			ent: Pope Bui		- Down		Date:	2/28/2024				Page 1 of 1
Tie	Design		oject: Pope Bui dress:	ders - Thompsor	n Barn		Input by:	Joe Cifer e <sup>.</sup> Thompso	nı ın Barn LVL Beams			
		, (G					Project #:	-				
BM4-3	onCENTER	2.1E LVI	_ 1.750" X	( 14.000"	3-Plv	- PAS	SED	Level: Level				
	-											
		1										
												$\uparrow$
	and the second s										XIXIX	1'2'
	and the second s	July an	1.114								(WW)	
1 SPI	- 0-6-0		2 SPF 0-	.6-0							.	
		6'									1	5 1/4"
1		6'		1								
Nember In	formation					Reacti	ons UN	PATTERN	ED lb (Uplift)			
Type:	Girder		Application:	Floor		Ĭ	Direction	Live	Dead	Snow	Wind	Const
Plies: Moisture Con	3 dition <sup>.</sup> Drv		Design Method: Building Code:	ASD IRC 2018			/ertical /ertical	2910	2974 2974	0	0 0	0
Deflection LL	,		Load Sharing:	Yes		2 \	/ertical	2910	2974	0	0	0
Deflection TL	: 240		Deck:	Not Checked								
Importance:	Normal - II											
Temperature	Temp <= 100°	'F										
General Load						Bearir	ngs					
Floor Live:	40 PSF						ng Lengt		Cap. React D/L I		d. Case	Ld. Comb.
Dead:	12 PSF						PF 6.000"		44% 2974 / 2910			D+L
Analysis Re	esults					1_2-SF	PF 6.000"	Vert	44% 2974 / 2910	0 5884 L		D+L
Analysis		Location All	•	2	Case	1						
Moment	6439 ft-lb			14%) D+L	L							
Unbraced	6439 ft-lb			22%) D+L	L	1						
Shear	2640 lb	1'8" 13		19%) D+L	L							
	0.011 (L/5734)		256 (L/240) 0.042 (4	-	L	1						
	0.022 (L/2836)	3' 0.2	256 (L/240) 0.085 (a	3%) D+L	L	-						
	pport to prevent later			id bearings. Late	eral support	4						
	be required at the inte e designed to be supp	•										
	es must be fastened		• •	ails.								
4 Top loads	must be supported ec	qually by all plie										
	be laterally braced at st be laterally braced	-										
	nderness ratio based											
ID	Load Type	Lo	cation Trib Widt	n Side	Dead 0.9	Liv	/e 1 Sno	ow 1.15	Wind 1.6 Const.	1.25 Comm	nents	
1	Uniform			Тор	970 PLF	970	PLF	0 PLF	0 PLF 0	PLF Roof tr	uss load b	y others
	Self Weight				21 PLF							
	5											
								Manufact	u lufa			
Notes	d Daeigne is responsible only of	chemicals	Installation	<ol> <li>For fla pondir</li> </ol>	at roofs provide p ng	proper drainage	e to prevent	Manufacture	er into		nal Buildeı Hwy. 421 l	
structural adequacy	d Designs is responsible only of of this component based on d loadings shown. It is	the 1. LVL beams	must not be cut or drilled						Im Circle, Suite 300	28401	-	
responsibility of the ensure the compo	customer and/or the contracto nent suitability of the inten	or to regarding	manufacturer's product installation requirements, letails, beam strength values	multi-ply				Marietta, GA 877-914-777		910-386-4	4300	
application, and to ve	rify the dimensions and loads.	approvals 3. Damaged E	Beams must not be used					www.buildon				siona
1. Dry service cond	tions, unless noted otherwise ated with fire retardant or corro	<ol> <li>Design ass</li> <li>Provide lat</li> </ol>	umes top edge is laterally rest eral support at bearing poir lacement and rotation	ts to avoid	dooires is!! !		2026	ESR-1210	000, _011 2010,			SUPPL about the service!!
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