Concrete Pavement Requirements for Acceptance

Quality characteristic	Test method		Requirement
	CRCP	JPCP	
Air content	California Test 504		±1.5 % of the specified value[a]
Modulus of rupture at 28 days (min, psi)	California Test 523		570[b]
Bar reinforcement depth tolerance at joints (min)	Field measurement		1/2 inch below the saw cut depth
Dowel bar placement tolerances[c]: Horizontal offset (inch) Longitudinal translation (inch) Horizontal skew (max, inch) Vertical skew (max, inch) Vertical depth	--	Field measurement	±1 ±2 5/8 5/8 The minimum distance measured from the concrete pavement surface to any point along the top of the dowel bar must be: DB + 1/2 inch where: DB = 1/3 of the pavement thickness or the saw cut depth in inches, whichever is greater The maximum distance below the depth shown must be 5/8 inch.
Tie bar placement tolerances[c]: Horizontal and vertical skew (max, inches) Longitudinal translation (inches) Horizontal offset (embedment, inches) Vertical depth	--	Field measurement	5 1/4 ±2 ±2 1. At least 1/2 inch below the bottom of the saw cut 2. At least 2 inches from any point along the bar to the pavement surface or bottom
Coefficient of friction (min): Concrete pavement Ramp termini	California Test 342		0.30 0.35
Pavement smoothness	California Test 387, AASHTO R 57, and AASHTO R 56		1. No area of localized roughness with an International Roughness Index greater than 120 in/mi 2. Mean Roughness Index of 60 in/mi or less within a 0.1 mile section
Thickness tolerance[d] (max, foot)	California Test 531		0.01 foot deficient of the thickness shown

[a]If no value is specified, the air content must be within ±1.5 % of the value used for your authorized mix design.
[b]Average of the individual test results of 2 test beams.
[c]Placement tolerance is measured relative to the completed joint.
[d]See section 40-1.01D(8)(c)(iv) for additional thickness requirements.