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Natursten – Benämning

Natural stone – Denomination criteria

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This standard supersedes the Swedish Standard SS-EN 12440, edition 1.

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EUROPEAN STANDARD

EN 12440

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 2008

ICS 01.040.91; 91.100.15

Supersedes EN 12440:2000

English Version

Natural stone - Denomination criteria

Pierres naturelles - Critères de dénomination

Naturstein - Kriterien für die Bezeichnung

This European Standard was approved by CEN on 25 November 2007.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN Management Centre or to any CEN member.

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EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This document (EN 12440:2008) has been prepared by Technical Committee CEN/TC 246 "Natural stones", the secretariat of which is held by UNI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by July 2008, and conflicting national standards shall be withdrawn at the latest by July 2008.

This document supersedes EN 12440:2000.

This European Standard is one of a series of European Standards for natural stone products including terminology, test methods and product standards.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

Introduction

The International marketing of natural stone has introduced a great number of names to designate the different varieties of stone. Most of them are traditional names and usually reflect the typical colour and/or other natural features and the place of origin of the stone, although this is not always the case.

Sometimes, the name of a variety includes terms related to the geological classification of the rock (such as granite, marble, quartzite etc.) that may or may not coincide with the accurate petrological name of the rock. Other times, the same name is used to denominate different stones or similar varieties are denominated with different names.

The objective of this European Standard is to unify the designation criteria of natural stone varieties, maintaining the traditional names and introducing terms related to its petrologic nature, typical colour, and place of origin.

An informative annex provides a non-exhaustive provisional list of the names under which most stones from each contributing European country are known. This list is subjected to revision in future editions.

1 Scope

This European Standard specifies the criteria for the designation of natural stone from raw material to finished products.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 12407, *Natural stone test methods — Petrographic examination*

EN 12670:2001, *Natural stone — Terminology*

3 Denomination of natural stone

3.1 General

Natural stones will receive a description which shall include the following parts:

3.2 Name of the natural stone (traditional name)

The name of the natural stone under which it is marketed corresponds to a particular type of rock and with a specific place of origin. Geographical names not related with the actual place of origin of the stone and company names shall be avoided.

NOTE Frequently a place of origin of a specific stone does extend beyond purely administrative borderlines. A traditional name may include the designation of a variety name, which identifies a specific selection within a given type of rock and a given place of origin (e.g. the bench or level in the quarry, or some typical colour and character).

3.3 Petrological family

Scientific name of the petrological family of the rock according to 3.2 of EN 12670:2001. If the rock is not included in the classifications of 3.2 of EN 12670:2001, an appropriate scientific term shall be employed.

3.4 Typical colour

The range of colour that a stone variety shows. A visual colour appearance of one or more dry and clean bulk samples observed under shadow natural light. It is noted that surface finish and other features affect the visual colour impression of the stone.

3.5 Place of origin

The location of the area or quarry shall be as precise as possible, including at least, the city or village, municipality or community, county, province or department and country, separated by a comma (see Annex A).

4 Other information

4.1 General

If available or if agreed between buyer and seller, the following data may also be provided:

4.2 Process finish

For prepared products, the surface finish using an adequate term from 2.3 of EN 12670:2001.

4.3 Natural features

Natural features that may affect the appearance of the stone, according to Clause 2 of EN 12670:2001, i.e.: veins, inclusions, clots, xenoliths, texture, structures, cracks etc.

4.4 Petrographic name

Scientific name of the rock according to 3.2 of EN 12670:2001, and obtained by petrographic examination according to EN 12407.

4.5 Geological age

The age of the stone according to 3.1 of EN 12670:2001. It shall be given whenever possible. If available, further geological data may be provided.

Annex A (informative)

Traditional names of European natural stones

A.1 General

This annex is a non-exhaustive list of the majority of European natural stones and is a first attempt to list the stones produced in Europe and its petrological classification. It will be revised in further editions of this European Standard.

The structure of the information on each stone variety is:

- name or names (traditional name);
- petrological family;
- typical colour;
- place of origin.

In some cases the petrological family is provisional, pending to be established using EN 12407 and EN 12670. Unavailable data are represented by a hyphen.

A.2 List of stones

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NOTE Any variety of the stone should be in brackets.

A.2.1 Austria

AALFANG
granite
Amaliendorf/Aalfang Niederösterreich, Austria

ADNETER
limestone
-
Adnet/Salzburg, Austria

ADNETER ROTGRAU LIENBACHER
limestone
-
-, Austria

ADNETER ROTGRAU SCHECK
limestone
-
-, Austria

ADNETER ROTGRAU SCHNÖLL
limestone
-
-, Austria

ADNETER ROTGRAU TROPF
limestone
-
-, Austria

ADNETER ROTGRAU WIMBERGER
limestone
-
-, Austria

AFLENZ
calcareous arenite
-
Aflenz/Steiermark, Austria

ALBERSCHWENDE
limestone
-
Alberschwende/Vorarlberg, Austria

BÖHMERWALD HELL
granite
-
Aigen/Oberösterreich, Austria

BÖHMERWALD DUNKEL
granodiorite
-
Aigen/Oberösterreich, Austria

BÖHMERWALD GRANIT FEIN
granite
-
Winkl/Schlägl Oberösterreich, Austria

CARAT
meta diabase (metabasite)
-
St. Urban/Kärnten, Austria

GAISSULZ
calcareous tufa
-
Gaissulz/Niederösterreich, Austria

GAMS
paragneiss
-
Gams/Steiermark, Austria

GEBHARTS GROB
diorite
-
Schrems/Niederösterreich, Austria

GEBHARTS FEIN
diorite
-
Schrems/Niederösterreich, Austria

GOLLING
porous conglomerate
-
Golling/Salzburg, Austria

GUSEN
granite
-
Gusen/Oberösterreich, Austria

HARTBERGER
granite
-
Schrems/Niederösterreich, Austria

HERSCHENBERG
granite
-
Gmünd/Niederösterreich, Austria

HÖTTINGER
calcareous breccia
-
Hötting/Tirol, Austria

KAUNERTAL
gneiss
-
Prutz/Tirol, Austria

KRAMSACH
limestone (breccia)
-
Kramsach-Hagenau/Tirol, Austria

KRASTAL
marble
-
Einöde bei Villach/Kärnten, Austria

LASBERG
granite
-
Lasberg/Oberösterreich, Austria

LINDABRUNN
conglomerate
-
Lindabrunn/Niederösterreich, Austria

MALTATAL
granitic-gneiss
-
Maltatal/ Kärnten, Austria

MAUTHAUSEN
granite
-
Mauthausen/Oberösterreich, Austria

ÖLZTAL
granitic-gneiss
-
Ölztal/Tirol, Austria

PERG
granite
-
Perg/Oberösterreich, Austria

PLOCHWALD
granite
-
Windhaag/Oberösterreich, Austria

RAURIS dolomitic marble - Rauris/Salzburg, Austria	STAINZER HARTGNEISS gneiss - Stainz/Steiermark, Austria
RAURIS quartzite - Rauris/Salzburg, Austria	STEIERWALD granodiorite - Sandl/Oberösterreich, Austria
SCHÄRDING granite - Schärding/Oberösterreich, Austria	TAUERNGRÜN serpentinite - Hinterbichl/Tirol, Austria
SCHLOSSBERG marble - Gradenberg/Köflach Steiermark, Austria	TERNITZ conglomerate - Ternitz/Niederösterreich, Austria
SCHREMS FEINSTKORN granite - Schrems/Niederösterreich, Austria	UNTERSBERG limestone - Fürstenbrunn/Salzburg, Austria
SCHWARZENSEE limestone (breccia) - St. Wolfgang/Oberösterreich, Austria	UNTERSBERG HELL limestone - -, Austria
SÖLK marble - Sölk/Steiermark, Austria	UNTERSBERG RÖTLICH limestone - -, Austria
SPITZ silicate marble - Spitz/ Niederösterreich, Austria	WACHAU marble - Eis-Kottes/Niederösterreich, Austria
ST. MARGARETHEN calcareous arenite - St. Margarethen/Burgenland, Austria	WINDHAAG granite - Windhaag/ Oberösterreich, Austria

A.2.2 Belgium**BALEGEMSE STEEN**

sandy limestone
beige with brownish patina
Balegem, Belgium

BYZANTIN

limestone
red with darked shades
Basin of Philippeville, Belgium

GRÈS D'ARBRE

sandstone
variegated
Meuse region, Belgium

GRÈS D'YVOIR

sandstone
variegated
Meuse region, Belgium

GRÈS DE HALLEUX = GRÈS BLEU D'ANOR

sandstone
dark grey with blush shades
Ardenne, Belgium

GRÈS DE L'OURTHE

sandstone
variegated
Ourthe region, Belgium

GRÈS DE MEUSE

sandstone
variegated
Meuse region, Belgium

GRÈS DU CONDROZ

sandstone
variegated
Condroz region, Belgium

GRÈS DU BOCQ

sandstone
variegated
Meuse region, Belgium

GRÈS DU HOYOUX

sandstone
variegated
Meuse and Condroz regions, Belgium

GRÈS DURS

sandstone
variegated
Meuse, Ourthe and Condroz regions, Belgium

GRÈS SCHISTEUX

shaly sandstone
dark grey with blush or brownish shades
Ardenne, Belgium

GRÈS SCHISTEUX DE LA WARCHE

schist sandstone
dark grey with reddish surfaces
Ardenne, Belgium

GRIS

Limestone
grey
-
Basin of Philippeville, Belgium

GRIS ROSE

limestone
mottled grey
Basin of Philippeville, Belgium

'MARBRE' NOIR DE DINANT

limestone
black

Meuse region, Belgium

'MARBRE' NOIR DE GOLZINNE

limestone
black
Namur region, Belgium

NOIR DE TOURNAI

limestone
dark grey to black
Basin of Tournai, Belgium

PIERRE BLEUE DE BELGIQUE ® (said PETIT GRANIT)

crinoidal limestone
bluish grey with various shades
Basin of Soignies, Basin of Condroz, Basin of Bocq-Molignée, Belgium

'ARDUIN' BELGISCHE BLAUWE HARDSTEEN ®

Crinoidal limestone
Bluish grey with various shades
Basin of Soignies, Basin of Condroz, Basin of Bocq-Molignée, Belgium

BLAUSTEIN – BELGISCH 'GRANIT' ®

Crinoidal limestone
Bluish grey with various shades
Basin of Soignies, Basin of Condroz, Basin of Bocq-Molignée, Belgium

PIERRE DE BOUSSIRE

arkose
pastel colours
Malmedy region, Belgium

PIERRE DE FONTENOILLE

sandy limestone to calcareous sandstone
yellow to ochre
Gaume region, Belgium

PIERRE DE GOBERTANGE

sandy limestone
beige with greyish patina
Jodoigne region, Belgium

PIERRE DE GRANDCOURT

limestone
yellow
Gaume region, Belgium

PIERRE DE MOUZAIVE

schist sandstone
grey with brownish shades
Ardenne, Belgium

PIERRE DE LONGPRÉ (Calcaire de Meuse)

crinoidal limestone
light grey
Meuse region, Belgium

PIERRE DE TOURNAI

limestone
grey with yellow patina
Basin of Tournai, Belgium

PIERRE DE VINALMONT (calcaire de Meuse)

oolitic limestone
grey with light patina
Meuse region, Belgium

PIERRE DE WAIMES

arkose
pastel colours
Malmedy region, Belgium

PSAMMITES DU CONDROZ

sandstone
variegated
Condroz region, Belgium

QUARTZITE
quartzitic sandstone
light colours
Ardenne, Belgium

ROUGE GRIOTTE
limestone
dark red
Basin of Philippeville, Belgium

ROUGE ROYAL
limestone
bright red
Basin of Philippeville, Belgium

SCHISTE ARDOISIER
slaty schist
dark grey
Ardenne, Belgium

SCHISTE DE LA LIENNE
sandy schist
dark brown
Ardenne, Belgium

SCHISTE D'OTTRE
Compact quartzitic phyllite
Dark violet
Ardenne, Belgium

SCHISTES
sandy schist to shaly sandstone
variegated dark colours
Ardenne, Belgium

A.2.3 Croatia (Republic of)**ADRIA GRIGIO MACHIATTO**

dolomitic limestone
grey speckled
Sivac (Pučišća, Isle of Brač), Republic of Croatia

ADRIA GRIGIO UNITO

dolomitic limestone
grey
Milovica (Splitska, Isle of Brač), Republic of Croatia

ADRIA GRIGIO VENATO

dolomitic limestone
grey with dark grey veins
Sivac (Pučišća, Isle of Brač), Republic of Croatia

ALKASIN

limestone
yellowish reddish
Radošići (Sinj, Dalmacija), Republic of Croatia

DOLIT

limestone
yellowish grey
Dolit (Donji Dolac, Dalmacija), Republic of Croatia

DRAČEVICA

dolomitic limestone
yellowish
Dračevica (Nerežišća, Isle of Brač), Republic of Croatia

FANTAZIJA

limestone breccia
grey
Fantazija (Donji Dolac, Dalmacija), Republic of Croatia

GROŽNJAN

limestone
yellowish
Grožnjan (Buje, Istra), Republic of Croatia

ISTRANKA

limestone
brown brownish
Istranka (Lupoglav, Istra), Republic of Croatia

JADRAN ZELENI

limestone
greenish grey
Putišići (Donji Dolac, Dalmacija), Republic of Croatia

KANFANAR

limestone
yellow
Kanfanar (Kanfanar, Istra), Republic of Croatia

KIRMENJAK

limestone
ivory to grey
Kirmenjāk (Vrsar, Istra), Republic of Croatia

LUCIJA

limestone
grey, dark grey
Lucija (Buje, Istra), Republic of Croatia

MARIČI

limestone conglomerate
pinkish greyish
Mariči (Obrovac, Dalmacija), Republic of Croatia

MULTIKOLOR

limestone conglomerate
mottled grey
Radošići (Sinj, Dalmacija), Republic of Croatia

NEGRIS FIORITO

limestone
black decolorated white shells
Triji (Sinj, Dalmacija), Republic of Croatia

OKLAD

dolomite breccia
grey
Oklad (Selce, Isle of Brač), Republic of Croatia

PLANIK

limestone
yellowish grey
Planik (Lupoglav, Istra), Republic of Croatia

PLANO

limestone
yellowish
Plano (Trogir, Dalmacija), Republic of Croatia

RASOTICA B

limestone
brown
Žaganj Dolac (Sumartin, Isle of Brač), Republic of Croatia

RASOTICA C

limestone
brown
Žaganj Dolac (Sumartin, Isle of Brač), Republic of Croatia

ROMANOVAC

limestone breccia
red, greyish
Romanovac (Obrovac, Dalmacija), Republic of Croatia

ROZALIT

limestone conglomerate
rosy
Pakovo selo (Drniš, Dalmacija), Republic of Croatia

SAN ANTONIO

limestone
yellowish
Humac (Lumbarda, Isle of Korčula), Republic of Croatia

SAN GIORGIO E

dolomitic limestone
greyish
Glave (Selca, Isle of Brač), Republic of Croatia

SAN GIORGIO W

dolomitic limestone
greyish
Glave (Selca, Isle of Brač), Republic of Croatia

SEGET

limestone
white
Seget (Trogir, Dalmacija), Republic of Croatia

SELINA

limestone
yellow
Selina (Lovreč, Istra), Republic of Croatia

VALTURA FIORITO

limestone
yellowish
Valtura (Pula, Istra), Republic of Croatia

VALTURA UNITO

limestone
yellowish
Valtura (Pula, Istra), Republic of Croatia

VESELJE FIORITO

limestone
whitish
Punta (Pučišća, Isle of Brač), Republic of Croatia

VESELJE UNITO

limestone
whitish
Punta (Pučišća, Isle of Brač), Republic of Croatia

VESELJE UNITO A
limestone
whitish
Kupinova (Pučišća, Isle of Brač), Republic of Croatia

VINICIT
limestone
grey
Vinica (Varaždin, Hrvatsko, Zagorje), Republic of Croatia

VINKURAN FIORITO
limestone
white
Vinkuran (Pula, Istra), Republic of Croatia

VINKURAN STATUARIO
limestone
white
Vinkuran (Pula, Istra), Republic of Croatia

VISOČANI
limestone
whitish yellowish
Visočani (Dubrovnik, Dalmacija), Republic of Croatia

VRNIK
limestone
whitish yellowish
Vrnik (Isle of Vrnik, near Dubrovnik), Republic of Croatia

VRSINE
limestone
yellowish
Vrsine (Trogir, Dalmacija), Republic of Croatia

ZEČEVO
dolomitic limestone
greyish
Zečevo (Selca, Isle of Brač), Republic of Croatia

A.2.4 Czech Republic**BLATENSKÁ ŽULA**

granite
light grey
Řečice quarry, Blatná, Strakonice, Czech Republic

BOHÁŇSKÝ PÍSKOVEC

sandstone
yellow
Boháňka-Skála quarry, Jičín, Czech Republic

BOHDANEČSKÝ MRAMOR

marble
white
Bohdaneč near Zbraslavice, Kutná Hora, Czech Republic

BORŠOVSKÁ ŽULA

granite
white grey
Boršov, Jihlava, Czech Republic

BOŽANOVSKÝ PÍSKOVEC, BROUMOVSKÝ PÍSKOVEC

sandstone
light whitegrey to brownish yellow
Božanov, Broumov, Náchod, Czech Republic

BUDĚJOVICKÝ SYENIT

diorite
dark to black
Štěpánovice, České Budějovice, Czech Republic

ČERVENSKÁ ŽULA

granite
grey
Vičkovice, Klatovy, Czech Republic

DOLNOBŘEZINECKÁ ŽULA, SVĚTELSKÁ ŽULA

granite
light yellow, bluegrey
Horka quarry, Dolní Březinka, Havlíčkův Brod, Czech Republic

DŽBÁNSKÁ OPUKA

marly chert
light yellow
Mutějovice-Džbán quarry, Rakovník, Czech Republic

HAVLOVICKÝ PÍSKOVEC

sandstone
white
U devíti křížů (Krákorka) quarry, Havlovice, Trutnov, Czech Republic

HLINECKÁ ŽULA

granite
bluegrey
Matula quarry, Hlinsko, Havlíčkův Brod, Czech Republic

HOŘICKÝ PÍSKOVEC

sandstone
light greywhite to yellow
Podhorní Újezd, Hořice, Jičín, Czech Republic

HUDČICKÁ ŽULA

granite
grey to dark grey
Hudčice, Příbram, Czech Republic

KOCBEŘSKÝ PÍSKOVEC, DVORSKÝ PÍSKOVEC

sandstone
white
Kocbeře, Trutnov, Czech Republic

KOPANINSKÁ OPUKA - ZLATÁ, ČERVENÁ OPUKA

marly chert
gold yellow
Přední Kopanina quarry, Přední Kopanina, Prague, Czech Republic

KOPANINSKÁ OPUKA - MYDLÁK

marly chert
yellow
Přední Kopanina quarry, Přední Kopanina, Prague, Czech Republic

KOZÁROVICKÁ ŽULA, ORLICKÁ ŽULA

granite
grey to bluegrey
Kozárovice II - V liští quarry, Příbram, Czech Republic

KOZÁROVICKÁ ŽULA, ORLICKÁ ŽULA

granite
grey to bluegrey
Kozárovice I - Soukup quarry, Příbram, Czech Republic

KŘIŠŤANOVSKÝ DIORIT, PRACHATICKÝ DIORIT,

ŠUMAVSKÝ DIORIT
diorite
dark to black
Křišťanov, Prachatice, Czech Republic

LIBERECKÁ ŽULA

granite
pink grey
Hraničná, Liberec, Czech Republic

LIBERECKÁ ŽULA

granite
pink grey
Ruprechtice, Liberec, Czech Republic

LIPNICKÁ ŽULA

granite
blueish light grey
Lipnice-Trojka quarry, Dolní Město, Havlíčkův Brod, Czech Republic

LIPNICKÁ ŽULA

granite
blueish light grey
Kopaniny quarry, Dolní Město - Březek, Havlíčkův Brod, Czech Republic

LIPOVSKÝ MRAMOR BÍLÝ

marble
pure white
Lipová-lázně, Jeseník, Czech Republic

LIPOVSKÝ MRAMOR PRUHOVANÝ, ŠEDÝ

marble
light and dark grey to black
Lipová-lázně, Jeseník, Czech Republic

LIPOVSKÝ MRAMOR TMAVÝ, ČERNÝ

marble
dark grey to black with white strips
Lipová-lázně, Jeseník, Czech Republic

MALETÍNSKÝ PÍSKOVEC

sandstone
white, grey, yellow
Kubitschkův quarry, Maletín, Šumperk, Czech Republic

MRÁKOTÍNSKÁ ŽULA

granite
white to yellowish grey
Mrákotín, Jihlava, Czech Republic

MYSLETICKÁ ŽULA

granite
bluegrey, yellowgrey
Mysletice, Jihlava, Czech Republic

NĚČÍNSKÁ

diorite
light grey
Něčín, Příbram, Czech Republic