Comparison of the 2007 Florida Building Code/2006 ICC with the 2007 Supplement to the 2006 I-Codes

Legislation: SB 2836 - 2007

(1) Before eliminating gravel or stone roofing systems in the Florida Building Code, the Florida Building Commission shall determine and document:

(a) Whether there is a scientific basis or reason for eliminating this option;

(b) Whether there is an available alternative that is equivalent in cost and durability;

(c) Whether eliminating this option will unnecessarily restrict or eliminate business or consumer choice in roofing systems; and

(d) In consultation with the Fish and Wildlife Conservation Commission, whether eliminating this option will negatively affect the nesting habitat of any species of nesting bird.

(2) Notwithstanding s. 553.73, Florida Statutes, the Florida Building Commission may adopt provisions to preserve the use of gravel roof systems in future editions of the Florida Building Code, if necessary to address the determination of the issues addressed in this section.

2007 Florida Building Code/2006 ICC	2007 Supplement to the 2006 Codes
	1502.1 Add a new definition:
	AGGREGATE: In roofing, crushed stone, crushed slag or water-
	worn gravel used for surfacing for roof covering.
	1502.1 Add a new definition:
	BALLAST: Ballast is any item having weight that is used to hold
	or steady an object. In roofing, ballast comes in the form of Large
	Stones or paver systems or light-weight interlocking paver
	systems and is used to provide uplift resistance for roofing
	systems that are not adhered or mechanically attached to the roof
	deck.
1504.4 Ballasted low-slope roof systems. Ballasted low-slope	1504.4 Change to read as follows:
(roof slope < 2:12) single-ply roof system coverings installed in	1504.4 Ballasted low-slope roof systems. Ballasted low-slope
accordance with Section 1507 shall be designed in accordance with Section 1504.8 and ANSI/SPRI RP-4.	(roof slope < 2:12) single-ply roof system coverings installed in

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					accordance with Sections 1507.12 and 1507.13 shall be designed					
				in accordance with Section 1504.8 and ANSI/SPRI RP-4.						
1504.8 Gravel and stone. Gravel or stone shall not be used on the				1504.8 Change to read as follows:						
roof of a building located in a hurricane-prone region as defined in				1504.8 Aggregate. Aggregate shall not be used on the roof of a						
Section 1609.2, or on any other building with a mean roof height				building located in a hurricane-prone region as defined in Section						
exceeding that permitted by Table 1504.8 based on the exposure				1609.2, or on any other building with a mean roof height exceeding						
category and basic wind speed at the building site.					that permitted by Table 1504.8 based on the exposure category and					
o ,r					basic wind speed at the site.					
	TABLE 1504.8				TABLE 1504.8					
N	MAXIMUM ALLOWA BLE MEAN ROOF HEIGHT PERMITTED FOR				N	MAXIMUM ALLOWABLE MEAN ROOF HEIGHT PERMITTED FOR				
В	UILDINGS WITH O	GRAVEL OR S	FONE ON THE F	ROOF IN AREAS	BUILDINGS WITH AGGREGATE ON THE ROOF IN AREAS OUTSIDE A					
	OUTSIDE	AHURRICA	NE-PRONE REG	SION		HURRICANE-PRONE REGION				
l r					 	BASIC WIND	MAXIMUM	I MEAN ROOF H	FICHT (ft) ^{a,d}	1
	BASIC WIND		MEAN ROOF H			SPEED FROM		Exposure categor		
	SPEED FROM FIGURE 1609	В	Exposure categor C	D		FIGURE 1609	В	C	D	1
	(mph)b	D	C	D		(mph)ь				
-	85	170	60	30		85	170	60	30	
-	90	170	35	15		90	170	35	15	
	95	75	20	NP		95	75	20	NP	.
	100	55	15	NP		100	55	15	NP	
	105	40	NP	NP		105	40	NP	NP	
	110	30	NP	NP	-	<u>110</u> 115	30 20	NP NP	NP NP	-
	115	20	NP	NP		115	20 15	NP NP	NP NP	.
	120	15	NP	NP	-	Greater than 120	NP	NP NP	NP	1
	Greater than 120	NP	NP	NP	L	Greater than 120	INF	INF	INF	J
 a. Mean roof height as defined in Section 1609.2. b. For intermediate values of basic wind speed, the height associated with the next higher value of wind speed shall be used, or direct interpolation is permitted. c. NP = gravel and stone not permitted for any roof height. 1507.10 Built-up roofs. The installation of built-up roofs shall comply with the provisions of this section. 1507.10.1 Slope. Built-up roofs shall have a design slope of a 					b. Fo with inter	ean roof height in a or intermediate valu the next higher valu polation is permitted P = gravel and stone	es of basic wi ie of wind spe d.	nd speed, the h eed shall be use	d, or direct	;d
minimum of one-fourth unit vertical in 12 units horizontal (2-										
percent slope) for drainage, except for coal-tar built-up roofs that										
shall have a design slope of a minimum one-eighth unit vertical in										
12 units horizontal (1-percent slope).										
	1507.10.2 Material standards. Built-up roof covering materials									
1507.10.2 Material standards. Dunt-up 1001 covering materials										

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shall comply with the stand	dards in Table 1507	.10.2	
TABLE 1507.			
BUILT-UP ROOFING MATERIAL STANDARDS			
MATERIAL STANDARD	STANDARD		
Acrylic coatings used in roofing	ASTM D 6083		
Aggregate surfacing	ASTM D 1863		
Asphalt adhesive used in roofing	ASTM D 3747		
Asphalt cements used in roofing	ASTM D 3019; D 2822; D 4586		
Asphalt-coated glass fiber base sheet	ASTM D 4601		
Asphalt coatings used in roofing	ASTM D1227; D 2823; D 4479		
Asphalt glass felt	ASTM D 2178		
Asphalt primer used in roofing	ASTM D 41		
Asphalt-saturated and asphalt-coated organic felt base sheet	ASTM D 2626		
Asphalt-saturated organic felt (perforated)	ASTM D 226		
Asphalt used in roofing	ASTM D 312		
Coal-tar cements used in roofing	ASTM D 4022; D 5643		
Coal-tar saturated organic felt	ASTM D 227		
Coal-tar pitch used in roofing	ASTM D 450; Type I or II		
Coal-tar primer used in roofing, dampproofing and waterproofing	ASTM D 43		
Glass mat, coal tar	ASTM D 4990		
Glass mat, venting type	ASTM D 4897		
Mineral-surfaced inorganic cap sheet	ASTM D 3909		
Thermoplastic fabrics used in roofing	ASTM D 5665, D 5726		
1609.1.2			
 4 Exceptions: 3. Glazing in Occupancy Category II, III or IV buildings located over 60 feet (18 288 mm) above the ground and over 30 feet (9144 mm) above aggregate surface roofs located within 1,500 feet (458 m) of the building shall be permitted to be unprotected. 			

HVHZ	
1515.1.5 No loose laid ballasted or nonballasted system shall be	
allowed.	
1519.12 Surfacing. Roofing assemblies shall be surfaced in compliance with the Product Approval. Surfacing shall be in sufficient quantity to comply with the required fire classification. Aggregate surfacing shall not be used on slopes greater than 3:12. Aggregate shall be embedded in a flood coat of bitumen applied over a prepared top ply.	
1519.12.1 On slopes of 3:12 or less, not less than 400 pound (182 kg) of roofing gravel or 300 pounds (145 kg) of slag per square shall be applied. A minimum of 50 percent of the total aggregate shall be embedded in the flood coat of bitumen. Aggregate shall be dry and free from dirt and shall be in compliance with the sizing requirements set forth in ASTM D 1863. A building official may request a test to confirm compliance with these requirements.	
1519.12.2 On inclines greater than 3:12, a smooth surface coating shall be applied.	