



Checked by:: Drawing Nu... Scale:: NTS

CUSTOMER:

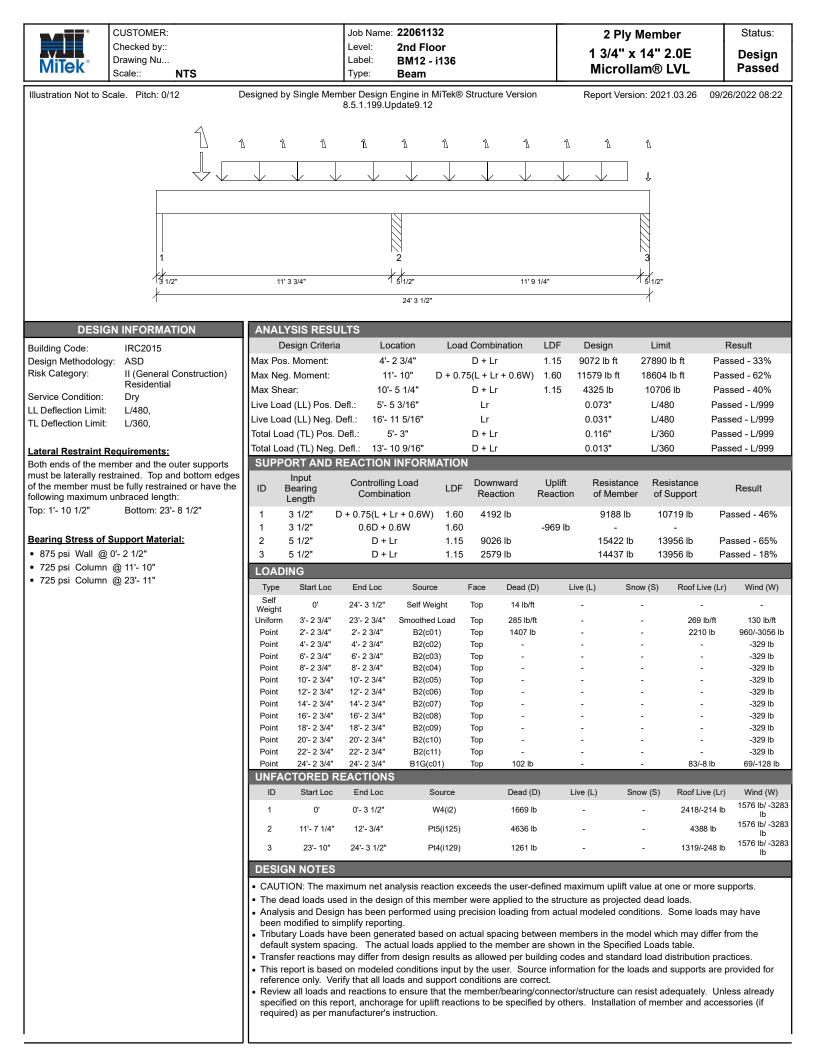
DESIGN NOTES

- Tributary Loads have been generated based on actual spacing between members in the model which may differ from the default system spacing. The actual loads applied to the member are shown in the Specified Loads table.
- Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.
- This report is based on modeled conditions input by the user. Source information for the loads and supports are provided for reference only. Verify that all loads and support conditions are correct.
- Review all loads and reactions to ensure that the member/bearing/connector/structure can resist adequately. Unless already specified on this report, anchorage for uplift reactions to be specified by others. Installation of member and accessories (if required) as per manufacturer's instruction.

PLY TO PLY CONNECTION

• Member design assumed proper ply to ply connection by others. Fastener spacing along length of member must not exceed 4 times depth of member. Verify connection between plies according to code specification and follow the manufacturer's installation instruction. Loads assumed to be distributed equally to each ply.

MiTek*	CUSTOMER: Checked by:: Drawing Nu Scale:: NTS				Job Name Level: Label: Type:	22061132 2nd Floor BM11 - i135 Beam				1 3/4" x	Member 14" 2.0E am® LVL		Status: Design Passed
Illustration Not to S	cale. Pitch: 0/12	[Designed by	v Single Merr	ber Design 8.5.1.199.U	Engine in MiTek pdate9.12	B Structu	ire Version		Report Versi	on: 2021.03.26	09/26/2	2022 08:22
		1 L	1	Ţ	1			1		Π	1		
	1 2"					23' 1" 23' 5"					2 2 2 2		
DESIG	IN INFORMATION		ANALY	'SIS RESU	LTS								
Building Code: Design Methodolog Risk Category: Service Condition: LL Deflection Limit: TL Deflection Limit:	IRC2015 y: ASD II (General Construc Residential Dry L/480, L/360,	tion)	Max Pos. Max Neg Max Shea Live Load	esign Criteria . Moment: . Moment: ar: d (LL) Pos. D d (TL) Pos. I	-11'- 15'- 1 efl.: 11'-	8 7/16"	ad Comb D + L 0.6D + 0 D + L Lr D + L	.r 1.6W .r	LDF 1.15 1.60 1.15	Design 8061 lb ft 239 lb ft 1300 lb 0.240" 0.499"	Limit 18094 lb ft 18818 lb ft 10706 lb L/480 L/360	Passe Passe Passe Passe	sult ed - 45% ed - 1% ed - 12% d - L/999 d - L/554
Lateral Restraint F	Requirements:			Input	Controlling		Daw	nward	Uplift	Resistance	e Resistance		-
Both ends of the member and the outer supports must be laterally restrained. Top and bottom edges of the member must be fully restrained or have the		ID Bearing Length 1 2"		Combin D + I	ation	LDF Reaction		Reaction	of Member 5250 lb			Result sed - 28%	
following maximum Top: 23'- 5"			1 2 2	1 2" 2 2"		0.6W 1.6 Lr 1.1	1.60 1.15 1314 lb 1.60		-69 lb -55 lb	5250 lb -	5075 lb - -		sed - 26%
Bearing Stress of 725 psi Column			LOADI								_		
725 psi Column	0		Type Self Weight	Start Loc 0'	End Loc 23'- 5"	Source Self Weight	Face Top	Dead (D) 14 lb/ft) Li	/e (L) Sn -	ow (S) Roof Li	ive (Lr)	Wind (W)
			Uniform Point Point Point Point Point Point Point Point	12'- 8 1/2" 0'- 1/4" 1'- 8 1/2" 3'- 8 1/2" 5'- 8 1/2" 7'- 8 1/2" 9'- 8 1/2" 11'- 8 7/16" 13'- 8 1/2"	18'- 8 1/2" 0'- 1/4" 1'- 8 1/2" 3'- 8 1/2" 5'- 8 1/2" 7'- 8 1/2" 9'- 8 1/2" 11'- 8 7/16" 13'- 8 1/2"	Smoothed Load B1G(c01) B1G(c01) B1G(c01) B1G(c01) B1G(c01) B1G(c01) B1G(c01) B1G(c01)	Тор Тор Тор Тор Тор Тор Тор Тор	- 48 lb 114 lb 82 lb 91 lb 88 lb 91 lb 116 lb 92 lb		- - - - - - -	- 55 I - 37/- - 121 - 100 - 112 - 100 - 100 - 100 - 134	4 lb 1 lb 3 lb 2 lb 3 lb 3 lb	- 32/-61 lb 60/-144 lb 54/-115 lb 60/-131 lb 58/-126 lb 63/-135 lb 42/-131 lb 63/-135 lb
			Point Point	15'- 8 1/2" 17'- 8 1/2" 10'- 8 1/2"	15'- 8 1/2" 17'- 8 1/2"	B1G(c01) B1G(c01)	Top Top Top	88 lb 91 lb		-			58/-126 lb 60/-131 lb
			Point Point	19'- 8 1/2" 21'- 8 1/2" CTORED R	19'- 8 1/2" 21'- 8 1/2" EACTIONS	B1G(c01) B1G(c01)	Тор Тор	83 lb 111 lb			- 109 - 118		54/-116 lb 58/-141 lb
			ID 1 2	Start Loc 0' 23'- 3"	EACTION End Loc 0'- 2" 23'- 5"	Source Pt1(i144 Pt4(i129	,	Dead (D 740 lb 690 lb	,	ve (L) Sn - -		-4 lb	Wind (W) 437 lb/ -855 lb 437 lb/ -855 lb
			The de Analysis been m Tributa default Transfe This re referen Review specific require PLY TO Membe 4 times	is and Design nodified to sin ry Loads have system space er reactions r port is based cce only. Ver v all loads an ed on this rep d) as per ma D PLY CON er design ass a depth of me	n has been p mplify report ve been gene cing. The ad on modeled ify that all lo d reactions t port, anchors nufacturer's NECTION undel prope ember. Verify	ing. erated based on ctual loads applii om design results d conditions inpu- ads and support to ensure that the age for uplift read- instruction.	precision actual sp ed to the s as allow it by the i condition e member ctions to ection by ween plie	n loading fr pacing betw member a ved per bui user. Sour- ns are corre r/bearing/o be specifie	om actual ween men re shown ilding code ce inform: ect. connector. d by other astener sp ng to code	modeled conc nbers in the mo in the Specifie es and standar ation for the loa /structure can in rs. Installation	ditions. Some lo odel which may o	differ fror on practic s are pro y. Unless accesso	n the ces. vided for s already ries (if t exceed



	CUSTOMER:		Job Name:	22061132	2 Ply Member	Status:		
MiTek [®]	Checked by::		Level:	2nd Floor	1 3/4" x 14" 2.0E	Design		
	Drawing Nu		Label:	BM12 - i136				
INITEK	Scale::	NTS	Туре:	Beam	Microllam® LVL	Passed		

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