	Customer: Street 1: City: Customer Ph			Job Name: Olaniyi 2024-SAN-071 Level: 1st Floor Label: 1FB2 - Type: Beam				2.1	2 Ply Member 2.1 RigidLam SP LVL 1-3/4 x 16			Status: Design Passed
Illustration Not to S		Designed by Single	- Mem		-) Structu	ire Version			sion: 2021.0	3.26 0.2/	20/2025 14:43
			2' 11'	8.7.2.270.Up " 4' 11 B 6' 5 1/2" 8' 11 '		8 ↓ ↓ 2 2'2 1/2"	' 11" Ply to Ply	Zones				
	GN INFORMATION				otion Loc	d Comb	inction		Design	Limit	-	Popult
Building Code: Design Methodolog	IRC 2018 av: ASD	Design C Max Pos. Mome			ation Loa 1 7/8"	ad Comb D + I		LDF 1.00	Design 542 lb ft	Limit 36421 lb	ft P:	Result assed - 1%
Risk Category:	II (General Construction)	Max Neg. Mom			0 1/2"	D + I		1.00	695 lb ft	36421 lb		assed - 2%
Service Condition:	Residential Dry	Max Shear:			- 5"	D + I	L	1.00	413 lb	10827 lb	D Pa	assed - 4%
LL Deflection Limit: TL Deflection Limit:	, , , , , , , , , , , , , , , , , , , ,	SUPPORT A Input ID Bearing Length	1	EACTION Controlling Combina		_ Dow	nward action I	Uplift Reaction	Resistan of Memb			Result
Lateral Restraint I	Requirements: ember and the outer supports	1 3 1/2"		D + L			60 lb		9188 lb			Passed - 7%
must be laterally re	strained. Top and bottom edge			D + L D + L			41 lb 3 lb		55125 II 14437 II			Passed - 4% Passed - 1%
of the member must be fully restrained or have the following maximum unbraced length:		2 5 1/2"		D + L			515	-302 lb	-	-		assed - 170
Тор: 0'	Bottom: 4'- 11"	LOADING										
Bearing Stress of	Support Material:	Type Start	Loc	End Loc	Source	Face	Dead (D)	Li	ve (L) S	now (S)	Roof Live (Lr) Wind (W)
425 psi Wall @		Self Weight)'	8'- 11 1/2"	Self Weight	Тор	15 lb/ft		-	-	-	-
 425 psi Wall @ 425 psi Wall @ 		Uniform C Uniform 0'- 3		8'- 11 1/2" 3'- 10 3/4"	FC1 Floor Decking (Plan View Fill) FC1 Floor Decking (Plan	Тор	10 lb/ft 8 lb/ft		0 lb/ft 3 lb/ft	-	-	-
		Uniform 3'- 10		8'- 11 1/2"	View Fill) FC1 Floor Decking (Plan View Fill)	Тор Тор	18 lb/ft		1 lb/ft		-	-
		Point 3'- 10		3'- 10 3/4"	1FB3()	Back	52 lb	7	74 lb	-	-	-
		UNFACTOR				-						
			t Loc)'	End Loc 0'- 3 1/2"	Source 1(i7)		Dead (D) 112 lb		ive (L) 8 10/-2 lb	Snow (S) I	Roof Live (Lr -) Wind (W)
		11	9"	8'- 11 1/2"	13(i42)		345/-63 lk	o 7	754 lb	-	-	-
			0 1/2" 10"	6'- 10 1/2" 8'- 10"	13(i42) 13(i42)		345 lb -63 lb		637 lb 117 lb	-	-	-
		DESIGN NO	TES									
		 The dead loads used in the design of this member were 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. 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. Beam Stability Factor used in the calculation for Allowable Max Pos Moment (CL) = 1.00 PLY TO PLY CONNECTION Zone A: Factored load = 0 plf. Use 12d (0.131"x3.25") nails. LDF = 1.00. Qty = 21. Row = 3, Spacing = 12" Zone B: Factored load = 86 plf. Use 12d (0.131"x3.25") nails. LDF = 1.00. Qty = 9. Row = 3, Spacing = 12" 12d (0.131"x3.25") nails properties: D = 0.131", L = 3.25". Fastener capacity = 105 lbs. X1 = 2", Y1 = 0.75", Y2 = 1.5" Install fasteners from one face. X1 = Minimum end distance, X2 = Minimum edge distance, Y2 = Minimum row spacing. 										

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PLY TO PLY CONNECTION

FASTENER INSTALLATION - 3 ROWS (FROM ONE FACE)

