

Customer Ph.

Job Name: **B**

Level: 1st FLOOR
Label: GDH - i202
Type: Beam

2 Ply Member 2.0 RigidLam DF LVL 1-3/4 x 14 Status:

Design
Passed

DESIGN INFORMATION a

Building Code: IRC 2021 Design Methodology: ASD

Risk Category: II (General Construction)

Residential

Service Condition: Dry System Spacing: -

LL Deflection Limit: L/360, 0.75" (absolute)
TL Deflection Limit: L/240, 1.00" (absolute)

Lateral Restraint Requirements:

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 following maximum unbraced length:

Top: 22'- 3 1/2" Bottom: 32'- 5"

Bearing Stress of Support Material:

- 725 psi Wall @ 0'- 1 1/2"
- 725 psi Wall @ 2'- 7"
- 725 psi Wall @ 11'- 10"
- 725 psi Wall @ 13'- 7"
- 725 psi Wall @ 29'- 10"
- 725 psi Wall @ 32'- 3 1/2"

ANALYSIS RESULTS						
Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Max Pos. Moment:	9'- 10 1/2"	D + 0.75(L + Lr + 0.6W)	1.60	5389 lb ft	20679 lb ft	Passed - 26%
Max Neg. Moment:	11'- 10"	D + 0.75(L + Lr + 0.6W)	1.60	10494 lb ft	14455 lb ft	Passed - 73%
Max Shear:	10'- 6 1/2"	D + 0.75(L + Lr)	1.15	7745 lb	10894 lb	Passed - 71%
Live Load (LL) Pos. Defl.:	7'- 8 15/16"	0.75(L + Lr + 0.6W)		0.021"	L/360	Passed - L/999
Total Load (TL) Pos. Defl.:	7'- 8 9/16"	D + 0.75(L + Lr + 0.6W)		0.038"	L/240	Passed - L/999

SUP	PORT ANI	D REACTION INFORMA	AHON					
ID	Input Bearing Length	Controlling Load Combination	LDF	Downward Reaction	Uplift Reaction	Resistance of Member	Resistance of Support	Result
1	8-00	0.6D + 0.6W	1.60	3 lb		29217 lb	20300 lb	Passed - 0%
1	8-00	D + 0.75(L + Lr)	1.15		-2051 lb	-	-	
1	1-09-00	D + 0.75(L + Lr)	1.15	6207 lb		55125 lb	53288 lb	Passed - 12%
1	1-09-00	0.6D + 0.6W	1.60		-215 lb	-	-	
2	1-05-08	D + 0.75(L + Lr)	1.15	13271 lb		45938 lb	44406 lb	Passed - 30%
2	6-08	D + 0.75(L + Lr + 0.6W)	1.60	692 lb		17063 lb	16494 lb	Passed - 4%
2	6-08	D + 0.75(L + Lr + 0.6W)	1.60		-4989 lb	-	-	
3	1-09-00	D + 0.75(L + Lr)	1.15	2195 lb		55125 lb	53288 lb	Passed - 4%
3	1-09-00	0.6D + 0.6W	1.60		-186 lb	-	-	
3	10-08	0.6D + 0.6W	1.60	61 lb		38348 lb	26644 lb	Passed - 0%
3	10-08	D + 0.75(L + Lr)	1.15		-1045 lb	-	-	

LOADI	NG								
Туре	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Roof Live (Lr)	Wind (W)
Self Weight	0'	32'- 5"	Self Weight	Тор	13 lb/ft	-	-	-	-
Uniform	0'- 9 1/4"	6'- 9 1/4"	Smoothed Load	Top	254 lb/ft	139 lb/ft	106 lb/ft	201 lb/ft	92 lb/ft
Uniform	15'- 1 1/2"	21'- 1 1/2"	Smoothed Load	Top	-	30 lb/ft	-	-	-
Point	1'- 9 1/4"	1'- 9 1/4"	H1(c01)	Top	-	-	-	-	-572 lb
Point	3'- 9 1/4"	3'- 9 1/4"	H1(c04)	Top	-	-	-	-	-572 lb
Point	5'- 9 1/4"	5'- 9 1/4"	H1(c03)	Top	-	-	-	-	-572 lb
Point	7'- 9 1/4"	7'- 9 1/4"	H1(c02)	Top	517 lb	301 lb	219 lb	412 lb	189/-587 lb
Point	9'- 10 9/16"	9'- 10 9/16"	-	Top	3296 lb	3386/-2 lb	1160 lb	2484/-229 lb	725/-2216 lb
Point	12'- 1 1/2"	12'- 1 1/2"	C1GE(c01)	Top	140 lb	-5 lb	36 lb	68 lb	42/-137 lb
Point	14'- 1 1/2"	14'- 1 1/2"	C1GE(c01)	Top	107 lb	67 lb	40 lb	85/-10 lb	44/-149 lb
Point	16'- 1 1/2"	16'- 1 1/2"	C1GE(c01)	Тор	112 lb	-	48 lb	149/-51 lb	53/-179 lb
Point	18'- 1 1/2"	18'- 1 1/2"	C1GE(c01)	Тор	96 lb	-	30 lb	68/-10 lb	28/-107 lb
Point	20'- 1 1/2"	20'- 1 1/2"	C1GE(c01)	Тор	93 lb	-	27 lb	58/-6 lb	-92 lb
Point	22'- 1 1/2"	22'- 1 1/2"	C1GE(c01)	Top	109 lb	61 lb	43 lb	124/-39 lb	49/-152 lb
Point	24'- 1 1/2"	24'- 1 1/2"	C1GE(c01)	Top	102 lb	63 lb	44 lb	119/-33 lb	50/-167 lb
Point	26'- 1 1/2"	26'- 1 1/2"	C1GE(c01)	Top	133 lb	54 lb	38 lb	78 lb	45/-149 lb
Point	28'- 1 1/2"	28'- 1 1/2"	C1GE(c01)	Тор	96 lb	-3 lb	32 lb	76 lb	37/-122 lb
Point	30'- 1 1/2"	30'- 1 1/2"	C1GE(c01)	Тор	112 lb	-2 lb	58 lb	113 lb	69/-231 lb

Point	30 - 1 1/2	30 - 1 1/2	CTGE(COT)	юр	11210	-2 ID	ai oc	11310	69/-23 I ID
UNFA	CTORED R	EACTIONS							
ID	Start Loc	End Loc	Source		Dead (D)	Live (L)	Snow (S)	Roof Live (Lr)	Wind (W)
1	0'	2'- 8 1/2"	E36(i76)		1782 lb	1147 lb	691 lb	1445/-70 lb	773 lb/ -2469 lb
==>	0'- 1 1/2"	0'- 1 1/2"	E36(i76)		-	80 lb	-	114 lb	-
==>	2'- 7"	2'- 7"	E36(i76)		1782 lb	1067 lb	691 lb	1331/-70 lb	-
2	11'- 8 1/2"	13'- 8 1/2"	E35(i75)		6349/-1907 lb	7153/-3362 lb	2351/-808 lb	6589/-3195 lb	773 lb/ -2469 lb
==>	11'- 10"	11'- 10"	E35(i75)		6349 lb	6483/-386 lb	2351 lb	5516/-603 lb	-
==>	13'- 7"	13'- 7"	E35(i75)		-1907 lb	670/-2976 lb	-808 lb	1073/-2592 lb	-
3	29'- 8 1/2"	32'- 5"	E13(i7)		1240/-567 lb	461/-271 lb	374/-170 lb	959/-546 lb	773 lb/ -2469 lb
==>	29'- 10"	29'- 10"	E13(i7)		1240 lb	460/-6 lb	374 lb	884/-128 lb	-
==>	32'- 3 1/2"	32'- 3 1/2"	E13(i7)		-567 lb	1/-265 lb	-170 lb	75/-418 lb	-



Customer: Street 1: City: Customer Ph.. Job Name: **B**

Level: 1st FLOOR Label: GDH - i202 Type: Beam 2 Ply Member 2.0 RigidLam DF LVL 1-3/4 x 14

Design Passed

Status:

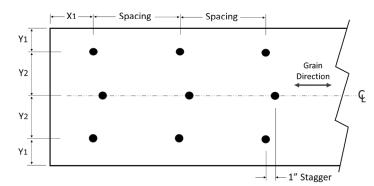
DESIGN NOTES

- CAUTION: The maximum net analysis reaction exceeds the user-defined maximum uplift value at one or more supports.
- 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) = 0.44
- Beam Stability Factor used in the calculation for Allowable Max Neg Moment (CL) = 0.31

PLY TO PLY CONNECTION

Zone A: Factored load = 0 plf. Use 12d (0.148"x3.25") nails. LDF = 1.00. Qty = 99. Row = 3, Spacing = 12"
 12d (0.148"x3.25") nails properties: D = 0.148", L = 3.25". Fastener capacity = 117 lbs. X1 = 2.25", Y1 = 0.75", Y2 = 1.5"
 Install fasteners from one face.

X1 = Minimum end distance, X2 = Minimum edge distance, Y2 = Minimum row spacing.





Customer Ph.

Job Name: **B**

Level: 1st FLOOR
Label: FB2-2 - i210
Type: Beam

2 Ply Member 2.0 RigidLam DF LVL 1-3/4 x 14

Report Version: 2023.09.18

Design Passed

Status:

04/10/2025 08:24

Illustration Not to Scale. Pitch: 0/12

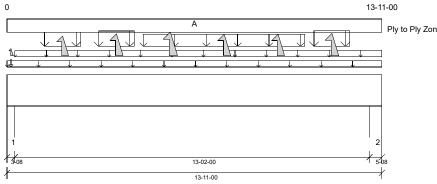
Designed by Single Member Design Engine in MiTek® Structure Version 8.7.3.303.Update13.26

8.7.3.303.Update13.26

13-11-00

A

Ply to Ply Zones



DESIGN INFORMATION a

Building Code: IRC 2021 Design Methodology: ASD

Risk Category: II (General Construction)

Residential

Service Condition: Dry System Spacing: -

Lateral Restraint Requirements:

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 following maximum unbraced length:

Top: 0' Bottom: 0'

Bearing Stress of Support Material:

- 425 psi Wall @ 0'- 2 1/2"
- 425 psi Wall @ 13'- 6 1/2"

ANALYSIS RESULTS						
Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Max Pos. Moment:	6'- 11"	D + Lr	1.15	16241 lb ft	33318 lb ft	Passed - 49%
Max Neg. Moment: Max Shear:	6'- 3/4"	0.6D + 0.6W	1.60	2247 lb ft	46355 lb ft	Passed - 5%
Max Shear:	1'- 5 1/2"	D + Lr	1.15	4130 lb	10894 lb	Passed - 38%
Live Load (LL) Pos. Defl.:	6'- 10 11/16"	0.75(L + Lr + 0.6W)		0.174"	L/360	Passed - L/907
Total Load (TL) Pos. Defl.:	6'- 10 5/8"	D + 0.75(L + Lr + 0.6W)		0.343"	L/240	Passed - L/460

SUF	PORTANL	REACTION INFORM	ATION					
ID	Input Controlling Load LC ID Bearing Combination LC Length		LDF	Downward Reaction	Uplift Reaction	Resistance of Member	Resistance of Support	Result
1	3-08	D + Lr	1.15	4402 lb		9188 lb	5206 lb	Passed - 85%
1	3-08	0.6D + 0.6W	1.60		-481 lb	-	-	
2	5-08	D + Lr	1.15	4674 lb		14438 lb	8181 lb	Passed - 57%
2	5-08	0.6D + 0.6W	1.60		-525 lb	-	-	
LO	ADING							

l	Туре	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Roof Live (Lr)	Wind (W)
l	Self Weight	0'	13'- 11"	Self Weight	Тор	13 lb/ft	-	-	-	-
l	Uniform	-0'	13'- 11"	FC1 Floor Decking (Plan View Fill)	Тор	10 lb/ft	40 lb/ft	-	-	-
l	Uniform	0'- 3 1/2"	13'- 11"	73(i154)	Тор	65 lb/ft	-	-	-	-
l	Uniform	1'- 4 3/4"	2'- 8 3/4"	73(i154)	Top	415 lb/ft	-	221 lb/ft	467 lb/ft	174 lb/ft
l	Uniform	3'- 4 3/4"	4'- 8 3/4"	73(i154)	Тор	446 lb/ft	-	255 lb/ft	540 lb/ft	174 lb/ft
l	Uniform	5'- 3/4"	11'- 3/4"	73(i154)	Top	297 lb/ft	-	158 lb/ft	356 lb/ft	126 lb/ft
l	Uniform	11'- 4 3/4"	12'- 8 3/4"	73(i154)	Top	462 lb/ft	-	255 lb/ft	557 lb/ft	218 lb/ft
l	Point	0'- 1 3/4"	0'- 1 3/4"	E47(i87)	Тор	83 lb	-	-	-6 lb	-58 lb
l	Point	2'- 3/4"	2'- 3/4"	73(i154)	Тор	-	-	-	-29 lb	-782 lb
l	Point	4'- 3/4"	4'- 3/4"	73(i154)	Top	-	-	-	-33 lb	-904 lb
l	Point	6'- 3/4"	6'- 3/4"	73(i154)	Top	-	-	-	-71 lb	-972 lb
l	Point	8'- 3/4"	8'- 3/4"	73(i154)	Top	-	-	-	-70 lb	-840 lb
l	Point	10'- 3/4"	10'- 3/4"	73(i154)	Top	-	-	-	-70 lb	-840 lb
l	Point	12'- 3/4"	12'- 3/4"	73(i154)	Тор	-	-	-	-64 lb	-902 lb

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UNFA	CTORED RE	EACTIONS						
ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Roof Live (Lr)	Wind (W)
1	0'	0'- 3 1/2"	E5(i8)	2368 lb	272 lb	935 lb	2035/-148 lb	1305 lb/ -3170 lb
2	13'- 5 1/2"	13'- 11"	74(i155)	2462 lb	279 lb	1000 lb	2210/-195 lb	1305 lb/ -3170 lb

DESIGN NOTES

- CAUTION: The maximum net analysis reaction exceeds the user-defined maximum uplift value at one or more supports.
- 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



Customer Ph..

Job Name: B

Level: 1st FLOOR Label: FB2-2 - i210 Type: Beam

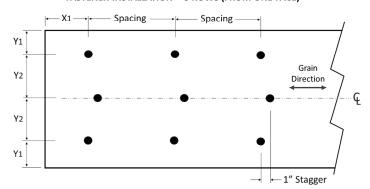
2 Ply Member 2.0 RigidLam DF LVL 1-3/4 x 14

Status: Design Passed

PLY TO PLY CONNECTION

• Zone A: Factored load = 0 plf. Use 12d (0.148"x3.25") nails. LDF = 1.00. Qty = 42. Row = 3, Spacing = 12" 12d (0.148"x3.25") nails properties: D = 0.148", L = 3.25". Fastener capacity = 117 lbs. X1 = 2.25", Y1 = 0.75", Y2 = 1.5" Install fasteners from one face.

X1 = Minimum end distance, X2 = Minimum edge distance, Y2 = Minimum row spacing.





Customer Ph.

Job Name: B

1st FLOOR Level: Label: FB3-2 - i212 Type: **Beam**

2 Ply Member 2.0 RigidLam DF LVL 1-3/4 x 14

Report Version: 2023.09.18

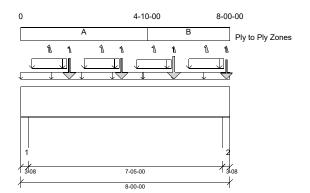
Resistance Resistance

Status: Design Passed

04/10/2025 08:24

Illustration Not to Scale. Pitch: 0/12

Designed by Single Member Design Engine in MiTek® Structure Version 8.7.3.303.Update13.26



Controlling Load

DESIGN INFORMATION a

Building Code: IRC 2021 Design Methodology: ASD

Risk Category: II (General Construction)

Residential

Service Condition: Drv System Spacing:

LL Deflection Limit: L/360, 0.75" (absolute) L/240, 1.00" (absolute) TL Deflection Limit:

Lateral Restraint Requirements:

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 following maximum unbraced length:

Bottom: 0' Top: 0'

Bearing Stress of Support Material:

- 425 psi Wall @ 0'- 2 1/2"
- 425 psi Wall @ 7'- 9 1/2"

ANALYSIS RESULTS											
Design Criteria	Location	Load Combination	LDF	Design	Limit	Result					
Max Pos. Moment:	3'- 10 1/4"	D + L	1.00	5830 lb ft	28972 lb ft	Passed - 20%					
Max Shear:	1'- 5 1/2"	D + L	1.00	2381 lb	9473 lb	Passed - 25%					
Live Load (LL) Pos. Defl.:	3'- 11 3/4"	L		0.017"	L/360	Passed - L/999					
Total Load (TL) Pos. Defl.:	otal Load (TL) Pos. Defl.: 3'- 11 15/16" D + L 0.036" L/240 Passed - L/999										
SUPPORT AND REACTION INFORMATION											

Uplift

IDE Downward

ID	Bearing Length	Combinat	tion	Rea	ction	Reaction	of Member	of Support	Result
1	3-08	D+L	1.	00 255	58 lb		9188 lb	5206 lb	Passed - 49%
2	3-08	D + L	1.	00 369	96 lb		9187 lb	5206 lb	Passed - 71%
LOAD	ING								
Type	Start Loc	End Loc	Source	Face	Dead (D) Live (L) Snow (S	S) Roof Live (I	r) Wind (W)
Self Weight	0'	8'	Self Weight	Тор	13 lb/ft	-	-	-	-
Uniform	0'	8'	E47(i87)	Top	65 lb/ft	-	-	-	-
Uniform	0'- 5 1/8"	1'- 9 1/8"	E47(i87)	Top	62 lb/ft	-	33 lb/fr	t 68 lb/ft	40 lb/ft
Uniform	2'- 5 1/8"	3'- 9 1/8"	E47(i87)	Top	60 lb/ft	-	32 lb/f	t 68 lb/ft	41 lb/ft
Uniform	4'- 5 1/8"	5'- 9 1/8"	E47(i87)	Top	52 lb/ft	-	23 lb/fr	t 50 lb/ft	14 lb/ft
Uniform	6'- 5 1/8"	7'- 9 1/8"	E47(i87)	Top	59 lb/ft	-	31 lb/fr	t 66 lb/ft	38 lb/ft
Point	1'- 10 5/16"	1'- 10 5/16"	-	Front	523 lb	767 I	b 15 lb	34/-12 lb	12/-28 lb
Point	3'- 10 5/16"	3'- 10 5/16"	-	Front	531 lb	767 I	b 15 lb	34/-12 lb	12/-28 lb
Point	5'- 10 5/16"	5'- 10 5/16"	-	Front	715 lb	767 I	b 15 lb	33/-12 lb	11/-27 lb
Point	7'- 10 3/8"	7'- 10 3/8"	-	Front	401 lb	767 I	b 19 lb	39/-1 lb	21/-71 lb
Point	1'- 1 1/8"	1'- 1 1/8"	E47(i87)	Top	-	-	-	-	-171 lb
Point	3'- 1 1/8"	3'- 1 1/8"	E47(i87)	Top	-	-	-	-	-169 lb
Point	5'- 1 1/8"	5'- 1 1/8"	E47(i87)	Top	-	-	-	-	-117 lb
Point	7'- 1 1/8"	7'- 1 1/8"	E47(i87)	Тор	-	-	-	-	-158 lb
UNFA	CTORED R	EACTIONS							
ID	Start Loc	End Loc	Source	;	Dead (D) Live	(L) Snow (S) Roof Live (L	r) Wind (W)
1	0'	0'- 3 1/2"	E2(i29))	1397 lb	1223	lb 102 lb	219/-18 lb	107 lb/ -366 li
2	7'- 8 1/2"	8'	E4(i6)	1789 lb	1845	lb 119 lb	257/-19 lb	107 lb/ -366 lb
DESIG	N NOTES								

Input

- 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 = 741 plf. Use 12d (0.148"x3.25") nails. LDF = 1.00. Qty = 18. Row = 3, Spacing = 11" Zone B: Factored load = 943 plf. Use 12d (0.148"x3.25") nails. LDF = 1.00. Qty = 15. Row = 3, Spacing = 8" 12d (0.148"x3.25") nails properties: D = 0.148", L = 3.25". Fastener capacity = 117 lbs. X1 = 2.25", Y1 = 0.75", Y2 = 1.5" Install fasteners from one face.

X1 = Minimum end distance, X2 = Minimum edge distance, Y2 = Minimum row spacing.



Customer Ph...

Job Name: **B**

Level: 1st FLOOR
Label: FB3-2 - i212
Type: Beam

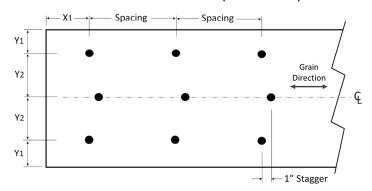
2 Ply Member 2.0 RigidLam DF LVL 1-3/4

x 14

Design Passed

Status:

PLY TO PLY CONNECTION





Customer Ph.

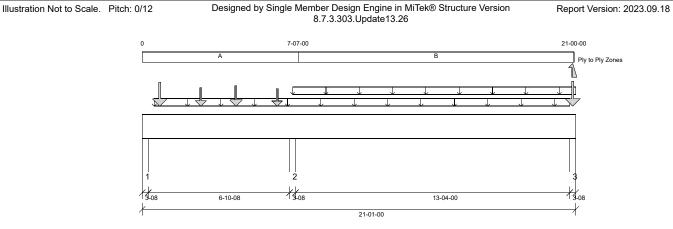
Job Name: **B**

Level: 1st FLOOR
Label: FB4-2 - i209
Type: Beam

2 Ply Member 2.0 RigidLam DF LVL 1-3/4 x 14 Status: Design

x 14 Passed

On Report Version: 2023.09.18 04/10/2025 08:24



DESIGN INFORMATION a

Building Code: IRC 2021 Design Methodology: ASD

Risk Category: II (General Construction)

Residential

Service Condition: Dry System Spacing: -

LL Deflection Limit: L/360, 0.75" (absolute)
TL Deflection Limit: L/240, 1.00" (absolute)

Lateral Restraint Requirements:

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 following maximum unbraced length:

Top: 0'- 3 1/2" Bottom: 0'

Bearing Stress of Support Material:

- 425 psi Wall @ 0'- 2 1/2"
- 425 psi Wall @ 7'- 3 3/4"
- 425 psi Wall @ 20'- 10 1/2"

ANALYSIS RESULTS						
Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Max Pos. Moment:	2'- 10 1/4"	D + L	1.00	3018 lb ft	28972 lb ft	Passed - 10%
Max Neg. Moment:	7'- 3 3/4"	D + L	1.00	3392 lb ft	28972 lb ft	Passed - 12%
Max Shear:	6'	D + L	1.00	2617 lb	9473 lb	Passed - 28%
Live Load (LL) Pos. Defl.:	3'- 7 3/4"	L		0.011"	L/360	Passed - L/999
Live Load (LL) Neg. Defl.:	13'- 9/16"	L		0.011"	L/360	Passed - L/999
Total Load (TL) Pos. Defl.:	14'- 10 1/2"	D + L		0.031"	L/240	Passed - L/999

ı	SUPI	PORT AND F	REACTION I	NFORMA	TION							
	ID	Input Bearing Length	Controlling Load Combination		LDF	Downward Reaction		Resista n of Mer		sistance Support	R	esult
ı	1	3-08	D+L		1.00	2300 lb		9187	'lb 5	5206 lb	Passe	ed - 44%
ı	2	3-08	D + L		1.00	3857 lb		10172	2 lb 5	5206 lb	Passe	ed - 74%
ı	3	3-08	D + 0.75(L	+ Lr)	1.15	1618 lb		9187	' lb 5	5206 lb	Passe	ed - 31%
ı	LOA	DING										
ı	Туре	Start Loc	End Loc	Source		Face De	ead (D)	Live (L)	Snow (S)	Roof Live	(Lr)	Wind (W)
1	Self											

Ш	Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Roof Live (Lr)	Wind (W)
	Self Weight	0'	21'- 1"	Self Weight	Тор	13 lb/ft	-	-	-	-
	Uniform	0'- 7"	20'- 9 1/2"	46(i98) FC1 Floor	Тор	65 lb/ft	-	-	-	-
	Uniform	7'- 3 3/4"	21'- 1"	Decking (Plan View Fill)	Тор	11 lb/ft	43 lb/ft	-	-	-
П	Point	0'- 10 1/4"	0'- 10 1/4"	FL7A(c01)	Back	703 lb	698 lb	-	-	-
П	Point	2'- 10 1/4"	2'- 10 1/4"	FL7A(c02)	Back	262 lb	708 lb	-	-	-
Ш	Point	4'- 6 3/4"	4'- 6 3/4"	FL7C(c02)	Back	326 lb	806 lb	-	-	-
Ш	Point	6'- 6 3/4"	6'- 6 3/4"	FL7C(c01)	Back	258 lb	617 lb	-	-	-
Ш	Point	20'- 11 1/4"	20'- 11 1/4"	E37(i79)	Тор	604 lb	-	239 lb	478/-26 lb	151/-550 lb
	UNFAC	CTORED R	EACTIONS	3						

-1	ONIA	STORED RE							
l	ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Roof Live (Lr)	Wind (W)
ı	1	0'	0'- 3 1/2"	28(i68)	997 lb	1365/-91 lb	-	-	-
ı	2	7'- 2"	7'- 5 1/2"	82(i184)	1835 lb	1955 lb	-	-	-
ı	3	20'- 9 1/2"	21'- 1"	E11(i17)	1070 lb	252/-61 lb	239 lb	478/-26 lb	-

DESIGN NOTES

- 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 = 756 plf. Use 12d (0.148"x3.25") nails. LDF = 1.00. Qty = 27. Row = 3, Spacing = 11"
 Zone B: Factored load = 0 plf. Use 12d (0.148"x3.25") nails. LDF = 1.00. Qty = 42. Row = 3, Spacing = 12"
 12d (0.148"x3.25") nails properties: D = 0.148", L = 3.25". Fastener capacity = 117 lbs. X1 = 2.25", Y1 = 0.75", Y2 = 1.5"
 Install fasteners from one face.

X1 = Minimum end distance, X2 = Minimum edge distance, Y2 = Minimum row spacing.



Customer Ph..

Job Name: **B**

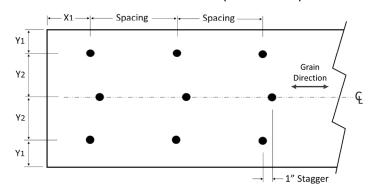
Level: 1st FLOOR Label: FB4-2 - i209 Type: Beam

2 Ply Member 2.0 RigidLam DF LVL 1-3/4

Design x 14 Passed

Status:

PLY TO PLY CONNECTION





Customer Ph.

Job Name: **B**

Level: 1st FLOOR
Label: FB7-2 - i211
Type: Beam

2 Ply Member 2.0 RigidLam DF LVL 1-3/4 x 14

Report Version: 2023.09.18

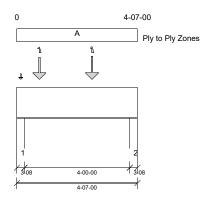
Design Passed

Status:

04/10/2025 08:24

Illustration Not to Scale. Pitch: 0/12

Designed by Single Member Design Engine in MiTek® Structure Version 8.7.3.303.Update13.26



DESIGN INFORMATION a

Building Code: IRC 2021 Design Methodology: ASD

Risk Category: II (General Construction)

Residential

Service Condition: Dry System Spacing: -

LL Deflection Limit: L/360, 0.75" (absolute)
TL Deflection Limit: L/240, 1.00" (absolute)

Lateral Restraint Requirements:

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 following maximum unbraced length:

Top: 0' Bottom: 0'

Bearing Stress of Support Material:

- 425 psi Wall @ 0'- 2 1/2"
- 425 psi Wall @ 4'- 4 1/2"

ANALYSIS RESULTS	5								
Design Criteria	Location	Load Combination	LDF	Design	Limit	Result			
Max Pos. Moment:	2'- 10 1/4"	D + L	1.00	1851 lb ft	28972 lb ft	Passed - 6%			
Max Shear:	1'- 5 1/2"	D + L	1.00	1821 lb	9473 lb	Passed - 19%			
SUPPORT AND REACTION INFORMATION									

SUPF	PORT AND F										
ID	Input Bearing Length	Controlling Load Combination)⊢			Resistance of Member	Resistance of Support	ı	Result	
1	3-08	D + L	1.0	00 185	58 lb		9187 lb	5206 lb	Pass	sed - 36%	
2	3-08	D + L	1.0	00 123	30 lb	9187 lb		5206 lb	Passed - 24%		
LOAD	DING										
Туре	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)) Snow	(S) Roof Liv	e (Lr)	Wind (W)	
Self Weight	0'	4'- 7"	Self Weight	Тор	13 lb/ft	-	-	-		-	
Point	0'- 10 1/4"	0'- 10 1/4"	_	Front	605 lb	871 lb	0/-1	lb 1/-1	lb	1/-1 lb	

	1 01111	0 10 1/4	0 10 1/4		1 10111	000 15	07 1 10	0/ 1/10	17 1 110	17 1 10	
l	Point	2'- 10 1/4"	2'- 10 1/4"	-	Front	677/-41 lb	893 lb	0/0 lb	1/0 lb	1/-1 lb	
ı	Point	0'- 1 3/4"	0'- 1 3/4"	47(i99)	Тор	19 lb	-	-	-	-	
UNFACTORED REACTIONS											
l	ID	Start Loc	End Loc	Source		Dead (D)	Live (L)	Snow (S)	Roof Live (Lr)	Wind (W)	
l	1	0'	0'- 3 1/2"	76(i161)		797 lb	1062 lb	-	1/-1 lb	1 lb/ 0 lb	
l	2	4'- 3 1/2"	4'- 7"	79(i166)		527 lb	702 lb	-	-	1 lb/ 0 lb	

DESIGN NOTES

- 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 = 654 plf. Use 12d (0.148"x3.25") nails. LDF = 1.00. Qty = 15. Row = 3, Spacing = 12"
12d (0.148"x3.25") nails properties: D = 0.148", L = 3.25". Fastener capacity = 117 lbs. X1 = 2.25", Y1 = 0.75", Y2 = 1.5"
Install fasteners from one face.

X1 = Minimum end distance, X2 = Minimum edge distance, Y2 = Minimum row spacing.



Customer: Street 1: City: Customer Ph.. Job Name: **B**

Level: 1st FLOOR
Label: FB7-2 - i211
Type: Beam

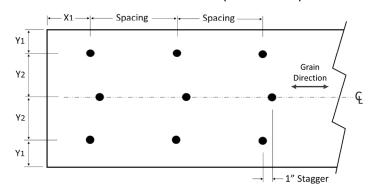
2 Ply Member 2.0 RigidLam DF LVL 1-3/4

x 14

Status:

Design
Passed

PLY TO PLY CONNECTION





Customer Ph.

Job Name: B

Level: 1st FLOOR
Label: FB8-2 - i187
Type: Beam

2 Ply Member 2.0 RigidLam DF LVL 1-3/4 x 18

Report Version: 2023.09.18

Resistance Resistance

Status:

Design
Passed

04/10/2025 08:24

Illustration Not to Scale. Pitch: 0/12 Designed by Single Member Design Engine in MiTek® Structure Version 8.7.3.303.Update13.26

> 17-10-08 18-06-00

SUPPORT AND REACTION INFORMATION

Controlling Load

Input

DESIGN INFORMATION a

Building Code: IRC 2021 Design Methodology: ASD

Risk Category: II (General Construction)

Residential

Service Condition: Dry System Spacing: -

LL Deflection Limit: L/360, 0.75" (absolute)
TL Deflection Limit: L/240, 1.00" (absolute)

Lateral Restraint Requirements:

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 following maximum unbraced length:

Top: 0' Bottom: 1'- 8 1/2"

Bearing Stress of Support Material:

- 1323 psi Wall @ 0'- 2 1/2"
- 1323 psi Wall @ 18'- 3"

ANALYSIS RESULTS						
Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Max Pos. Moment:	9'- 4 13/16"	D + L	1.00	24197 lb ft	46413 lb ft	Passed - 52%
Max Shear:	16'- 8"	D + L	1.00	5618 lb	12180 lb	Passed - 46%
Live Load (LL) Pos. Defl.:	9'- 1"	L		0.229"	L/360	Passed - L/938
Total Load (TL) Pos. Defl.:	9'- 2 1/8"	D + L		0.422"	L/240	Passed - L/508

Unlift

	Bearing Length	Combina		_	ction R	- 1		Support	Result
1	3-08	D + L	. 1.0	0 650	06 lb	91	88 lb 10	6207 lb Pa	assed - 71%
2	4-00	D + L	. 1.0	0 588	85 lb	105	500 lb 18	8522 lb Pa	assed - 56%
LOADI	NG								
Туре	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Roof Live (Lr)	Wind (W)
Self Weight	0'	18'- 6"	Self Weight	Тор	17 lb/ft	-	-	-	-
Uniform	-0'	18'- 6"	62(i118) FC1 Floor	Тор	65 lb/ft	-	-	-	-
Uniform	3'- 1/4"	18'- 6"	Decking (Plan View Fill)	Тор	-	9 lb/ft	-	-	-
Point	0'- 1 5/8"	0'- 1 5/8"	- ′	Back	383 lb	557 lb	3 lb	5/0 lb	1/-6 lb
Point	2'- 1 3/4"	2'- 1 3/4"	FL9A(c14)	Back	211 lb	557 lb	3 lb	5/0 lb	1/-6 lb
Point	4'- 1 3/4"	4'- 1 3/4"	FL9A(c05)	Back	211 lb	557 lb	3 lb	5/0 lb	1/-6 lb
Point	6'- 1 3/4"	6'- 1 3/4"	FL9A(c11)	Back	211 lb	557 lb	3 lb	5/0 lb	1/-6 lb
Point	8'- 1 3/4"	8'- 1 3/4"	FL9A(c15)	Back	330 lb	557 lb	3 lb	5/0 lb	1/-6 lb
Point	10'- 1 3/4"	10'- 1 3/4"	FL9A(c04)	Back	529 lb	557 lb	3 lb	5/0 lb	1/-6 lb
Point	12'- 1 3/4"	12'- 1 3/4"	FL9A(c08)	Back	245 lb	557 lb	3 lb	4/0 lb	1/-6 lb
Point	14'- 1 3/4"	14'- 1 3/4"	FL9A(c07)	Back	600 lb	557 lb	3 lb	4/0 lb	1/-4 lb
Point	16'- 1 3/4"	16'- 1 3/4"	FL9A(c17)	Back	415 lb	557 lb	1 lb	2/0 lb	1/-2 lb
Point	18'- 2 1/8"	18'- 2 1/8"	-	Back	446 lb	577 lb	1 lb	3/0 lb	1/-3 lb
Point	3'- 1/4"	3'- 1/4"	FB6-2(i179)	Тор	479 lb	1022/-133 lb	0 lb	0 lb	0 lb
UNFAC	CTORED R	EACTIONS							
ID	Start Loc	End Loc	Source		Dead (D)	Live (L)	Snow (S)	Roof Live (Lr)	Wind (W)
1	0'	0'- 3 1/2"	75(i158)		2750 lb	3760/-112 lb	15 lb	24/-1 lb	7 lb/ -34 lb
2	18'- 2"	18'- 6"	80(i167)		2860 lb	3023/-21 lb	11 lb	19/-1 lb	7 lb/ -34 lb

DESIGN NOTES

- The dead loads used in the design of this member were applied to the structure as projected dead loads.
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- 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 = 769 plf. Use 12d (0.148"x3.25") nails. LDF = 1.00. Qty = 69. Row = 3, Spacing = 10" 12d (0.148"x3.25") nails properties: D = 0.148", L = 3.25". Fastener capacity = 117 lbs. X1 = 2.25", Y1 = 0.75", Y2 = 1.5" Install fasteners from one face.
 - X1 = Minimum end distance, X2 = Minimum edge distance, Y2 = Minimum row spacing.



Customer: Street 1: City: Customer Ph..

Job Name: **B**

Level: 1st FLOOR Label: FB8-2 - i187 Type: Beam

2 Ply Member 2.0 RigidLam DF LVL 1-3/4

x 18

Status: Design Passed

PLY TO PLY CONNECTION

