Customer:				Job Name: Hall 2024-SAN-075 Level: 1st Floor Label: FBM3 - i14					Status:		
Street 1:			2.1 Rigi					dLam	SP LVL 1-	3/4 Design	
MiTek City: Customer Ph				Type: Beam					x ′	14	Passed
Illustration Nat to Scale Ditch: 0/12 Designed by Single Mem					ber Design Engine in MiTek® Structure Version					0004 00 00	04/00/0005 40:50
Illustration Not to S		8.7.2.270.Up	odate13.8	Siluciu		Керс	in versioi	n: 2021.03.26	01/28/2025 12:53		
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DESIC		ANALY	SIS RESU	LTS							
Building Code: IRC 2018		De	Design Criteria		ation L	oad Combination		DF Desi	gn	Limit	Result
Design Methodolog	jy: ASD	Max Pos.	. Moment:	2'- 3	7/16"	D + L	. 1.	00 1848	ib ft	28640 lb ft	Passed - 6%
Risk Category:	II (General Construction) Residential	Max Neg	. Moment:	5'- 9	9 1/2"	D + L	. 1.	00 213 l	o ft	28640 lb ft	Passed - 1%
Service Condition:	Condition: Dry		ar:	4'-6	6 1/2" 1 7/9"	D + L	. 1.	00 1053	lb o"	9473 lb	Passed - 11%
LL Deflection Limit:	ection Limit: L/360, 0.75" (absolute)		d (TL) Pos. Di d (TL) Pos. D	Defl.: 2'- 11 7/8" Defl : 2'- 11 13/16"		L D+L		0.01	J 3"	L/360 L/240	Passed - L/999 Passed - L/999
TE Dellection Limit.	L/240, 1.00 (absolute)	SUPPORT AND REACTION INFORMATION									
Lateral Restraint I		Input	Controlling	Load	Dowr	nward U	plift Re	sistance	Resistance	Popult	
Both ends of the member and the outer supports must be laterally restrained. Top and bottom edges			_ength	Combina	ition L	Rea	ction Rea	action of	Member	of Support	Result
of the member must be fully restrained or have the		1	3-08	D + L	. 1.	00 108	86 lb	ę	)187 lb	5206 lb	Passed - 21%
Top: 0'	Bottom: 1'- 8"	2	11-04	D + L	. 1.	00 206	64 lb	2	9531 lb	16734 lb	Passed - 12%
		LUADI	NG Start Loc	Endloc	Source	Face	Dead (D)	Live (L)	Sno	w (S) Roof Liv	(Lr) Wind (W)
Bearing Stress of Support Material:		Self	0'	6'- 7 3/4"	Self Weight	Top	13 lb/ft	Live (L)	01101		-
<ul> <li>425 psi Wall @ 0'- 2 1/2"</li> <li>425 psi Wall @ 5'- 9 1/2"</li> </ul>		Weight	Ū	0 1 0/4	FC1 Floor	100	10 15/1				
	0-0 112	Uniform	6'	6'- 7 3/4"	Decking (Plan View Fill)	Тор	3 lb/ft	12 lb/ft			-
		Point Point	0'- 5 1/4" 2'- 3 7/16"	0'- 5 1/4" 2'- 3 7/16"	1F04(c03) 1F04(c02)	Front Front	-31 lb -54 lb	83/-48 lb 110 lb			-
		Point	4'- 1/2"	4'- 1/2"	1F04(c01)	Front	-68 lb	63 lb		- 0 lk	) 1/0 lb
		Point Point	2' 4'	2' 4'	1F02(c09) 1F02(c08)	Back Back	265 lb 265 lb	710 lb 710 lb		 - 0.lt	- 0/-1 lb
		Point	6'	6'	1F02(c07)	Back	265 lb	710 lb		- 0 lk	0 lb
		UNFAC	Stored RI	EACTIONS	Course		Deed (D)	Live (L)	- Cree	w (C) Deef Liv	
		1	O'	0'- 3 1/2"	E7(i6	)	201 lb	840/-48 lb	510		0 lb/ 0 lb
		2	5'- 8 1/2"	6'- 7 3/4"	3(i9)	, 	529 lb	1554 lb			0 lb/ 0 lb
		DESIG	N NOTES								
		ad loads use	d in the desig	gn of this mem	ber were a	applied to the	structure as	projected	dead loads.		
Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.								us may have			
		Tributa     default	ry Loads hav svstem spac	e been gene ing. The ac	rated based or tual loads app	n actual sp lied to the	acing betwee member are s	n members i shown in the	n the moo Specified	del which may d Loads table.	iffer from the
		Transfe	er reactions n	nay differ fror	n design resul	ts as allow	ved per buildin	g codes and	standard	l load distribution	n practices.
		I his re referen	port is based ice only. Veri	on modeled fy that all loa	conditions inp	ut by the u t condition	iser. Source i is are correct.	nformation to	or the load	ds and supports	are provided for
		Review     specifie	/ all loads and ed on this rep	d reactions to	o ensure that the ensure that the second s	ne membe	r/bearing/conr	nector/structor v others Ins	ire can re	esist adequately.	Unless already accessories (if
required) as per manufa					instruction.			,			
		• Beam			e calculation fo	or Allowable	e Max Pos Mo	oment (CL) =	1.00	_	
PLY TO PLY CON			ONNECTION								
4 times depth of me			f member. Verify connection between plies according to code specification and follow the manufacturer's								
installation instru				on. Loads as	sumed to be d	listributed	equally to eac	h ply.			
1		11									