ROOFING APPLICATION STANDARD (RAS) No. 128

STANDARD PROCEDURE FOR DETERMINING APPLICABLE WIND DESIGN PRESSURES FOR LOW SLOPE ROOF

1. Scope

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1.1 This roofing application standard has been developed to provide a responsive method of complying with the requirements of Chapters 15 & 16 (High-Velocity Hurricane Zones) of the Florida Building Code, Building. Compliance with the requirements and procedures herein specified, where the pressures (Pasd) have been determined based on Table 1 or 2, of this standard, as applicable, do not require additional signed and sealed engineering design calculations. All other calculations must be prepared, signed and sealed by a professional engineer or registered architect.

2. Definitions

2.1 For definitions of terms used in this application standard, refer to ASTM D 1079 and the Florida Building Code, Building.

- 3. Applicability
 - 3.1 This application standard applies to: exposure C and D category builda. ings; and
 - building heights of less than or b. equal to 40 feet; and
 - roof incline (pitch) is not greater c. than $\frac{1}{2}$ in.:12 in.

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- d. risk category II buildings
- 3.2 Using Table 1 or 2 below, as applicable, determine the minimum design pressure for each respective roof area, which corresponds to the applicable roof height range.
- 3.3 Referencing the selected Roof Assembly Product Approval, check that the listed maximum allowable design pressure for the particular approved system meets or exceeds those listed in Table 1 or Table 2 above, as applicable.

AND CORNER [Pasd(3)] AREAS OF ROOFS FOR EXPOSURE "C" BUILDINGS					
Roof mean height (below)	P _{asd} (1) (Field)	P _{asd} (2) (Perimeter)	P _{asd} (3) (Corners)		
20	-42.8	-71.7	-108.0		
25	-44.8	-75.1	-113.0		
30	-46.4	-77.8	-117.2		
35	-48.1	-80.6	-121.3		
40	-49.4	-82.9	-124.7		

 2 P_{asd} = 0.6P_{ult}

TABLE 2 — RISK CATEGORY II EXPOSURE CATEGORY "D" ^{1, 2} MINIMUM DESIGN WIND UPLIFT PRESSURES, IN PSF FOR FIELD [Pasd(1)], PERIMETER [Pasd(2)]AND CORNER [Pasd(3)] AREAS OF ROOFS FOR EXPOSURE "D" BUILDINGS				
Roof mean height (below)	P _{asd} (1) (Field)	$P_{asd}(2)$ (Perimeter)	P _{asd} (3) (Corners)	
20	-51.4	-86.2	-129.7	
25	-53.4	-89.5	-134.7	
30	-55.0	-92.3	-138.9	
35	-56.4	-94.5	-142.3	
40	-57.7	-96.8	-145.6	

¹ Calculated in accordance with ASCE 7. ² $P_{asd} = 0.6P_{ult}$