

Petrographic Examination - Air Void Analysis

ASTM C457 - Depth of Penetration

Results on 50+ Year Old Slab



Table No. 3
Summary of Hardened Air-Void Analysis

Test Method Used	ASTM C457 Modified Point-Count Test Method Procedure B (at Magnification of 115 Times)			
Davroc Sample No.	C608-1		C6085-2	
Client Core Identification	4298-1B		4298-2B	
Test Horizon (mm)	~2.5 to 15	~95 to 110	~2.5 to 15	~95 to 110
Specimen Size, (mm)	~98mm x 210mm		~98mm x 175mm	
Total Length of Traverse (mm)	553.35	566.10	566.10	566.10
Number of Stops	217	222	222	222
Total Air Content (%)	4.6	9.9	1.8	4.1
Void Frequency (per mm)	0.195	0.186	0.136	0.106
Paste Content (%)	36.41	30.18	26.13	20.72
Paste-Air Ratio	7.915	3.048	14.517	5.054
Average Chord Length (mm)	0.236	0.534	0.133	0.382
Specific Surface (mm ⁻¹)	16.94	7.49	30.20	10.46
Spacing Factor (mm)	0.337	0.407	0.247	0.447
Testing Conducted By	Robert Ji			