Certificate of Testing & Analysis 3-Point Flexural Strength of Dimension Stone BS EN 12372: 1999

Client and Sample	e Details			
Client	The Ardósia Slate Company Limited, The Chase, Park Street, Lynton, Devon EX35 6BY			
IBIS Ref. No	1113/1-6	Sample No	1-6	
Source	Ardosia slate advised to be from Brazil			
Sample Details	Specimens taken from 400mm square samples			
Sampled by	Client	Date Sampled	Not advised	
Tested by	PS/BEL	Date Tested	11.07.03	

Methods of Testing and Analysis			
Method	BS EN 12372: 1999. Natural stone test methods – Determination of flexural strength under concentrated load.		
Comments	Six nominal 300mm by 50mm by 10mm specimens were tested in the recommended dry condition. The loading rate was 200N/s.		
Accreditation	The test was carried out by a UKAS accredited laboratory with specific UKAS accreditation for the test		

Results				
Flexural Strength, MPa	52.9	Range	32.4 – 65.9	

Remarks

Presently there is no guidance given by the European Standards Commission for the results of this test.

The direction of testing with respect to the presence of a grain or secondary splitting direction was not known. It is possible that if the slate did exhibit a grain then this would explain the variation in the results.

There was one very low result which may have been anomalous, causing the range to be greater than ±20%. By removing the result the average becomes 57.0MPa whilst the range of the remaining values is within 20% of this value suggesting that the revised average may be more realistic.

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Barry J Hunt

Director, IBIS Limited

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Materials

building stone roofing slate external cladding plaster render high alumina cement paint internal lining rock aggregate mortar composites brick ceramic terracotta faience dimension stone glass lime & hvdraulic lime pozzolana cement

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