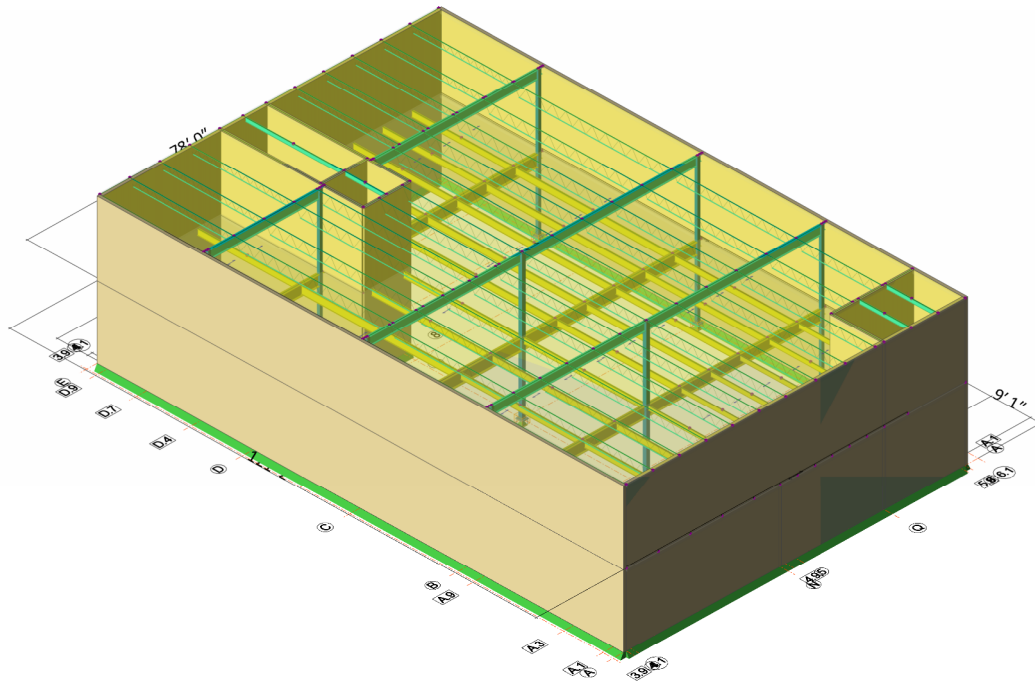


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Structure

Structure

Action Codes

General Loading	ASCE7 (2022)
Wind Loading	ASCE7 (2022)
Snow Loading	ASCE7 (2022)
Seismic Loading	ASCE7 (2022)
Combinations	ASCE7 (2022)

Resistance Codes

Steel Design	AISC 360/341 LRFD (2016)
Concrete Design	ACI 318 (2022)
Composite Design	AISC 360/341 LRFD (2016)
Timber Design	NDS LRFD (2018)
Masonry Design	TMS 402/602 ASD (2022)
Foundation Design	No Design Code
Seismic Design and Detailing	ASCE7 (2016)
Steel Fire Design	No Design Code

Construction Levels

Ref.	Name	Type	Level [ft, in]	Spacing [ft, in]	Source	Slab Thickness [in]	Floor
2	2	T.O.S	135' 0"	17' 8"			•
1	1	T.O.S	117' 4"	17' 4"			•
Base	Base	T.O.F	100' 0"			0	•

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Combinations

Name	Class	Active	Strength	Service
1 ASD ₁ -D	Gravity	●	●	●
2 ASD ₂ -D+L	Gravity	●	●	●
3 ASD ₃ -D+Lr	Gravity	●	●	●
4 ASD _{4.1} -D+0.7S	Gravity	●	●	●
5 ASD ₅ -D+0.75L+0.75Lr	Gravity	●	●	●
6 ASD _{6.1} -D+0.75L+0.525S	Gravity	●	●	●
7 LRFD ₁ -1.4D	Gravity	●	●	
8 LRFD ₂ -1.2D+1.6L	Gravity	●	●	
9 LRFD ₃ -1.2D+1.6L+0.5Lr	Gravity	●	●	
10 LRFD _{4.1} -1.2D+1.6L+0.3S	Gravity	●	●	
11 LRFD ₅ -1.2D+L+1.6Lr	Gravity	●	●	
12 LRFD _{6.1} -1.2D+L+S	Gravity	●	●	

1 ASD₁-D

Loadcase Title	Strength	Service
1 Self weight - excluding slabs	1.000	1.000
2 Slab self weight	1.000	1.000
3 Dead	1.000	1.000

2 ASD₂-D+L

Loadcase Title	Strength	Service
1 Self weight - excluding slabs	1.000	1.000
2 Slab self weight	1.000	1.000
3 Dead	1.000	1.000
4 Live	1.000	1.000

3 ASD₃-D+Lr

Loadcase Title	Strength	Service
1 Self weight - excluding slabs	1.000	1.000
2 Slab self weight	1.000	1.000
3 Dead	1.000	1.000
5 Roof Live	1.000	1.000

4 ASD_{4.1}-D+0.7S

Loadcase Title	Strength	Service
1 Self weight - excluding slabs	1.000	1.000
2 Slab self weight	1.000	1.000
3 Dead	1.000	1.000

5 ASD₅-D+0.75L+0.75Lr

Loadcase Title	Strength	Service
1 Self weight - excluding slabs	1.000	1.000
2 Slab self weight	1.000	1.000
3 Dead	1.000	1.000
4 Live	0.750	0.750
5 Roof Live	0.750	0.750

6 ASD_{6.1}-D+0.75L+0.525S

Loadcase Title	Strength	Service
1 Self weight - excluding slabs	1.000	1.000
2 Slab self weight	1.000	1.000
3 Dead	1.000	1.000

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Loadcase Title	Strength	Service
4 Live	0.750	0.750

7 LRFD₁-1.4D

Loadcase Title	Strength	Service
1 Self weight - excluding slabs	1.400	1.000
2 Slab self weight	1.400	1.000
3 Dead	1.400	1.000

8 LRFD₂-1.2D+1.6L

Loadcase Title	Strength	Service
1 Self weight - excluding slabs	1.200	1.000
2 Slab self weight	1.200	1.000
3 Dead	1.200	1.000
4 Live	1.600	1.000

9 LRFD₃-1.2D+1.6L+0.5Lr

Loadcase Title	Strength	Service
1 Self weight - excluding slabs	1.200	1.000
2 Slab self weight	1.200	1.000
3 Dead	1.200	1.000
4 Live	1.600	0.750
5 Roof Live	0.500	0.750

10 LRFD_{4.1}-1.2D+1.6L+0.3S

Loadcase Title	Strength	Service
1 Self weight - excluding slabs	1.200	1.000
2 Slab self weight	1.200	1.000
3 Dead	1.200	1.000
4 Live	1.600	0.750

11 LRFD₅-1.2D+L+1.6Lr

Loadcase Title	Strength	Service
1 Self weight - excluding slabs	1.200	1.000
2 Slab self weight	1.200	1.000
3 Dead	1.200	1.000
4 Live	1.000	0.000
5 Roof Live	1.600	1.000

12 LRFD_{6.1}-1.2D+L+S

Loadcase Title	Strength	Service
1 Self weight - excluding slabs	1.200	1.000
2 Slab self weight	1.200	1.000
3 Dead	1.200	1.000
4 Live	1.000	0.000

Wind Data

General

Method
ASCE/SEI 7-22 Chapter 27: Directional Procedure

Site Details

Site Ground Level	0" ft, in
Orientation of Principal Axes relative to Global axes	0.0000 °
Mean Roof Height, h	135' 0" ft, in
Level of Highest Opening in Building (Use Mean Roof Height)	135' 0" ft, in

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Overall Building X' Dimension	121' 2"	ft, in
Overall Building Y' Dimension	78' 0"	ft, in
Torsion Design Pressure Factor	75.00	%
Torsion Eccentricity	15.00	%
Wind Loading		
Basic Wind Speed, V	105.00	mph
Directionality Factor, K _d	0.850	
Ground Elevation above Sea Level, z _g	3097	ft
Ground Elevation Factor, K _e	0.894	
Enclosure Classification	Enclosed	
Gust Effect factor, G	0.850	
Principal Axis	+X'	
Exposure Category	B	
Topographic Feature	None	
Principal Axis	+Y'	
Exposure Category	B	
Topographic Feature	None	
Principal Axis	-X'	
Exposure Category	B	
Topographic Feature	None	
Principal Axis	-Y'	
Exposure Category	B	
Topographic Feature	None	

Intermediate Factors

+X'		
Height above ground, z	15' 0"	ft, in
Exposure Coefficient, K _z	0.573	
Topographic Factor, K _{zt}	1.000	
Height above ground, z	20' 0"	ft, in
Exposure Coefficient, K _z	0.619	
Topographic Factor, K _{zt}	1.000	
Height above ground, z	25' 0"	ft, in
Exposure Coefficient, K _z	0.656	
Topographic Factor, K _{zt}	1.000	
Height above ground, z	30' 0"	ft, in
Exposure Coefficient, K _z	0.689	
Topographic Factor, K _{zt}	1.000	
Height above ground, z	40' 0"	ft, in
Exposure Coefficient, K _z	0.744	
Topographic Factor, K _{zt}	1.000	
Height above ground, z	50' 0"	ft, in
Exposure Coefficient, K _z	0.790	
Topographic Factor, K _{zt}	1.000	
Height above ground, z	60' 0"	ft, in
Exposure Coefficient, K _z	0.829	
Topographic Factor, K _{zt}	1.000	
Height above ground, z	80' 0"	ft, in
Exposure Coefficient, K _z	0.895	
Topographic Factor, K _{zt}	1.000	
Height above ground, z	100' 0"	ft, in
Exposure Coefficient, K _z	0.950	
Topographic Factor, K _{zt}	1.000	
Height above ground, z	120' 0"	ft, in

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Exposure Coefficient, K_z 0.997
Topographic Factor, K_{zt} 1.000
Height above ground, z 135' 0" ft, in
Exposure Coefficient, K_z 1.029
Topographic Factor, K_{zt} 1.000

+Y'

Height above ground, z 15' 0" ft, in
Exposure Coefficient, K_z 0.573
Topographic Factor, K_{zt} 1.000
Height above ground, z 20' 0" ft, in
Exposure Coefficient, K_z 0.619
Topographic Factor, K_{zt} 1.000
Height above ground, z 25' 0" ft, in
Exposure Coefficient, K_z 0.656
Topographic Factor, K_{zt} 1.000
Height above ground, z 30' 0" ft, in
Exposure Coefficient, K_z 0.689
Topographic Factor, K_{zt} 1.000
Height above ground, z 40' 0" ft, in
Exposure Coefficient, K_z 0.744
Topographic Factor, K_{zt} 1.000
Height above ground, z 50' 0" ft, in
Exposure Coefficient, K_z 0.790
Topographic Factor, K_{zt} 1.000
Height above ground, z 60' 0" ft, in
Exposure Coefficient, K_z 0.829
Topographic Factor, K_{zt} 1.000
Height above ground, z 80' 0" ft, in
Exposure Coefficient, K_z 0.895
Topographic Factor, K_{zt} 1.000
Height above ground, z 100' 0" ft, in
Exposure Coefficient, K_z 0.950
Topographic Factor, K_{zt} 1.000
Height above ground, z 120' 0" ft, in
Exposure Coefficient, K_z 0.997
Topographic Factor, K_{zt} 1.000
Height above ground, z 135' 0" ft, in
Exposure Coefficient, K_z 1.029
Topographic Factor, K_{zt} 1.000

-X'

Height above ground, z 15' 0" ft, in
Exposure Coefficient, K_z 0.573
Topographic Factor, K_{zt} 1.000
Height above ground, z 20' 0" ft, in
Exposure Coefficient, K_z 0.619
Topographic Factor, K_{zt} 1.000
Height above ground, z 25' 0" ft, in
Exposure Coefficient, K_z 0.656
Topographic Factor, K_{zt} 1.000
Height above ground, z 30' 0" ft, in
Exposure Coefficient, K_z 0.689
Topographic Factor, K_{zt} 1.000

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Height above ground, z 40' 0" ft, in
 Exposure Coefficient, K_z 0.744
 Topographic Factor, K_{zt} 1.000
 Height above ground, z 50' 0" ft, in
 Exposure Coefficient, K_z 0.790
 Topographic Factor, K_{zt} 1.000
 Height above ground, z 60' 0" ft, in
 Exposure Coefficient, K_z 0.829
 Topographic Factor, K_{zt} 1.000
 Height above ground, z 80' 0" ft, in
 Exposure Coefficient, K_z 0.895
 Topographic Factor, K_{zt} 1.000
 Height above ground, z 100' 0" ft, in
 Exposure Coefficient, K_z 0.950
 Topographic Factor, K_{zt} 1.000
 Height above ground, z 120' 0" ft, in
 Exposure Coefficient, K_z 0.997
 Topographic Factor, K_{zt} 1.000
 Height above ground, z 135' 0" ft, in
 Exposure Coefficient, K_z 1.029
 Topographic Factor, K_{zt} 1.000

-Y'

Height above ground, z 15' 0" ft, in
 Exposure Coefficient, K_z 0.573
 Topographic Factor, K_{zt} 1.000
 Height above ground, z 20' 0" ft, in
 Exposure Coefficient, K_z 0.619
 Topographic Factor, K_{zt} 1.000
 Height above ground, z 25' 0" ft, in
 Exposure Coefficient, K_z 0.656
 Topographic Factor, K_{zt} 1.000
 Height above ground, z 30' 0" ft, in
 Exposure Coefficient, K_z 0.689
 Topographic Factor, K_{zt} 1.000
 Height above ground, z 40' 0" ft, in
 Exposure Coefficient, K_z 0.744
 Topographic Factor, K_{zt} 1.000
 Height above ground, z 50' 0" ft, in
 Exposure Coefficient, K_z 0.790
 Topographic Factor, K_{zt} 1.000
 Height above ground, z 60' 0" ft, in
 Exposure Coefficient, K_z 0.829
 Topographic Factor, K_{zt} 1.000
 Height above ground, z 80' 0" ft, in
 Exposure Coefficient, K_z 0.895
 Topographic Factor, K_{zt} 1.000
 Height above ground, z 100' 0" ft, in
 Exposure Coefficient, K_z 0.950
 Topographic Factor, K_{zt} 1.000
 Height above ground, z 120' 0" ft, in
 Exposure Coefficient, K_z 0.997
 Topographic Factor, K_{zt} 1.000

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Height above ground, z 135' 0" ft, in
Exposure Coefficient, K_z 1.029
Topographic Factor, K_{zt} 1.000

Velocity Pressures

+X'

Height above ground, z 15' 0" ft, in
Velocity Pressure, $q_z \times K_d$ 12.3 psf
Height above ground, z 20' 0" ft, in
Velocity Pressure, $q_z \times K_d$ 13.3 psf
Height above ground, z 25' 0" ft, in
Velocity Pressure, $q_z \times K_d$ 14.1 psf
Height above ground, z 30' 0" ft, in
Velocity Pressure, $q_z \times K_d$ 14.8 psf
Height above ground, z 40' 0" ft, in
Velocity Pressure, $q_z \times K_d$ 15.9 psf
Height above ground, z 50' 0" ft, in
Velocity Pressure, $q_z \times K_d$ 16.9 psf
Height above ground, z 60' 0" ft, in
Velocity Pressure, $q_z \times K_d$ 17.8 psf
Height above ground, z 80' 0" ft, in
Velocity Pressure, $q_z \times K_d$ 19.2 psf
Height above ground, z 100' 0" ft, in
Velocity Pressure, $q_z \times K_d$ 20.4 psf
Height above ground, z 120' 0" ft, in
Velocity Pressure, $q_z \times K_d$ 21.4 psf
Height above ground, z 135' 0" ft, in
Velocity Pressure, $q_z \times K_d$ 22.1 psf

+Y'

Height above ground, z 15' 0" ft, in
Velocity Pressure, $q_z \times K_d$ 12.3 psf
Height above ground, z 20' 0" ft, in
Velocity Pressure, $q_z \times K_d$ 13.3 psf
Height above ground, z 25' 0" ft, in
Velocity Pressure, $q_z \times K_d$ 14.1 psf
Height above ground, z 30' 0" ft, in
Velocity Pressure, $q_z \times K_d$ 14.8 psf
Height above ground, z 40' 0" ft, in
Velocity Pressure, $q_z \times K_d$ 15.9 psf
Height above ground, z 50' 0" ft, in
Velocity Pressure, $q_z \times K_d$ 16.9 psf
Height above ground, z 60' 0" ft, in
Velocity Pressure, $q_z \times K_d$ 17.8 psf
Height above ground, z 80' 0" ft, in
Velocity Pressure, $q_z \times K_d$ 19.2 psf
Height above ground, z 100' 0" ft, in
Velocity Pressure, $q_z \times K_d$ 20.4 psf
Height above ground, z 120' 0" ft, in
Velocity Pressure, $q_z \times K_d$ 21.4 psf
Height above ground, z 135' 0" ft, in
Velocity Pressure, $q_z \times K_d$ 22.1 psf

-X'

Height above ground, z 15' 0" ft, in

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Velocity Pressure, $q_z \times K_d$ 12.3 psf
 Height above ground, z 20' 0" ft, in
 Velocity Pressure, $q_z \times K_d$ 13.3 psf
 Height above ground, z 25' 0" ft, in
 Velocity Pressure, $q_z \times K_d$ 14.1 psf
 Height above ground, z 30' 0" ft, in
 Velocity Pressure, $q_z \times K_d$ 14.8 psf
 Height above ground, z 40' 0" ft, in
 Velocity Pressure, $q_z \times K_d$ 15.9 psf
 Height above ground, z 50' 0" ft, in
 Velocity Pressure, $q_z \times K_d$ 16.9 psf
 Height above ground, z 60' 0" ft, in
 Velocity Pressure, $q_z \times K_d$ 17.8 psf
 Height above ground, z 80' 0" ft, in
 Velocity Pressure, $q_z \times K_d$ 19.2 psf
 Height above ground, z 100' 0" ft, in
 Velocity Pressure, $q_z \times K_d$ 20.4 psf
 Height above ground, z 120' 0" ft, in
 Velocity Pressure, $q_z \times K_d$ 21.4 psf
 Height above ground, z 135' 0" ft, in
 Velocity Pressure, $q_z \times K_d$ 22.1 psf

-Y'

Height above ground, z 15' 0" ft, in
 Velocity Pressure, $q_z \times K_d$ 12.3 psf
 Height above ground, z 20' 0" ft, in
 Velocity Pressure, $q_z \times K_d$ 13.3 psf
 Height above ground, z 25' 0" ft, in
 Velocity Pressure, $q_z \times K_d$ 14.1 psf
 Height above ground, z 30' 0" ft, in
 Velocity Pressure, $q_z \times K_d$ 14.8 psf
 Height above ground, z 40' 0" ft, in
 Velocity Pressure, $q_z \times K_d$ 15.9 psf
 Height above ground, z 50' 0" ft, in
 Velocity Pressure, $q_z \times K_d$ 16.9 psf
 Height above ground, z 60' 0" ft, in
 Velocity Pressure, $q_z \times K_d$ 17.8 psf
 Height above ground, z 80' 0" ft, in
 Velocity Pressure, $q_z \times K_d$ 19.2 psf
 Height above ground, z 100' 0" ft, in
 Velocity Pressure, $q_z \times K_d$ 20.4 psf
 Height above ground, z 120' 0" ft, in
 Velocity Pressure, $q_z \times K_d$ 21.4 psf
 Height above ground, z 135' 0" ft, in
 Velocity Pressure, $q_z \times K_d$ 22.1 psf

Generated Loadcases

11 Wind +X', GCpi 0.18, -Cp

Wall Zone Loads

Reference	Zone	Design Pressure [psf]	Area [ft²]	Applied Load [kip]
WI 1	W120	10.6	1560	16.5
	W135	11.0	1170	12.9
WI 2	S	-17.1	4241	-72.5

Reference	Zone	Design Pressure [psf]	Area [ft ²]	Applied Load [kip]
WI 3	L	-11.3	2730	-30.8
WI 4	S	-17.1	4241	-72.5

Average Wall Loads

Windward 10.8 psf
 Leeward -11.3 psf
 Left -17.1 psf
 Right -17.1 psf

Roof Zone Loads

Reference	Zone	Design Pressure [psf]	Area [ft ²]	Applied Load
RI 1	1	-23.5	5265	-123.6
	2	-17.1	4186	-71.6

Lateral Loads by Level

Level	Total [kip]		Center [ft, in]	
	X	Y	X	Y
St. Base (Base)	0.0	14.8	42' 0"	-
St. 1 (1)	0.0	30.0	42' 0"	-
St. 2 (2)	0.0	15.4	42' 0"	-
Total	0.0	60.2	-	-

Total Loads

X 0.0 kip
 Y 60.2 kip
 Z -195.1 kip

12 Wind +X', GCpi 0.18, +Cp

Wall Zone Loads

Reference	Zone	Design Pressure [psf]	Area [ft ²]	Applied Load
WI 1	W120	10.6	1560	16.5
	W135	11.0	1170	12.9
WI 2	S	-17.1	4241	-72.5
WI 3	L	-11.3	2730	-30.8
WI 4	S	-17.1	4241	-72.5

Average Wall Loads

Windward 10.8 psf
 Leeward -11.3 psf
 Left -17.1 psf
 Right -17.1 psf

Roof Zone Loads

Reference	Zone	Design Pressure [psf]	Area [ft ²]	Applied Load
RI 1	1	-7.3	5265	-38.7
	2	-7.3	4186	-30.7

Lateral Loads by Level

Level	Total [kip]		Center [ft, in]	
	X	Y	X	Y
St. Base (Base)	0.0	14.8	42' 0"	-
St. 1 (1)	0.0	30.0	42' 0"	-

Level	Total [kip]		Center [ft, in]	
	X	Y	X	Y
St. 2 (2)	0.0	15.4	42' 0"	-
Total	0.0	60.2	-	-

Total Loads

X 0.0 kip
Y 60.2 kip
Z -69.4 kip

13 Wind +X'+Y', GCpi 0.18

Wall Zone Loads

Reference	Zone	Design Pressure [psf]	Area [ft ²]	Applied Load
WI 1	WX120	7.9	1560	12.4
	WX135	8.3	1170	9.7
WI 2	WY120	7.9	2423	19.2
	WY135	8.3	1818	15.0
WI 3	LX	-8.5	2730	-23.1
WI 4	LY	-10.0	4241	-42.4

Average Wall Loads

Windward 8.1 psf
Leeward -9.4 psf
Left 0.0 psf
Right 0.0 psf

Lateral Loads by Level

Level	Total [kip]		Center [ft, in]	
	X	Y	X	Y
St. Base (Base)	-18.8	11.1	42' 0"	60' 9"
St. 1 (1)	-38.3	22.5	42' 0"	60' 9"
St. 2 (2)	-19.6	11.5	42' 0"	60' 9"
Total	-76.7	45.1	-	-

Total Loads

X -76.7 kip
Y 45.1 kip
Z 0.0 kip

14 Wind +Y', GCpi 0.18, -Cp

Wall Zone Loads

Reference	Zone	Design Pressure [psf]	Area [ft ²]	Applied Load
WI 1	S	-17.1	2730	-46.7
WI 2	W120	10.6	2423	25.6
	W135	11.0	1818	20.0
WI 3	S	-17.1	2730	-46.7
WI 4	L	-13.3	4241	-56.6

Average Wall Loads

Windward 10.8 psf
Leeward -13.3 psf
Left -17.1 psf
Right -17.1 psf

Roof Zone Loads

Reference	Zone	Design Pressure [psf]	Area [ft ²]	Applied Load
RI 1	1	-23.5	8179	-191.9
	2	-17.1	1272	-21.7

Lateral Loads by Level

Level	Total [kip]		Center [ft, in]	
	X	Y	X	Y
St. Base (Base)	-25.1	0.0	-	60' 9"
St. 1 (1)	-51.1	0.0	-	60' 9"
St. 2 (2)	-26.1	0.0	-	60' 9"
Total	-102.2	0.0	-	-

Total Loads

X -102.2 kip
Y 0.0 kip
Z -213.7 kip

15 Wind +Y', GCpi 0.18, +Cp

Wall Zone Loads

Reference	Zone	Design Pressure [psf]	Area [ft ²]	Applied Load
WI 1	S	-17.1	2730	-46.7
WI 2	W120	10.6	2423	25.6
	W135	11.0	1818	20.0
WI 3	S	-17.1	2730	-46.7
WI 4	L	-13.3	4241	-56.6

Average Wall Loads

Windward 10.8 psf
Leeward -13.3 psf
Left -17.1 psf
Right -17.1 psf

Roof Zone Loads

Reference	Zone	Design Pressure [psf]	Area [ft ²]	Applied Load
RI 1	1	-7.3	8179	-60.1
	2	-7.3	1272	-9.3

Lateral Loads by Level

Level	Total [kip]		Center [ft, in]	
	X	Y	X	Y
St. Base (Base)	-25.1	0.0	-	60' 9"
St. 1 (1)	-51.1	0.0	-	60' 9"
St. 2 (2)	-26.1	0.0	-	60' 9"
Total	-102.2	0.0	-	-

Total Loads

X -102.2 kip
Y 0.0 kip
Z -69.4 kip

16 Wind -X'+Y', GCpi 0.18

Wall Zone Loads

Reference	Zone	Design Pressure [psf]	Area [ft²]	Applied Load
WI 1	LX	-8.5	2730	-23.1
WI 2	WY120	7.9	2423	19.2
	WY135	8.3	1818	15.0
WI 3	WX120	7.9	1560	12.4
	WX135	8.3	1170	9.7
WI 4	LY	-10.0	4241	-42.4

Average Wall Loads

Windward 8.1 psf
 Leeward -9.4 psf
 Left 0.0 psf
 Right 0.0 psf

Lateral Loads by Level

Level	Total [kip]		Center [ft, in]	
	X	Y	X	Y
St. Base (Base)	-18.8	-11.1	42' 0"	60' 9"
St. 1 (1)	-38.3	-22.5	42' 0"	60' 9"
St. 2 (2)	-19.6	-11.5	42' 0"	60' 9"
Total	-76.7	-45.1	-	-

Total Loads

X -76.7 kip
 Y -45.1 kip
 Z 0.0 kip

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Wall Zone Loads

Reference	Zone	Design Pressure [psf]	Area [ft²]	Applied Load
WI 1	LX	-8.5	2730	-23.1
WI 2	LY	-10.0	4241	-42.4
WI 3	WX120	7.9	1560	12.4
	WX135	8.3	1170	9.7
WI 4	WY120	7.9	2423	19.2
	WY135	8.3	1818	15.0

Average Wall Loads

Windward 8.1 psf
 Leeward -9.4 psf
 Left 0.0 psf
 Right 0.0 psf

Lateral Loads by Level

Level	Total [kip]		Center [ft, in]	
	X	Y	X	Y
St. Base (Base)	18.8	-11.1	42' 0"	60' 9"
St. 1 (1)	38.3	-22.5	42' 0"	60' 9"
St. 2 (2)	19.6	-11.5	42' 0"	60' 9"
Total	76.7	-45.1	-	-

Total Loads

X 76.7 kip

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Y -45.1 kip
Z 0.0 kip

Snow Data

General

Method ASCE7

Basic data

Ground Snow Load, p_g	21.0	psf	ASCE7-22 Clause 7.2
Terrain Category	C (open terrain scattered obstructions)		
Exposure	Partially exposed		
Exposure Factor, C_e	1.000		ASCE7-22 Clause 7.3.1
Thermal Condition	All except below		
Roof Heat Transfer Resistance, R_{roof}	30.0	$\text{ft}^2\text{oFh/Btu}$	
Roof Heat Transfer Measure, U_{roof}	0.03	$\text{Btu/h/ft}^2/\text{oF}$	
Thermal Factor, C_t	1.167		ASCE7-22 Clause 7.3.2
Risk Category	III		
Winter Wind Parameter, W_2	0.350		
Flat Roof Snow Load, p_f	17.2	psf	ASCE7-22 Clause 7.3

Snow load cases

Minimum Snow Load	Yes
Minimum snow load, p_m	35.0 psf ASCE7-22 Clause 7.3.3
Balanced Snow Load	Yes
Unbalanced Snow Load	Yes
Drift Snow Load	Yes
Rain on Snow Surcharge	No

Structure

Loadcase Summary

1 Self weight - excluding slabs

Load Type	Force [kip]		
	X	Y	Z
Member Loads	0.0	0.0	101.8
Nodal Loads	0.0	0.0	0.0
Total NHF Dir1	5.3	0.0	0.0
Total NHF Dir2	0.0	5.3	0.0
Decomposable Loads	0.0	0.0	1662.1
1 Way Decomp Results	0.0	0.0	0.0
2 Way Decomp Results	0.0	0.0	0.0
Total User Applied Load	0.0	0.0	1763.9
Total Load on Structure	0.0	0.0	1763.9
Total Reaction	0.0	0.0	1763.9

2 Slab self weight

Load Type	Force [kip]		
	X	Y	Z
Member Loads	0.0	0.0	0.0
Nodal Loads	0.0	0.0	0.0
Total NHF Dir1	1.1	0.0	0.0
Total NHF Dir2	0.0	1.1	0.0
Decomposable Loads	0.0	0.0	350.8
1 Way Decomp Results	0.0	0.0	350.8
2 Way Decomp Results	0.0	0.0	0.0

Load Type	Force [kip]		
	X	Y	Z
Total User Applied Load	0.0	0.0	350.8
Total Load on Structure	0.0	0.0	350.8
Total Reaction	0.0	0.0	350.8

3 Dead

Load Type	Force [kip]		
	X	Y	Z
Member Loads	0.0	0.0	0.0
Nodal Loads	0.0	0.0	0.0
Total NHF Dir1	2.9	0.0	0.0
Total NHF Dir2	0.0	2.9	0.0
Decomposable Loads	0.0	0.0	955.8
1 Way Decomp Results	0.0	0.0	955.8
2 Way Decomp Results	0.0	0.0	0.0
Total User Applied Load	0.0	0.0	955.8
Total Load on Structure	0.0	0.0	955.8
Total Reaction	0.0	0.0	955.8

4 Live

Load Type	Force [kip]		
	X	Y	Z
Member Loads	0.0	0.0	0.0
Nodal Loads	0.0	0.0	0.0
Total NHF Dir1	2.6	0.0	0.0
Total NHF Dir2	0.0	2.6	0.0
Decomposable Loads	0.0	0.0	860.0
1 Way Decomp Results	0.0	0.0	860.0
2 Way Decomp Results	0.0	0.0	0.0
Total User Applied Load	0.0	0.0	860.0
Total Load on Structure	0.0	0.0	860.0
Total Reaction	0.0	0.0	860.0

5 Roof Live

Load Type	Force [kip]		
	X	Y	Z
Member Loads	0.0	0.0	0.0
Nodal Loads	0.0	0.0	0.0
Total NHF Dir1	0.6	0.0	0.0
Total NHF Dir2	0.0	0.6	0.0
Decomposable Loads	0.0	0.0	189.0
1 Way Decomp Results	0.0	0.0	189.0
2 Way Decomp Results	0.0	0.0	0.0
Total User Applied Load	0.0	0.0	189.0
Total Load on Structure	0.0	0.0	189.0
Total Reaction	0.0	0.0	189.0

7 Min Lateral Load A Dir1+

Load Type	Force [kip]		
	X	Y	Z
Member Loads	0.0	0.0	0.0
Nodal Loads	0.0	0.0	0.0
Total NHF Dir1	0.0	0.0	0.0

Load Type	Force [kip]		
	X	Y	Z
Total NHF Dir2	0.0	0.0	0.0
Decomposable Loads	0.0	0.0	0.0
1 Way Decomp Results	0.0	0.0	0.0
2 Way Decomp Results	0.0	0.0	0.0
Total User Applied Load	0.0	0.0	0.0
Total Load on Structure	0.0	0.0	0.0
Total Reaction	0.0	0.0	0.0

8 Min Lateral Load A Dir1-

Load Type	Force [kip]		
	X	Y	Z
Member Loads	0.0	0.0	0.0
Nodal Loads	0.0	0.0	0.0
Total NHF Dir1	0.0	0.0	0.0
Total NHF Dir2	0.0	0.0	0.0
Decomposable Loads	0.0	0.0	0.0
1 Way Decomp Results	0.0	0.0	0.0
2 Way Decomp Results	0.0	0.0	0.0
Total User Applied Load	0.0	0.0	0.0
Total Load on Structure	0.0	0.0	0.0
Total Reaction	0.0	0.0	0.0

9 Min Lateral Load A Dir2+

Load Type	Force [kip]		
	X	Y	Z
Member Loads	0.0	0.0	0.0
Nodal Loads	0.0	0.0	0.0
Total NHF Dir1	0.0	0.0	0.0
Total NHF Dir2	0.0	0.0	0.0
Decomposable Loads	0.0	0.0	0.0
1 Way Decomp Results	0.0	0.0	0.0
2 Way Decomp Results	0.0	0.0	0.0
Total User Applied Load	0.0	0.0	0.0
Total Load on Structure	0.0	0.0	0.0
Total Reaction	0.0	0.0	0.0

10 Min Lateral Load A Dir2-

Load Type	Force [kip]		
	X	Y	Z
Member Loads	0.0	0.0	0.0
Nodal Loads	0.0	0.0	0.0
Total NHF Dir1	0.0	0.0	0.0
Total NHF Dir2	0.0	0.0	0.0
Decomposable Loads	0.0	0.0	0.0
1 Way Decomp Results	0.0	0.0	0.0
2 Way Decomp Results	0.0	0.0	0.0
Total User Applied Load	0.0	0.0	0.0
Total Load on Structure	0.0	0.0	0.0
Total Reaction	0.0	0.0	0.0

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11 Wind +X',GCpi 0.18,-Cp

Load Type	Force [kip]		
	X	Y	Z
Member Loads	0.0	0.0	0.0
Nodal Loads	0.0	0.0	0.0
Total NHF Dir1	0.0	0.0	0.0
Total NHF Dir2	0.0	0.0	0.0
Decomposable Loads	0.0	60.2	-195.1
1 Way Decomp Results	0.0	0.0	0.0
2 Way Decomp Results	0.0	0.0	0.0
Total User Applied Load	0.0	60.2	-195.1
Total Load on Structure	0.0	60.2	-195.1
Total Reaction	0.0	-60.2	-195.1

12 Wind +X',GCpi 0.18,+Cp

Load Type	Force [kip]		
	X	Y	Z
Member Loads	0.0	0.0	0.0
Nodal Loads	0.0	0.0	0.0
Total NHF Dir1	0.0	0.0	0.0
Total NHF Dir2	0.0	0.0	0.0
Decomposable Loads	0.0	60.2	-69.4
1 Way Decomp Results	0.0	0.0	0.0
2 Way Decomp Results	0.0	0.0	0.0
Total User Applied Load	0.0	60.2	-69.4
Total Load on Structure	0.0	60.2	-69.4
Total Reaction	0.0	-60.2	-69.4

13 Wind +X'+Y',GCpi 0.18

Load Type	Force [kip]		
	X	Y	Z
Member Loads	0.0	0.0	0.0
Nodal Loads	0.0	0.0	0.0
Total NHF Dir1	0.0	0.0	0.0
Total NHF Dir2	0.0	0.0	0.0
Decomposable Loads	-76.7	45.1	0.0
1 Way Decomp Results	0.0	0.0	0.0
2 Way Decomp Results	0.0	0.0	0.0
Total User Applied Load	-76.7	45.1	0.0
Total Load on Structure	-76.7	45.1	0.0
Total Reaction	76.7	-45.1	0.0

14 Wind +Y',GCpi 0.18,-Cp

Load Type	Force [kip]		
	X	Y	Z
Member Loads	0.0	0.0	0.0
Nodal Loads	0.0	0.0	0.0
Total NHF Dir1	0.0	0.0	0.0
Total NHF Dir2	0.0	0.0	0.0
Decomposable Loads	-102.2	0.0	-213.7
1 Way Decomp Results	0.0	0.0	0.0
2 Way Decomp Results	0.0	0.0	0.0
Total User Applied Load	-102.2	0.0	-213.7

Load Type	Force [kip]		
	X	Y	Z
Total Load on Structure	-102.2	0.0	-213.7
Total Reaction	102.2	0.0	-213.7

15 Wind +Y',GCpi 0.18,+Cp

Load Type	Force [kip]		
	X	Y	Z
Member Loads	0.0	0.0	0.0
Nodal Loads	0.0	0.0	0.0
Total NHF Dir1	0.0	0.0	0.0
Total NHF Dir2	0.0	0.0	0.0
Decomposable Loads	-102.2	0.0	-69.4
1 Way Decomp Results	0.0	0.0	0.0
2 Way Decomp Results	0.0	0.0	0.0
Total User Applied Load	-102.2	0.0	-69.4
Total Load on Structure	-102.2	0.0	-69.4
Total Reaction	102.2	0.0	-69.4

16 Wind -X'+Y',GCpi 0.18

Load Type	Force [kip]		
	X	Y	Z
Member Loads	0.0	0.0	0.0
Nodal Loads	0.0	0.0	0.0
Total NHF Dir1	0.0	0.0	0.0
Total NHF Dir2	0.0	0.0	0.0
Decomposable Loads	-76.7	-45.1	0.0
1 Way Decomp Results	0.0	0.0	0.0
2 Way Decomp Results	0.0	0.0	0.0
Total User Applied Load	-76.7	-45.1	0.0
Total Load on Structure	-76.7	-45.1	0.0
Total Reaction	76.7	45.1	0.0

17 Wind -X'-Y',GCpi 0.18

Load Type	Force [kip]		
	X	Y	Z
Member Loads	0.0	0.0	0.0
Nodal Loads	0.0	0.0	0.0
Total NHF Dir1	0.0	0.0	0.0
Total NHF Dir2	0.0	0.0	0.0
Decomposable Loads	76.7	-45.1	0.0
1 Way Decomp Results	0.0	0.0	0.0
2 Way Decomp Results	0.0	0.0	0.0
Total User Applied Load	76.7	-45.1	0.0
Total Load on Structure	76.7	-45.1	0.0
Total Reaction	-76.7	45.1	0.0

27 Minimum Snow Load

Load Type	Force [kip]		
	X	Y	Z
Member Loads	0.0	0.0	0.0
Nodal Loads	0.0	0.0	0.0
Total NHF Dir1	0.0	0.0	0.0
Total NHF Dir2	0.0	0.0	0.0

Load Type	Force [kip]		
	X	Y	Z
Decomposable Loads	0.0	0.0	198.5
1 Way Decomp Results	0.0	0.0	198.5
2 Way Decomp Results	0.0	0.0	0.0
Total User Applied Load	0.0	0.0	198.5
Total Load on Structure	0.0	0.0	198.5
Total Reaction	0.0	0.0	198.5

28 Balanced Snow Load

Load Type	Force [kip]		
	X	Y	Z
Member Loads	0.0	0.0	0.0
Nodal Loads	0.0	0.0	0.0
Total NHF Dir1	0.0	0.0	0.0
Total NHF Dir2	0.0	0.0	0.0
Decomposable Loads	0.0	0.0	162.1
1 Way Decomp Results	0.0	0.0	162.1
2 Way Decomp Results	0.0	0.0	0.0
Total User Applied Load	0.0	0.0	162.1
Total Load on Structure	0.0	0.0	162.1
Total Reaction	0.0	0.0	162.1

29 Unbalanced Snow Load 1

Load Type	Force [kip]		
	X	Y	Z
Member Loads	0.0	0.0	0.0
Nodal Loads	0.0	0.0	0.0
Total NHF Dir1	0.0	0.0	0.0
Total NHF Dir2	0.0	0.0	0.0
Decomposable Loads	0.0	0.0	0.0
1 Way Decomp Results	0.0	0.0	0.0
2 Way Decomp Results	0.0	0.0	0.0
Total User Applied Load	0.0	0.0	0.0
Total Load on Structure	0.0	0.0	0.0
Total Reaction	0.0	0.0	0.0

30 Drift Snow Load 1

Load Type	Force [kip]		
	X	Y	Z
Member Loads	0.0	0.0	0.0
Nodal Loads	0.0	0.0	0.0
Total NHF Dir1	0.0	0.0	0.0
Total NHF Dir2	0.0	0.0	0.0
Decomposable Loads	0.0	0.0	212.7
1 Way Decomp Results	0.0	0.0	212.7
2 Way Decomp Results	0.0	0.0	0.0
Total User Applied Load	0.0	0.0	212.7
Total Load on Structure	0.0	0.0	212.7
Total Reaction	0.0	0.0	212.7