

Laboratory Test Sheet
Penetration Test on Bitumen

Client : Alfred McAlpine Civil Engineering Site : Stanton North Phase II
 Client Ref : 12345 Lab. Ref : 10073 Job No : B4240/96V Date Received : 04/09/1996
 Supplier : _____ Source : _____
 Material Type : Sub-base Specification : Type 1 Sub-base
 Material Name : Type 1 Sub-base Binder Type : _____

Test Method BS2000 For Penetrations below 350 pen

Spindle Weight 47.5 +/- 0.05 g	Spindle + Needle 50 +/- 0.05 g	Weights	50g	100g	
Total Weight Spindle + Needle + Weight			Needle Checked		
Sample Container	Penetrations Below 200 pen	Diameter 55mm			
	Penetrations between 200 and 350 pen	Internal Diameter 35mm			
Water Bath	Diameter 70mm				
	Internal depth 45mm				
Transfer Dish	10 litre capacity to maintain temperature of 25 +/- 0.1 deg C or at other temperature relevant for the material				
Timing Device	Capacity of at least 350ml				
Thermometers	Accurate to 5 seconds +/- 0.1 second				
Grade of Bitumen under Test	For Tests at 25C	IP 38C			
	For Tests at 0C and 4C	ASTM 63C or 63F			
	For Tests at 46.1C	ASTM 64C or 64F			
Softening Point					
Time taken to heat the sample					
Temperature of Sample 1 when poured into Sample Container		Container No.			
Temperature of Sample 2 when poured into Sample Container		Container No.			
Time when poured		Time when cooling completed 1 to 1.5 hrs for small container 1.5 to 2 hrs for large container			
Time when placed into transfer dish and water bath		Time when cooling completed 1 to 1.5 hrs for small container 1.5 to 2 hrs for large container			
Where unspecified test conditions should be at 25C with 100g and at 5 sec					
Needle No.	Test No.	Initial Dial Reading	Final Dial Reading	Penetration	Average
	1				
	2				
	3				
Penetration		0 to 49	50 to 149	150 to 249	250 and above
Max difference between highest and lowest determination		2	4	6	8

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Comments : _____
 Tested By : _____ Date : _____ Checked By : _____ Date : _____
 Check Level (1/2/3)

Notes : * Delete as applicable