



AGGREGATES: DETERMINATION OF PARTICLE SHAPE FLAKINESS INDEX

Aggregate:

Test portion mass $M_0 =$ g		Mass retained on the 100 mm sieve = g Mass passing the 4 mm sieve = g Sum of discarded masses = g		
Sieving on test sieves		Sieving on bar sieves		
Particle size fraction d_i/D_i mm	Mass R_i of particle size fraction d_i/D_i g	Nominal width of slot in bar sieve mm	Mass m_i passing bar sieve g	$FI_i = (m_i/R_i) \times 100$
80/100		50		
63/80		40		
50/63		31,5		
40/50		25		
31,5/40		20		
25/31,5		16		
20/25		12,5		
16/20		10		
12,5/16		8		
10/12,5		6,3		
8/10		5		
6,3/8		4		
5/6,3		3,15		
4/5		2,5		
$M_1 = \sum R_i =$		$M_2 = \sum m_i =$		
$FI = (M_2/M_1) \times 100 =$				
Measurement error calculation:				
$100 \times \frac{M_0 - (\sum R_i + \sum \text{discarded masses} + \sum \text{not tested masses})}{M_0} =$				<1%

CONCLUSIONS: