

| Project Title: | Joe's Tile Store Depot |
|------------------------------|------------------------|
| Engineer: | ACB |
| Project Id: | 123-1112 |
| Structural Design Loads per: | IBC 2021 |
| Subject: | Cover |

Joe's Tile Store Depot

Design Loads

Description: New project 2025.08.26

Project Number: 123-1112

Structural Design Loads per: IBC 2021

Project Location

132 Granite Blvd Los Cabos, NM

Engineering Team

Engineer: ACB

Engineer of Record: WRB

Notes

New single story retail building





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| Subject: | Structure 1 Overview |

Structure 1

Design Loads

Risk Category: II

Engineering Team

Engineer: ACB

Engineer of Record: WRB





| Subject: | Structure 1 - Dead Load 1 |
|------------------------------|---------------------------|
| Structural Design Loads per: | IBC 2021 |
| Project Id: | 123-1112 |
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| Project Title: | Joe's Tile Store Depot |

Dead Load Assemblies

Typical Roof Load - 1

| Material | Weight |
|--|-----------|
| Waterproofing membranes - Bituminous, gravel-covered | 5.50 psf |
| Insulation, Roof Boards - Polystyrene foam - 6 in. | 1.20 psf |
| Deck, metal, 18 gauge | 3.00 psf |
| 4 x 12 - 24in. o.c. | 4.30 psf |
| Gypsum board - 5/8 in. | 2.75 psf |
| Mechanical duct allowance | 4.00 psf |
| Assembly Weight | 20.75 psf |

Tilt-Up walls - 2

| Material | Weight |
|----------------------|-----------|
| 7 1/4" Tilt-up Panel | 87.60 psf |
| Assembly Weight | 87.60 psf |





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| Subject: | Structure 1 - Live Load 1 |

Live Loads Used

Apartments

| Use | Uniform | LL Reduction Permitted | Multistory LL Reduction Permitted | Concentrated |
|--|---------|---------------------------|---|--------------|
| Private Rooms And Corridors Serving Them | 40 psf | Yes | Yes | 0 lbs |
| Public Rooms | 100 psf | No | No | 0 lbs |
| Corridors Serving Public Rooms | 100 psf | Yes | Yes | 0 lbs |





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| Subject: | Structure 1 - Rain Load 1 |

Rain Loads

General Rain - Parameters

15 min. or 2*60 min Rainfall intensity 2.24 mm/hr Section 8.2

Roof Region - Main Roof

Main Roof - Drainage System

| Drainage System | Overflow Dam or Standpipe | User Defined |
|-----------------|---------------------------|--------------|
| Inlet Diameter | 6 | User Defined |
| Outlet Diameter | 4 | User Defined |

Main Roof - Design Loads

 $R = 5.2(d_s + d_h)$ ASCE 7-16, (8.3-1) Q = 0.0104 A i ASCE 7-16, (C8.3-1)

| Drainage Collection Area (A) | Static Head Pressure (DS) | Flow Rate (Q) | Hydraulic Head Pressure (DH) | Design Rain Load (R) |
|---------------------------------|------------------------------|---------------|---------------------------------|-------------------------|
| 1400.00sqft | 2.00in/hr | 32.61gal/min | 0.65in | 13.79psf |
| 1000.00sqft | 2.00in/hr | 23.30gal/min | 0.47in | 12.82psf |





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| Structural Design Loads per: | IBC 2021 |
| Subject: | Structure 1 - Snow Load 1 |

Snow Load Report

General Snow - Parameters

| Ground Snow Load | p _g = 20.0 psf | Figure 7-1 to 7-3 |
|------------------------|---------------------------|-------------------|
| Building Risk Category | Risk Category = II | User Defined |
| Snow Importance Factor | I _S = 1.0 | Table 1.5-2 |

Roof Region - Main Roof

Main Roof Design Summary

| Balanced Flat Roof Snow Load | p _f = 14.0 psf | Section 7.3 |
|---|---------------------------|---------------|
| Balanced Sloped Roof Snow Load | p _S = 14.0 psf | Section 7.4 |
| Minimum Roof Snow Load | p _m = 20.0 psf | Section 7.3.4 |
| Drift Loads for Roof Projection Parapets | | Section 7.8 |

| Location | Length of roof upwind of the drift (lu) | Length of roof downwin d (lu, lower) | Height of roof step (h) | Uniform pressure, windward face (pw) | | Height of drift (hd) | Pressure surcharge on leeward face (pLS) | Leeward Surcharg e width (ds) |
|-----------------|---|--|-------------------------------|---|----------|-------------------------|--|--|
| High Parapet | 1.2 ft | 240.0 ft | 4.75 ft | 59.19 psf | 9.98 psf | 3.57 ft | 59.19 psf | 14.26 ft |
| Low Parapet | 1.2 ft | 240.0 ft | 2.5 ft | 27.5 psf | 9.98 psf | 1.66 ft | 27.5 psf | 6.63 ft |

Main Roof Design Detail

Balanced Flat Roof - Section 7.3

| $p_s = C_s p_f$ | | Eq. 7.4-1 |
|------------------------------------|---------------------------|----------------------|
| Balanced Sloped Roof Snow Load - S | ection 7.4 | |
| Balanced Flat Roof Snow Load | p _f =14.00 psf | ASCE 7-16: Eq. 7.3-1 |
| Ground Snow Load | p _g =20.00 psf | Figure 7-1 to 7-3 |
| Snow Importance Factor | I _S =1.0 | Table 1.5-2 |
| Thermal Factor | C _t =1.0 | Table 7.3-2 |
| Exposure Factor | C _e =1.0 | Section 7.3.1 |
| $p_f = 0.7 C_e C_t I_s p_g$ | | Eq. 7.3-1 |

| Balanced Sloped Roof Snow Load | p _S =14.00 psf | Eq. 7.4-1 |
|--------------------------------|---------------------------|---------------------|
| Roof Snow Factor | C _S =1.00 | Figure 7.4-1, 7.4-2 |
| Roof Slope | θ=1.19° | User Defined |
| Roof Obstructions/ Friction | Obstructed | User Defined |
| J | | 29.7.1 |





| | 9 |
|------------------------------|---------------------------|
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| Subject: | Structure 1 - Snow Load 1 |

Minimum Snow Load - Section 7.3.4

| n – | $\int I_s p_g$ | [for $p_g \le 20$ psf] |
|---------------------|--|------------------------|
| $p_m = \frac{1}{2}$ | $\begin{cases} I_s p_g \\ 20I_s \end{cases}$ | [for $p_g > 20$ psf] |

Eq. 7.3-2

| Drift Loads for Projections and Parapets - Section 7.8 | | | | |
|--|---------------------------|-----------------------|--|--|
| Minimum Roof Snow Load | p _f =20.00 psf | ASCE 7-16: Eq. 7.3-2 | | |
| Ground Snow Load | p _g =20.00 psf | Figure 7-1 to 7-3 | | |
| Snow Importance Factor | I _S =1.0 | ASCE 7-16 Table 1.5-2 | | |

| γ | $= 0.13p_g + 14 \le 30$ pcf | [Snow density] | Eg. 7.8-1 |
|---|-----------------------------|----------------|-----------|
| 1 | 1 | [D.11] | -9 |

 $h_b = p_s/\gamma$ [Balanced snow load on lower]

[Clear height from balanced snow to top of obstruction] $h_c = h - h_b$

 $h_d = 0.75(0.43l_u^{1/3}(p_g + 10)^{1/4}) \le h_c \text{ [Max drift height]}$ $w = 4h_d$ [Snow drift width] $p_d = h_d \gamma$ [Max drift load]

| Ground Snow Load | pg=20.00 psf | Figure 7-1 to 7-3 |
|--|---------------------------|-------------------------|
| Balanced Flat Roof Snow Load | p _f =14.00 psf | Eq. 7.3-1 |
| Balanced Sloped Roof Snow Load | p _S =14.00 psf | Eq. 7.4-1 |
| Roof Slope | θ=1.19° | User Defined |
| Roof Slope Run for A Rise of One Foot | S=48.14 | Derived from roof slope |
| Snow Density | y=16.60 pcf | Section 7.8 |

| Show Bensity | | | 7 10.00 pci | | | Section 7.0 | | |
|-----------------|---|---|-------------------------------|---|--|-------------------------|--|------------------------------------|
| Location | Length of roof upwind of the drift (lu) | Length of roof downwind (lu, lower) | Height of roof step (h) | Uniform pressure, windward face (pw) | Uniform pressure, leeward face (pL) | Height of drift (hd) | Pressure surcharge on leeward face (pLS) | Leeward Surcharge width (ds) |
| High Parapet | 1.2 ft | 240.0 ft | 4.75 ft | 59.19 psf | 9.98 psf | 3.57 ft | 59.19 psf | 14.26 ft |
| Low Parapet | 1.2 ft | 240.0 ft | 2.5 ft | 27.5 psf | 9.98 psf | 1.66 ft | 27.5 psf | 6.63 ft |

^{*} Denoted values are enveloped values between windward and leeward drift cases





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| Subject: | Structure 1 - Seismic Load 1 - Design Criteria |

Seismic - Design Criteria

Site Parameters

| Building Risk Category | Risk Category = II | Section 1.5 |
|---|---------------------------|----------------|
| Seismic Importance Factor | I _S = 1.0 | Table 1.5-2 |
| Site Class | D | Section 20.3 |
| Special Acceleration at short periods | S _S = 0.5 g | Section 11.4.4 |
| Spectral Acceleration at 1s Period | S ₁ = 0.5 g | Section 11.4.4 |
| Long-Period Transition Period | T _L = 12.0 sec | Section 11.4.6 |
| Site Coefficient for Short Periods | F _a = 1.4 | Table 11.4-1 |
| Site Coefficient for 1s Period | F _V = 1.8 | Table 11.4-2 |
| MCE _R Spectral Response Acceleration at Short Periods | S _{MS} = 0.7 | Section 11.4.4 |
| MCE _R Spectral Response Acceleration at 1s Period | S _{M1} = 0.9 | Section 11.4.4 |
| Design Spectral Response Acceleration at Short Periods | S _{DS} = 0.467 | Section 11.4.5 |
| Design Spectral Response Acceleration at 1s Period | S _{D1} = 0.6 | Section 11.4.5 |





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| Subject: | Structure 1 - Seismic Load 1 - Building Design |

Seismic - Main Force Resisting System

Building Levels / Seismic Weight

| Description | Elevation | Seismic Weight at Level, W _X | | |
|-------------|-------------------------|---|--|--|
| Level 1 | 0.00 ft | 0.00 k | | |
| Level 2 | 15.40 ft | 1584.00 k | | |
| | Total Seismic Weight, W | 1584.0 k | | |

Main Building System

Main Building System System Parameters

| System Category | A. BEARING WALL SYSTEMS |
|-----------------------------------|-------------------------------------|
| System Name | 5. INTERMEDIATE PRECAST SHEAR WALLS |
| Response Modification Coefficient | R=4.0 |
| Overstrength Factor | Ω_0 =2.5 |
| Deflection Amplification Factor | C _d =4.0 |

Main Building System Design Summary

| Level | Seismic Weight at Level, | Level Force, F_X | Diaphragm Force, <i>F_{pX}</i> | |
|---------|--------------------------|--------------------|--|--|
| | w _X | | • | |
| Level 1 | 0.00 k | 0.00 k | 0.00 k | |
| Level 2 | 1584.00 k | 184.80 k | 184.80 k | |

Main Building System Design Details

Approximate Building Period, Ta

| Seismic Base Shear | V = 184.80 k | ASCE 7-16: Section 12.8.1 |
|---|---------------|-----------------------------|
| Seismic Weight | W = 1584.00 k | ASCE 7-16: Section 12.8.1 |
| Seismic Response Coefficient | Cs = 0.12 | ASCE 7-16: Section 12.8.1.1 |
| $V = C_s W$ | | ASCE 7-16, (12.8-1) |
| Approximate Fundamental Period Base Shear, V | Ta = 0.16 | ASCE 7-16: Section 12.8.2.1 |
| Height of structure | hn = 15.4 | User Defined |
| Exponent for the Fundamental Period | x = 0.75 | ASCE 7-16: Table 12.8-2 |
| Coefficient for the Fundamental Period | Ct = 0.02 | ASCE 7-16: Table 12.8-2 |
| $T_a = C_t h_n^x$ | | ASCE 7-16, (12.8-7) |

Vertical Distribution of Seismic Loads to Main Force Resisting System, Fx





| | 9 |
|------------------------------|--|
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| Subject: | Structure 1 - Seismic Load 1 - Building Design |

$$F_{x} = C_{vx}V$$

$$w_{x}h_{x}^{k}$$

 $F_x = C_{vx}V$ [Lateral seismic force at level]

ASCE 7-16, (12.8-11, 12.8-12)

$$F_x = C_{vx}V$$
 [Lateral seismic force at leve $C_{vx} = \frac{w_x h_x^k}{\sum_{i=1}^n w_i h_i^k}$ [Vertical distribution factor]

| Level | w _X | h _X | w _X h ^K _X | c _{vx} | F _X | |
|---------|----------------|----------------|--|-----------------|----------------|--|
| Level 1 | 0.00 k | 0.00 ft | 0.00 k | 0.00 | 0.00 k | |
| Level 2 | 1584.00 k | 15.40 ft | 24393.60 k | 1.00 | 184.80 k | |

Vertical Distribution of Seismic Loads to Diaphragm, Fpx

$$F_{px} = \frac{\sum_{i=x}^{n} F_i}{\sum_{i=x}^{n} w_i} w_{px}$$

 $F_{px} = \frac{\sum_{i=x}^{n} F_i}{\sum_{i=x}^{n} w_i} w_{px}$ [Diaphragm design force at level] [Diaphragm design force at level]

 $F_{px,min} = 0.2 S_{DS} I_e w_{px}$

[Minimum req'd diaphragm force at level]

 $F_{px,max} = 0.4 S_{DS} I_e w_{px}$

[Maximum req'd diaphragm force at level]

| Level | w _{px} | Σwį | ΣFį | F _{px,min} | F _{px,max} | F _{px} | Design F _{px} |
|---------|-----------------|-----------|----------|---------------------|---------------------|-----------------|------------------------|
| Level 1 | 0.00 k | 1584.00 k | 184.80 k | 0.00 k | 0.00 k | 0.00 k | 0.00 k |
| Level 2 | 1584.00 k | 1584.00 k | 184.80 k | 147.84 k | 295.68 k | 184.80 k | 184.80 k |





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| Structural Design Loads per: | IBC 2021 |
| Subject: | Structure 1 - Wind Load 1 - General Requirements |

Wind - General Requirements

Site Parameters

| Basic Wind Speed | | V= | 115.00 mph | | Section 26.5.1 | | |
|-----------------------|---|------------------|------------------|----------------|----------------|---------------|-----------------|
| Ground Surface Ro | ound Surface Roughness | | | | Section 26.7.2 | | |
| North Quadr | ant | South Q | uadrant | East Qu | adrant | West Q | uadrant |
| В | | В | | В | | В | |
| Exposure Category | | | | | Secti | on 26.7 | |
| North Quadr | ant | South Q | uadrant | East Qu | adrant | West Q | uadrant |
| С | | С | | С | | С | |
| Topographic Factor | | | | | Secti | on 26.8 | |
| | | | Topogr | aphic Featur | ·e | | |
| Feature Type | e Quadra | ınt | Н | L _h | Х | | Z |
| 2D Ridge | N | | 0.0 | 0.0 | 0.0 | | 0.0 |
| | | | Topographic | Factors - Do | wnwind | | |
| Feature Type | Quadrant | H/L _h | x/L _h | K 1 | К2 | К3 | K _{zt} |
| 2D Ridge | N | 0 | 0 | 0.0 | 0.0 | 0.0 | 1.0 |
| | | | Topographi | c Factors - U | pwind | | |
| Feature Type | Quadrant | H/L _h | x/L _h | K1 | К2 | К3 | K _{zt} |
| 2D Ridge | N | 0 | 0 | 0.0 | 0.0 | 0.0 | 1.0 |
| Ground Elevation fr | ound Elevation from Sea Level Z=0.00 ft | | | | User | Defined | |
| Ground Elevation F | ound Elevation Factor Ke=1.0000 | | | Secti | on 26.9 | | |
| Building Rigidity Fac | ding Rigidity Factor Rigid | | | Secti | on 26.11.3, 2 | 6.11.4 | |
| Gust Factor | | G= | 0.85 | | Secti | on 26.11.1, 2 | 6.11.3, 26.11.4 |
| Enclosure Classifica | ntion | En | closed | | Secti | on 26.12 | |
| Internal Pressure C | oefficient | +G | Cpi=0.18, -GCp | i=-0.18 | Table | 26.13-1 | |





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| Subject: | Structure 1 - Wind Load 1 - MWFRS Directional |

Wind - Main Force Resisting System

Region - Region 1

Region 1 - Building Information

| Region | 1. | General | Configuration |
|-----------|----|-----------|---------------|
| INC SIOII | | ociici ai | Comingulation |

| North-South Direction | 240.0 ft | User Defined |
|-------------------------------|--------------|-----------------------------------|
| East-West Direction | 300.0 ft | User Defined |
| Gust Factor | G = 0.85 | Section 26.11.1, 26.11.3, 26.11.4 |
| Internal Pressure Coefficient | GCpi=+/-0.18 | Section 26.13 |

Region 1 - Levels and Parapets

| Description | Elevation | Parapet |
|--------------|-----------|---------|
| Roof | 15.4 ft | No |
| High Parapet | 19.4 ft | Yes |
| Low Parapet | 17.4 ft | Yes |

Region 1 - Roof Configuration

| Mean roof height | 22.0 ft | User Defined |
|--------------------|---------|--------------|
| High point of roof | 24.0 ft | User Defined |
| Low point of roof | 20.0 ft | User Defined |
| Roof slope | 18.5° | User Defined |
| Roof Shape | Flat | User Defined |
| | | |

Region 1 - Wall Design Pressures (MWFRS)

Region 1 - Wall Cp Values

Wall Pressure Coefficients

| Wind Flow Direction | L/B | Cp, Windward | Cp, Leeward | Cp, Sidewalls |
|------------------------|------|--------------|-------------|---------------|
| North | 0.8 | 0.8 | -0.5 | -0.7 |
| South | 0.8 | 0.8 | -0.5 | -0.7 |
| East | 1.25 | 0.8 | -0.45 | -0.7 |
| West | 1.25 | 0.8 | -0.45 | -0.7 |

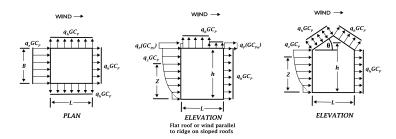
Region 1 - Wall Design Pressures - North-South Wind Flow (MWFRS)

$$p = q_h GC_p - q_i (GC_{pi})$$





| | 9 |
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| Subject: | Structure 1 - Wind Load 1 - MWFRS Directional |



FLAT, GABLE, HIP ROOF

Case 1 (+GCpi)

| Level | Elevation | qz | qh | qi | p _{windward} | p _{leeward} | p _{sidewalls} |
|-----------------|-----------|-----------|-----------|-----------|-----------------------|----------------------|------------------------|
| Roof | 15.4 ft | 24.56 psf | 26.48 psf | 26.48 psf | 11.94 psf | -16.02 psf | -20.52 psf |
| High Parapet | 19.4 ft | 25.79 psf | 26.48 psf | 26.48 psf | 12.77 psf | -16.02 psf | -20.52 psf |
| Low Parapet | 17.4 ft | 25.2 psf | 26.48 psf | 26.48 psf | 12.37 psf | -16.02 psf | -20.52 psf |

Case 2 (-GCpi)

| Level | Elevation | qz | qh | qi | p _{windward} | p _{leeward} | p _{sidewalls} |
|-----------------|-----------|-----------|-----------|-----------|-----------------------|----------------------|------------------------|
| Roof | 15.4 ft | 24.56 psf | 26.48 psf | 26.48 psf | 21.47 psf | -6.49 psf | -10.99 psf |
| High Parapet | 19.4 ft | 25.79 psf | 26.48 psf | 26.48 psf | 22.3 psf | -6.49 psf | -10.99 psf |
| Low Parapet | 17.4 ft | 25.2 psf | 26.48 psf | 26.48 psf | 21.91 psf | -6.49 psf | -10.99 psf |

Case Minimum ¹

| Level | Elevation | qz | qh | qi | p _{windward} | p _{leeward} | p _{sidewall} |
|-----------------|-----------|-----|-----|-----|-----------------------|----------------------|-----------------------|
| Roof | 15.4 ft | N/A | N/A | N/A | 16.0 psf | 0 psf | 0 psf |
| High Parapet | 19.4 ft | N/A | N/A | N/A | 16.0 psf | 0 psf | 0 psf |
| Low Parapet | 17.4 ft | N/A | N/A | N/A | 16.0 psf | 0 psf | 0 psf |

Notes

1. The wind load to be used in the design of the MWFRS for an enclosed or partially enclosed building shall not be less than **16psf** multiplied by the wall area of the building, and **8psf** multiplied by the roof area of the building projected onto a vertical plane normal to the assumed wind direction. Wall and roof loads shall be applied simultaneously. The design wind force for open buildings shall be not less than **16psf** multiplied by the area, A_f.

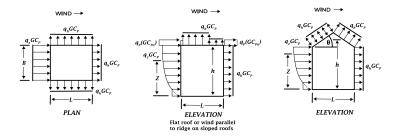
Region 1 - Wall Design Pressures - South-North Wind Flow (MWFRS)

$$p = q_h GC_p - q_i (GC_{pi})$$





| | 9 |
|------------------------------|---|
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FLAT, GABLE, HIP ROOF

Case 1 (+GCpi)

| Level | Elevation | qz | qh | qi | p _{windward} | p _{leeward} | p _{sidewalls} |
|-----------------|-----------|-----------|-----------|-----------|-----------------------|----------------------|------------------------|
| Roof | 15.4 ft | 24.56 psf | 26.48 psf | 26.48 psf | 11.94 psf | -16.02 psf | -20.52 psf |
| High Parapet | 19.4 ft | 25.79 psf | 26.48 psf | 26.48 psf | 12.77 psf | -16.02 psf | -20.52 psf |
| Low Parapet | 17.4 ft | 25.2 psf | 26.48 psf | 26.48 psf | 12.37 psf | -16.02 psf | -20.52 psf |

Case 2 (-GCpi)

| Level | Elevation | qz | qh | qi | p _{windward} | p _{leeward} | p _{sidewalls} |
|-----------------|-----------|-----------|-----------|-----------|-----------------------|----------------------|------------------------|
| Roof | 15.4 ft | 24.56 psf | 26.48 psf | 26.48 psf | 21.47 psf | -6.49 psf | -10.99 psf |
| High Parapet | 19.4 ft | 25.79 psf | 26.48 psf | 26.48 psf | 22.3 psf | -6.49 psf | -10.99 psf |
| Low Parapet | 17.4 ft | 25.2 psf | 26.48 psf | 26.48 psf | 21.91 psf | -6.49 psf | -10.99 psf |

Case Minimum ¹

| Level | Elevation | qz | qh | qi | p _{windward} | p _{leeward} | p _{sidewall} |
|-----------------|-----------|-----|-----|-----|-----------------------|----------------------|-----------------------|
| Roof | 15.4 ft | N/A | N/A | N/A | 16.0 psf | 0 psf | 0 psf |
| High Parapet | 19.4 ft | N/A | N/A | N/A | 16.0 psf | 0 psf | 0 psf |
| Low Parapet | 17.4 ft | N/A | N/A | N/A | 16.0 psf | 0 psf | 0 psf |

Notes

1. The wind load to be used in the design of the MWFRS for an enclosed or partially enclosed building shall not be less than **16psf** multiplied by the wall area of the building, and **8psf** multiplied by the roof area of the building projected onto a vertical plane normal to the assumed wind direction. Wall and roof loads shall be applied simultaneously. The design wind force for open buildings shall be not less than **16psf** multiplied by the area, *A_f*.

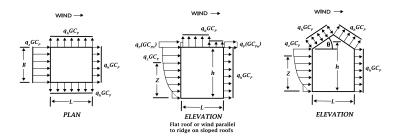
Region 1 - Wall Design Pressures - East-West Wind Flow (MWFRS)

$$p = q_h GC_p - q_i (GC_{pi})$$





| | 9 |
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FLAT, GABLE, HIP ROOF

Case 1 (+GCpi)

| Level | Elevation | qz | qh | qi | p _{windward} | p _{leeward} | p _{sidewalls} |
|-----------------|-----------|-----------|-----------|-----------|-----------------------|----------------------|------------------------|
| Roof | 15.4 ft | 24.56 psf | 26.48 psf | 26.48 psf | 11.94 psf | -16.02 psf | -20.52 psf |
| High Parapet | 19.4 ft | 25.79 psf | 26.48 psf | 26.48 psf | 12.77 psf | -16.02 psf | -20.52 psf |
| Low Parapet | 17.4 ft | 25.2 psf | 26.48 psf | 26.48 psf | 12.37 psf | -16.02 psf | -20.52 psf |

Case 2 (-GCpi)

| Level | Elevation | qz | qh | qi | p _{windward} | p _{leeward} | p _{sidewalls} |
|-----------------|-----------|-----------|-----------|-----------|-----------------------|----------------------|------------------------|
| Roof | 15.4 ft | 24.56 psf | 26.48 psf | 26.48 psf | 21.47 psf | -6.49 psf | -10.99 psf |
| High Parapet | 19.4 ft | 25.79 psf | 26.48 psf | 26.48 psf | 22.3 psf | -6.49 psf | -10.99 psf |
| Low Parapet | 17.4 ft | 25.2 psf | 26.48 psf | 26.48 psf | 21.91 psf | -6.49 psf | -10.99 psf |

Case Minimum ¹

| Level | Elevation | qz | qh | qi | p _{windward} | p _{leeward} | p _{sidewall} |
|-----------------|-----------|-----|-----|-----|-----------------------|----------------------|-----------------------|
| Roof | 15.4 ft | N/A | N/A | N/A | 16.0 psf | 0 psf | 0 psf |
| High Parapet | 19.4 ft | N/A | N/A | N/A | 16.0 psf | 0 psf | 0 psf |
| Low Parapet | 17.4 ft | N/A | N/A | N/A | 16.0 psf | 0 psf | 0 psf |

Notes

1. The wind load to be used in the design of the MWFRS for an enclosed or partially enclosed building shall not be less than **16psf** multiplied by the wall area of the building, and **8psf** multiplied by the roof area of the building projected onto a vertical plane normal to the assumed wind direction. Wall and roof loads shall be applied simultaneously. The design wind force for open buildings shall be not less than **16psf** multiplied by the area, *A_f*.

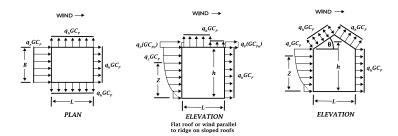
Region 1 - Wall Design Pressures - West-East Wind Flow (MWFRS)

$$p = q_h GC_p - q_i (GC_{pi})$$





| | 9 |
|------------------------------|---|
| Project Title: | Joe's Tile Store Depot |
| Engineer: | ACB |
| Project Id: | 123-1112 |
| Structural Design Loads per: | IBC 2021 |
| Subject: | Structure 1 - Wind Load 1 - MWFRS Directional |



FLAT, GABLE, HIP ROOF

Case 1 (+GCpi)

| Level | Elevation | qz | qh | qi | p _{windward} | p _{leeward} | p _{sidewalls} |
|-----------------|-----------|-----------|-----------|-----------|-----------------------|----------------------|------------------------|
| Roof | 15.4 ft | 24.56 psf | 26.48 psf | 26.48 psf | 11.94 psf | -16.02 psf | -20.52 psf |
| High Parapet | 19.4 ft | 25.79 psf | 26.48 psf | 26.48 psf | 12.77 psf | -16.02 psf | -20.52 psf |
| Low Parapet | 17.4 ft | 25.2 psf | 26.48 psf | 26.48 psf | 12.37 psf | -16.02 psf | -20.52 psf |

Case 2 (-GCpi)

| Level | Elevation | qz | qh | qi | p _{windward} | p _{leeward} | p _{sidewalls} |
|-----------------|-----------|-----------|-----------|-----------|-----------------------|----------------------|------------------------|
| Roof | 15.4 ft | 24.56 psf | 26.48 psf | 26.48 psf | 21.47 psf | -6.49 psf | -10.99 psf |
| High Parapet | 19.4 ft | 25.79 psf | 26.48 psf | 26.48 psf | 22.3 psf | -6.49 psf | -10.99 psf |
| Low Parapet | 17.4 ft | 25.2 psf | 26.48 psf | 26.48 psf | 21.91 psf | -6.49 psf | -10.99 psf |

Case Minimum '

| Level | Elevation | qz | qh | qi | p _{windward} | p _{leeward} | p _{sidewall} |
|-----------------|-----------|-----|-----|-----|-----------------------|----------------------|-----------------------|
| Roof | 15.4 ft | N/A | N/A | N/A | 16.0 psf | 0 psf | 0 psf |
| High Parapet | 19.4 ft | N/A | N/A | N/A | 16.0 psf | 0 psf | 0 psf |
| Low Parapet | 17.4 ft | N/A | N/A | N/A | 16.0 psf | 0 psf | 0 psf |

Notes

1. The wind load to be used in the design of the MWFRS for an enclosed or partially enclosed building shall not be less than **16psf** multiplied by the wall area of the building, and **8psf** multiplied by the roof area of the building projected onto a vertical plane normal to the assumed wind direction. Wall and roof loads shall be applied simultaneously. The design wind force for open buildings shall be not less than **16psf** multiplied by the area, *A_f*.

Region 1 - Parapet Design Pressures (MWFRS)

Region 1 - Parapet Design Pressures (MWFRS) - East - West Wind Flow





| Project Title: | Joe's Tile Store Depot |
|------------------------------|---|
| Engineer: | ACB |
| Project Id: | 123-1112 |
| Structural Design Loads per: | IBC 2021 |
| Subject: | Structure 1 - Wind Load 1 - MWFRS Directional |

 $p_p = q_p G C_{pn}$

ASCE 7-16, (27.3-5)

Parapet Design Pressures (E/W)

| Level | Elevation | Kd | qp | GCpn Windward | GCpn Leeward | p _{windward} parapet | Pleeward parapet |
|-----------------|-----------|------|-----------|------------------|-----------------|----------------------------------|---------------------|
| High Parapet | 19.4 ft | 0.85 | 25.79 psf | 1.5 | -1.0 | 38.68 psf | -25.79 psf |
| Low Parapet | 17.4 ft | 0.85 | 25.2 psf | 1.5 | -1.0 | 37.81 psf | -25.2 psf |

Region 1 - Parapet Design Pressures (MWFRS) - West - East Wind Flow

 $p_p = q_p G C_{pn}$

ASCE 7-16, (27.3-5)

Parapet Design Pressures (W/E)

| Level | Elevation | Kd | qp | GCpn Windward | GCpn Leeward | p _{windward} parapet | Pleeward parapet |
|-----------------|-----------|------|-----------|------------------|-----------------|----------------------------------|---------------------|
| High Parapet | 19.4 ft | 0.85 | 25.79 psf | 1.5 | -1.0 | 38.68 psf | -25.79 psf |
| Low Parapet | 17.4 ft | 0.85 | 25.2 psf | 1.5 | -1.0 | 37.81 psf | -25.2 psf |

Region 1 - Parapet Design Pressures (MWFRS) - North - South Wind Flow

 $p_p = q_p G C_{pn}$

ASCE 7-16, (27.3-5)

Parapet Design Pressures (N/S)

| Level | Elevation | Kd | qp | GCpn Windward | GCpn Leeward | p _{windward} | p _{leeward} parapet |
|-----------------|-----------|------|-----------|------------------|-----------------|-----------------------|---------------------------------|
| High Parapet | 19.4 ft | 0.85 | 25.79 psf | 1.5 | -1.0 | 38.68 psf | -25.79 psf |
| Low Parapet | 17.4 ft | 0.85 | 25.2 psf | 1.5 | -1.0 | 37.81 psf | -25.2 psf |

Region 1 - Parapet Design Pressures (MWFRS) - South - North Wind Flow

 $p_p = q_p G C_{pn}$

ASCE 7-16, (27.3-5)

Parapet Design Pressures (S/N)

| Level | Elevation | Kd | qp | GCpn Windward | GCpn Leeward | p _{windward} parapet | p _{leeward} parapet |
|-----------------|-----------|------|-----------|------------------|-----------------|----------------------------------|---------------------------------|
| High Parapet | 19.4 ft | 0.85 | 25.79 psf | 1.5 | -1.0 | 38.68 psf | -25.79 psf |
| Low Parapet | 17.4 ft | 0.85 | 25.2 psf | 1.5 | -1.0 | 37.81 psf | -25.2 psf |

Region 1 - Roof Design Pressures (MWFRS)

Region 1 - Roof Cp Values





| Project Title: | Joe's Tile Store Depot |
|------------------------------|---|
| Engineer: | ACB |
| Project Id: | 123-1112 |
| Structural Design Loads per: | IBC 2021 |
| Subject: | Structure 1 - Wind Load 1 - MWFRS Directional |

Case 1 (+GCpi) - Normal to Ridge - Section 27.3.2

| Wind Flow Direction | h/L | Windward | Leeward |
|---------------------|------|----------|---------|
| North | 0.09 | -0.36 | -0.57 |
| South | 0.09 | -0.36 | -0.57 |
| East | 0.07 | -0.36 | -0.57 |
| West | 0.07 | -0.36 | -0.57 |

Case 2 (-GCpi) - Normal to Ridge - Section 27.3.2

| Wind Flow Direction | h/L | Windward | Leeward |
|---------------------|------|----------|---------|
| North | 0.09 | 0.14 | -0.57 |
| South | 0.09 | 0.14 | -0.57 |
| East | 0.07 | 0.14 | -0.57 |
| West | 0.07 | 0.14 | -0.57 |

Case 1 (+GCPi) - Parallel to Ridge - Section 27.3.2

| Wind Flow Direction | h/L | 0 to h/2 | h/2 to h | h to 2h | > 2h | |
|------------------------|----------|----------|----------|---------|------|--|
| North | 0.09 psf | -0.9 | -0.9 | -0.5 | -0.3 | |
| South | 0.09 psf | -0.9 | -0.9 | -0.5 | -0.3 | |
| East | 0.07 psf | -0.9 | -0.9 | -0.5 | -0.3 | |
| West | 0.07 psf | -0.9 | -0.9 | -0.5 | -0.3 | |

Case 2 (-GCPi) - Parallel to Ridge - Section 27.3.2

| Wind Flow Direction | h/L | 0 to h/2 | h/2 to h | h to 2h | > 2h | |
|------------------------|----------|----------|----------|---------|-------|--|
| North | 0.09 psf | -0.18 | -0.18 | -0.18 | -0.18 | |
| South | 0.09 psf | -0.18 | -0.18 | -0.18 | -0.18 | |
| East | 0.07 psf | -0.18 | -0.18 | -0.18 | -0.18 | |
| West | 0.07 psf | -0.18 | -0.18 | -0.18 | -0.18 | |

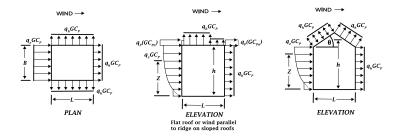
Region 1 - Roof Design Pressures (MWFRS)

$$p = q_h GC_p - q_i (GC_{pi})$$





| Project Title: | Joe's Tile Store Depot |
|------------------------------|---|
| Engineer: | ACB |
| Project Id: | 123-1112 |
| Structural Design Loads per: | IBC 2021 |
| Subject: | Structure 1 - Wind Load 1 - MWFRS Directional |



FLAT, GABLE, HIP ROOF

Case 1 (+GCPi) - Normal to Ridge - Section 27.3.1

| Wind Flow Direction | qh & qi | Windward | Leeward | Overhang |
|------------------------|-----------|------------|-----------|----------|
| North | 26.48 psf | -12.87 psf | -17.6 psf | 5.14 psf |
| South | 26.48 psf | -12.87 psf | -17.6 psf | 5.14 psf |
| East | 26.48 psf | -12.87 psf | -17.6 psf | 5.14 psf |
| West | 26.48 psf | -12.87 psf | -17.6 psf | 5.14 psf |

Case 2 (-GCPi) - Normal to Ridge - Section 27.3.1

| Wind Flow Direction | qh & qi | Windward | Leeward | Overhang |
|------------------------|-----------|----------|-----------|-----------|
| North | 26.48 psf | 7.92 psf | -8.06 psf | 25.92 psf |
| South | 26.48 psf | 7.92 psf | -8.06 psf | 25.92 psf |
| East | 26.48 psf | 7.92 psf | -8.06 psf | 25.92 psf |
| West | 26.48 psf | 7.92 psf | -8.06 psf | 25.92 psf |

Case Minimum 1,2 - Normal to Ridge - Section 27.3.1

| Wind Flow Direction | qh & qi | Windward | Leeward | Overhang |
|------------------------|---------|----------|---------|----------|
| North | N/A | 8.0 psf | 0 psf | 0 psf |
| South | N/A | 8.0 psf | 0 psf | 0 psf |
| East | N/A | 8.0 psf | 0 psf | 0 psf |
| West | N/A | 8.0 psf | 0 psf | 0 psf |

Case 1 (+GCPi) - Parallel to Ridge - Section 27.3.1

| Wind Flow Direction | qh & qi | 0 to h/2 | h/2 to h | h to 2h | > 2h | |
|------------------------|-----------|------------|------------|------------|------------|--|
| North | 26.48 psf | -25.02 psf | -25.02 psf | -16.02 psf | -11.52 psf | |





| Subject: | Structure 1 - Wind Load 1 - MWFRS Directional |
|------------------------------|---|
| Structural Design Loads per: | IBC 2021 |
| Project Id: | 123-1112 |
| Engineer: | ACB |
| Project Title: | Joe's Tile Store Depot |

| South | 26.48 psf | -25.02 psf | -25.02 psf | -16.02 psf | -11.52 psf |
|-------|-----------|------------|------------|------------|------------|
| East | 26.48 psf | -25.02 psf | -25.02 psf | -16.02 psf | -11.52 psf |
| West | 26.48 psf | -25.02 psf | -25.02 psf | -16.02 psf | -11.52 psf |

Case 2 (-GCPi) - Parallel to Ridge - Section 27.3.1

| Wind Flow Direction | qh & qi | 0 to h/2 | h/2 to h | h to 2h | > 2h |
|------------------------|-----------|----------|----------|----------|----------|
| North | 26.48 psf | 0.71 psf | 0.71 psf | 0.71 psf | 0.71 psf |
| South | 26.48 psf | 0.71 psf | 0.71 psf | 0.71 psf | 0.71 psf |
| East | 26.48 psf | 0.71 psf | 0.71 psf | 0.71 psf | 0.71 psf |
| West | 26.48 psf | 0.71 psf | 0.71 psf | 0.71 psf | 0.71 psf |

Case Minimum - Parallel to Ridge - Section 27.3.1

| Wind Flow Direction | qh & qi | 0 to h/2 | h/2 to h | h to 2h | > 2h |
|------------------------|---------|----------|----------|---------|---------|
| North | N/A | 8.0 psf | 8.0 psf | 8.0 psf | 8.0 psf |
| South | N/A | 8.0 psf | 8.0 psf | 8.0 psf | 8.0 psf |
| East | N/A | 8.0 psf | 8.0 psf | 8.0 psf | 8.0 psf |
| West | N/A | 8.0 psf | 8.0 psf | 8.0 psf | 8.0 psf |

Notes

- 1. The wind load to be used in the design of the MWFRS for an enclosed or partially enclosed building shall not be less than **16psf** multiplied by the wall area of the building, and **8psf** multiplied by the roof area of the building projected onto a vertical plane normal to the assumed wind direction. Wall and roof loads shall be applied simultaneously. The design wind force for open buildings shall be not less than **16psf** multiplied by the area, *A_f*.
- 2. This load shall be applied horizontally onto the projected roof surface when considering the minimum load case.





| Project Title: | Joe's Tile Store Depot |
|------------------------------|---|
| Engineer: | ACB |
| Project Id: | 123-1112 |
| Structural Design Loads per: | IBC 2021 |
| Subject: | Structure 1 - Wind Load 1 - Components & Cladding |

Components and Cladding

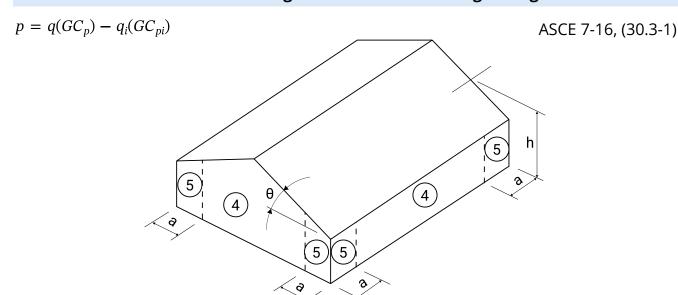
C&C - Walls - Mean Roof Height ≤ 60 ft - Main Building

| Mean Roof Height | h = 22.0 ft | Section 26.2 |
|--|----------------|----------------|
| Roof Slope | θ = 1.19 ° | User Defined |
| Least Horizontal Dimension | LHD = 240.0 ft | User Defined |
| Velocity Pressure at mean roof height | qh = 26.48 psf | Section 26.5.1 |
| Internal Pressure Coefficient | GCpi = ±0.18 | Table 26.13-1 |
| Edge Distance | a = 9.6 | Section 30.3 |

C&C - Walls - Mean Roof Height ≤ 60ft - Main Building - GCp Section 30.3

| Effective Area | All Zones (+GCp) | 4 (-GCp) | 5 (-GCp) | |
|----------------|------------------|----------|----------|--|
| 20.0 sqft | 0.85 | -0.94 | -1.16 | |
| 90.0 sqft | 0.75 | -0.84 | -0.96 | |

C&C - Walls - Mean Roof Height ≤ 60ft - Main Building - Design Pressures



Case 1 (+GCpi)

| Effective Area | All Zones (+GCp) | Zone 4 (-GCp) | Zone 5 (-GCp) | |
|----------------|------------------|---------------|---------------|--|
| 20.0 sqft | 17.8 psf | -29.71 psf | -35.6 psf | |
| 90.0 sqft | 15.05 psf | -26.97 psf | -30.1 psf | |
| Case 2 (-GCpi) | | | | |





| Project Title: | Joe's Tile Store Depot |
|------------------------------|---|
| Engineer: | ACB |
| Project Id: | 123-1112 |
| Structural Design Loads per: | IBC 2021 |
| Subject: | Structure 1 - Wind Load 1 - Components & Cladding |

| Effective Area | All Zones (+GCp) | Zone 4 (-GCp) | Zone 5 (-GCp) |
|----------------|------------------|---------------|---------------|
| 20.0 sqft | 27.33 psf | -20.18 psf | -26.06 psf |
| 90.0 sqft | 24.58 psf | -17.43 psf | -20.57 psf |

Notes

- 1. Positive numbers mean towards the surface; negative numbers mean away from the surface.
- 2. Net C&C pressures shall not be less than ±16psf

C&C - Roofs

| Enclosure Classification | Enclosed | User Defined |
|--|----------------|----------------|
| Mean Roof Height | h = 22.0 ft | User Defined |
| Roof Shape | Flat | User Defined |
| Roof Slope | θ = 1.19 ° | User Defined |
| Least Horizontal Dimension | LHD = 240.0 ft | User Defined |
| Velocity Pressure at mean roof height | qh = 26.48 psf | Section 26.5.1 |
| Internal Pressure Coefficient | GCpi = ±0.18 | Table 26.13-1 |
| Edge Distance | a = 9.6 | Section 30.3 |

C&C - Roof - GCp Section 30.3

C&C - Roof -- Enclosed Building - GCp

| Section 30.3 | | | | | |
|----------------|------------------|--------|---------|--------|--------|
| Effective Area | All Zones (+GCp) | Zone 1 | Zone 1' | Zone 2 | Zone 3 |
| 50.0 sqft | 0.23 | -1.41 | -1.05 | -1.93 | -2.46 |
| 125.0 sqft | 0.2 | -1.25 | -0.85 | -1.72 | -2.04 |
| 350.0 sqft | 0.2 | -1.06 | -0.63 | -1.48 | -1.56 |
| 500.0 sqft | 0.2 | -1.0 | -0.55 | -1.4 | -1.4 |

C&C - Roof - Design Pressures

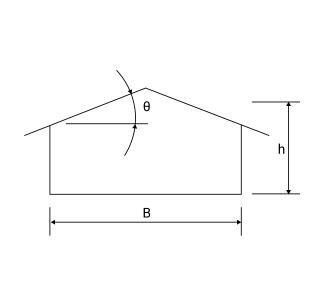
$$p = q(GC_p) - q_i(GC_{pi})$$

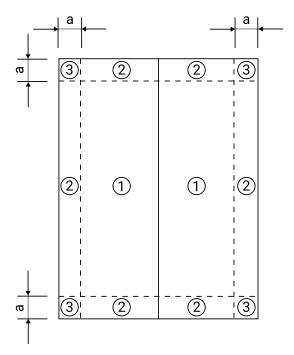
ASCE 7-16, (30.3-1)





| Project Title: | Joe's Tile Store Depot |
|------------------------------|---|
| Engineer: | ACB |
| Project Id: | 123-1112 |
| Structural Design Loads per: | IBC 2021 |
| Subject: | Structure 1 - Wind Load 1 - Components & Cladding |





Case 1 (+GCpi)

| Effective Area | All Zones (+GCp) | Zone 1 | Zone 1' | Zone 2 | Zone 3 |
|----------------|------------------|------------|------------|------------|------------|
| 50.0 sqft | 1.33 psf | -42.16 psf | -32.58 psf | -55.87 psf | -69.89 psf |
| 125.0 sqft | 0.53 psf | -37.82 psf | -27.32 psf | -50.28 psf | -58.73 psf |
| 350.0 sqft | 0.53 psf | -32.94 psf | -21.4 psf | -44.01 psf | -46.18 psf |
| 500.0 sqft | 0.53 psf | -31.25 psf | -19.34 psf | -41.84 psf | -41.84 psf |

Case 2 (-GCpi)

| Effective Area | All Zones (+GCp) | Zone 1 | Zone 1' | Zone 2 | Zone 3 |
|----------------|------------------|------------|------------|------------|------------|
| 50.0 sqft | 10.86 psf | -32.62 psf | -23.05 psf | -46.33 psf | -60.36 psf |
| 125.0 sqft | 10.06 psf | -28.28 psf | -17.78 psf | -40.75 psf | -49.2 psf |
| 350.0 sqft | 10.06 psf | -23.4 psf | -11.86 psf | -34.48 psf | -36.65 psf |
| 500.0 sqft | 10.06 psf | -21.71 psf | -9.81 psf | -32.31 psf | -32.31 psf |

Notes

- 1. Positive numbers mean towards the surface; negative numbers mean away from the surface.
- 2. Net C&C pressures shall not be less than ±16psf

C&C - Parapets - Front Parapets

| Mean Roof Height | h = 22.0 ft | Section 26.2 |
|------------------|--------------|--------------|
| Roof Shape | Flat | User Defined |
| Roof Slope | θ = 1.19 ° | User Defined |
| Structure Width | B = 240.0 ft | User Defined |





| Project Title: | Joe's Tile Store Depot |
|------------------------------|---|
| Engineer: | ACB |
| Project Id: | 123-1112 |
| Structural Design Loads per: | IBC 2021 |
| Subject: | Structure 1 - Wind Load 1 - Components & Cladding |

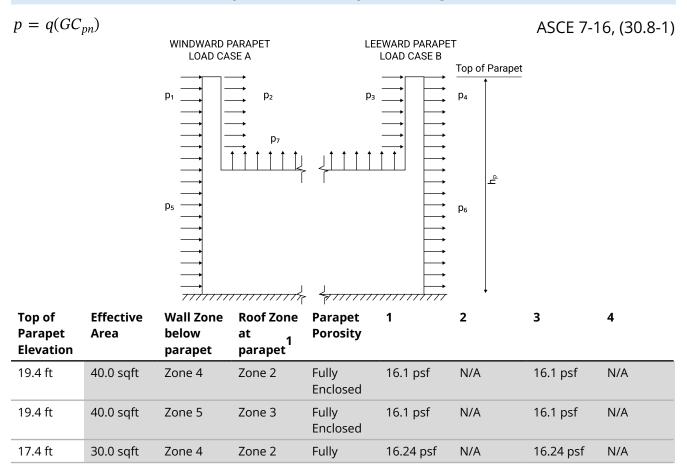
C&C - Parapet - Front Parapets - GCp Section 30.8

| Top of Parapet Elevation | Effective Area | Wall Zone below parapet | Roof Zone at 1 parapet | Parapet Porosity | 1 | 2 | 3 | 4 |
|--------------------------------|-------------------|-------------------------------|------------------------------|---------------------|------|-----|------|-----|
| 19.4 ft | 40.0 sqft | Zone 4 | Zone 2 | Fully Enclosed | 0.8 | N/A | 0.8 | N/A |
| 19.4 ft | 40.0 sqft | Zone 5 | Zone 3 | Fully Enclosed | 0.8 | N/A | 0.8 | N/A |
| 17.4 ft | 30.0 sqft | Zone 4 | Zone 2 | Fully Enclosed | 0.82 | N/A | 0.82 | N/A |
| 17.4 ft | 30.0 sqft | Zone 5 | Zone 3 | Fully Enclosed | 0.82 | N/A | 0.82 | N/A |

Notes

- 1. If more than one zone type exists for a particular zone (e.g. zone 2e and 2r), the worst case GCp is used for that zone.
- 2. GCp values are determined from the applicable wall and roof figures from the row's information provided.

C&C - Parapet - Front Parapets - Design Pressures







| | <u> </u> |
|------------------------------|---|
| Project Title: | Joe's Tile Store Depot |
| Engineer: | ACB |
| Project Id: | 123-1112 |
| Structural Design Loads per: | IBC 2021 |
| Subject: | Structure 1 - Wind Load 1 - Components & Cladding |

| | | | | Enclosed | | | | |
|---------|-----------|--------|--------|-------------------|-----------|-----|-----------|-----|
| 17.4 ft | 30.0 sqft | Zone 5 | Zone 3 | Fully Enclosed | 16.24 psf | N/A | 16.24 psf | N/A |

Notes

- 1. If more than one zone type exists for a particular zone (e.g. zone 2e and 2r), the worst case GCp is used for that zone.
- 2. Net C&C pressures shall not be less than +/-16psf

