1 631       0
2 SPF       Image: 2 SPF         2 SPF       Image: 2 SPF         1 3 1/2"         PATTERNED Ib (Uplift)         e       Dead         0       1696         1 631       0
2 SPF       Image: 2 SPF         2 SPF       Image: 2 SPF         1 3 1/2"         PATTERNED Ib (Uplift)         e       Dead         0       1696         1 631       0
PATTERNED Ib (Uplift) e Dead Snow Wind Const 0 1696 1631 0 0
e Dead Snow Wind Const D 1696 1631 0 0
e Dead Snow Wind Const D 1696 1631 0 0
e Dead Snow Wind Const D 1696 1631 0 0
h Cap. React D/L lb Total Ld. Case Ld. Comb. 64% 1696 / 1631 3327 L D+S
64% 1696 / 1631 3327 L D+S 64% 1696 / 1631 3327 L D+S
with the Wind the Const the Constants
www.second         Wind 1.6         Const. 1.25         Comments           233 PLF         0 PLF         0 PLF         G1

CSD I

<b>T</b> i	sDesign	Client: Weaver Development Project:	Date: 2/8/2021 Page 1 Input by: Curtis Quick Job Name: The Lauren III Beams
		Address:	Project #:
3M1	Kerto-S LVL	1.750" X 9.250" 2-Ply	- PASSED
		1	
•		· · · ·	• • • • • • • • • • • • • • • • • • •
	(190 m	atter atter	
18 T			
	F	6'	2 SPF 3 1/2"
<u> </u>		6'	
1		0	
ember Ir	nformation		Reactions UNPATTERNED Ib (Uplift)
уре:	Girder	Application: Floor	Brg Live Dead Snow Wind Const
Plies: Aoisture Co	2 ndition: Dry	Design Method: ASD Building Code: IBC 2012	1         0         1987         1965         0         0           2         0         1987         1965         0         0
Deflection Ll		Load Sharing: No	
Deflection TI mportance:	L: 360 Normal	Deck: Not Checked	
emperature			
	·		Bearings
			Bearing Length Cap. React D/L lb Total Ld. Case Ld. Comb.
			1 - SPF         3.500"         76%         1987 / 1965         3952         L         D+S           2 - SPF         3.500"         76%         1987 / 1965         3952         L         D+S
nalysis R			
Analysis		n Allowed Capacity Comb. Case	
Moment Jnbraced		3' 14423 ft-lb 0.351 (35%) D+S L 3' 11027 ft-lb 0.459 (46%) D+S L	
Shear		1' 7943 lb 0.332 (33%) D+S L	
L Defl inch	n 0.039 (L/1703) 3	3' 0.139 (L/480) 0.280 (28%) S L	
L Defl incl	h 0.079 (L/847) 3	3' 0.185 (L/360) 0.430 (43%) D+S L	
esign No			
<ol> <li>Fasten all to exceed</li> </ol>		nails (.128x3") at 12" o.c. Maximum end distance n	ot
	ast page of calculations for fast re designed to be supported on	eners required for specified loads.	
	must be supported equally by		
	ed at bearings. aced at bearings.		
•	aooa ai boanngo.	e ply width	
6 Bottom br	enderness ratio based on single	e piy maan.	
6 Bottom br	enderness ratio based on singl Load Type Uniform	Location Trib Width Side Dead ( Top 655 F	

	Design	Client: Weaver Development Project: Address:			out by:	2/8/2021 Curtis Qui The Laure				Page 1
	•	1.750" X 9.250" 2	-Ply - P	Pro	oject #:	vel: Level				
•	•	1		•	•					
•	- 10-				•					
1 SPF		6'		2 SP	F 					3 1/2"
ember Info	ormation	0		Peaction	s UNP/		D lb (Uplift	t)		
	Girder	Application: Floor		Brg	Live	Dea			Wind	Const
lies:	2	Design Method: ASD		1	0	144			0	0
loisture Condit	-	Building Code: IBC 2012		2	0	144	7 1425		0	0
eflection LL:	360 240	Load Sharing: No Deck: Not Checked								
eflection TL: mportance:	240 Normal	Deck: Not Checked								
emperature:	Temp <= 100°F		L							
			E	Bearings						
				Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
				1 - SPF	3.500"	55%	1447 / 1425	2872	L	D+S
	ulte			2 - SPF	3.500"	55%	1447 / 1425	2872	L	D+S
nalysis Resu		n Allowed Capacity Comb.	Case							
		3' 14423 ft-lb 0.255 (25%) D+S	L							
		3' 11027 ft-lb 0.333 (33%) D+S	L							
		1' 7943 lb 0.241 (24%) D+S	L							
L Defl inch	0.028 (L/2348)	3' 0.185 (L/360) 0.150 (15%) S	L							
L Defl inch		3' 0.277 (L/240) 0.210 (21%) D+S	L							
esign Note										
1 Fasten all plie to exceed 6".	es using 2 rows of 10d Box	nails (.128x3") at 12" o.c. Maximum end di	istance not							
	page of calculations for fasi lesigned to be supported or	teners required for specified loads. the bottom edge only.								
4 Top loads mu	ist be supported equally by									
5 Top braced a 6 Bottom brace	-									
	erness ratio based on singl	e ply width.								
D	Load Type	Location Trib Width Side	Dead 0.9	Live 1	Snow	1.15 V	Vind 1.6 Cons	st. 1.25	Commen	ts
	Uniform	Тор	475 PLF	0 PLF	47	5 PLF	0 PLF	0 PLF	a1	
	Self Weight		7 PLF							

	Address: <b>1.750" X 9.250"</b> 1.750" I OSCONT 1 6' 1/2" 6' 1/2" 6' 1/2" Application: Floor Design Method: ASD Building Code: IBC 2012		Pro	s UNPAT	E Lauren III E			↓ ↓ ↓ ↓ 3 1/2"
tion rder	1 6' 1/2" 6' 1/2" 6' 1/2" Application: Floor Design Method: ASD Building Code: IBC 2012		2 SF	s UNPAT				
rder Y 80	6' 1/2" 6' 1/2" 6' 1/2" Application: Floor Design Method: ASD Building Code: IBC 2012		Reaction	s UNPAT	TERNED			
rder Y 80	6' 1/2" 6' 1/2" 6' 1/2" Application: Floor Design Method: ASD Building Code: IBC 2012		Reaction	s UNPAT				
rder Y 80	6' 1/2" 6' 1/2" 6' 1/2" Application: Floor Design Method: ASD Building Code: IBC 2012		Reaction	s UNPAT	TERNED			
rder Y 80	6' 1/2" Application: Floor Design Method: ASD Building Code: IBC 2012		Reaction	s UNPAT				
rder Y 80	6' 1/2" Application: Floor Design Method: ASD Building Code: IBC 2012		Reaction	s UNPAT	TERNED I			
rder Y 80	6' 1/2" Application: Floor Design Method: ASD Building Code: IBC 2012		Reaction	s UNPAT				3 1/2"
rder Y 80	6' 1/2" Application: Floor Design Method: ASD Building Code: IBC 2012							1 1/2"
rder Y 80	Application: Floor Design Method: ASD Building Code: IBC 2012							
rder Y 80	Design Method: ASD Building Code: IBC 2012							
у 30	Design Method: ASD Building Code: IBC 2012		Brg					
80	Building Code: IBC 2012		1	Live 0	Dead 883	Snow 861	Wind 0	Const 0
		2	2	0	883	861	0	0
10	Load Sharing: No							
	Deck: Not Chec	ked						
ormal								
emp <= 100°F			Bearings					
					Can Rea	act D/L lb	Total I.d. Case	Ed. Comb.
			-	-				D+S
								D+S
		b. Case						
-lb 3' 1/4"		L						
-lb 3' 1/4"		L						
5' 1/2"	7943 lb 0.147 (15%) D+S	L						
L/3840) 3' 1/4"	0.140 (L/480) 0.130 (13%) S	L						
L/1896) 3' 1/4"	0.279 (L/240) 0.130 (13%) D+S	L						
-								
ngs.	p							
earings.								
	•	Dead 0.9	Live 1	Snow 1	15 Wind	1.6 Const	1.25 Commer	nte
51								11.5
	юр		UPLF	200 FI		FLF	JPLF A4A	
Weight		7 PLF						
	b 3' 1/4" b 3' 1/4" 5' 1/2" /3840) 3' 1/4" /1896) 3' 1/4" to be supported on the e fastened together as ipported equally by all gs. atio based on single pi Type rm	b       3' 1/4"       14423 ft-lb       0.156 (16%) D+S         b       3' 1/4"       10986 ft-lb       0.205 (20%) D+S         5' 1/2"       7943 lb       0.147 (15%) D+S         /3840)       3' 1/4"       0.140 (L/480)       0.130 (13%) S         /1896)       3' 1/4"       0.279 (L/240)       0.130 (13%) D+S         to be supported on the bottom edge only.       e fastened together as per manufacturer's details.         piported equally by all plies.       gs.         atio based on single ply width.       Type       Location       Trib Width       Side         rm       Top       Top       Top	Location         Allowed         Capacity         Comb.         Case           b         3' 1/4"         14423 ft-lb         0.156 (16%)         D+S         L           b         3' 1/4"         10986 ft-lb         0.205 (20%)         D+S         L           5' 1/2"         7943 lb         0.147 (15%)         D+S         L           /3840)         3' 1/4"         0.140 (L/480)         0.130 (13%)         S         L           /1896)         3' 1/4"         0.279 (L/240)         0.130 (13%)         D+S         L           /1896)         3' 1/4"         0.279 (L/240)         0.130 (13%)         D+S         L           to be supported on the bottom edge only.         e         fastened together as per manufacturer's details.         pported equally by all plies.         gs.           gs.         atio based on single ply width.         I         I         Type         Location         Trib Width         Side         Dead 0.9           rm         Top         285 PLF         Top         285 PLF         Top         145 PLF	Location         Allowed         Capacity         Comb.         Case           b         3' 1/4"         14423 ft-lb         0.156 (16%)         D+S         L           b         3' 1/4"         10986 ft-lb         0.205 (20%)         D+S         L           5' 1/2"         7943 lb         0.147 (15%)         D+S         L           /3840)         3' 1/4"         0.140 (L/480)         0.130 (13%)         S         L           /1896)         3' 1/4"         0.279 (L/240)         0.130 (13%)         D+S         L           /1896)         3' 1/4"         0.279 (L/240)         0.130 (13%)         D+S         L           /1896)         3' 1/4"         0.279 (L/240)         0.130 (13%)         D+S         L           /1896)         3' 1/4"         0.279 (L/240)         0.130 (13%)         D+S         L           /1896)         3' 1/4"         0.279 (L/240)         0.130 (13%)         D+S         L           /1896         3' 1/4"         0.279 (L/240)         0.130 (13%)         D+S         L           /1896         3' 1/4"         0.279 (L/240)         0.130 (13%)         D+S         L           /200         setindased on single ply width.         Intro setin	Location         Allowed         Capacity         Comb.         Case           b         3' 1/4"         14423 ft-lb         0.156 (16%) D+S         L           b         3' 1/4"         10986 ft-lb         0.205 (20%) D+S         L           5' 1/2"         7943 lb         0.147 (15%) D+S         L           /3840)         3' 1/4"         0.140 (L/480)         0.130 (13%) S         L           /1896)         3' 1/4"         0.279 (L/240)         0.130 (13%) D+S         L           /1896)         3' 1/4"         0.279 (L/240)         0.130 (13%) D+S         L           /1896)         3' 1/4"         0.279 (L/240)         0.130 (13%) D+S         L           /1896)         3' 1/4"         0.279 (L/240)         0.130 (13%) D+S         L           /1896)         3' 1/4"         0.279 (L/240)         0.130 (13%) D+S         L           /1896)         3' 1/4"         0.279 (L/240)         0.130 (13%) D+S         L           /1897         Location edge only.         statio based on single ply width.         Live 1         Snow 1.4           /17ype         Location         Trib Width         Side         Dead 0.9         Live 1         Snow 1.4           rm         Top         28	Location         Allowed         Capacity         Comb.         Case           b         3' 1/4"         14423 ft-lb         0.156 (16%)         D+S         L           b         3' 1/4"         10986 ft-lb         0.205 (20%)         D+S         L           j         1/2"         7943 lb         0.147 (15%)         D+S         L           j         1/4"         0.140 (L/480)         0.130 (13%)         S         L           /3840)         3' 1/4"         0.279 (L/240)         0.130 (13%)         S         L           /1896)         3' 1/4"         0.279 (L/240)         0.130 (13%)         D L           to be supported on the bottom edge only.         e         asteneed together as per manufacturer's details.           pipported equally by all plies.         gs.         atio based on single ply width.           IType         Location         Trib Width         Side         Dead 0.9         Live 1         Snow 1.15         Wind           rm         Top         285 PLF         0 PLF         285 PLF         0 I	Location         Allowed         Capacity         Comb.         Case           b         3' 1/4"         14423 ft-lb         0.156 (16%) D+S         L           b         3' 1/4"         10986 ft-lb         0.205 (20%) D+S         L           5' 1/2"         7943 lb         0.147 (15%) D+S         L           /1896)         3' 1/4"         0.140 (L/480)         0.130 (13%) S         L           /1896)         3' 1/4"         0.279 (L/240)         0.130 (13%) D+S         L           /1896)         3' 1/4"         0.279 (L/240)         0.130 (13%) D+S         L           /1896)         3' 1/4"         0.279 (L/240)         0.130 (13%) D+S         L           /1896)         3' 1/4"         0.279 (L/240)         0.130 (13%) D+S         L           /1896)         3' 1/4"         0.279 (L/240)         0.130 (13%) D+S         L           /1896)         3' 1/4"         0.279 (L/240)         0.130 (13%) D+S         L           /1896)         3' 1/4"         0.279 (L/240)         0.130 (13%) D+S         L           /1997         Location         Trib Width         Side         Dead 0.9         Live 1         Snow 1.15         Wind 1.6         Const.           rm         To	Bearing         Length         Cap.         React D/L lb         Total         Ld. Case           1 - SPF         3.500"         33%         883 / 861         1744         L           2 - SPF         3.500"         33%         883 / 861         1744         L           2 - SPF         3.500"         33%         883 / 861         1744         L           2 - SPF         3.500"         33%         883 / 861         1744         L           2 - SPF         3.500"         33%         883 / 861         1744         L           2 - SPF         3.500"         33%         883 / 861         1744         L           2 - SPF         3.500"         33%         883 / 861         1744         L           2 - SPF         3.500"         33%         883 / 861         1744         L           2 - SPF         3.500"         33%         883 / 861         1744         L           2 - SPF         3.500"         33%         883 / 861         1744         L           3 - Set         0.147 (15%) D+S         L         L         -         -           3840)         3 1/4"         0.279 (L/240)         0.130 (13%) D+S         L         -

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