

CODE TOPICS

2017 FBC 6th ED, SECTION 454.2, RESIDENTIAL POOLS

POOL SCREEN CAGE FOOTINGS

TOPIC BACKGROUND

Many contractors may not be aware that there are minimum requirements for cage footings contained in the code.

WHAT THE CODE SAYS

The 2017 FBC 6th Ed adopts the 2014 Edition of the AAF Guide to Aluminum Construction in High Wind Areas as a Reference Standard. This means that absent specific signed and sealed cage engineering, these are the minimum footing requirements. Below are two tables, annotated with information from other pages in the AAF Guide. For any work along the coast, use the 140 mph wind zone.

The allowable beam span is typically taken as the shorter distance across the pool deck. For example, a paver pool deck that is 33 ft out from the house, use the top table in the 40.0' span. The minimum footing is 16"x12" with 2 #5s. As a ribbon footing, the width and depth can be interchanged.

ALLOWABLE BEAM SPANS (FT) FOR RIBBON FOOTINGS TABLE 111

EXPOSURE B	FOOTING SIZES AND CROSS-SECTIONAL AREAS				
WIND ZONES	81	108	144	192	256
	9"X9"	9" X 12"	12" X 12"	16" X 12"	16" X 16"
up to 120	27.0	36.0	40.0	40.0	40.0
130	21.6	28.8	38.4	40.0	40.0
140	18.0	24.0	32.0	40.0	40.0
	1 #5	2 #5	2 #5	2 #5	2 #5

PAVER
DECKS

TABLE NOTES:

- 1) HEIGHT AND WIDTH DIMENSIONS MAY BE REVERSED
- 2) TABLE MAY BE INTERPOLATED BY CROSS-SECTIONAL AREA

Allowable (Maximum) Beam Spans for Monolithic Footings (Details F1/F2) in Exposure B Table 112

Wind Zone (MPH)	Slab Only	Edge Footings - Depth by Width (Detail F2)				
		D 8X8 W	D 8X12 W	D 12X8 W	D 12X12 W	D 12X16 W
up to 120	33'-8"	40'-0"	40'-0"	40'-0"	40'-0"	40'-0"
130	26'-11"	36'-7"	40'-0"	40'-0"	40'-0"	40'-0"
140	22'-5"	30'-6"	37'-7"	34'-6"	40'-0"	40'-0"
		1 #5	2 #5	1 #5	2 #5	2 #5

CONCRETE
DECKS

REQUIRED AT PLAN REVIEW

Ensure that all references to pool deck footing are consistent and meet these minimum requirements. If the pool cage permit has been submitted prior to or with the pool permit, check that application for the minimum footing requirements.

REQUIRED DURING INSPECTION

Simply view the footing size and steel to verify it is according approved plans.

Disclaimer: This is offered as a summary and guidance on code requirements. This does not authorize a code violation.