Data Sheet
Determination of Elongation Index of Aggregate Sample

Group No. - **Sample No.**
Student Name: **Student ID:**
Date:

Type of Materials:
Test Method: BS 812 (Part 1)

Sieve Size (mm)	Gauge Size (Used)	Wt. of Material Retained (gms)	% of Material Retained	Check if Greater than 5% (ok/not ok)	Fraction of Material Retained (gms)	Elongated Particles (Amount Retained) (gms)
63.0	-	x	x	x		x
50.0		x	x	x		
37.5						
28.0						
20.0						
14.0						
10.0						
6.3						
		M_1	100%		M_2	M_3

Calculation:

Elongation Index (E.I.) = $\frac{M_3}{M_2}$ x 100= %

Signature of Student: _____

Signature of Course Teacher: _____

Dimension of Thickness Gauge

Aggregate Size Fraction		Thickness Gauze Width of Slot (Average x 1.8)	Minimum Mass for Subdivision
BS Test Sieve Nominal Aperture size			
100% Passing	100% Retained		
mm	**mm**	**mm**	**Kg**
63.0	50.0	-	50
50.0	37.5	78.0±0.3	35
37.5	28.0	59.0±0.3	15
28.0	20.0	43.2±0.3	5
20.0	14.0	30.6±0.3	2
14.0	10.0	21.6±0.3	1
10.0	6.3	14.7±0.3	0.5

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Data Sheet
Determination of Flakiness Index of Aggregates

Group No.: **Sample No.**
Student Name: **Student ID:**
Date:

Type of Materials:
Test Method: BS 812 (Part 1)

Sieve Size (mm)	Gauge Size (Used)	Wt. of Material Retained (gms)	% of Material Retained	Check if Greater than 5% (ok/not ok)	Fraction of Material Retained (gms)	Flaky Particles (Amount Passed) (gms)
63.0	-	x	x	x		x
50.0						
37.5						
28.0						
20.0						
14.0						
10.0						
6.3						
		M_1	100%		M_2	M_3

Calculation:

Flakiness Index (F.I.) = $\frac{M_3}{M_2}$ x 100= %

Signature of Student: _____

Signature of Course Teacher: _____

Dimension of Thickness Gauge

Aggregate Size Fraction		Thickness Gauze Width of Slot (Average x 0.6)	Minimum Mass for Subdivision
BS Test Sieve Nominal Aperture size			
100% Passing	100% Retained		
mm	**mm**	**mm**	**Kg**
63.0	50.0	33.9±0.3	50
50.0	37.5	26.3±0.3	35
37.5	28.0	19.7±0.3	15
28.0	20.0	14.4±0.3	5
20.0	14.0	10.2±0.3	2
14.0	10.0	7.2±0.3	1
10.0	6.3	4.9±0.3	0.5

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