

BRAD CUMMINGS CONSTRUC... Customer: Job Name: **KEANE RESIDENCE**

Appwright N... 3303534

Customer P.

Job Name: 3303534 KEANE

Beam

Level: 1st Floor Label: BM3-2 - i145

Type:

2 Ply Member 1-3/4X11-7/8 LP-LVL 2900Fb-2.0E

Status: Design Passed

Illustration Not to Scale. Pitch: 0/12 Designed by Single Member Design Engine in MiTek® Structure Version Report Version: 2021.03.26 12/29/2022 13:23 8.5.3.233.Update2.20 1 3 1/2" 12' 2 1/2" 3 1/2 12' 9 1/2"

DESIGN INFORMATION

Building Code: IRC 2018

Design Methodology: ASD Risk Category:

II (General Construction) Residential

Service Condition: Drv

L/360, 1.00" (absolute) LL Deflection Limit: TL Deflection Limit: L/240, 1.50" (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:

Bottom: 0'

Bearing Stress of Support Material:

• 725 psi Wall @ 0'- 2 1/2" • 725 psi Wall @ 12'- 7"

ANALYSIS RESULTS						
Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Max Pos. Moment:	6'- 4 3/4"	D + Lr	1.25	9979 lb ft	24875 lb ft	Passed - 40%
Max Shear:	11'- 6 1/8"	D + Lr	1.25	2669 lb	9871 lb	Passed - 27%
Live Load (LL) Pos. Defl.:	6'- 4 3/4"	Lr		0.189"	L/360	Passed - L/775
Total Load (TL) Pos. Defl.:	6'- 4 3/4"	D + Lr		0.290"	L/240	Passed - L/505
SUPPORT AND REACT	TION INFORM	MATION				

	ID	Bearing Length	Controlling I Combinati		-	nward action	Uplift Reaction	Resistance of Member	Resistance of Suppor	- F	Result
s	1	3 1/2"	D + Lr	1.25	333	38 lb		9187 lb	8881 lb	Pass	sed - 38%
9	2	3 1/2"	D + Lr	1.25	333	38 lb		9187 lb	8881 lb	Pass	sed - 38%
-	LOAD	ING									
	Туре	Start Loc	End Loc	Source	Face	Dead (D) Live	(L) Snov	v (S) Roof	Live (Lr)	Wind (W)
	Self Weight	0'	12'- 9 1/2"	Self Weight	Тор	12 lb/ft	-	-	-	-	-
١	Uniform	0'	12'- 9 1/2"	User Load	Тор	170 lb/f	t -	-	- 34	40 lb/ft	-
-	UNFA	CTORED R	EACTIONS								
	ID	Start Loc	End Loc	Source		Dead ([) Live	(L) Snov	w (S) Roof	Live (Lr)	Wind (W)
١	1	0'	0'- 3 1/2"	E15(i52)		1163 lb	-		- 2	174 lb	-
-	2	12'- 6"	12'- 9 1/2"	26(i84)		1163 lk	-		- 2	175 lb	-
- 1	DESIG	EN NOTES									

- The dead loads used in the design of this member were applied to the structure as sloped 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.
- The unbraced length used in this design was manually input by the user. Install lateral bracing to satisfy the unbraced lengths specified on this report.

PLY TO PLY CONNECTION



BRAD CUMMINGS CONSTRUC... Customer: Job Name: **KEANE RESIDENCE**

Appwright N... 3303534

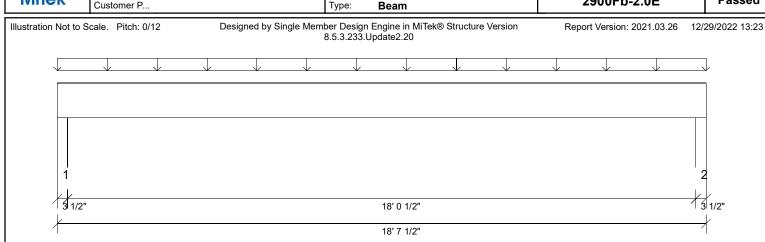
Customer P.

Job Name: 3303534 KEANE

Level: 1st Floor Label: BM2-2 - i133 Type:

2 Ply Member 1-3/4X11-7/8 LP-LVL 2900Fb-2.0E

Status: Design **Passed**



DESIGN INFORMATION

Building Code: IRC 2018 Design Methodology: ASD

Risk Category: II (General Construction)

Residential Service Condition: Drv

LL Deflection Limit: L/360, 1.00" (absolute) TL Deflection Limit: L/240, 1.50" (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:

Bottom: 0'

Bearing Stress of Support Material:

• 425 psi Wall @ 0'- 2 1/2" • 425 psi Wall @ 18'- 5"

ANALYSIS RESULTS						
Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Max Pos. Moment:	9'- 3 3/4"	D + L	1.00	4635 lb ft	19900 lb ft	Passed - 23%
Max Shear:	17'- 4 1/8"	D + L	1.00	899 lb	7897 lb	Passed - 11%
Live Load (LL) Pos. Defl.:	9'- 3 3/4"	L		0.130"	L/360	Passed - L/999
Total Load (TL) Pos. Defl.:	9'- 3 3/4"	D + L		0.292"	L/240	Passed - L/742
SUPPORT AND REACT	TION INFORM	MATION				

ID	Input Bearing Length	Controlling I Combinati			nward action	Uplift Reaction			Resistance of Support		Result
1	3 1/2"	D + L	1.00	10	42 lb		91	188 lb	5206 lb	Pas	ssed - 20%
2	3 1/2"	D + L	1.00	10	42 lb		91	188 lb	5206 lb	Pas	ssed - 20%
LOAD	DING										
Туре	Start Loc	End Loc	Source	Face	Dead (D) Live	e (L)	Snow (S	S) Roof Li	ve (Lr)	Wind (W)
Self Weight	0'	18'- 7 1/2"	Self Weight	Тор	12 lb/ft		-	-	-		-
Uniform	0'	18'- 7 1/2"	User Load	Top	50 lb/ft	50	lb/ft	-	-		-
UNFA	CTORED R	EACTIONS									
ID	Start Loc	End Loc	Source		Dead ([) Liv	e (L)	Snow (S	S) Roof Liv	ve (Lr)	Wind (W)
1	0'	0'- 3 1/2"	34(i94)		576 lb	46	6 lb	-		-	-
2	18'- 4"	18'- 7 1/2"	E15(i52)		576 lb	46	6 lb	-	-	-	-
DEGL	ON NOTES										

DESIGN NOTES

- The dead loads used in the design of this member were applied to the structure as sloped dead loads.
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- 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.
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PLY TO PLY CONNECTION



Appwright N... 3303534

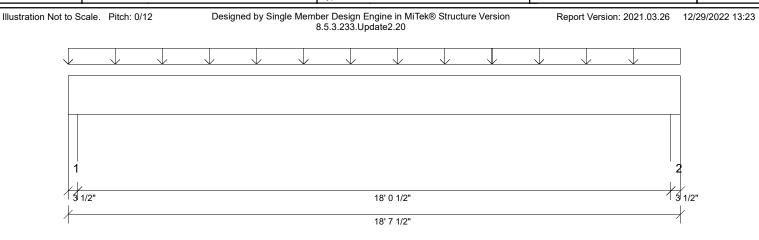
Customer P...

Job Name: **3303534_KEANE**Level: **1st Floor**

Label: **BM4-2 - i134** Type: **Beam**

2 Ply Member 1-3/4X14 LP-LVL 2900Fb-2.0E Status:

Design
Passed



DESIGN INFORMATION

Building Code: IRC 2018

Design Methodology: ASD

Risk Category: II (General Construction)
Residential

Service Condition: Dry

LL Deflection Limit: L/360, 1.00" (absolute)
TL Deflection Limit: L/240, 1.50" (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 @ 18'- 5"

ANALYSIS RESULTS						
Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Max Pos. Moment:	9'- 3 3/4"	D + L	1.00	10522 lb ft	27030 lb ft	Passed - 39%
Max Shear:	1'- 5 1/2"	D + L	1.00	1995 lb	9310 lb	Passed - 21%
Live Load (LL) Pos. Defl.:	9'- 3 3/4"	L		0.191"	L/360	Passed - L/999
Total Load (TL) Pos. Defl.:	9'- 3 3/4"	D + L		0.404"	L/240	Passed - L/535
SUPPORT AND REACT	TION INFORM	MATION				

		Input Bearing Length	Controlling Combinat			nward action	Uplift Reaction	Resistance of Member		sistance Support	Result
Ш	1	3 1/2"	D + L	1.0	0 23	66 lb		9188 lb	52	206 lb F	Passed - 45%
\prod	2	3 1/2"	D + L	1.0	0 23	66 lb		9188 lb	52	207 lb F	Passed - 45%
	LOADI	NG									
	Туре	Start Loc	End Loc	Source	Face	Dead (E	D) Live	e (L) Sn	ow (S)	Roof Live (Lr) Wind (W)
	Self Weight	0'	18'- 7 1/2"	Self Weight	Тор	14 lb/fi	t	-	-	-	-
ΙĿ	Jniform	0'	18'- 7 1/2"	User Load	Тор	120 lb/t	ft 120	lb/ft	-	-	-
	UNFAC	CTORED R	EACTIONS								
	ID	Start Loc	End Loc	Source		Dead (I	D) Liv	e (L) Sn	ow (S)	Roof Live (Lr) Wind (W)
IГ	1	0'	0'- 3 1/2"	30(i89)		1248 II	b 11°	18 lb	-	-	-
IL	2	18'- 4"	18'- 7 1/2"	E15(i52)		1248 II	b 11 ²	18 lb	-	-	-

DESIGN NOTES

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 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.
- The unbraced length used in this design was manually input by the user. Install lateral bracing to satisfy the unbraced lengths specified on this report.

PLY TO PLY CONNECTION



Appwright N... 3303534

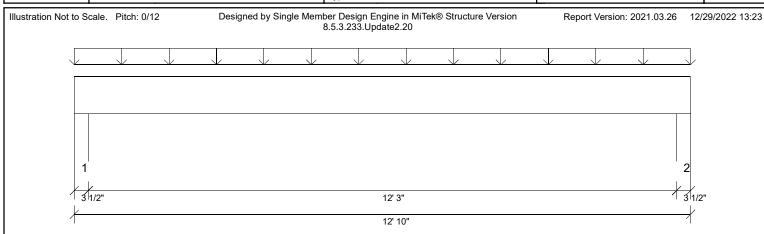
Customer P...

.. Job Name: 3303534_KEANE Level: 1st Floor

Label: **BM1-2 - i147** Type: **Beam**

2 Ply Member 1-3/4X9-1/4 LP-LVL 2900Fb-2.0E Status:

Design
Passed



DESIGN INFORMATION

Building Code: IRC 2018
Design Methodology: ASD

Risk Category: II (General Construction)

Residential

Service Condition: Dry
LL Deflection Limit: L/360, 1.00" (absolute)
TL Deflection Limit: L/240, 1.50" (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:

725 psi Wall @ 0'- 2 1/2"
725 psi Wall @ 12'- 7 1/2"

ANALYSIS RESULTS						
Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Max Pos. Moment:	6'- 5"	D + L	1.00	5087 lb ft	12416 lb ft	Passed - 41%
Max Shear:	1'- 3/4"	D + L	1.00	1415 lb	6151 lb	Passed - 23%
Live Load (LL) Pos. Defl.:	6'- 5"	L		0.203"	L/360	Passed - L/725
Total Load (TL) Pos. Defl.:	6'- 5"	D + L		0.315"	L/240	Passed - L/466
SUPPORT AND REACT	TION INFOR	MATION				

	ID	Input Bearing Length	Controlling Combina		DF		nward iction	Uplift Reaction		esistance Member	Resista of Supp		Result
l	1	3 1/2"	D + L	1	.00	169	96 lb			9188 lb	8881	b Pa	ssed - 19%
	2	3 1/2"	D + L	1	.00	169	96 lb			9187 lb	8881	b Pa	ssed - 19%
l	LOAD	ING											
l	Туре	Start Loc	End Loc	Source	F	ace	Dead (D) Liv	/e (L)	Snow (S) R	oof Live (Lr)	Wind (W)
l	Self Weight	0'	12'- 10"	Self Weight		Тор	9 lb/ft		-	-		-	-
l	Uniform	0'	12'- 10"	User Load		Тор	85 lb/ft	17	0 lb/ft	-		-	-
l	UNFA	CTORED RI	EACTIONS										
l	ID	Start Loc	End Loc	Sourc	е		Dead (D)) Li	ve (L)	Snow	(S) R	oof Live (Lr)	Wind (W)
l	1	0'	0'- 3 1/2"	E30(i6	3)		605 lb	10	091 lb	-		-	-
	2	12'- 6 1/2"	12'- 10"	E27(i6	60)		605 lb	10	091 lb	-		-	-
1													

DESIGN NOTES

- The dead loads used in the design of this member were applied to the structure as sloped dead loads.
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PLY TO PLY CONNECTION



Appwright N... 3303534

Customer P...

Job Name: 3303534_KEANE Level: 1st Floor

Label: **BM5-3 - i138** Type: **Beam**

3 Ply Member 1-3/4X18 LP-LVL 2900Fb-2.0E Status:

Design
Passed

Illustration Not to Scale. Pitch: 0/12 Designed by Single Member Design Engine in MiTek® Structure Version Report Version: 2021.03.26 12/29/2022 13:23 8.5.3.233.Update2.20

DESIGN INFORMATION

Building Code: IRC 2018
Design Methodology: ASD

Risk Category: II (General Construction)

Residential Service Condition: Dry

LL Deflection Limit: L/360, 1.00" (absolute)
TL Deflection Limit: L/240, 1.50" (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 @ 24'- 9 1/2"

ANALYSIS RESULTS						
Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Max Pos. Moment:	12'- 6"	D + L	1.00	43158 lb ft	64662 lb ft	Passed - 67%
Max Shear:	1'- 9 1/2"	D + L	1.00	5962 lb	17955 lb	Passed - 33%
Live Load (LL) Pos. Defl.:	12'- 6"	L		0.564"	L/360	Passed - L/519
Total Load (TL) Pos. Defl.:	12'- 6"	D + L		0.936"	L/240	Passed - L/312

SUPP	SUPPORT AND REACTION INFORMATION											
ID	Input Bearing Length	Controlling Combina)⊢	nward ection	Uplift Reaction	Resistance of Member	Resistance of Support	Result			
1	3 1/2"	D + L	1.0	00 692	24 lb		13781 lb	7809 lb	Passed - 89%			
2	3 1/2"	D + L	1.0	00 692	24 lb		13781 lb	7809 lb	Passed - 89%			
LOADING												
Туре	Start Loc	End Loc	Source	Face	Dead (D)) Live	(L) Snow	(S) Roof Liv	e (Lr) Wind (W)			
Self Weight	0'	25'	Self Weight	Тор	27 lb/ft	-	-	-	-			
Uniform	0'	25'	User Load	Тор	170 lb/ft	340 II	b/ft -	-	-			
Point	12'- 6"	12'- 6"	User Load	Тор	423 lb	-	-	845	lb -			
UNFA	CTORED RI	EACTIONS										
ID	Start Loc	End Loc	Source		Dead (D) Live	(L) Snov	v (S) Roof Liv	e (Lr) Wind (W)			
1	0'	0'- 3 1/2"	26(i84))	2674 lb	4250) lb -	422	lb -			
2	24'- 8 1/2"	25'	E26(i69	9)	2674 lb	4250) lb -	422	lb -			

DESIGN NOTES

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PLY TO PLY CONNECTION



BRAD CUMMINGS CONSTRUC... Customer: Job Name: **KEANE RESIDENCE**

Appwright N... 3303534

Customer P.

Job Name: 3303534 KEANE Level: 1st Floor

Label: E26_Hdr1 - i137 Type:

HeaderAsDroppedBeam

2 Ply Member 1-3/4X18 LP-LVL 2900Fb-2.0E

Status: Design **Passed**

Illustration Not to Scale. Pitch: 0/12 Designed by Single Member Design Engine in MiTek® Structure Version Report Version: 2021.03.26 12/29/2022 13:23 8.5.3.233.Update2.20 Wall Left Wall Right End End 4 1/2' 18' 0" 18' 9"

DESIGN INFORMATION

Building Code: IRC 2018 Design Methodology: ASD

Risk Category: II (General Construction)

Residential Service Condition: Drv

LL Deflection Limit: L/360, 1.00" (absolute) TL Deflection Limit: L/240, 1.50" (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:

Bottom: 0'

Bearing Stress of Support Material:

• 725 psi Wall @ 0'- 3 1/2" • 725 psi Wall @ 18'- 5 1/2"

ANALYSIS RESULTS						
Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Max Pos. Moment:	15'- 1/4"	D + L	1.00	22020 lb ft	43108 lb ft	Passed - 51%
Max Shear:	16'- 10 1/2"	D + L	1.00	6425 lb	11970 lb	Passed - 54%
Live Load (LL) Pos. Defl.:	10'- 7/16"	0.75(L + Lr)		0.225"	L/360	Passed - L/959
Total Load (TL) Pos. Defl.:	10'- 3/8"	D + 0.75(L + Lr)		0.401"	L/240	Passed - L/539

l	SUPP	ORT AND R	REACTION	INFORMA [®]	TION								
	ID	Length		LDF		nward ction	Uplift Reaction	Resista of Mer		Resistance of Support		Result	
l	1	4 1/2"	D + 0.75(L	+ Lr)	1.25	344	7 lb		1181	3 lb	11419 lb	Pas	sed - 30%
l	2	4 1/2"	D + L		1.00	662	7 lb		1181	3 lb	11419 lb	Pas	sed - 58%
l	LOADING												
l	Туре	Start Loc	End Loc	Source		Face	Dead (D) Liv	/e (L)	Snow (S)) Roof Live	e (Lr)	Wind (W)
l	Self Weight	0'	18'- 9"	Self Weigh	it	Тор	18 lb/ft		-	-	-		-
l	Uniform	0'	18'- 9"	User Load	ı	Top	90 lb/ft		-	-	180 lb	/ft	-
l	Point	15'- 1/4"	15'- 1/4"	BM4-3(i138	3)	Тор	2674 lb	42	50 lb	-	422 I	b	-
l	UNFACTORED REACTIONS												
l	ID	Start Loc	End Loc	Sou	rce		Dead ([)) Liv	ve (L)	Snow (S) Roof Live	e (Lr)	Wind (W)
l	1 0' 0'- 4 1/2" Trimme		mer		1518 lb	8	04 lb	-	1767	lb	-		

3181 lb

3446 lb

2030 lb

DESIGN NOTES

18'- 4 1/2"

18'- 9"

• The dead loads used in the design of this member were applied to the structure as sloped dead loads.

Trimmer

- · Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.
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PLY TO PLY CONNECTION



Appwright N... 3303534

Customer P...

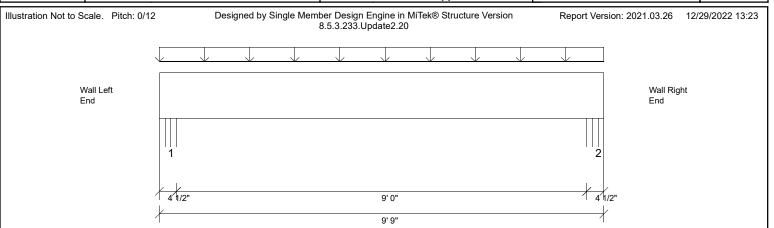
JC... Job Name: 3303534_KEANE
Level: 1st Floor

Label: **E26_Hdr2 - i136**

Type: HeaderAsDroppedBeam

2 Ply Member 1-3/4X11-7/8 LP-LVL 2900Fb-2.0E Status:

Design
Passed



Controlling Load

DESIGN INFORMATION

Building Code: IRC 2018
Design Methodology: ASD

Risk Category: II (General Construction)

Residential Service Condition: Dry

LL Deflection Limit: L/360, 1.00" (absolute)
TL Deflection Limit: L/240, 1.50" (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:

725 psi Wall @ 0'- 3 1/2"
725 psi Wall @ 9'- 5 1/2"

ANALYSIS RESULTS										
Design Criteria	Location	Load Combination	LDF	Design	Limit	Result				
Max Pos. Moment:	4'- 10 1/2"	D + Lr	1.25	2321 lb ft	24875 lb ft	Passed - 9%				
Max Shear:	8'- 4 5/8"	D + Lr	1.25	779 lb	9871 lb	Passed - 8%				
Live Load (LL) Pos. Defl.:	4'- 10 1/2"	Lr		0.023"	L/360	Passed - L/999				
Total Load (TL) Pos. Defl.:	4'- 10 1/2"	D + Lr		0.037"	L/240	Passed - L/999				
SUPPORT AND REACTION INFORMATION										

Uplift

Resistance

Resistance

LDE Downward

	טו	Length Combination		ion	Rea	ction	Reaction	of Member	of Suppor	t '	Nesuit	
$\ \ $	1	4 1/2"	D + Lr	1.2	5 108	32 lb		11813 lb	11419 lb	Pas	sed - 9%	
]	2	4 1/2" D + Lr		1.2	1.25 1082 lb			11813 lb		Pas	assed - 9%	
П	LOAD	ING										
	Туре	Start Loc	End Loc	Source	Face	Dead (D)	Live	(L) Snov	v (S) Roof	Live (Lr)	Wind (W)	
	Self Weight	0'	9'- 9"	Self Weight	Тор	12 lb/ft	-	-		-	-	
Ш	Uniform	0'	9'- 9"	User Load	Тор	70 lb/ft	-	-	14	10 lb/ft	-	
П	UNFACTORED REACTIONS											
Ш	ID	Start Loc	End Loc	Source		Dead (D) Live	(L) Snow	w (S) Roof	Live (Lr)	Wind (W)	
Ш	1	0'	0'- 4 1/2"	Trimmer		399 lb			- 6	83 lb	-	
Ш	2	9'- 4 1/2"	9'- 9"	Trimmer		399 lb	-		- 6	82 lb	-	

DESIGN NOTES

Input

- The dead loads used in the design of this member were applied to the structure as sloped 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.
- The unbraced length used in this design was manually input by the user. Install lateral bracing to satisfy the unbraced lengths specified on this report.

PLY TO PLY CONNECTION