



BRICK & MORTAR RESEARCH LABORATORY

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NATA Accredited Laboratory No 658

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TEST CERTIFICATE NO 7415

DATE: 24/6/09

EVALUATION OF ROOFING SLATE

CLIENT: David Guy
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SAMPLE: Pieces of Chinese roofing slate, 100 x 100 x 7 mm

SAMPLER: Client

RECEIVED: 12/6/09

DATE OF TESTING: 12 to 24 June 2009

TEST

METHOD OF TEST

Determination of:

Potential to effloresce	AS/NZS 4456.6-2003
Transverse strength	AS 4046.3-2002
Water absorption	AS 4046.4-2002
Permeability	AS 4046.5-2002

POTENTIAL TO EFFLORESCE

The test specimens were placed with one end in water.

Specimen no	1	2	3	4	5
Classification	Slight	Nil	Slight	Slight	Slight

Classification of the sample: Slight

Type of efflorescence: Specimens 1,3,4: slight white stain just above waterline
Specimen 5: as for 1,3,4, plus fine white powdery efflorescence approx. 15 mm above waterline.

Test Certificate No 7415

24/6/09

TRANSVERSE STRENGTH

Span between support bars: 90 mm. Specimen width: 100 mm.
 Required minimum mean breaking load: 400 N.
 Required minimum individual breaking load: 332.5 N

Specimen no	Breaking load, N	Specimen no	Breaking load, N
1	1810	4	1750
2	2390	5	1610
3	1570	6	1600

Mean breaking load: 1790 N

WATER ABSORPTION

Specimen no	Water absorption, %	Specimen no	Water absorption, %
1	0.4	6	0.5
2	0.4	7	0.5
3	0.5	8	0.3
4	0.2	9	0.3
5	0.3	10	0.3

Mean water absorption: 0.4 %

PERMEABILITY

Specimen no	Any water penetrating to underside?
1	No
2	No
3	No

STUART ERREY
MRACI, C Chem
Director