



Components & Cladding Zones

WIND DESIGN ASCE 7-10

Risk Category	II
Directionality (Kd)	0.85
Mean Roof H (h)	24.5
Parapet ht above grd	34
Exposure Category	C
Enclosure Classif.	Enclosed Building
Internal pressure	0.18
a =	9.8 ft
Minimum parapet height at building perimeter =	4.00 ft
Roof Angle	1.2 deg
Type of roof	Monoslope

COMPONENTS & CLADDING

ULTIMATE LOADS

Basic Wind speed	115.0 mph	(LRFD)			
Base pressure (qh) =	27.1 psf	(LRFD)			
Surface Pressure (psf) -LRFD Values					
Area	10 sf	20 sf	50 sf	100 sf	200 sf
Negative Zone 1	-32.0 psf	-31.1 psf	-30.1 psf	-29.3 psf	-28.3 psf
Negative Zone 2	-53.6 psf	-47.9 psf	-40.4 psf	-34.7 psf	-34.7 psf
Negative Zone 3	-53.6 psf	-47.9 psf	-40.4 psf	-34.7 psf	-34.7 psf
Positive All Zones	16.0 psf	16.0 psf	16.0 psf	16.0 psf	16.0 psf
Overhang Zone 1&2	-46.0 psf	-45.2 psf	-44.2 psf	-43.3 psf	-37.5 psf
Overhang Zone 3	-46.0 psf	-45.2 psf	-44.2 psf	-43.3 psf	-37.5 psf

Note: GCP reduced by 10% due to roof angle <= 10 deg.

Surface Pressure (psf) -LRFD Values					
Area	10 sf	20 sf	50 sf	100 sf	500 sf
Negative Zone 4	-31.7 psf	-30.4 psf	-28.7 psf	-27.4 psf	-24.4 psf
Negative Zone 5	-39.0 psf	-36.4 psf	-33.0 psf	-30.4 psf	-24.4 psf
Positive Zone 4 & 5	29.3 psf	28.0 psf	26.2 psf	24.9 psf	21.9 psf

Surface Pressure (psf) -LRFD Values				
Area	10 sf	50 sf	100 sf	500 sf
Positive Interior (Zone 4)	78.4 psf	60.9 psf	53.4 psf	50.2 psf
Positive Corner (Zone 5)	78.4 psf	60.9 psf	53.4 psf	50.2 psf
Negative Interior (Zone 4)	-54.9 psf	-48.4 psf	-45.6 psf	-39.2 psf
Negative Corner (Zone 5)	-62.7 psf	-53.0 psf	-48.8 psf	-39.2 psf

SERVICE LOADS

Basic Wind speed	89.1 mph	(ASD)			
Base pressure (qh) =	16.3 psf	(ASD)			
Surface Pressure (psf) -ASD Values					
Area	10 sf	20 sf	50 sf	100 sf	200 sf
Negative Zone 1	-19.2 psf	-18.7 psf	-18.0 psf	-17.6 psf	-17.6 psf
Negative Zone 2	-32.2 psf	-28.8 psf	-24.2 psf	-20.8 psf	-20.8 psf
Negative Zone 3	-32.2 psf	-28.8 psf	-24.2 psf	-20.8 psf	-20.8 psf
Positive All Zones	9.6 psf	9.6 psf	9.6 psf	9.6 psf	9.6 psf
Overhang Zone 1&2	-27.6 psf	-27.1 psf	-26.5 psf	-26.0 psf	-22.5 psf
Overhang Zone 3	-27.6 psf	-27.1 psf	-26.5 psf	-26.0 psf	-22.5 psf

Note: GCP reduced by 10% due to roof angle <= 10 deg.

Surface Pressure (psf) -ASD Values					
Area	10 sf	20 sf	50 sf	100 sf	500 sf
Negative Zone 4	-19.0 psf	-18.2 psf	-17.2 psf	-16.4 psf	-14.6 psf
Negative Zone 5	-23.4 psf	-21.8 psf	-19.8 psf	-18.2 psf	-14.6 psf
Positive Zone 4 & 5	17.6 psf	16.8 psf	15.7 psf	15.0 psf	13.2 psf

Surface Pressure (psf) -ASD Values				
Area	10 sf	50 sf	100 sf	500 sf
Positive Interior (Zone 4)	47.0 psf	36.6 psf	32.1 psf	30.1 psf
Positive Corner (Zone 5)	47.0 psf	36.6 psf	32.1 psf	30.1 psf
Negative Interior (Zone 4)	-32.9 psf	-29.0 psf	-27.4 psf	-23.5 psf
Negative Corner (Zone 5)	-37.6 psf	-31.8 psf	-29.3 psf	-23.5 psf

Note: Pressures listed above are in both values. Ultimate (LRFD) & Service or Nominal (ASD) which have been obtained by multiplying Ultimate values by 0.6. Use service values (ASD) for Wind Resistance Testing. Compliance per FBC 1609.1.5

Components & Cladding Pressures - Main Roof

WIND DESIGN ASCE 7-10

Risk Category	II
Directionality (Kd)	0.85
Mean Roof H (h)	16.25
Parapet ht above grd	18.5
Exposure Category	C
Enclosure Classif.	Enclosed Building
Internal pressure	0.18
a =	8.1 ft
Minimum parapet height at building perimeter =	2.25 ft
Roof Angle	0.0 deg
Type of roof	Monoslope

COMPONENTS & CLADDING

ULTIMATE LOADS

Basic Wind speed	115.0 mph	(LRFD)			
Base pressure (qh) =	24.9 psf	(LRFD)			
Surface Pressure (psf) -LRFD Values					
Area	10 sf	20 sf	50 sf	100 sf	200 sf
Negative Zone 1	-29.3 psf	-28.6 psf	-27.6 psf	-26.8 psf	-26.8 psf
Negative Zone 2	-49.2 psf	-44.0 psf	-37.0 psf	-31.8 psf	-31.8 psf
Negative Zone 3	-74.0 psf	-61.3 psf	-44.5 psf	-31.8 psf	-31.8 psf
Positive All Zones	16.0 psf	16.0 psf	16.0 psf	16.0 psf	16.0 psf
Overhang Zone 1&2	-42.2 psf	-41.5 psf	-40.5 psf	-39.6 psf	-34.4 psf
Overhang Zone 3	-69.6 psf	-54.6 psf	-34.8 psf	-19.3 psf	-19.9 psf

Note: GCP reduced by 10% due to roof angle <= 10 deg.

Surface Pressure (psf) -LRFD Values					
Area	10 sf	20 sf	50 sf	100 sf	500 sf
Negative Zone 4	-29.1 psf	-27.9 psf	-26.3 psf	-25.1 psf	-22.4 psf
Negative Zone 5	-35.8 psf	-33.4 psf	-30.3 psf	-27.9 psf	-22.4 psf
Positive Zone 4 & 5	26.8 psf	25.6 psf	24.1 psf	22.9 psf	20.1 psf

Surface Pressure (psf) -LRFD Values				
Area	10 sf	50 sf	100 sf	500 sf
Positive Interior (Zone 4)	68.9 psf	53.6 psf	47.0 psf	44.2 psf
Positive Corner (Zone 5)	68.9 psf	53.6 psf	47.0 psf	44.2 psf
Negative Interior (Zone 4)	-48.3 psf	-42.6 psf	-40.1 psf	-34.5 psf
Negative Corner (Zone 5)	-55.1 psf	-46.6 psf	-43.0 psf	-34.5 psf

SERVICE LOADS

Basic Wind speed	89.1 mph	(ASD)			
Base pressure (qh) =	14.9 psf	(ASD)			
Surface Pressure (psf) -ASD Values					
Area	10 sf	20 sf	50 sf	100 sf	200 sf
Negative Zone 1	-17.6 psf	-17.1 psf	-16.5 psf	-16.1 psf	-16.1 psf
Negative Zone 2	-29.5 psf	-26.4 psf	-22.2 psf	-19.1 psf	-19.1 psf
Negative Zone 3	-44.4 psf	-36.8 psf	-26.7 psf	-19.1 psf	-19.1 psf
Positive All Zones	9.6 psf	9.6 psf	9.6 psf	9.6 psf	9.6 psf
Overhang Zone 1&2	-25.3 psf	-24.9 psf	-24.3 psf	-23.9 psf	-20.6 psf
Overhang Zone 3	-41.7 psf	-32.8 psf	-20.9 psf	-11.9 psf	-11.9 psf

Note: GCP reduced by 10% due to roof angle <= 10 deg.

Surface Pressure (psf) -ASD Values					
Area	10 sf	20 sf	50 sf	100 sf	500 sf
Negative Zone 4	-17.4 psf	-16.7 psf	-15.8 psf	-15.1 psf	-13.4 psf
Negative Zone 5	-21.5 psf	-20.2 psf	-18.2 psf	-16.7 psf	-13.4 psf
Positive Zone 4 & 5	16.1 psf	15.4 psf	14.4 psf	13.2 psf	11.2 psf

Surface Pressure (psf) -ASD Values				
Area	10 sf	50 sf	100 sf	500 sf
Positive Interior (Zone 4)	47.0 psf	36.2 psf	32.1 psf	30.5 psf
Positive Corner (Zone 5)	47.0 psf	36.2 psf	32.1 psf	30.5 psf
Negative Interior (Zone 4)	-29.0 psf	-25.5 psf	-24.0 psf	-20.7 psf
Negative Corner (Zone 5)	-33.1 psf	-28.0 psf	-25.8 psf	-20.7 psf

Note: Pressures listed above are in both values. Ultimate (LRFD) & Service or Nominal (ASD) which have been obtained by multiplying Ultimate values by 0.6. Use service values (ASD) for Wind Resistance Testing. Compliance per FBC 1609.1.5

Components & Cladding Pressures - Low Roof

WIND DESIGN ASCE 7-10

Risk Category	II
Directionality (Kd)	0.85
Mean Roof H (h)	28.1
Parapet ht above grd	29.8
Exposure Category	C
Enclosure Classif.	Enclosed Building
Internal pressure	0.18
a =	11.2 ft
Minimum parapet height at building perimeter =	1.70 ft
Roof Angle	1.2 deg
Type of roof	Monoslope

COMPONENTS & CLADDING

ULTIMATE LOADS

Basic Wind speed	115.0 mph	(LRFD)			
Base pressure (qh) =	27.9 psf	(LRFD)			
Surface Pressure (psf) -LRFD Values					
Area	10 sf	20 sf	50 sf	100 sf	200 sf
Negative Zone 1	-32.9 psf	-32.1 psf	-30.9 psf	-30.1 psf	-30.1 psf
Negative Zone 2	-55.2 psf	-49.3 psf	-41.6 psf	-35.7 psf	-35.7 psf
Negative Zone 3	-83.1 psf	-68.8 psf	-50.0 psf	-35.7 psf	-35.7 psf
Positive All Zones	16.0 psf	16.0 psf	16.0 psf	16.0 psf	16.0 psf
Overhang Zone 1&2	-47.4 psf	-46.6 psf	-45.4 psf	-44.6 psf	-38.6 psf
Overhang Zone 3	-78.1 psf	-61.3 psf	-39.1 psf	-22.3 psf	-22.3 psf

Note: GCP reduced by 10% due to roof angle <= 10 deg.

Surface Pressure (psf) -LRFD Values					
Area	10 sf	20 sf	50 sf	100 sf	500 sf
Negative Zone 4	-32.6 psf	-31.3 psf	-29.5 psf	-28.2 psf	-25.1 psf
Negative Zone 5	-40.1 psf	-37.5 psf	-34.0 psf	-31.3 psf	-25.1 psf
Positive Zone 4 & 5	30.1 psf	28.8 psf	27.0 psf	25.7 psf	22.6 psf

Surface Pressure (psf) -LRFD Values				
Area	10 sf	50 sf	100 sf	500 sf
Positive Interior (Zone 4)	76.2 psf	59.3 psf	52.0 psf	50.0 psf
Positive Corner (Zone 5)	104.4 psf	67.0 psf	59.0 psf	56.0 psf
Negative Interior (Zone 4)	-53.3 psf	-47.0 psf	-44.4 psf	-38.0 psf
Negative Corner (Zone 5)	-61.0 psf	-47.0 psf	-47.5 psf	-38.0 psf

SERVICE LOADS

Basic Wind speed	89.1 mph	(ASD)			
Base pressure (qh) =	16.7 psf	(ASD)			
Surface Pressure (psf) -ASD Values					
Area	10 sf	20 sf	50 sf	100 sf	200 sf
Negative Zone 1	-19.7 psf	-19.2 psf	-18.6 psf	-18.1 psf	-18.1 psf
Negative Zone 2	-33.1 psf	-29.5 psf	-24.9 psf	-21.4 psf	-21.4 psf
Negative Zone 3	-49.8 psf	-40.0 psf	-30.0 psf	-21.4 psf	-21.4 psf
Positive All Zones	9.6 psf	9.6 psf	9.6 psf	9.6 psf	9.6 psf
Overhang Zone 1&2	-28.4 psf	-27.9 psf	-27.0 psf	-26.8 psf	-23.2 psf
Overhang Zone 3	-46.8 psf	-36.9 psf	-23.9 psf	-13.4 psf	-13.4 psf

Note: GCP reduced by 10% due to roof angle <= 10 deg.

Surface Pressure (psf) -ASD Values					
Area	10 sf	20 sf	50 sf	100 sf	500 sf
Negative Zone 4	-19.6 psf	-18.8 psf	-17.7 psf	-16.9 psf	-15.1 psf
Negative Zone 5	-24.1 psf	-22.5 psf	-20.4 psf	-18.8 psf	-15.1 psf
Positive Zone 4 & 5	18.1 psf	17.3 psf	16.2 psf	15.4 psf	13.5 psf

Surface Pressure (psf) -ASD Values				
Area	10 sf	50 sf	100 sf	500 sf
Positive Interior (Zone 4)	45.7 psf	35.6 psf	31.2 psf	29.3 psf
Positive Corner (Zone 5)	62.7 psf	40.7 psf	31.2 psf	29.3 psf
Negative Interior (Zone 4)	-32.0 psf	-28.2 psf	-26.6 psf	-22.9 psf
Negative Corner (Zone 5)	-36.6 psf	-30.0 psf	-28.5 psf	-22.9 psf

Note: Pressures listed above are in both values. Ultimate (LRFD) & Service or Nominal (ASD) which have been obtained by multiplying Ultimate values by 0.6. Use service values (ASD) for Wind Resistance Testing. Compliance per FBC 1609.1.5

Components & Cladding Pressures - Mid Roof

WIND DESIGN ASCE 7-10

Risk Category	II
Directionality (Kd)	0.85
Mean Roof H (h)	32.33
Parapet ht above grd	36
Exposure Category	C
Enclosure Classif.	Enclosed Building
Internal pressure	0.18
a =	12.9 ft
Minimum parapet height at building perimeter =	0.00 ft
Roof Angle	1.2 deg
Type of roof	Monoslope

COMPONENTS & CLADDING

ULTIMATE LOADS

Basic Wind speed	115.0 mph	(LRFD)			
Base pressure (qh) =	28.7 psf	(LRFD)			
Surface Pressure (psf) -LRFD Values					
Area	10 sf	20 sf	50 sf	100 sf	200 sf
Negative Zone 1	-33.9 psf	-33.0 psf	-31.7 psf	-31.0 psf	-31.0 psf
Negative Zone 2	-56.9 psf	-50.8 psf	-42.8 psf	-36.8 psf	-36.8 psf
Negative Zone 3	-85.6 psf	-70.9 psf	-51.5 psf	-36.8 psf	-36.8 psf
Positive All Zones	16.0 psf	16.0 psf	16.0 psf	16.0 psf	16.0 psf
Overhang Zone 1&2	-48.8 psf	-48.0 psf	-46.7 psf	-45.5 psf	-39.5 psf
Overhang Zone 3	-79.1 psf	-63.0 psf	-40.0 psf	-23.0 psf	-23.0 psf

Note: GCP reduced by 10% due to roof angle <= 10 deg.

Surface Pressure (psf) -LRFD Values					
Area	10 sf	20 sf	50 sf	100 sf	500 sf
Negative Zone 4	-33.6 psf	-32.2 psf	-30.4 psf	-29.0 psf	-25.8 psf
Negative Zone 5	-41.4 psf	-38.6 psf	-35.0 psf	-32.2 psf	-25.8 psf
Positive Zone 4 & 5	31.4 psf	29.6 psf	27.8 psf	26.4 psf	23.3 psf

Surface Pressure (psf) -LRFD Values				
Area	10 sf	50 sf	100 sf	500 sf
Positive Interior (Zone 4)	79.3 psf	61.7 psf	54.1 psf	50.8 psf
Positive Corner (Zone 5)	108.7 psf	70.5 psf	54.1 psf	50.8 psf
Negative Interior (Zone 4)	-55.5 psf	-49.0 psf	-46.2 psf	-39.7 psf
Negative Corner (Zone 5)	-63.4 psf	-53.7 psf	-49.4 psf	-39.7 psf

SERVICE LOADS

Basic Wind speed	89.1 mph	(ASD)			
Base pressure (qh) =	17.2 psf	(ASD)			
Surface Pressure (psf) -ASD Values					
Area	10 sf	20 sf	50 sf	100 sf	200 sf
Negative Zone 1	-20.3 psf	-19.8 psf	-19.1 psf	-18.6 psf	-18.6 psf
Negative Zone 2	-34.1 psf	-30.5 psf	-25.7 psf	-22.1 psf	-22.1 psf
Negative Zone 3	-51.3 psf	-42.5 psf	-30.9 psf	-22.1 psf	-22.1 psf
Positive All Zones	9.6 psf	9.6 psf	9.6 psf	9.6 psf	9.6 psf
Overhang Zone 1&2	-29.3 psf	-28.8 psf	-28.1 psf	-27.6 psf	-23.9 psf
Overhang Zone 3	-48.2 psf	-37.9 psf	-24.2 psf	-13.8 psf	-13.8 psf

Note: GCP reduced by 10% due to roof angle <= 10 deg.

Surface Pressure (psf) -ASD Values					
Area	10 sf	20 sf	50 sf	100 sf	500 sf
Negative Zone 4	-20.2 psf	-19.3 psf	-18.2 psf	-17.4 psf	-15.5 psf
Negative Zone 5	-24.1 psf	-22.2 psf	-20.1 psf</		