



Cayman Building Code Resolution

The following **Code Resolution** is to help the customer clarify a code related issue. It in no way supersedes the adopted codes which must also be referred to. This Resolution supersedes any and all older ones

Title: Window DP Rating (1&2 Family only)

Code Section R301.2.1 IRC & Section 602.2 ICC – 600

Number: 18-002

Revised: 26 September 2018

Reason: Design Pressure Requirements.

Section 602.2.1 Design Pressures. Design pressure requirements for, windows, unit skylights, sliding glass doors, glass patio doors and entry doors installed in buildings with a mean roof height of 30 feet (9 m) located in Exposure B are listed in Table 602(l). For mean roof heights other than 30 feet or Exposures other than Exposure B, multiply the table values by the height adjustment factor of Table 602(2). Pressures shall be applied in accordance with Figure 602.

Section 602.2.2

Garage Door Pressures. Design pressure requirements for garage doors installed in buildings with a mean roof height of 30 Feet (9 m) are listed in Table 602(3).

The following items must be considered when calculating the “design pressure rating” (DP) of a windows, unit skylights, sliding glass doors, glass patio doors, entry doors and garage doors in an enclosed building.

Location of opening on exterior wall

Max wall height above grade

Wind speed and exposure

All (DP) are based on component & cladding tributary area of 10 sq. ft. The Designer in Responsible Charge or Component Supplier may apply an area reduction factor (per ASCE 7 wind load charts) to reduce the DP if required for larger components (windows, doors) which do not meet the specified DP. Where area reduction is applied, calculations shall be submitted to the Department for review.

Resolution: The Designer in Responsible Charge is required to provide floor plan of each level labeling each window with its DP rating **or** Insert the below statement on the drawings.

All windows, doors and skylight opening (inclusive of garage doors) are required to be rated by *labeled*. *Such label must be affixed to windows at time of inspection and shall not be removed until approval is given.*

Design Pressure required to be as follow or greater.

All windows and doors for 1st story up to 15ft height

Zone 4 DP = +50 psf / -50 psf

Zone 5 DP = +50 psf / -65 psf (4' of the corner)

All windows and doors for 2nd story up to 20ft height

Zone 4 DP = +60 psf / -65 psf

Zone 5 DP = +60 psf / -80 psf (4' of the corner)

All windows and doors above the 2nd story must be minimum +60 psf / -80 psf or greater

Garage doors are per Table 602(3) ICC-600. *Negative pressure assume door has 2ft of wall from end zone*)

9ft (w) X 7ft (h) 16ft or 18ft (w) X 7ft (h)

DP = +38 psf / -43 psf

DP = +37 psf / -41 psf