

6 Standards, guidelines

STANDARDS - EUROPE:

The following CEN TC Technical committees are working with product standards, test methods and terminology standards for natural stone:

CEN TC 246 - Natural Stone. Secretariat held by UNI, Italy. [CEN TC 246](#)

CEN TC 178 – Paving units and kerbs. Secretariat held by BSI, United Kingdom [CEN TC 178](#)

CEN TC 125 – Masonry. Secretariat held by BSI, United Kingdom [CEN TC 125](#)

CEN TC 128 – Roof covering products for discontinuous laying and wall claddings. Secretariat held by NBN, Belgium [CEN TC 128](#)

CEN TC 154 – Aggregates has developed a standard for armourstone [CEN TC 154](#)

A description of the organization, status and contents is given in the document CEN TC 246 Natural stones standardization from the NICE project.

Tables of relevant product standards and standardized test methods are listed below

USA

ASTM web pages: <http://www.astm.org/>

RUSSIA

Database of Russian standards GOST: <http://www.russiagost.com/>

AUSTRALIA:

The body of reference for standardization activities is: <http://www.standards.org.au/>

CEN TC 246 standards

EN	Harmonised European product standards for natural stone
1341	Slabs of natural stone for external paving – Requirements and test methods
1342	Setts of natural stone for external paving – Requirements and test methods
1343	Kerbs of natural stone for external paving – Requirements and test methods
1469	Natural stone products - Slabs for cladding - Requirements
12057	Natural stone products - Modular tiles - Requirements
12058	Natural stone products - Slabs for floors and stairs - Requirements
12326-1	Slate and stone products for discontinuous roofing and cladding - Part 1: product specification
12326-2	Slate and stone products for discontinuous roofing and cladding - Part 2: methods of test
771-6	Specification for masonry units - Part 6: Natural stone masonry units

EN	Other European product standards
1467	Natural stone – Rough blocks - Requirements
1468	Natural stone – Rough slabs - Requirements
12059	Natural stone products – Dimensional stone work - Requirements

Standards on terminology and denomination

EN	Other European standards
12440	Natural stone – Denomination criteria
12670	Natural stone - Terminology

EN European test methods for natural stones	
1925	Natural stone test methods – Determination of water absorption coefficient by capillarity
1926	Natural stone test methods – Determination of compressive strength
1936	Natural stone test methods – Determination of real density and apparent density, and of total and open porosity
12370	Natural stone test methods – Determination of resistance to salt crystallisation
12371	Natural stone test methods – Determination of frost resistance
12372	Natural stone test methods – Determination of flexural strength under concentrated load
12407	Natural stone test methods – Petrographic examination
13161	Natural stone test methods – Determination of flexural strength under constant moment
13364	Natural stone test methods – Determination of breaking load at dowel hole
13373	Natural stone test methods – Determination of geometric characteristics on units
13755	Natural stone test methods – Determination of water absorption at atmospheric pressure
14066	Natural stone test methods – Determination of resistance to ageing by thermal shock
14146	Natural stone test methods – Determination of the dynamic modulus of elasticity (by measuring the fundamental resonance frequency)
14147	Natural stone test methods – Determination of resistance to ageing by salt mist
14158	Natural stone test methods – Determination of rupture energy
14205	Natural stone test methods – Determination of Knoop hardness

14231	Natural stone test methods – Determination of the slip resistance by means of the pendulum tester
14157	Natural stones – Determination of abrasion resistance
14579	Natural stone test methods – Determination of sound speed propagation
14580	Natural stone test methods – Determination of static elastic modulus
14581	Natural stone test methods – Determination of thermal expansion coefficient
12326-2	Slate and stone products for discontinuous roofing and cladding – Part 2: Methods of test

EN	Test methods for masonry blocks and units, the 772-series
772-1	Methods of test for masonry units - Part 1: Determination of compressive strength
772-4	Methods of test for masonry units - Part 4: Determination of real and bulk density and of total and open porosity for natural stone masonry units
772-11	Methods of test for masonry units - Part 11: Determination of water absorption due to capillary action
772-16	Methods of test for masonry units - Part 16: Determination of dimensions
772-20	Methods of test for masonry units - Part 20: Determination of flatness of faces of aggregate concrete, manufactured and natural stone masonry
1745	Masonry and masonry products - Methods for determining design thermal values.

Nordic test methods	
NT BUILD 479	Natural building stone: Coefficient of thermal expansion
NT BUILD 499	Cladding panels: test for bowing
NT BUILD 514	Natural stones: Determination of sensitivity of accidental staining

Selected ASTM standards and guidelines for Natural stones/Dimensional stones

ASTM C 97-96-absorption specific gravity.pdf

ASTM C 99-87 -modulus of rupture 3 pt load.pdf

ASTM C 119-01 -terminology dimension stone.pdf

ASTM C 120-00 –flexure testing of slate.pdf

ASTM C 121-90 water absorption slate.pdf

ASTM C 170-90 compressive strength.pdf

ASTM C 217-94 Weather resistance of slate.pdf

ASTM C 406-00 Roofing slate.pdf

ASTM C 503-99 Marble specification.pdf

ASTM C 568-99Limestone specification.pdf

ASTM C 615-99Granite specification.pdf

ASTM C 616-99Quartz based stone specification.pdf

ASTM C 629-99Slate specification.pdf

ASTM C 880-98 Flexural strength 4 pt.pdf

ASTM C 1201-91 Static air pressure.pdf

ASTM C 1242-00 Anchor design.pdf

ASTM C 1352-96 Flex E-modulus.pdf

ASTM C 1354-96Anchor strength.pdf

ASTM C 1378_04 Resistance to staining.pdf

ASTM C 1496-01 Maintenance.pdf

ASTM C 1515-01Cleaning guideline.pdf

ASTM D 4535 2004 Thermal expansion.pdf

ASTMc18.08 Guide for selection of natural stones for exterior use.pdf

ASTM C217.17559-1Roofing slate weathering resistance.pdf

ASTM C406.17329-1Roofing slate specs.pdf

ASTM D 5607Direct shear strength.pdf

ASTM-E 2270-03 Inspection of building fasades.pdf

ASTM C18.08 Standard guide for the selection of Dimension stone for exterior use 2001.pdf

Petrographic Evaluation of Dimension Stone V1_5.pdf