3941 US Highway 421 North Wilmington NC 28401 Doma Sizer™ © 2011-2018 BlueLinx Corporation					910-386-4300								Version: 18.0.2.0
Project: MemberID: Usage:	2662-15) - of - Valley	Roof B 3	eams										
Max Deflection:	LL = L/240 T	'L = L/	180								Slope:	12/12	
4" 565psi			7' 8"				4" 565psi	i		8' 8"			4" 565psi
1 1							I						I
LOADS			Project	Design Loa	ads : R	oof: Live	e=20.0 ps	f, Dead=15	5.0 psf				
# Shape	LI @	ve+De Start	@Fnd	Dive Ld(L @Start @	.) ⑦Fnd	I DF	Snan#	Location	1° Fno	ds	Additional Info		
1 Trapezoidal (plf)	35	50.0	0.0	200.0 (	).0	115%	0	0'	17'	8"	roof load		
2 Trapezoidal (plf)	35	50.0	0.0	200.0 (	0.0	115%	0	0'	17'	8"	roof load		
Uniform (plf)	5.	48					0	0'	17'	8"	Self Weight		
*Dimensions measure	d from left en	id whe	n span# is	0, otherwis	se, fron	n left en	d of the s	pecified spa	an.				
LOAD PATTER	NS (* = sp	oan le	oaded)										
	1		2	3									
1	*		*	*									
SUPPORTS (lbs	5) 1		2	3									
Max Reaction	32	772	3867	278									
Max 115%	15	572	1839	122									
Min Reaction	17	700	2028	156									
Min 115%	15	572	1839	122									
DL Reaction	17	700	2028	156									
Min Bearing	3.	31"	3.91"	1.50"	[Ba	sed on	bearing s	tress below	/]				
Brg Stress (psi)	56	55	565	565									
DESIGN	۸	ctual	Snan	Locatio	'n		Group	Allow		Ratio			
V(lbs)	1	590	2	7' 6"	,,,,		31	4540	115%	0.35			
M(ft-lbs)	29	941	2	7' 8"			31	10822	115%	0.27			
RtRn(lbs)	2	78	0	17' 8"			31	3955	11070	0.07			
IntRn(lbs)	38	367	0	9'			31	3955		0.98			
LLDefl(")	-0	.02	1	0'			31	0.20		2L/-1819			
TLDefl(")	-0	.05	1	0'			31	0.25		2L/-876			
LLDefl(")	0.	04	2	3' 10"			31	0.54		L/2905			
TLDefl(")	0.	09	2	3' 10"			31	0.72		L/1400			
LLDefl(")	0.	00	3	4' 4"			31	0.61		L/31815			
TLDefl(")	0.	01	3	4' 4"			31	0.82		L/12859			

JC

3/12/2019 1:04 PM

USE: onCENTER LVL 2.0E 1 3/4" x 11 7/8" 1 Ply onCENTER® LVL by BlueLinx

PROFESSIONAL BUILDERS SUPPLY

Grade, Depth selected by user

## NOTES

1. Designed in accordance with National Design Specifications for Wood Construction and applicable approvals or research reports.

2. Provide full depth lateral support at all bearing locations. Allowable positive moment is calculated based on top edge with continuous lateral support.

3. Allowable negative moment is calculated based on bottom edge laterally supported @16" o.c.

4. Analysis valid for dry-use only (less than 16% moisture content).

5. Loads have been input by the user and have not been verified by BlueLinx Engineered Lumber Technical Services.

6. Bearing length (Min Bearing) based on allowable stress of support material (Bearing Stress); support material capacity shall be verified (by others).

7. When required by the building code, a registered design professional or building official should verify the input loads and product application.

8. Company, product or brand names referenced are trademarks or registered trademarks of their respective owners.

9. Allowable upward deflection for cantilever is the greater of 0.20" or the cantilever span (inches) multiplied by 2 and divided by the factor shown in Max Deflection (located above beam drawing).

10. Load Combinations: 10= D, 20= D + 100%, 30= D + 115%, 40= D + 125%, 50= D + 160%, 60= D + 0.75(100%+115%), 70= D + 0.75(100%+125%), 80= D + 0.75(100%+125%), 100= 0.6D + 160%, 110= D + Commercial (100%), 120= D + 0.75(100%+160%) 11. Group = Load Combination Number + Load Pattern number. (For simple span, Load pattern = 1 for LL, 0 for DL).