

**CLIENT SAMPLE DATA
(NATURAL STONE PRODUCTS)**

Customer (your company name) :
Contract (your Project Title/Job no.) :
Customer Purchase Order No. :
Results required by (date) :

Bulk samples will be retained for a min. of 21 days from date of receipt unless a written instruction is received within 14 days of receipt requesting sample retention

Analysis required : <i>*Tick boxes required</i> (As per Natural Stone Product Test Standards It is Client's Responsibility To Obtain Test Specimens - Refer to Attached Test Specimen List of Requirements)	<input type="checkbox"/> * M71 -	Resistance to Salt Crystallisation - BS EN 12370:1999
	<input type="checkbox"/> * M72(i) -	Frost Resistance (with specimens tested to Flexural Strength Under Concentrated Load "after freezing") - BS EN 12371:2010 (& BS EN 12372:2006)
	<input type="checkbox"/> * M72(ii) -	Frost Resistance (with specimens tested to Flexural Strength Under Constant Moment "after freezing") - BS EN 12371:2010 (& BS EN 13161:2008)
	<input type="checkbox"/> * M73 -	Flexural Strength Under Concentrated Load - BS EN 12372:2006
	<input type="checkbox"/> * M74 -	Petrographic Examination - BS EN 12407:2007
	<input type="checkbox"/> * M75 -	Flexural Strength Under Constant Moment - BS EN 13161:2008
	<input type="checkbox"/> * M76 -	Breaking Load at Dowel Hole - BS EN 13364:2002
	<input type="checkbox"/> * M77 -	Water Absorption at Atmospheric Pressure. - BS EN 13755:2008
	<input type="checkbox"/> * M78 -	Abrasion Resistance - BS EN 14157:2004
	<input type="checkbox"/> * M79 -	Slip Resistance by Pendulum Tester - BS EN 14231:2003
	<input type="checkbox"/> * M80 -	Water Absorption Coefficient by Capillarity. - BS EN 1925:1999
	<input type="checkbox"/> * M81 -	Uniaxial Compressive Strength - BS EN 1926:2006
<input type="checkbox"/> * M82 -	Real and Apparent Density, and Total and Open Porosity - BS EN 1936:2003	

ACS use / Information	<u>Data to be Supplied by Client/Customer (as per Natural Stone Test Standards)</u>
Source of material :	Supplier Name :
Client reference/data :	Commercial Name of Stone :
Location of sample on site / Description of batch :	Country & Region of Extraction :
Date Sampled :	Date Sampled/Prepared(if known) :
Sampled By :	Name of Person or Organisation who conducted sampling :
Material desc'n :	Petrographic Name of the Stone :
Client's indicated specification(s) :	Relevant Contract Document : Supplied []* , No Document Available [] * (*please tick as appropriate)
Lab Info Only	Direction of any existing plane of anisotropy(if relevant to test) to be clearly marked on []* specimens by means of two parallel lines by client/supplier (*please tick if so marked)
Lab Info Only	Surface Finish of Specimens (if relevant to test) :

Report address :

Invoice address :

For the attention of :	Email :
Telephone number :	(one address only)
	Fax number :

I hereby request ACS Testing to analyse the aforementioned samples in accordance with the data provided above

Signed : Name : Date :

Laboratory reference no(s) : Total mass received : kg / g

Remarks :

Received by : Date received :

Collected ☐ Delivered ☐

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**Quality Testing & Materials Consultancy
to the
Construction Industry**

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NATURAL STONE TESTING – SAMPLE REQUIREMENTS

TEST REF.	TEST	STANDARD	NO. of SAMPLES & PREFERRED DIMENSIONS	SAMPLE REQUIREMENTS
M71	Resistance to salt crystallisation.	BS EN 12370:1999	At least 6 measuring: 40±1mm x 40±1mm x 40±1mm	40±1mm cubes - wet diamond sawn and any surface irregularities removed by grinding.
M72	Frost resistance.	BS EN 12371:2010	21 measuring: Thickness: 50±1mm Width: 100±1mm Length: 300±1mm OR 50±5mm x 50±5mm x 50±5mm depending on client's specification requirements.	Flexural strength in accordance with BS EN 13161 (see test ref. M75) or BS EN 12372 (see test ref. M73), or uniaxial compressive strength in accordance with BS EN 1926 (see test ref. M81) depending on client's specification requirements.
M74	Petrographic examination.	BS EN 12407:2007	1 measuring about: 44mm x 28mm	Large enough to be representative of the petrographic characteristics of the stone.
M73	Flexural strength under concentrated load.	BS EN 12372:2006	10 measuring: Thickness: 50±1mm Width: 100±1mm Length: 300±1mm	Thickness: between 25mm and 100mm and greater than twice the size of the largest crystal in the stone. Length: six times the thickness. Width: between 50mm and three times the thickness, but never less than the thickness.
M75	Flexural strength under constant moment.	BS EN 13161:2008	10 measuring: Thickness: 50±1mm Width: 100±1mm Length: 300±1mm	Thickness: between 25mm and 100mm and greater than twice the size of the largest crystal in the stone. Length: six times the thickness. Width: between 50mm and three times the thickness, but never less than the thickness.
M77	Water absorption at atmospheric pressure.	BS EN 13755:2008	At least 6 measuring: 50±5mm x 50±5mm x 50±5mm	50±5mm or 70±5mm cubes.
M78	Abrasion resistance.	BS EN 14157:2004	At least 6 measuring: Thickness: 50mm Width: 150mm Height: 150mm	The standard states at least 100mm x 70mm but it appears 150mm x 150mm x 50mm might be more appropriate.
M80	Water absorption coefficient by capillarity.	BS EN 1925:1999	At least 6 measuring: 50±5mm x 50±5mm x 50±5mm	50±5mm or 70±5mm cubes.

NATURAL STONE TESTING – SAMPLE REQUIREMENTS

TEST REF.	TEST	STANDARD	NO. of SAMPLES & PREFERRED DIMENSIONS	SAMPLE REQUIREMENTS
M81	Uniaxial compressive strength.	BS EN 1926:2006	At least 10 measuring: 50±5mm x 50±5mm x 50±5mm	50±5mm or 70±5mm cubes, flat to a tolerance of 0.1mm in any 100mm and parallel to 1mm in 100mm. The specimens shall be finished on a surface grinder to meet the above tolerances.
M82	Real and apparent density and total and open porosity.	BS EN 1936:2003	At least 6 measuring: 50±5mm x 50±5mm x 50±5mm	50±5mm cubes are satisfactory.
M76	Breaking load at dowel hole.	BS EN 13364:2002	Either 3 or 5 depending on planes of anisotropy measuring: 200mm x 200mm x 30mm. Other dimensions may be applicable depending on planes of anisotropy and end use. Client to specify.	The specimens are square slabs with the following dimensions: 20mm to 65mm thick – 200mm x 200mm >65mm to 80mm thick – 300mm x 300mm
M79	Slip resistance by pendulum tester.	BS EN 14231:2003	6 measuring: 200mm x 200mm x 50mm	The test specimens shall be a whole product or a cut piece incorporating the upper face of the unit. Each specimen shall permit a test area of 136mm x 86mm.

Note: Where dimensional tolerances are stated it is important that these are complied with in order that the required test can be carried out in full compliance with the relevant standard.