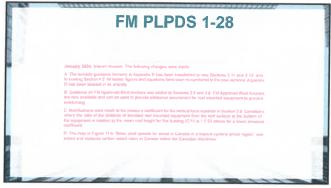


## FM PLPDS 1-28 FM Insured Building's pressures should be determined by using Rating Calculator on FM RoofNav Website www.roofnav.com Note that this is not part of the building code and is not a consensus standard • Calculations Formula based on ASCE 7-05 • Wind Map based on ASCE 7-05 (100-yr MRI) • Results are Allowable Stress Design (ASD) • Safety Factor x2 • GCp based on ASCE 7-16 • Roof Zones based on ASCE 7-16







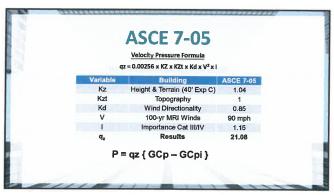
## Importance Categories (Building Use)

Importance Category I – Low risk to human life (Agricultural or storage)

Importance Category II – Not I, III, & IV (Commercial Buildings)

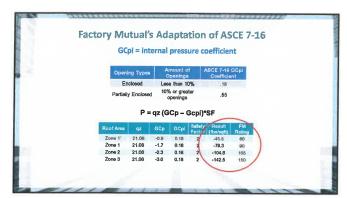
Importance Category III/IV – Substantial risk to human life
(Schools, Public Buildings, Hospitals, Power Plants, etc.)
Importance Factor I = 1.15

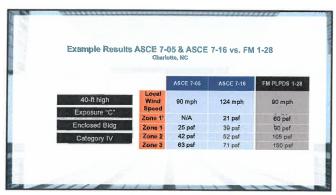
7



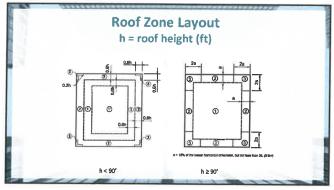
8

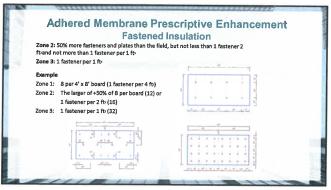
Roof Zone GCp Coefficients			
Roof Zones for Bldgs. < 90'	ASCE 7-16 GCp Coefficient	Roof Zones for Bldgs. ≥ 90'	ASCE 7-16 GCp Coefficient
Zone 1'	0.9	Zone 1'	N/A
Zone 1	1.7	Zone 1	1.4
Zone 2	2.3	Zone 2	2.3
Zone 3	3.0	Zone 3	3.0

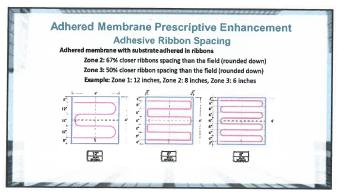


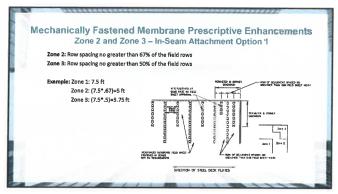


FM PLPDS 1-29		
This is not part of the building code and is not a consensus standard, nor has it been adopted by the Florida Building Code		
Prescriptive Criteria is based on Zone 1, not Zone 1' Prescriptive Criteria Limitations: Zone 1 Rating ≤ 1-90 (90-psf) Zone 1 Rating ≤ 1-105 (105-psf) and in a Non-Tropical Cyclone- Prone Region Prescriptive enhancements redefined Insulation securement for adhered roof covers: Fasteners & Adhesives		
Roof cover securement for mechanically attached roof covers:     Linear in-seam     Induction Welded		









## Mechanically Fastened Membrane Prescriptive Enhancements Zone 2 and Zone 3 – In-Seam Attachment Option 2 Note: This option is similar to ANSI/SPRI WD-1 & RAS 137 Determine Zone 1 Pressure and Uplift Rating of assembly The sheet width from the Zone 1 assembly is allowed to reduce proportionally to the wind uplift increases in Zone 2 and Zone 3 respectively, rounded up to the nearest 15 PSF Example: Zone 1 = -80 psf (uplift rating 90 psf) Zone 1 roof system is 7.5 ft wide rows at 6 inches (0.5 ft) on center [(Zone 1 Rating)\*(Zone 1 Row)]/(Zone 2 or Zone 3 Rating) = Zone 2 or Zone 3 Row Zone 2: Example Results: (90°7.5)/105 = 6.43 ft. rows Zone 3: Example Results: (90°7.5)/150 = 4.5 ft. rows

