

Robert L. Campbell Structural Engineer, P.C. 200 É. 16<sup>TH</sup> Street, Suite 100

04/23/25 25032

DATE:

JOB NO.:

**DESIGNED BY: RLC** 

**CHECKED BY: RLC** 

SHEET 1

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Yuma, AZ 85364

Sternco Engineers, Inc.

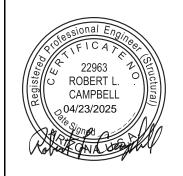
202 S. 1st Ave, Suite 205

Yuma, AZ 85364

PROJECT: Yuma County Foothills Library

HVAC Replacement - Structural Report

13226 E. South Frontage Rd, Yuma AZ 85367



# STRUCTURAL CALCULATIONS

DESIGN DATA	CODE DATA
CALCULATION SUMMARY	Building Code: 2018 I.B.C.

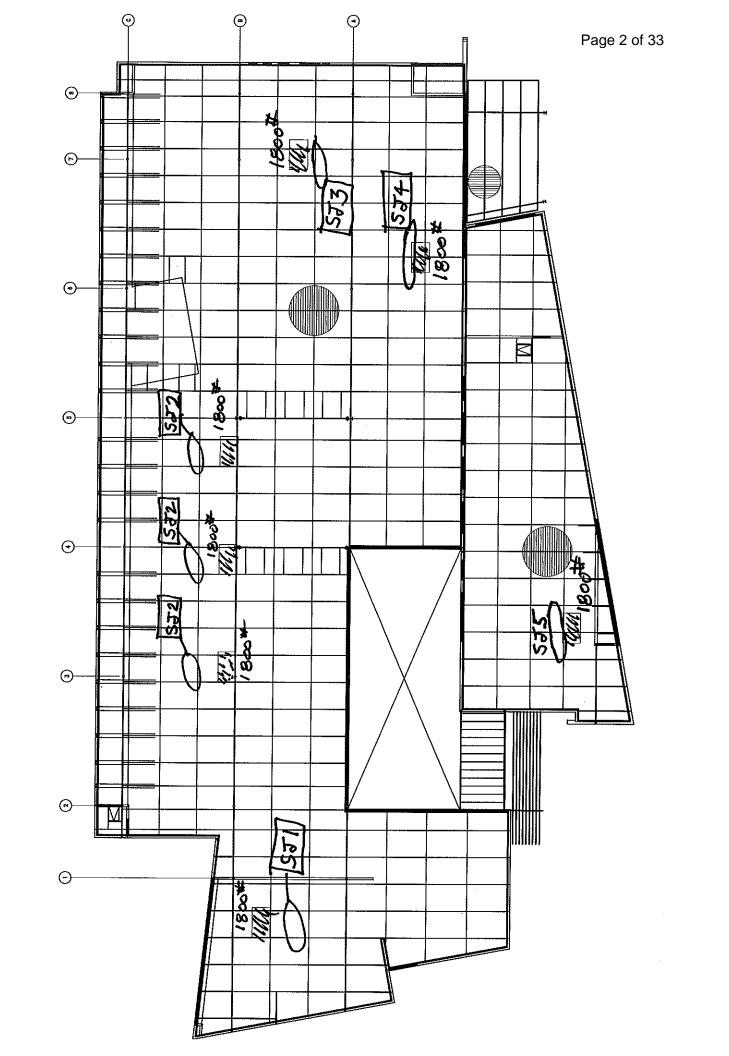
CALCULATION SUMMARY

CLIENT:

This project consists of replacing the existing roof top HVAC units at the Yuma Co. Foothills Library with new heavier units. The original construction documents show the steel roof joist are scheduled to support 1,500 lb mechanical units. The replacement units are in the range of 1,800 lb.

RCSE performed structural calculations to determine the existing joist shear and moment capacity. The same joists were checked with an actual dead load based on our field observations along with the 1,800 Ib mechanical unit weight.

The results of our analysis indicate the existing steel joist capacity exceeds the new demand on the joist. All shear and moment demand/capacity ratio checks are less than 1.0 and consequently, no joist strengthening is required.





Campbell 200 E. 16th St., Suite 100 Yuma, AZ 85364 (928) 726-2646

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200 E. 16th St., Suite 100 Yuma, AZ 85364 (928) 726-2646

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NEW MECH UNITS STEEL FOLST PROPOSED	DESIGNE DEMIANO
$\frac{SJ1}{W = Z33PLF} = \frac{11R}{135PLF}$ $P = 1800 (4) = 450$	19,01 P P 4,17,
$\omega = 233^{PLE} / 75^{PLE}$ $P = 4-50$	4.17' P
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575 $\omega = 233/1357^{25}$ $P = 450^{45}$	4,0 P 4,17 1

			EXISTING	VS. NEW UNI	TS WEIG	HTS			
MARK	:	EXISTING UNIT INFORM	MATION	EXISTING UNIT WEIGHT	N		REMARKS		
MARK	MAKE	MODEL	SERIAL#	W/ ACCESSORIES (LBS)	UNIT OXLY	PE ACCESSORY	CURB ADAPTER	TOTAL	REMARKS
HP-1, 2	TRANE	WSC120A3R0A	820102570L (HP-1, TYP)	941 + 344 = 1285	1286	160	£15	1561	1,2
HP-3,4,5,6,7	TRANE	WSC120A3R0A	820102588L (HP-3, TYP)	941 + 344 = 1285	1306	160	115	1581	1,2
REMARKS:								$\Lambda$	
1.	EXISTING UNITS INCL	UDE CANFAB MODEL 614	14-MPE ECONOMIZER AND POW	ERED EXHAUST ACCESSOR	IES,	1			
2.	ALL (7) UNITS SCHED	ULED ARE THE SAME MO	DEL NUMBER AND A TYPICAL S	SERIAL NUMBER IS SHOWN.					<del></del>
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Robert L. Campb			Yuma County Library District		07040	3
Structural Engineer	; P.C.		Foothills Branch Library		07040	
183 E. 24th Street, Sui	te 7		Yuma, AZ		DATE:	BY:
Yuma, AZ 85364					Jun-07	KLB
GRAVITY DESIGN LOAD	)S					
2003 INTERNATIONAL	BUILDING C	ODE - D	Dead and Live Loads			
ROOF - High Roof Structure	Ļ					
DEAD LOADS					0.0 5	
	Corrugated Me		ng		2.0 psf	
	6" Polystyrene				3.0 psf	
	Steel Accousti	c Deck			4.4 psf	
	Steel Beams				2.0 psf	
	MPE				2.0 psf	
	Sprinkler				1.5 psf 1.1 psf	
	Misc.					ł
	Total DL				16.0 psf	ł
LIVE LOADS	Roof L <sub>r</sub>				20 psf	(reducible)
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BUILT UP ROOF - Main Stru	cture					
DEAD LOADS						
	Roofing				2.5 psf	
	6" Polystyrene	<b>:</b>		1.0.		
	Steel deck				2.3 psf	
	Steel Joists				2.0 psf	
•	5/8 Gypboard	Ceiling	Acoustic CLG,	/· 8	> 2.8 psf	
	MPE				1.8 psf	
	Sprinkler				1.5 psf	
	Misc.		ACTUAL		2.1 psf	1
	Total DL		ACTUAL DL= 15 <sup>PSF</sup>		18.0 psf	
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LIVE LOADS	KOOI L					,
CEILING - Vestibule Framin	9					
DEAD LOADS						
	Light Gauge F	raming			2.0 psf	
	Plywood				1.5 psf	
	5/8 Gypboard	Ceiling			2.8 psf	
	MPE				1.8 psf	
	Sprinkler			1	1.9 psf	•
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Roof L<sub>r</sub>

LIVE LOADS

10.0 psf

(reducible)

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Robert L. Campbell Structural Engineer, P.C.	PROJECT Foothills Bromch L	јов NO. ок. 07040	DATE	BY	SHEET NO.
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DL = 18 psf LLR = 20psf					•
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# FOAMULAR® Extruded Polystyrene (XPS) Insulation SI and I-P Units for Selected Properties

# Technical Bulletin

This bulletin provides thermal conductivity, thermal resistance, density and compressive strength for FOAMULAR® 150, 250, 400, 600 and 1000 insulation in thicknesses of 2", 3" and 4". SI units are provided in the tables, followed by I-P units in parenthesis.

# FOAMULAR® 150 Insulation

Thickness, mm	Thermal Conductivity, W/mK, max.	Thermal Resistance, m²K/W, min.	Density, kg/m³, min.	Compressive Strength, kPa, min.
100 (4")	0.029 (k=0.20)	3.53 (R-20)	20.8 (1.3 pcf)	103 (15 psi)
75 (3")	0.029 (k=0.20)	2.65 (R-15)	20,8 (1.3 pcf)	103 (15 psi)
50 (2")	0.029 (k=0.20)	i.77 (R-10)	20.8 (1.3 pcf)	103 (15 psi)

# FOAMULAR® 250 Insulation

Thickness, mm	Thermal Conductivity, W/mK, max.	Thermal Resistance, m <sup>2</sup> K/W, min.	Density, kg/m³, min.	Compressive Strength, kPa, min.
100 (4")	0.029 (k=0.20)	3,53 (R-20)	24,8 (1,55 pcf)	172 (25 psi)
75 (3")	0.029 (k=0.20)	2.65 (R-15)	24,8 (1,55 pcf)	172 (25 psi)
50 (2")	0.029 (k=0.20)	1.77 (R-10)	24,8 (1.55 pcf)	172 (25 psi)

#### FOAMULAR® 400 Insulation

Thickness, mm	Thermal Conductivity, W/mK, max.	Thermal Resistance, m²K/W, min.	Density, kg/m³, min.	Compressive Strength, kPa, min.
100 (4")	0.029 (k=0.20)	3.53 (R-20)	28.9 (1.8 pcf)	276 (40 psi)
75 (3")	0.029 (k=0.20)	2.65 (R-15)	28.9 (1.8 pcf)	276 (40 psi)
50 (2")	0.029 (k=0.20)	1.77 (R-10)	28.9 (1.8 pcf)	276 (40 psi)

#### FOAMULAR® 600 Insulation

Thickness, mm	Thermal Conductivity, W/mK, max.	Thermal Resistance, m²K/W, min.	Density, kg/m³, min.	Compressive Strength, kPa, min.
100 (4")	0,029 (k=0,20)	3.53 (R-20)	35,3 (2,2 pcf)	414 (60 psi)
75 (3")	0.029 (k=0.20)	2,65 (R-15)	35,3 (2,2 pcf)	414 (60 psi)
50 (2")	0.029 (k=0,20)	1.77 (R-10)	35,3 (2,2 pcf)	414 (60 psi)

# FOAMULAR® 1000 Insulation

Thickness, mm	Thermal Conductivity, W/mK, max.	Thermal Resistance, m <sup>2</sup> K/W, min.	Density, kg/m³, min.	Compressive Strength, kPa, min.
100 (4")	0,029 (k=0.20)	3.53 (R-20)	48.1 (3.0 pcf)	690 (100 psi)
75 (3")	0.029 (k=0.20)	2.65 (R-15)	48.1 (3.0 pcf)	690 (100 psi)
50 (2")	0.029 (k=0,20)	1.77 (R-10)	48.1 (3,0 pcf)	690 (100 psi)

#### Notes:

I. SI, the International System of Units (Metric). I-P, inch-pound units (English).

2. Conversions are approximate, rounded to the nearest significant digit that is customary for a given property as shown in the tables.

3. I-P unit definitions:
Thermal Conductivity, "k" = Btu•in/ft.²•hr•°F
Thermal Resistance, "R" = hr•ft²•°F/Btu
Compressive Strength, "psi" = pounds per square inch
Density, "pcf" = pounds per cubic foot

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OWENS CORNING FOAM INSULATION, LLC ONE OWENS CORNING PARKWAY TOLEDO, OHIO 43659

1-800-GET-PINK® www.owenscorning.com

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3 ×4 = 1,0 PSF



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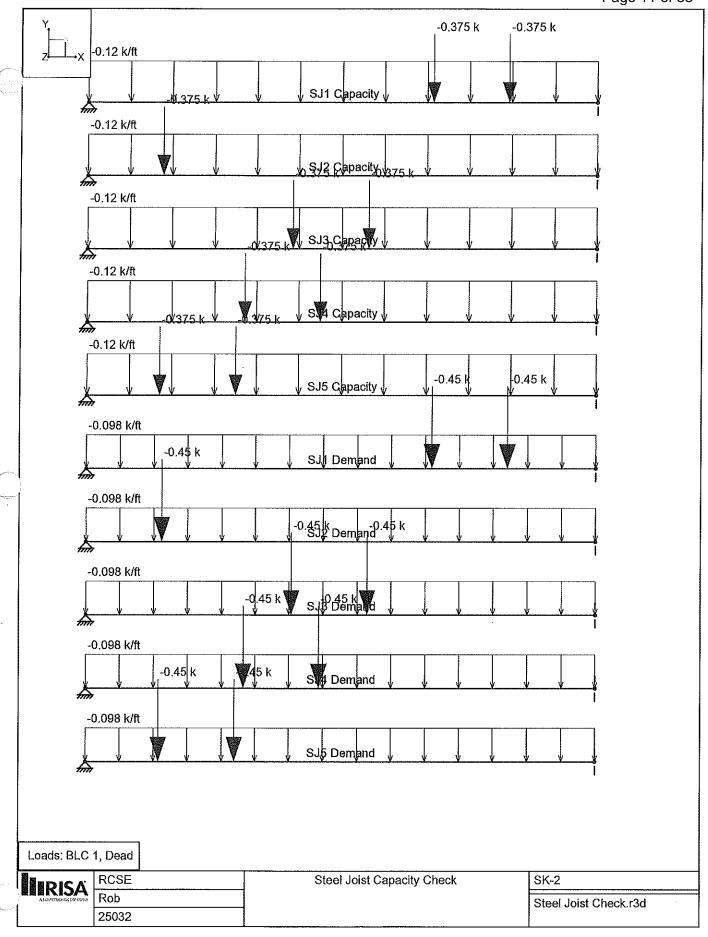
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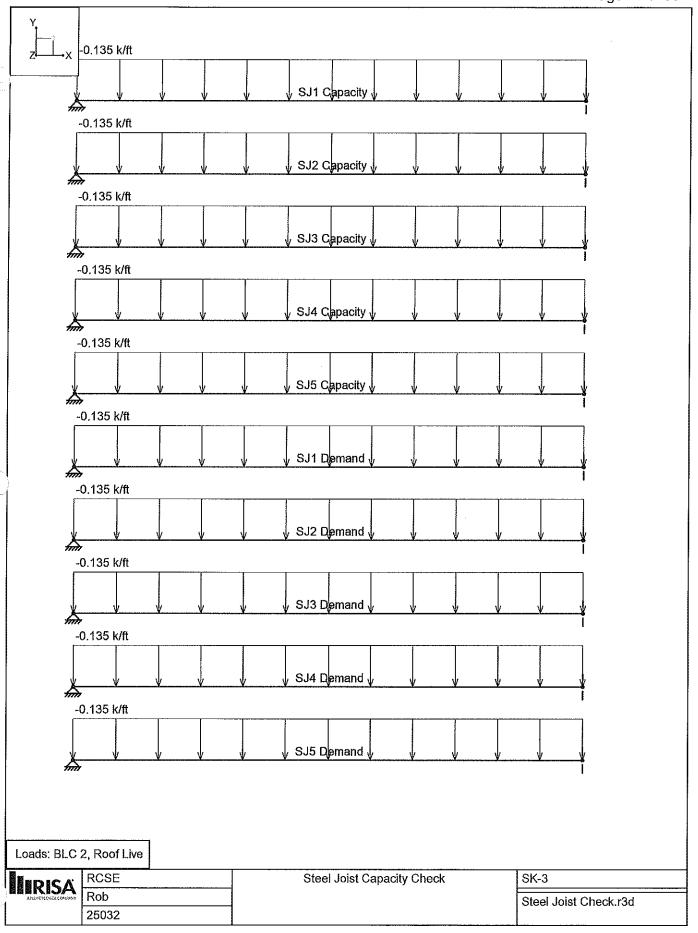
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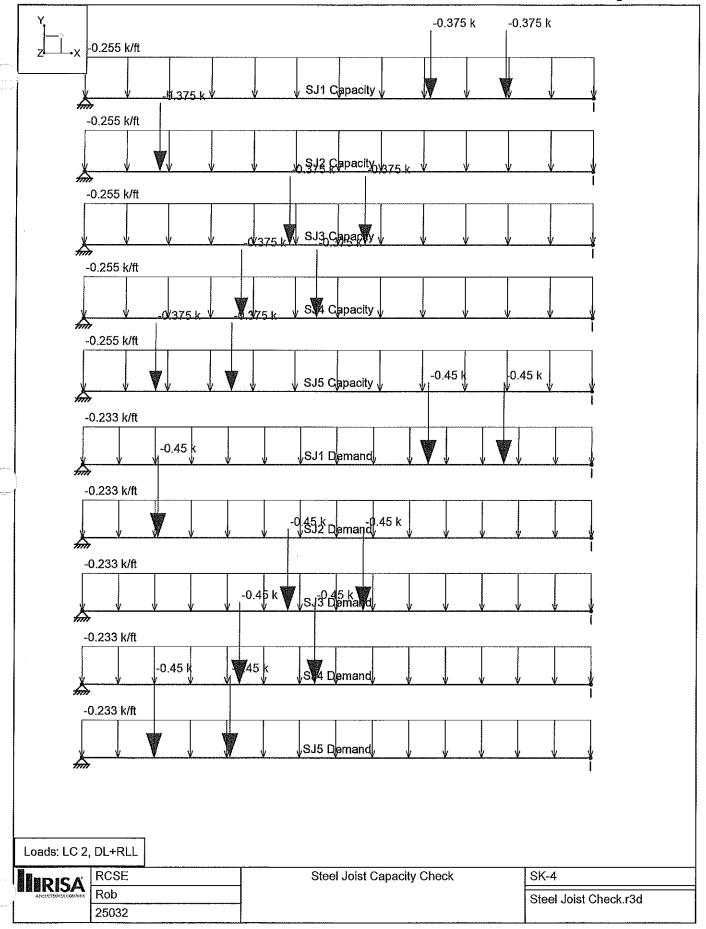
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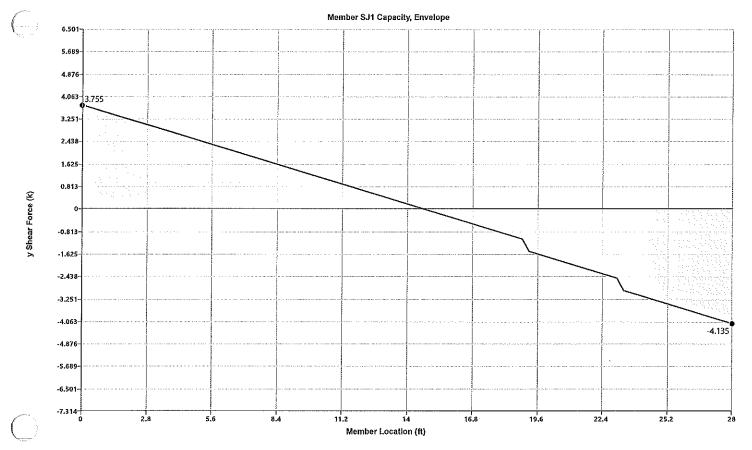




Model Name: Steel Joist Capacity Check

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Checked By : \_\_\_\_\_



#### **Selected Location Values:**

Location: 0 ft

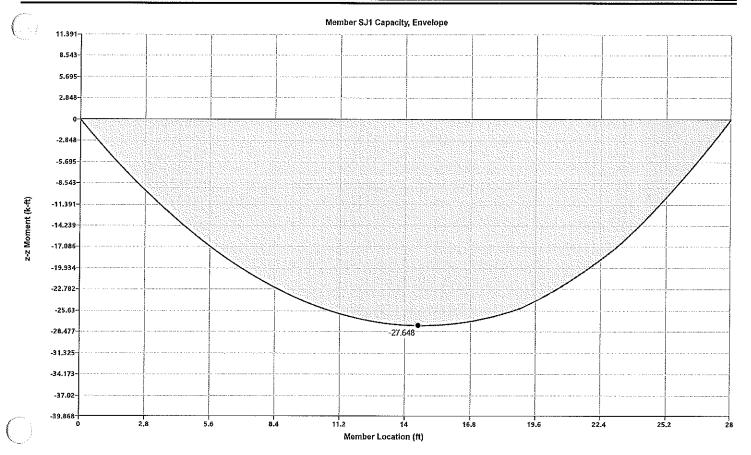
Max Value: 3.755 (LC 2) k Min Value: 3.755 (LC 2) k



Model Name: Steel Joist Capacity Check

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#### Selected Location Values:

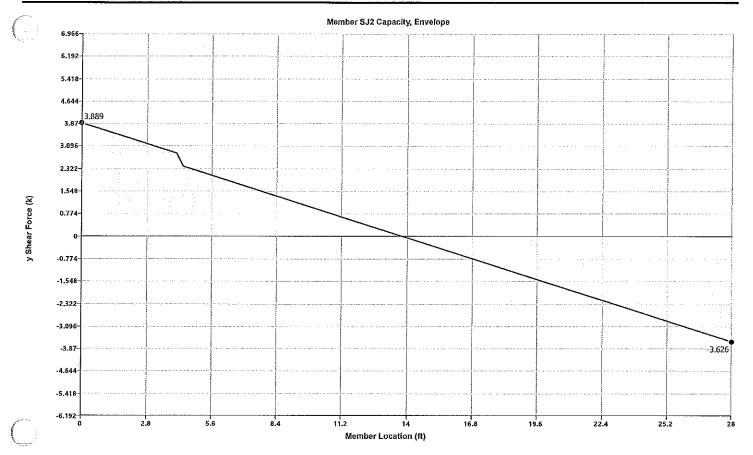
Location: 0 ft



Model Name: Steel Joist Capacity Check

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Checked By : \_\_\_\_\_



#### **Selected Location Values:**

Location: 0 ft

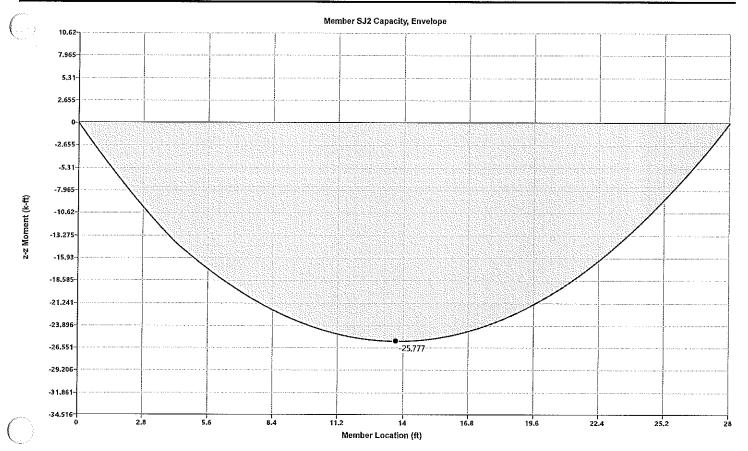
Max Value: 3.889 (LC 2) k Min Value: 3.889 (LC 2) k



Model Name: Steel Joist Capacity Check

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Checked By : \_\_\_\_\_



#### **Selected Location Values:**

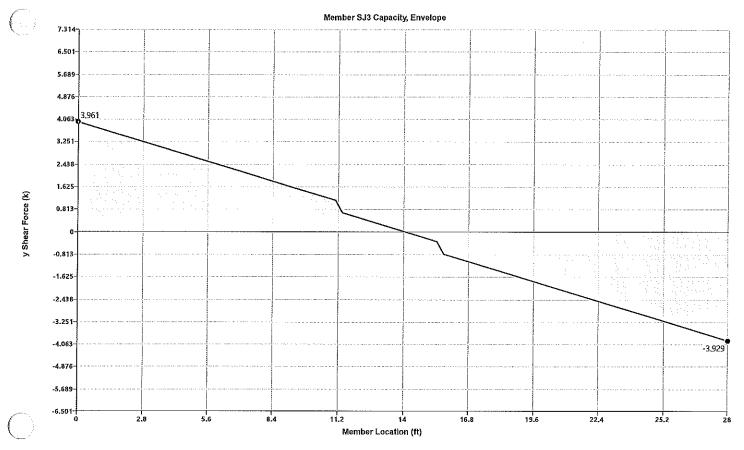
Location: 0 ft



Model Name: Steel Joist Capacity Check

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Checked By : \_\_\_\_\_



#### **Selected Location Values:**

Location: 0 ft

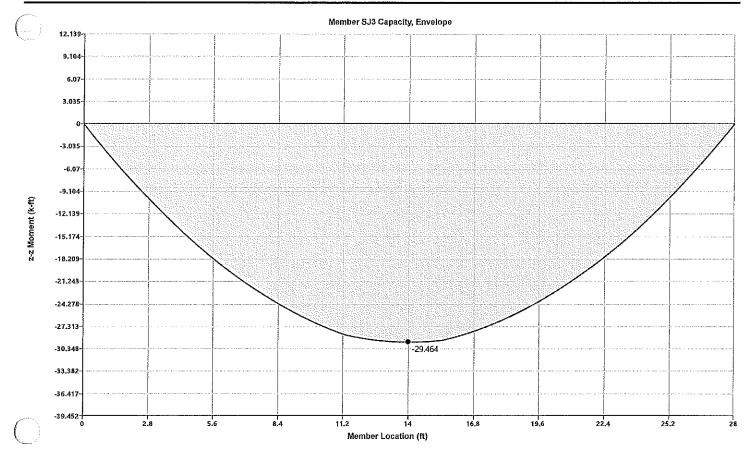
Max Value: 3.961 (LC 2) k Min Value: 3.961 (LC 2) k



Job Number : 25032
Model Name : Steel Joist Capacity Check

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**Selected Location Values:** 

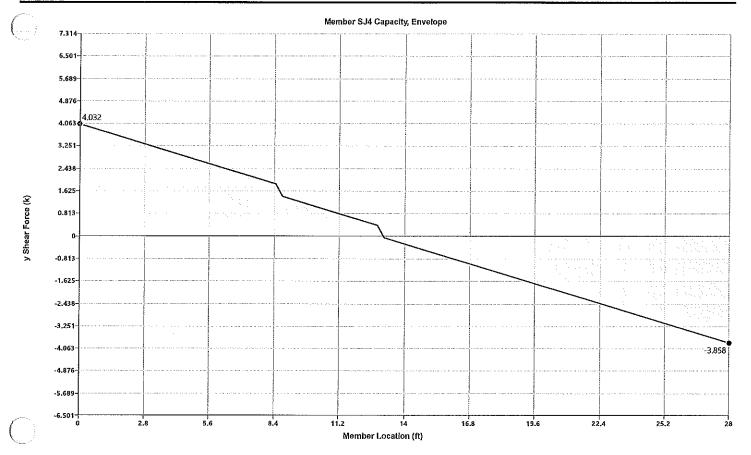
Location: 0 ft



Model Name: Steel Joist Capacity Check

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#### **Selected Location Values:**

Location: 0 ft

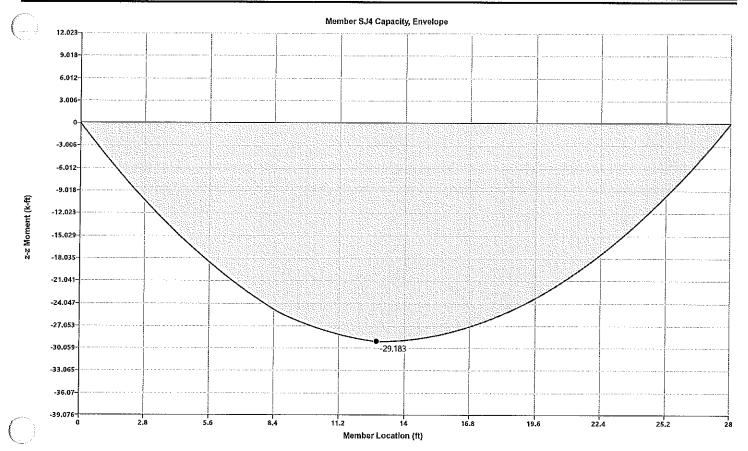
Max Value: 4.032 (LC 2) k Min Value: 4.032 (LC 2) k



Model Name: Steel Joist Capacity Check

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Checked By : \_\_\_\_\_



#### Selected Location Values:

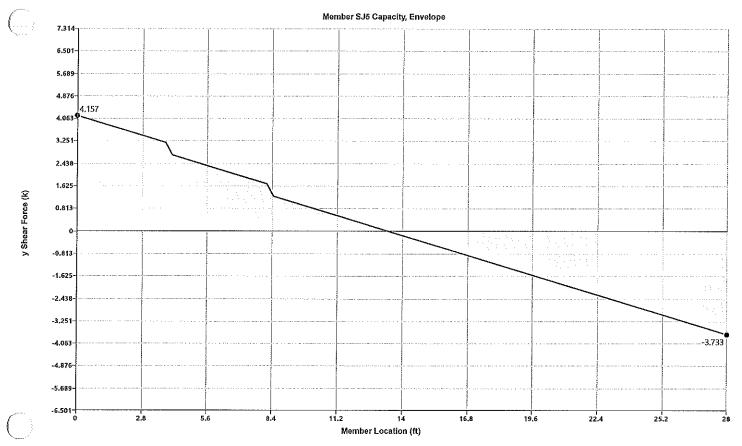
Location: 0 ft



Model Name: Steel Joist Capacity Check

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# Selected Location Values:

Location: 0 ft

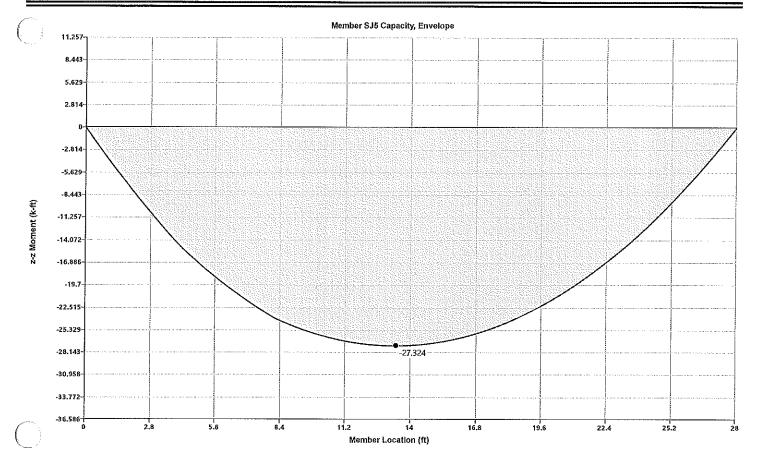
Max Value: 4.157 (LC 2) k Min Value: 4.157 (LC 2) k



Company : RCSE
Designer : Rob
Job Number : 25032
Model Name : Steel Joist Capacity Check

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#### Selected Location Values:

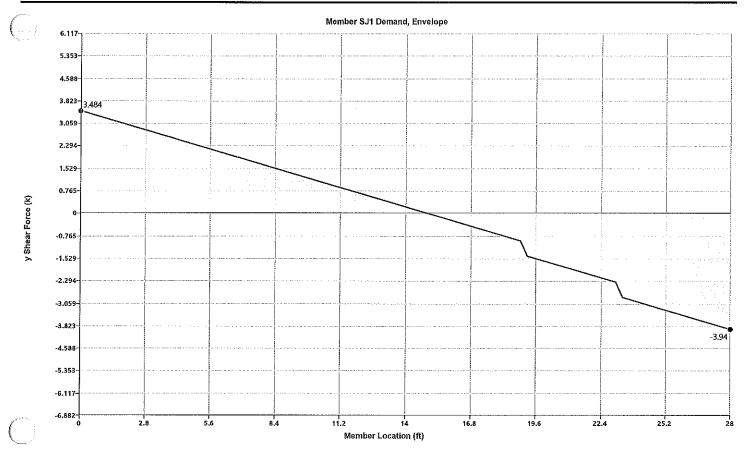
Location: 0 ft



Model Name: Steel Joist Capacity Check

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#### **Selected Location Values:**

Location: 0 ft

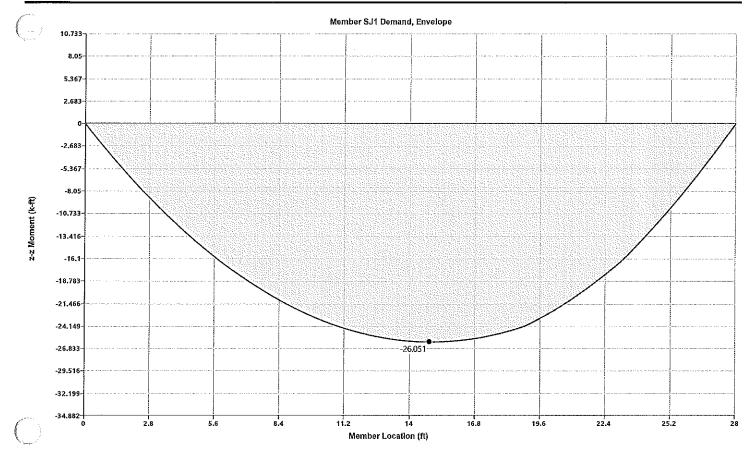
Max Value: 3.484 (LC 2) k Min Value: 3.484 (LC 2) k



Company : RCSE
Designer : Rob
Job Number : 25032
Model Name : Steel Joist Capacity Check

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#### **Selected Location Values:**

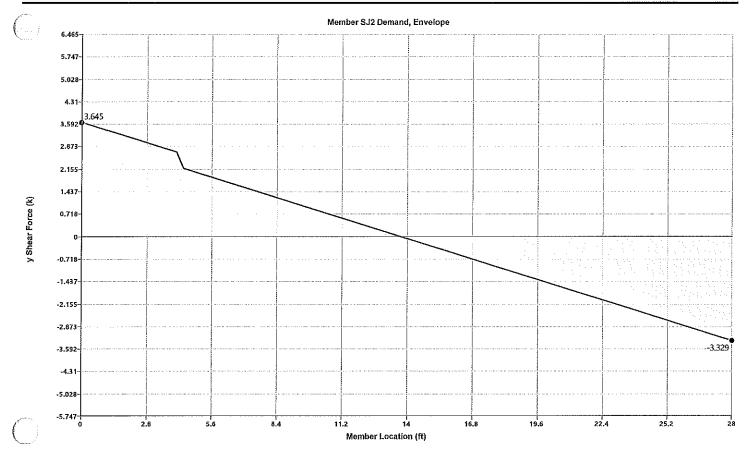
Location: 0 ft



Model Name: Steel Joist Capacity Check

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# Selected Location Values:

Location: 0 ft

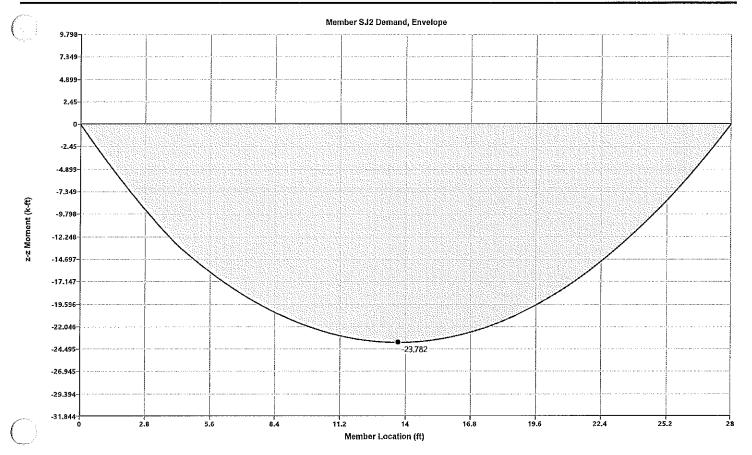
Max Value: 3.645 (LC 2) k Min Value: 3.645 (LC 2) k



Company : RCSE
Designer : Rob
Job Number : 25032
Model Name : Steel Joist Capacity Check

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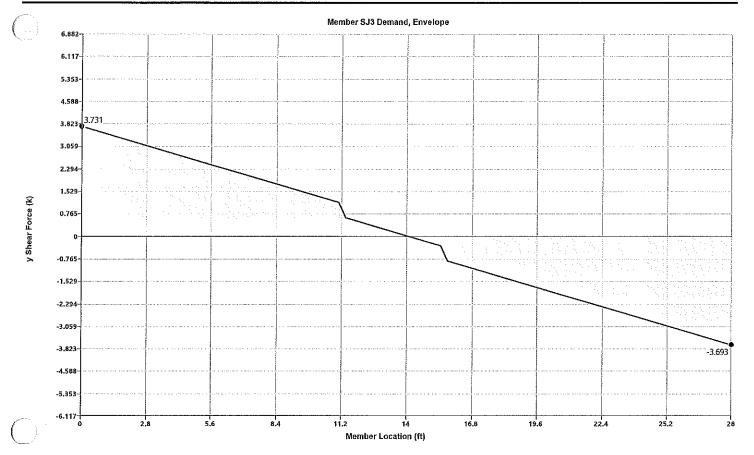
# Selected Location Values:

Location: 0 ft



Job Number: 25032 Model Name: Steel Joist Capacity Check Page 28 of 33

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#### Selected Location Values:

Location: 0 ft

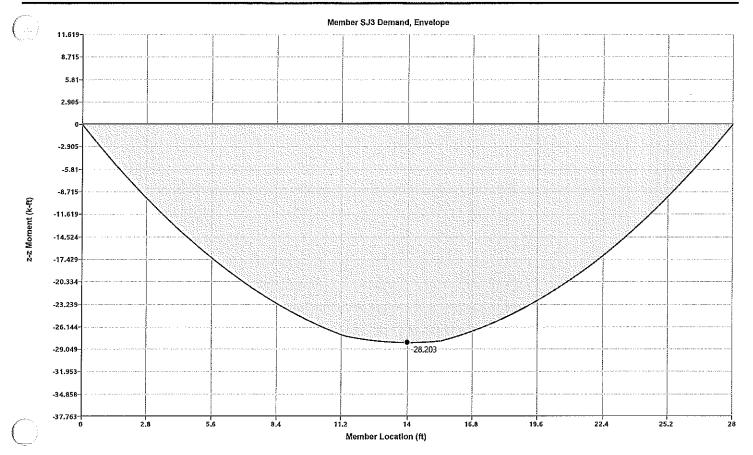
Max Value: 3.731 (LC 2) k Min Value: 3.731 (LC 2) k



Job Number : 25032 Check
Model Name : Steel Joist Capacity Check

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# Selected Location Values:

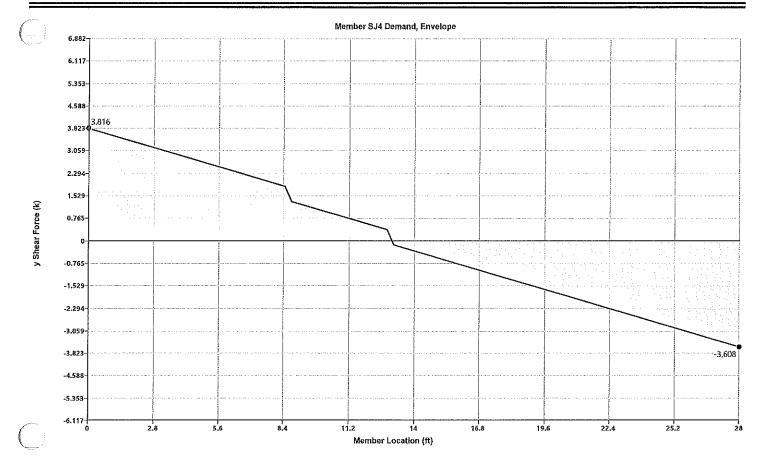
Location: 0 ft



Company : RCSE
Designer : Rob
Job Number : 25032
Model Name : Steel Joist Capacity Check

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**Selected Location Values:** 

Location: 0 ft

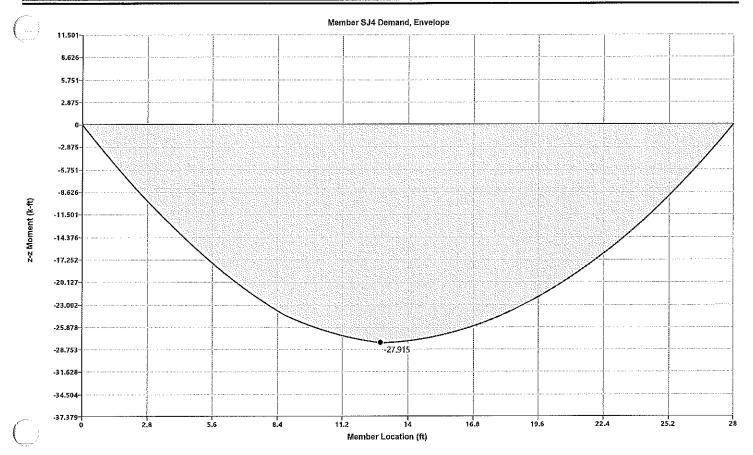
Max Value: 3.816 (LC 2) k Min Value: 3.816 (LC 2) k



Company : RCSE
Designer : Rob
Job Number : 25032
Model Name : Steel Joist Capacity Check

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**Selected Location Values:** 

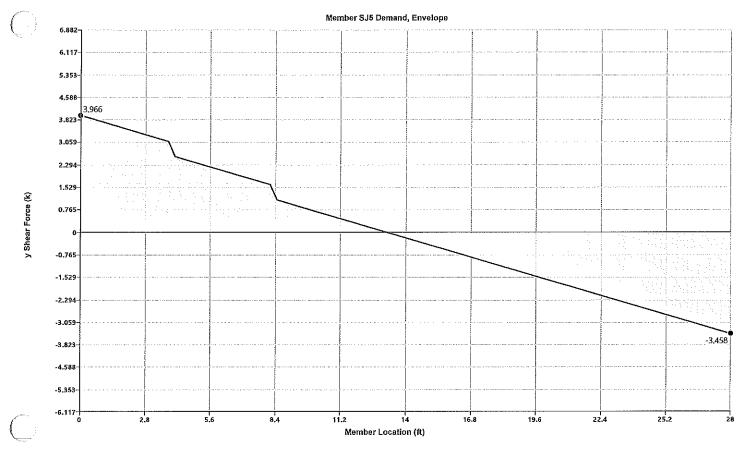
Location: 0 ft



Company: RCSE
Designer: Rob

Job Number : 25032 Model Name : Steel Joist Capacity Check Page 32 of 33

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Selected Location Values:

Location: 0 ft

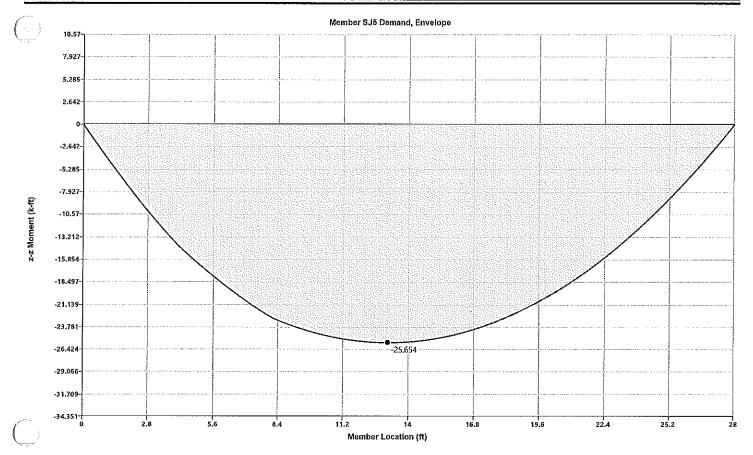
Max Value: 3.966 (LC 2) k Min Value: 3.966 (LC 2) k



Model Name: Steel Joist Capacity Check

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# **Selected Location Values:**

Location: 0 ft