] i	sDesign	-	inclair (190320B) inclair (190320B)		Job	ut by: C Name: G oject #:	hristine Shivy DH			
SDH	Kerto-S LVL	1.750" X	14.000" 2	2-Ply - P			: Level			
		2								
• •				• •	•	• •	• •	• •	•	m T
•	C. Martin		1000	1000	·** ·	1	· · · · ·		-	1'2"
1 SPF Er	nd Grain						2 \$	SPF End Grai	 n	
/			18'10)"						3 1/2"
•			18'10	0"					\neg	
mborla	nformation				Depation		TERNED Ib (Up	1:#+)		
ype:	Girder	Applicatio	n: Floor		Brg	Live	• •	,	Wind	Const
lies: loisturo Cor	2 ndition: Dry	Design Me Building C			1	0		377	0	0
eflection LL	•	Load Shar			2	0	2598	377	0	0
eflection TL	.: 360	Deck:	Not Checke	d						
nportance:	Normal									
emperature	: Temp <= 100°F				Bearings					
					Bearing	Lenath	Cap. React D/L	lb Total	Ld. Case	Ld. Comb.
					1 - SPF	Ũ	28% 2598 / 3		L	D+S
alysis Re	esults				End Grain					
nalysis		ation Allowed	Capacity Comb.	Case	2 - SPF	3.500"	28% 2598 / 3	77 2975	L	D+S
loment	11644 ft-lb	9'5" 24299 ft-lb	0.479 (48%) D	Uniform	End Grain					
Inbraced	13332 ft-lb	9'5" 13339 ft-lb	0.999 D+S (100%)	L						
hear	2213 lb 1	4 3/4" 9408 lb	0.235 (24%) D	Uniform						
L Defl inch	0.068 (L/3239) 9'5	1/16" 0.459 (L/480)	0.150 (15%) S	L						
L Defl inch	n 0.538 (L/410) 9'5	1/16" 0.612 (L/360)	0.880 (88%) D+S	L	ļ					
esign No					ļ					
Fasten all to exceed	plies using 3 rows of 10d 6".	Box nails (.128x3") at	12" o.c. Maximum end	distance not						
	ast page of calculations fo									
	e designed to be supporte must be supported equal	•	oniy.							
	be laterally braced at a m	aximum of 7'8 5/8" o.c.								
	aced at bearings. enderness ratio based on	single ply width.								
)	Load Type	Location Tr	ib Width Side	Dead 0.9	Live 1	Snow 1.	15 Wind 1.6 C	onst. 1.25	Comment	ts
	Uniform		Тор	225 PLF	0 PLF	0 P	LF 0 PLF	0 PLF	Exterior Si	ding / Plywood
	Uniform		Тор	40 PLF	0 PLF	40 P	LF 0 PLF	0 PLF	2'0" Roof L	oad
	Self Weight			11 PLF						
						Man	ufacturer Info		mtech, Inc.	
otes Iculated Structure	d Designs is responsible only of the		ро	r flat roofs provide p nding	roper drainage to p	Mets	ä Wood	100 Faj	01 S. Reilly Road, yetteville, NC	, Suite #639
sign criteria ar	of this component based on the nd loadings shown. It is the customer and/or the contractor to	1. LVL beams must not be cut o 2. Refer to manufacturer's regarding installation re	product information			Norv	Merritt 7 Building, 2nd F /alk, CT 06851	20.	SA 314 0-864-TRUS	
sure the compo plication, and to ve	erify the dimensions and loads.	regarding installation re fastening details, beam stre approvals	ngth values, and code			(800) 622-5850 .metsawood.com/us	31		
umber		3. Damaged Beams must not be					ES: ESR-3633			
	litions, unless noted otherwise	 Design assumes top edge is Provide lateral support at b 								птесн