



CORE DENSITY, IGNITION ASPHALT CONTENT AND SIEVE ANALYSIS

CONTRACT NO. <input type="text"/>	PROJECT NO. <input type="text"/>	CONTRACTOR <input type="text"/>	DATE LAID <input type="text"/>
LOT NO. <input type="text"/>	SEGMENT NO. <input type="text"/>	LANE <input type="text"/>	STATION <input type="text"/>
		LOCATION <input type="text"/>	

SEGMENT DENSITY

ADDITIONAL UNCUOT ROCK CORE MIX FOR IGNITION

A	CORE THICKNESS	mm	
B	SAWED CORE WEIGHT	g	
C	SATURATED SURFACE DRY WEIGHT	g	
D	VOLUME OF CORE	cm ³	
E	WET DENSITY	1000 B / D kg/m ³	
F	DRY WT. OF CUT ROCK CORE MIX + PAN	g	
G	WT. OF TARE PAN @ 130°C (NO. _____)	g	
H	DRY WT. OF UNCUOT ROCK CORE MIX + PAN	g	
I	WT. OF TARE PAN (NO. _____)	g	
J	TOTAL DRY WT. OF CORE MIX	(F - G) + (H - I)	g
K	WEIGHT OF WATER	B - J	g
L	MOISTURE CONTENT	100 K / J	%
M	CORE DRY DENSITY	1000 J / D	kg/m ³
N	AIR VOIDS CONTENT		%
O	LOT AVERAGE MARSHALL DENSITY		kg/m ³
P	PERCENT COMPACTION	100 M / O	%
	TIME CORE(S) PLACED IN OVEN	h_min	
	TIME SAMPLES TAKEN OUT OF OVEN	h_min	
	DRYING TIME	h_min	

Q	DRY WT. OF UNCUOT ROCK CORE MIX + PAN	g	
R	WT. OF TARE PAN @ 130°C (NO. _____)	g	
S	DRY WT. OF UNCUOT ROCK CORE MIX	Q - R	g

EXTRACTION DATA

T	TOTAL DRY WT. OF UNCUOT ROCK MIX	S + H - I	g
U	WT. OF IGNITION BASKET @ 130°C (NO. _____)		g
V	IGN. BASKET WEIGHT CORRECTION FACTOR		g
W	WT. OF IGNITION BASKET @ 538°C (Note1)	U + V	g
X	WT. OF DRY AGG. + BASKET @ 538°C (Note2)		g
Y	WEIGHT OF DRY AGG. FROM IGNITION	X - W	g
Z	WT. OF ASPHALT	T - Y	g
AA	UNCORRECTED ASPHALT CONTENT	100 Z / Y	%
BB	IGNITION ASPHALT CORRECTION FACTOR		%
CC	CORRECTED IGNITION ASPH CONTENT	AA + BB	%
	TIME IGNITION STARTED		h_min
	TIME IGNITION ENDED		h_min
	IGNITION TIME		h_min

Note 1: Calculated weight using correct factor or actual weight @ 538°C.
 Note 2: Includes ignited ash brushed off pans and implements (fines correction).

SIEVE ANALYSIS CALCULATIONS

CALCULATIONS

WT. OF DRY AGGREGATE (Y) _____ g				
SIEVE SIZE µm	WEIGHT RETAINED g	WEIGHT PASSING g	PERCENT PASSING %	DESIGN or TARGET LIMITS(%)
25 000				
20 000				
16 000				
12 500				
10 000				
5 000				
2 500				
1250				
630				
315				
160				
80				
TARE PAN		DIFFERENCE DD - EE	% DIFF. 100 FF / DD	MAXIMUM DIFFERENCE
TOTAL WEIGHT (EE)				
DRY WASH WT (DD)		(FF)		0.5%

DATE TESTED _____ TECHNOLOGIST(S) _____

DATA CHECKED BY: _____

REMARKS: _____

NOTE: TRANSFER SHADED DATA TO THE LOT PAVING REPORT

