

New Homes, Inc. Client:

Smithfield - French Country GR Project: Address:

4524 Duncan Creek Road Lillington, NC - 27546

Date: 4/22/2025 Hampton Horrocks Input by:

Job Name: 156 Duncan's Creek - 1st Floor EWP

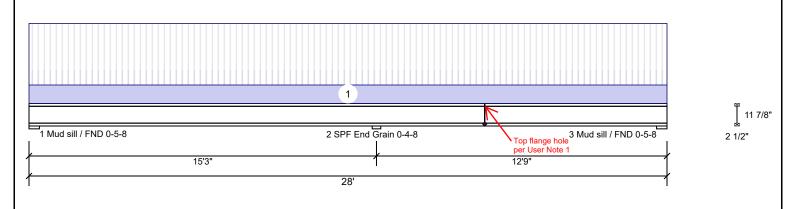
Page 1 of 7

Project #: J1024-5460

BLI 40 FJ28-rear

11.875" - No Repair Required See User Note 1

Level: Level



Member Inforn	nation				
Type:	Joist	Application:	Floor		
Spacing:	16" o.c.	Design Method:	ASD		
Moisture Condition:	Dry	Building Code:	IBC 2018		
Deflection LL:	480	Load Sharing:	No		
Deflection TL:	240	Deck:	23/32 APA Rated		
Importance:	Normal - II		SheathingOSB Nailed and Glued		
Temperature:	Temp <= 100°F		and Glued		
General Load					
Floor Live:	40 PSF				
Dead:	12 PSF				
Snow:	10 PSF				
Wind:	10 PSF				
Construction:	10 PSF				

Analysis I	Results
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Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Neg Moment	-1569 ft-lb	15'3"	3545 ft-lb	44%	D+L	LL
Unbraced	-1128 ft-lb	15'3"	1133 ft-lb	100%	D+L	L_
Pos Moment	1390 ft-lb	6'8 3/4"	3545 ft-lb	39%	D+L	L_
Shear	608 lb	15' 3/4"	1480 lb	41%	D+L	LL
LL Defl inch	0.123 (L/1448)	7'5 1/2"	0.371 (L/480)	33%	L	L_
TL Defl inch	0.153 (L/1169)	7'4 3/4"	0.743 (L/240)	21%	D+L	L_

Design Notes

- 1 Bearing 1: Mud sill / FND; fcp = 0 psi (user input), Bearing 3: Mud sill / FND; fcp = 0 psi (user
- 2 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 3 Unsupported length Lu based on points of zero moments
- 4 Bottom flange must be laterally braced at a maximum of 6'9" o.c.

User Notes

1 Location Analysis represents ~1/2" diameter vertical hole going through one side of top flange. Hole is located against web, but does not appear to intrude into the web. This design based on scaling of provided photograph. No definitive cross-section dimensions of vertical top flange hole were provided. Stated cross-section dimensions of damage depicted in this calculation should be field-verified. No repair required

Reactions PATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	366 (-8)	101	0	0	0
2	Vertical	903	271	0	0	0
3	Vertical	315 (-40)	76	0	0	0

Bearings

Bearing	Length	Dir.	Cap. F	React D/L lb	Total	Ld. Case	Ld. Comb
1 - Mud sill / FND	5.500"	Vert	33%	101 / 365	466	L_	D+L
2 - SPF End Grain	4.500"	Vert	44%	271 / 905	1176	LL	D+L
3 - Mud sill / FND	5.500"	Vert	27%	76 / 315	391	_L	D+L

Location Analysis

	., 5.5					
Analysis Type	Location	Max Value	Ld. Comb.	Ld. Case		
Neg Moment	20'	-405 ft-lb	D+L	L_		
Pos Moment	20'	758 ft-lb	D+L	_L		
Shear	20'	226 lb	D+L	LL		
Down Defl	20'	0.071	D+L	_L		
Up Defl	20'	0.023	D+L	L_		
		WILLIAM CAROLINA				
		TH CAROLINATION OF THE STREET				
			12: A.D.	5 SM2 . 1/2/20		

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Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Dry service conditions, unless noted otherwise
 IJoist not to be treated with fire retardant or corrosive

Handling & Installation

- IARIGHING & INSEGUATION

 Lodist flanges must not be cut or drilled

 Refer to latest copy of the IJoist product information details for framing details, suffiener tables, web hole chart, bridging details, multi-ply fastening details and handling/erection details

 Damaged IJoists must not be used

 Design assumes top flange to be laterally restrained by attached sheathing or as specified in engineering notes.
- 5. Provide lateral support at bearing points to avoid
- lateral displacement and rotation
 6. Web stiffeners for point load as shown Minimum point load bearing length>= 3.5 inches
 7. For flat roofs provide proper drainage to prevent

This design is valid until 9/3/2027

Manufacturer Info

www.buildoncenter.com

BlueLinx 1950 Spectrum Circle, Suite 300 Marietta, GA 30067 877-914-7770

ICC-ES: ESR-1262, ESR-1290

Professional Builders Supply 3941 US Highway 421 North, NC USA 910-386-4300

CSD DESIGN

isDesign

Client: New Homes, Inc.

Project: Smithfield - French Country GR

Address: 4524 Duncan Creek Road Lillington, NC - 27546

Date: 4/22/2025 Input by: Hampton Horrocks

Job Name: 156 Duncan's Creek - 1st Floor EWP

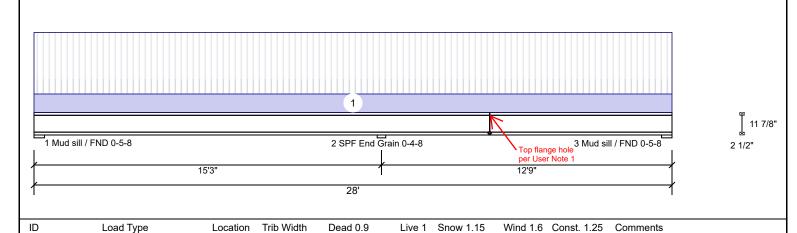
Page 2 of 7

Project #: J1024-5460

BLI 40 FJ28-rear

11.875" - No Repair Required See User Note 1

Level: Level



0 PSF 1 Uniform 1-4-0 12 PSF 40 PSF 0 PSF 0 PSF

> TH CAROLINIA RTH CAROLINA U59038
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> NGINEER
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> O4/22/200

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 IJoist not to be treated with fire retardant or corrosive

Handling & Installation

- Handling & Installation

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 2. Refer to latest copy of the IJoist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-ply fastening details and handling/erection details

 3. Damaged IJoists must not be used

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 Web stiffeners for point load as shown Minimum point load bearing length>= 3.5 inches
 For flat roofs provide proper drainage to prevent ponding

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PRTH CAROLINA

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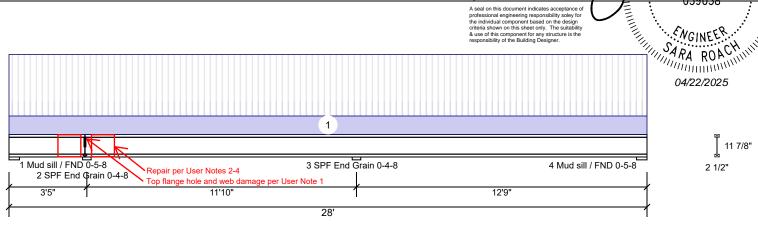
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Project #: J1024-5460 Level: Level

FJ28-front **BLI 40**

11.875" - Repair Required See User Notes 1-4

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Member Information

Туре:	Joist	Application:	Floor		
Spacing:	16" o.c.	Design Method:	ASD		
Moisture Condition:	Dry	Building Code:	IBC 2018		
Deflection LL:	480	Load Sharing:	No		
Deflection TL:	240	Deck:	23/32 APA Rated		
Importance:	Normal - II		SheathingOSB Nailed and Glued		
Temperature:	Temp <= 100°F				
General Load					
Floor Live:	40 PSF				
Dead:	12 PSF				
Snow:	10 PSF				
Wind:	10 PSF				
Construction:	10 PSF				

Reactions PATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	142 (-159)	(-5)	0	0	0
2	Vertical	573 (-97)	143	0	0	0
3	Vertical	754 (-1)	226	0	0	0
4	Vertical	310 (-27)	85	0	0	0

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Neg Moment	-1102 ft-lb	15'3"	3545 ft-lb	31%	D+L	_LL
Unbraced	-771 ft-lb	15'3"	895 ft-lb	86%	D+L	Hole L_LHL
Pos Moment	966 ft-lb	22'3 15/16"	3545 ft-lb	27%	D+L	L_L
Shear	504 lb	15'5 1/4"	1480 lb	34%	D+L	_LL
LL Defl inch	0.064 (L/2299)	21'8 3/8"	0.309 (L/480)	21%	L	L_L
TL Defl inch	0.080 (L/1857)	21'9 1/16"	0.618 (L/240)	13%	D+L	L_L

Bearings

l	Bearing	Length	Dir.	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.
	1 - Mud sill / FND	5.500"	Vert	10%	-6 / 146	140 (-173)	L_L	D+L(D+L)
	2 - SPF End Grain	4.500"	Vert	27%	143 / 582	725	LL_	D+L
	3 - SPF End Grain	4.500"	Vert	37%	226 / 755	981	_LL	D+L
	4 - Mud sill / FND	5.500"	Vert	27%	85 / 308	393	_L	D+L
ſ	Hole An	alysis						

Size Capacity

Act Shr.

308 lb

All. Shr.

649 lb

D+L

Design Notes

- 1 Bearing 1: Mud sill / FND; fcp = 0 psi (user input), Bearing 4: Mud sill / FND; fcp = 0 psi (user input)
- 2 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 3 Web Holes: Vertical location may vary and flanges must not be cut.
- 4 Tie-down connection required at bearing 1 for uplift 173 lb (Combination D+L, Load Case Hole __HLL__).
- 5 Unsupported length Lu based on points of zero moments.
- 6 Bottom flange must be laterally braced at a maximum of 10'5" o.c.

Location Analysis

Hole Type Location

Rec.

H3'4"

Horizontal location H = Horiz to center

	Analysis Type	Location	Max Value	Ld. Comb.	Ld. Case	
	Neg Moment	3'4"	-599 ft-lb	D+L	LL_	
	Pos Moment	3'4"	35 ft-lb	D+L Ho	le LHL_L	
	Shear	3'4"	306 lb	D+L	LL_	
	Down Defl	3'4"	0.000	D+L	L_L	
	Up Defl	3'4"	0.000	D+L	_L_	

User Notes

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- Dry service conditions, unless noted otherwise
 IJoist not to be treated with fire retardant or corrosive

Handling & Installation

- Handling & Installation

 1. Noist flanges must not be out or drilled

 2. Refer to latest copy of the IJoist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-ply fastening details and handling/erection details

 3. Damaged IJoists must not be used

 4. Design assumes top flange to be laterally restrained by attached sheathing or as specified in engineering notes.
- 5. Provide lateral support at bearing points to avoid

lateral displacement and rotation
6. Web stiffeners for point load as shown Minimum point load bearing length>= 3.5 inches
7. For flat roofs provide proper drainage to prevent

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Manufacturer Info

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This design is valid until 9/3/2027

isDesign

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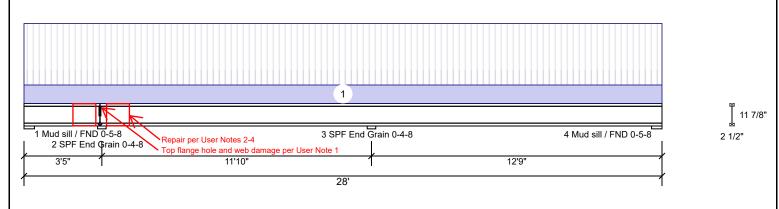
Job Name: 156 Duncan's Creek - 1st Floor EWP

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Project #: J1024-5460

FJ28-front **BLI 40**

11.875" - Repair Required See User Notes 1-4 Level: Level



2 Attach 23/32" x 11 7/8" high x 12" long APA 48/24 span-rated plywood (face grain horizontal) to top & bottom flanges on one face with 8d Sinker Nails (0.113 x 2 3/8") @ 3" o.c.

 $3\,$ Use 1/4" bead of carpenter's wood glue on all contact surfaces.

4 Locate at both vertical edges of perpendicular blocking

ID	Load Type	Location	Trib Width	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments	
1	Uniform		1-4-0	12 PSF	40 PSF	0 PSF	0 PSF	0 PSF		

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TH CAROLANIA CAROLIN

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 Web stiffeners for point load as shown Minimum point load bearing length>= 3.5 inches
 For flat roofs provide proper drainage to prevent ponding

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Manufacturer Info

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www.buildoncenter.com ICC-ES: ESR-1262, ESR-1290 UD9038

NGINEER

O4/22/200 Professional Builders Supply 3941 US Highway 421 North, NC USA 28401 910-386-4300



Client: New Homes, Inc.

Project: Smithfield - French Country GR Address:

4524 Duncan Creek Road

Date: 4/22/2025 Hampton Horrocks Input by:

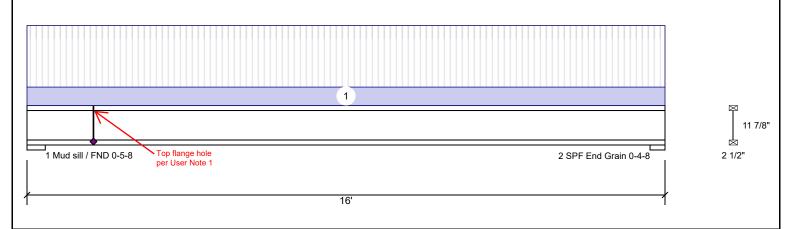
Job Name: 156 Duncan's Creek - 1st Floor EWP

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Lillington, NC - 27546 Project #: J1024-5460

FJ16 BLI 40 11.875" - No Repair Required See User Note 1

Level: Level



Member Info	ember Information				Reactions PATTERNED lb (Uplift)						
Type:	Joist	Application:	Floor	Brg	Direction	Live	;	Dead	Snow	Wind	Const
Spacing:	8" o.c.	Design Method:	ASD	1	Vertical	214	ļ	64	0	0	0
Moisture Condition	on: Dry	Building Code:	IBC 2018	2	Vertical	212	2	64	0	0	0
Deflection LL:	480	Load Sharing:	No								
Deflection TL:	240	Deck:	23/32 APA Rated								
Importance:	Normal - II		SheathingOSB Nailed and Glued								
Temperature:	Temp <= 100°F		and Glued								
General Load				Bea	rings						
Floor Live:	40 PSF			Bea	aring Length	Dir.	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.
Dead:	12 PSF			1 -	Mud 5.500"	Vert	20%	64 / 215	279	L	D+L

Analysis Results

Construction:

Snow:

Wind:

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1013 ft-lb	8' 1/2"	3545 ft-lb	29%	D+L	L
Shear	263 lb	15'7 1/2"	1480 lb	18%	D+L	L
LL Defl inch	0.100 (L/1837)	8' 9/16"	0.382 (L/480)	26%	L	L
TL Defl inch	0.130 (L/1413)	8' 9/16"	0.765 (L/240)	17%	D+L	L

Location Analysis

2 - SPF 4.500"

Vert

19%

sill / **FND**

Fnd

Grain

Analysis Type	Location	Max Value	Ld. Comb.	Ld. Case	
Pos Moment	1'8"	309 ft-lb	D+L	L	
Shear	1'8"	221 lb	D+L	L	
Down Defl	1'8"	0.035	D+L	L	

64 / 212

276 L

D+L

Design Notes

1 Bearing 1: Mud sill / FND; fcp = 0 psi (user input)

10 PSF

10 PSF

10 PSF

- 2 Provide support to prevent lateral movement and rotation at the end bearings
- 3 Unsupported length Lu based on points of zero moments.
- 4 Bottom flange must be laterally braced at bearings

User Notes

1 Location Analysis represents ~1/2" diameter vertical hole going through one side of top flange. Hole is located against web, but does not appear to intrude into the web. This design based on scaling of provided photograph. No definitive cross-section dimensions of vertical top flange hole were provided. Stated cross-section dimensions of damage depicted in this calculation should be field-verified. No repair required.

ID Load Type Location Trib Width Dead 0.9 Live 1 Snow 1.15 Wind 1.6 Const. 1.25 Uniform 0-8-0 12 PSF 40 PSF 0 PSF 0 PSF 0 PSF 1

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TH CAROLING

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Dry service conditions, unless noted otherwise
 IJoist not to be treated with fire retardant or corrosive

Handling & Installation

- IARIGHING & INSEGUATION

 Lodist flanges must not be cut or drilled

 Refer to latest copy of the IJoist product information details for framing details, suffiener tables, web hole chart, bridging details, multi-ply fastening details and handling/erection details

 Damaged IJoists must not be used

 Design assumes top flange to be laterally restrained by attached sheathing or as specified in engineering notes.
- 5. Provide lateral support at bearing points to avoid
- lateral displacement and rotation
 6. Web stiffeners for point load as shown Minimum point load bearing length>= 3.5 inches
 7. For flat roofs provide proper drainage to prevent

This design is valid until 9/3/2027

Manufacturer Info

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ICC-ES: ESR-1262, ESR-1290

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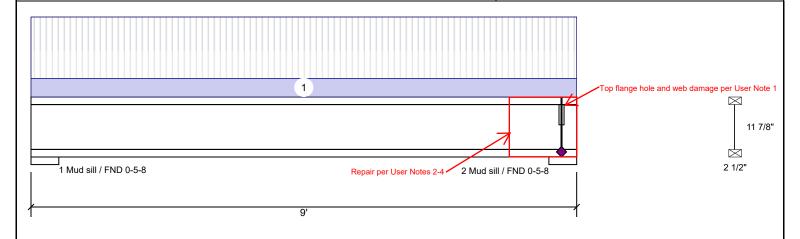
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J1024-5460

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11.875" - Repair Required FJ9 **BLI 40** See User Notes 1-4 Level: Level

Project #:



Member Inforn	nation			Rea	ctions PATT	ERNED	lb (Uplift)			
Type:	Joist	Application:	Floor	Brg	Direction	Live	Dead	Snow	Wind	Const
Spacing:	16" o.c.	Design Method:	ASD	1	Vertical	240	72	0	0	0
Moisture Condition:	: Dry	Building Code:	IBC 2018	2	Vertical	240	72	0	0	0
Deflection LL:	480	Load Sharing:	No							
Deflection TL:	240	Deck:	23/32 APA Rated							
Importance:	Normal - II		SheathingOSB Nailed and Glued							
Temperature:	Temp <= 100°F		and Glued	_						
General Load				Bea	rings					
Floor Live:	40 PSF			Be	aring Length	Dir.	Cap. React D/L lb	Total	Ld. Case	Ld. Comb.

	•
Construction:	10 PSF
Wind:	10 PSF
Snow:	10 PSF
Dead:	12 PSF
Floor Live:	40 PSF

Analysis Results Analysis Actual Location Allowed Capacity Comb. Case Moment 584 ft-lb 4'6" 3545 ft-lb 16% D+L L 280 lb 5 1/2" 1480 lb 19% D+I Shear 1 LL Defl inch 0.020 (L/4813) 4'6 1/16" 0.205 (L/480) 10% L

Η	C	١	e	Α	na	ly	si	į

1 - Mud 5.500"

2 - Mud 5.500"

sill / **FND**

sill /

FND

F

Vert

Vert

22%

22%

Hole Type Location Size Capacity Act Shr. All. Shr. Horizontal location H = Horiz to center

72 / 240

72 / 240

312 L

312 L

D+L

Location Analysis TL Defl inch 0.027 (L/3702) 4'6 1/16" 0.410 (L/240) 6% D+L L

1 Bearing 1: Mud sill / FND; fcp = 0 psi (user input), Bearing 2: Mud sill / FND; fcp = 0 psi (user

- 2 Provide support to prevent lateral movement and rotation at the end bearings.
- 3 Web Holes: Vertical location may vary and flanges must not be cut.
- 4 Unsupported length Lu based on points of zero moments.
- 5 Bottom flange must be laterally braced at bearings.

User Notes

Design Notes

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- 2 Attach 23/32" x 14" high x 12" long APA 48/24 span-rated plywood (face grain horizontal) to top & bottom flanges on opposite face from web damage with 8d Sinker Nails (0.113 x 2 3/8")
- 3 Use 1/4" bead of carpenter's wood glue on all contact surfaces.
- 4 Locate end of gusset at right end of joist.

Analysis Type	Location	Max Value	Ld. Comb.	Ld. Case	
Neg Moment	8'9"	0 ft-lb	D	Uniform	
Pos Moment	8'9"	0 ft-lb	D+L	L	
Shear	8'9"	280 lb	D+L	L	

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TH CAROLINIA RTH CAROLINA UD9038 FNGINEER O4/22/2001 Prof

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- Dry service conditions, unless noted otherwise
 IJoist not to be treated with fire retardant or corrosive

Handling & Installation

- Identified in Installation

 J. Jobist flanges must not be cut or drilled

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 Damaged Jobist must not be used

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Manufacturer Info BlueLinx

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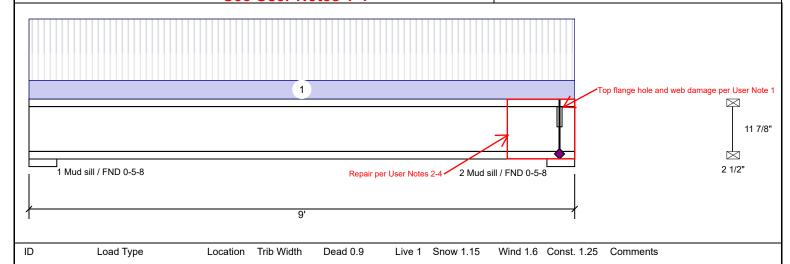
Page 7 of 7

Project #: J1024-5460

11.875" - Repair Required FJ9 **BLI 40**

See User Notes 1-4

Level: Level



40 PSF 1 Uniform 1-4-0 12 PSF 0 PSF 0 PSF 0 PSF

> TH CAROLINIA RTH CAROLINA UDY038
>
> NGINEER
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Handling & Installation

- Handling & Installation

 1. Noist flanges must not be out or drilled

 2. Refer to latest copy of the IJoist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-ply fastening details and handling/erection details

 3. Damaged IJoists must not be used

 4. Design assumes top flange to be laterally restrained by attached sheathing or as specified in engineering notes.

- 5. Provide lateral support at bearing points to avoid lateral displacement and rotation
 6. Web stiffeners for point load as shown Minimum point load bearing length>= 3.5 inches
 7. For flat roofs provide proper drainage to prevent ponding

This design is valid until 9/3/2027

Manufacturer Info

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