E. Randoph Marshall. PE

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Brian Kaseta

30 June 2022

Go To Guys LLC

Lane RV Park

Linden, NC

Subject: 153 Canterbury Rd.

Sanford, NC 27332

I visited the house at the above address to analyze two LVL beams. The inspection was requested by a local building official.

There are two double-ply 11.25" beams installed in the area being remodeled. They support the upstairs living areas. Both span 13'. They have the proper bearing support either from studs or an exterior wall in the garage.

The ply's are fastened together with the correct number of nails which are properly spaced.

I have attached the design documents for both beans. Beam B1 is in front of the home and beam B2 is 13' away.

These beams will adequately support the imposed loads. The area is structurally sound.

Sincerely,
Marin Sho

E. Randolph Marshall. PE

This design is valid until 3/1/2025

APA: PR-L289, PR-L270, ICC-ES:

Lumber

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

EV	VP Studio	В	lient: roject:				Date: nput by:	6/30/2022	2			Page 1 of 1
Sir	npson Stroi mponent S	ng-Tie® _A	ddress:				lob Name:					
							Project #:					
31 2.0	E Rigidlan	n LVL	1.750" >	(11.250"	2-Ply	PASS	ED L	evel: Level				
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				1								π τ
Roseburg	***		Roseburg	450		Roseb	urg	The second				11 1/4"
1 SPF										2 SP	F	1
				1								3 1/2"
1				1	3'						٦	
Member 1	Informatio	n				React	ions U	NPAT	rerned	lb (Up	lift)	
Туре:	Girder		Application:	Floor			irection	Live	Dead		ow Wi	
Plies:	2		Design Metho		2045	1 '	ertical	3380	913		0	0
Moisture Cond			Building Code Load Sharing		2015	2 V	ertical	3380	913		0	U
Deflection LL: Deflection TL:	360 240		Deck:	Not Chec	ked							
Importance:	Normal - II		Dook.									
Temperature:	Temp <= 10	0°F										
101111111111111111111111111111111111111						Beari	ngs					
						Bearin	g Length	Dir.	Cap. Reac	D/L lb	Total Ld. Ca	
						1 - SP	F 3.500"	Vert	82% 913	3 / 3380	4293 L	D+L
						2 - SP	F 3.500"	Vert	82% 91:	3 / 3380	4293 L	D+L
Analysis	Results					_						
Analysis	Actual	Location	Allowed C	apacity Coml	b. Case			181122	MININA			
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Unbraced	12984 ft-lb	6'6"		998 D+L	L				881000	Je.		
01	2404 lb	11'0 1/4"		00%) 459 (46%) D+L	L		2.0	Ok	1	- 1000 - 1000 - 1000	/	
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	0.349 (L/432)		0.627 (L/240) 0.		L		3		1999	113/	W	
	0.443 (L/340)	00	0.021 (11240) 0.	. 55 (1 1 70) 5 . E		7			- Color	#30	-	
Design N	lotes					4	1	B. "	GIN			
may also b	pport to prevent la be required at the in	nterior bearing	s by the building	code.	. Lateral support			11/11/11	EPH MAN	W.		
2 Girders are	e designed to be su ies must be fastene	apported on the	per manufacture	r's details.			~	2 . 0	\	1 -	_	
4 Top loads	must be supported	equally by all	plies.					$\rangle_{0}\rangle$	11 2	202	7	
5 Top must b	oe laterally braced	at a maximum	of 5'11 3/4" o.c.					0				
6 Bottom mu	ust be laterally bracenderness ratio bas	ed at end bea	ırıngs. dv width.									
ID	Load Type			Width Side	Dead 0.9) Li	ve 1 Sno	ow 1.15	Wind 1.6	Const. 1.2	5 Comment	s
1	Uniform		13-0)-0 Top	10 PSF	40	PSF	0 PSF	0 PSF	0 PS	F	
•	Self Weight				10 PLF	=						
	Con Wongint											
Notes		chemi			5. For flat roofs provide ponding	proper drainag	ge to prevent	Manufacti				
Calculated Structure	ed Designs is responsible or of this component based	on the 1 IVI b	ng & Installation eams must not be cut or o	frilled	portunity			4500 Ridd	Forest Products le By-pass Rd			
design criteria a	nd loadings shown. It	is the 2. Refer	to manufacturer's	product information prements multi-ply				Riddle, OF (541) 784-	R 97469 4005			
ensure the comp	onent suitability of the verify the dimensions and loa	intended faster ads. appro	ning details, beam stren ovals	gth values, and code				www.rosel	ourg.com .289, PR-L270,	ICC-ES:		
Lumber	ditions, unless noted otherw	3. Dama	aged Beams must not be in assumes top edge is la de lateral support at be	torolly spetrained				ESR-1210		JU-LU.		
Dry service cond LVL not to be tr	ditions, unless noted otherw eated with fire retardant or	corrosive 5. Provi	de lateral support at be al displacement and rotation	on a posite to avoid	This design is va	lid until 3/1/2	2025					