

# SVENSK STANDARD

## SS-EN 12440:2017

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### **Natursten – Benämning**

### **Natural stone – Denomination criteria**

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Denna standard ersätter SS-EN 12440:2008, utgåva 2.

The European Standard EN 12440:2017 has the status of a Swedish Standard. This document contains the official version of EN 12440:2017.

This standard supersedes the Swedish Standard SS-EN 12440:2008, edition 2.

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EUROPEAN STANDARD

**EN 12440**

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2017

ICS 01.040.91; 91.100.15

Supersedes EN 12440:2008

English Version

## Natural stone - Denomination criteria

Pierres naturelles - Critères de dénomination

Naturstein - Kriterien für die Bezeichnung

This European Standard was approved by CEN on 20 July 2017.

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-CENELEC Management Centre or to any CEN member.

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EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

**SS-EN 12440:2017 (E)**

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## **European foreword**

This document (EN 12440:2017) 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of an identical text or by endorsement, at the latest by May 2018, and conflicting national standards shall be withdrawn at the latest by May 2018.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 12440:2008.

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 organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

## **SS-EN 12440:2017 (E)**

### **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 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.

Informative Annex A 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 establishes the criteria for the designation of natural stone from raw material to finished products.

## 2 Normative references

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

EN 1469, *Natural stone products - Slabs for cladding - Requirements*

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

EN 12670:2001, *Natural stone - Terminology*

## 3 Denomination of natural stone

The denomination of natural stones shall include the following parts:

### 3.1 Name of the natural stone (traditional or commercial name):

The name of the natural stone under which it is marketed corresponding 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.

### 3.2 Petrological family/group:

Scientific name of the rock obtained by petrographic examination according to EN 12407 and EN 12670. Examples of petrological families/groups are included in of EN 12670:2001, Annex A.

### 3.3 Typical colour:

The range of colour that a stone variety shows. A visual impression on one or more dry bulk samples observed under shadow natural light. It is noted that moisture, dust, surface finish and other features affect the visual colour impression of the stone, thus whatever the observation conditions might be, these shall be reported. See EN 1469 *Natural stone products - Slabs for cladding - Requirements*.

### 3.4 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). Geo-coordinates could be used with a reference to the coordinate system used.

## 4 Other information

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

### 4.1 Process conditions:

For prepared products, the surface conditions should be described using an adequate term from EN 12670.

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### **4.2 Natural features:**

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

### **4.3 Petrographic name:**

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

### **4.4 Geological age:**

The age of the stone according to EN 12670 should be given as accurate as possible. If available, further geological data such as geological formation, etc., should 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 an attempt to list the stones produced in Europe and its petrological classification. It will be revised in further editions of this standard.

The structure of the information on each stone variety is:

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

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

#### A.2 List of stones

##### A.2.1 Index

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### A.2.2 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

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

### A.2.3 Belgium

BALEGEMSE STEEN sandy limestone beige with brownish patina Balegem, Belgium	variegated Ourthe region, Belgium
BYZANTIN limestone marble red with darked shades Basin of Philippeville, Belgium	GRÉS DE MEUSE sandstone variegated Meuse region, Belgium
GRÈS D'ARBRE sandstone variegated Meuse region, Belgium	GRÈS DU CONDROZ sandstone variegated Condroz region, Belgium
GRÉS DE HALLEUX = GRÉS BLEU D'ANOR sandstone dark grey with blush shades Ardenne, Belgium	GRÈS DU BOCQ sandstone variegated Meuse region, Belgium
GRÈS DE L'OURTHE sandstone	GRÈS DU HOYOUX sandstone variegated Meuse and Condroz regions, Belgium
	GRÈS DURS sandstone variegated Meuse region, 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 marble  
-  
Basin of Philippeville, Belgium  
GRIS ROSE  
limestone marble  
mottled grey  
Philippeville Basin, Belgium  
MARBRE NOIR DE DINANT  
limestone marble  
black  
Meuse region, Belgium  
MARBRE NOIR DE GOLZINNE  
limestone marble  
black  
Namur region, Belgium  
NOIR DE TOURNAI  
limestone marble  
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 BOUSSIÈRE  
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

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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 marble  
dark red  
Basin of Philippeville, Belgium

### A.2.4 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  
BENKOVAČKI PLOČASTI  
limestone  
yellowish  
Benkovac -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 ZELENİ  
limestone  
greenish grey  
Putišići (Donji Dolac, Dalmacija), Republic of Croatia  
KANFANAR  
limestone

ROUGE ROYAL  
limestone marble  
bright red  
Basin of Philippeville, Belgium  
SCHISTE ARDOISIER  
slaty schist  
dark grey  
Ardenne, Belgium  
SCHISTE DE LA LIENNE  
sandy schist  
dark brown  
Ardenne, Belgium  
SCHIST D'OTTRE = OTTRELITE IMPERIAL  
Compact quartzophylade  
Dark violet  
Ardenne, Belgium  
SCHISTES  
sandy schist to shaly sandstone  
variegated dark colours  
Ardenne, Belgium

yellow  
Kanfanar (Kanfanar, Istra), Republic of Croatia  
KIRMENJAK  
limestone  
ivory to grey  
Kirmenjak (Vrsar, Istra), Republic of Croatia  
KORENIĆI  
limestone  
yellowish  
Korenići-Kanfanar (Istra), Republic of Croatia



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

MARČANA  
limestone  
white  
Marčana-Pula (Istra) Republic of Croatia

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

MIRONJA  
limestone  
yellowish to ivory to grey  
Slano (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  
Okład (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

## SS-EN 12440:2017 (E)

SAN GIORGIO E dolomitic limestone greyish Glave (Selca, Isle of Brač), Republic of Croatia	limestone whitish Kupinova (Pučišća, Isle of Brač), Republic of Croatia
SAN GIORGIO W dolomitic limestone greyish Glave (Selca, Isle of Brač), Republic of Croatia	VINICIT limestone grey Vinica (Varaždin, Hrvatsko, Zagorje), Republic of Croatia
SEGET limestone white Seget (Trogir, Dalmacija), Republic of Croatia	VINKURAN FIORITO limestone white Vinkuran (Pula, Istra), Republic of Croatia
SELINA limestone yellow Selina (Lovreč, Istra), Republic of Croatia	VINKURAN STATUARIO limestone white Vinkuran (Pula, Istra), Republic of Croatia
VALTURA FIORITO limestone yellowish Valtura (Pula, Istra), Republic of Croatia	VISOČANI limestone whitish yellowish Visočani (Dubrovnik, Dalmacija), Republic of Croatia
VALTURA UNITO limestone yellowish Valtura (Pula, Istra), Republic of Croatia	VRNIK limestone whitish yellowish Vrnik (Isle of Vrnik, near Dubrovnik), Republic of Croatia
VESELJE FIORITO limestone whitish Punta (Pučišća, Isle of Brač), Republic of Croatia	VRŠINE limestone yellowish Vrsine (Trogir, Dalmacija), Republic of Croatia
VESELJE UNITO limestone whitish Punta (Pučišća, Isle of Brač), Republic of Croatia	ZEČEVO dolomitic limestone greyish Zečevo (Selca, Isle of Brač), Republic of Croatia
VESELJE UNITO A	

### A.2.5 Czech Republic

BĚLOHRADSKÝ PÍSKOVEC sandstone light yellow with reddishbrown to violet marbling Javorka Quarry, Horní Nová Ves, Jičín, Czech Republic	light whitegrey to brownish yellow Božanov Quarry, Náchod, Czech Republic
BĚLSKÝ PÍSKOVEC sandstone light yellow Bělov Quarry, Zlín, Czech Republic	BZOVSKÝ PÍSKOVEC sandstone ochre to bluishgrey Bzová Quarry, Uherské Hradiště, Czech Republic
BLATENSKÁ ŽULA granite light grey Chlum-Škalí Quarry, Blatná, Strakonice, Czech Republic	ČÁSTKOVSKÝ DIORIT diorite greish green Částkov Quarry, Žumberk, Chrudim, Czech Republic
BLATENSKÁ ŽULA granite light grey Drahenický Málkov Quarry, Blatná, Strakonice, Czech Republic	ČEDIČ DUBIČNÁ basalt dark grey to black Dubičná Quarry, Litoměřice, Czech Republic
BLATENSKÁ ŽULA granite light grey Řečice Quarry, Blatná, Strakonice, Czech Republic	ČEDIČ SOUTĚSKY basalt dark grey Soutěsky Quarry, Děčín, Czech Republic
BOHDANEČSKÝ MRAMOR dolomite white Bohdaneč Quarry, Kutná Hora, Czech Republic	ČERVENSKÁ ŽULA, VLČKOVICKÁ ŽULA granite grey Vlčkovice Quarry, Klatovy, Czech Republic
BORŠOVSKÁ ŽULA granite white grey Boršov Quarry, Jihlava, Czech Republic	ČESKOKAMENICKÝ PÍSKOVEC sandstone ochre to rusty brownish Horní Kamenice Quarry, Děčín, Czech Republic
BOŽANOVSKÝ PÍSKOVEC, BROUMOVSKÝ PÍSKOVEC sandstone	DOLNOBŘEZINECKÁ ŽULA, SVĚTELSKÁ ŽULA granite light yellow, bluegrey Horka Quarry, Havlíčkův Brod, Czech Republic

DUBENECKÝ PÍSKOVEC  
sandstone  
creamy white with rusty colouration  
Dubenec Quarry, Lanžov, Trutnov, Czech Republic

DŽBÁNSKÁ OPUKA  
marly chert, sandy marl  
whitish  
Třeboc Quarry, Mutějovice, Rakovník, Czech Republic

HAVLOVICKÝ PÍSKOVEC  
sandstone  
creamy  
U devíti křížů (Krákorka) Quarry, Náchod, Czech Republic

HLINECKÁ ŽULA, SKUTEČSKÁ ŽULA  
granite  
bluegrey  
Matula Quarry, Hlinsko, Havlíčkův Brod, Czech Republic

HOŘICKÝ PÍSKOVEC  
sandstone  
light greywhite to yellow  
Podhorní Újezd Quarry, Jičín, Czech Republic

HORNODVORECKÁ ŽULA  
granite  
yellow to light grey  
Horní Dvorce Quarry, Zahradky, Jindřichův Hradec, Czech Republic

HUDČICKÁ ŽULA  
granite  
grey to dark grey  
Hudčice Quarry, Příbram, Czech Republic

HUDČICKÁ ŽULA  
granite  
grey to dark grey  
Vševely Quarry, Příbram, Czech Republic

KAMENSKÁ ŽULA  
granite  
grey, rusty pigmented  
Kamenná Quarry, Třebíč, Czech Republic

KOCBEŘSKÝ PÍSKOVEC, KRÁLOVEDVORSKÝ PÍSKOVEC  
sandstone  
white and yellow  
Kocbeře Quarry, Trutnov, Czech Republic

KOPANINSKÁ OPUKA  
marly chert  
yellow, gold yellow  
Přední Kopanina Quarry, Praha, Czech Republic

KOPANINSKÁ OPUKA - MYDLÁK  
marly chert  
yellow  
Přední Kopanina Quarry, Praha, Czech Republic

KOZÁROVICKÁ ŽULA  
granite  
grey to bluegrey  
Kozárovice I - Soukup Quarry, Příbram, Czech Republic

KOZÁROVICKÁ ŽULA  
granite  
grey to bluegrey  
Kozárovice II - V liští Quarry, Příbram, Czech Republic

KOZÁROVICKÁ ŽULA

granite  
grey to bluegrey  
Kozárovice Fenris Quarry, Příbram, Czech Republic

KOZÁROVICKÁ ŽULA  
granite  
grey to bluegrey  
Vachatovka Quarry, Příbram, Czech Republic

LIBERECKÁ ŽULA  
granite  
pink grey  
Hraničná Quarry, Liberec, Czech Republic

LIBERECKÁ ŽULA  
granite  
pink grey  
Ruprechtice Quarry, Liberec, Czech Republic

LIBNAVSKÝ PÍSKOVEC  
sandstone  
yellow to ochre  
Libná Quarry, Náchod, Czech Republic

LIPNICKÁ ŽULA  
granite  
bluish light grey  
Kopaniny Quarry, Dolní Město-Březek, Havlíčkův Brod, Czech Republic

LIPOVSKÝ MRAMOR  
limestone  
pure white  
Lipová-lázně Quarry, Jeseník, Czech Republic

LIPOVSKÝ MRAMOR  
limestone  
light and dark grey to black  
Horní Lipová Quarry, Jeseník, Czech Republic

MALETÍNSKÝ PÍSKOVEC  
sandstone  
white, grey, yellow  
Kubitschkův Quarry, Šumperk, Czech Republic

MORAVSKOSLEZSKÁ DROBA  
greywacke  
light grey, greenish  
Domašov Quarry, Olomouc, Czech Republic

MORAVSKOSLEZSKÁ BŘIDLICE  
shale  
dark grey to black  
Domašov Quarry, Olomouc, Czech Republic

MORAVSKOSLEZSKÁ BŘIDLICE  
shale  
dark grey to black  
Jívová-Dolany Quarry, Olomouc, Czech Republic

MORAVSKOSLEZSKÁ BŘIDLICE  
shale  
grey to greyblack  
Radim Mine, Svatoňovice, Opava, Czech Republic

MORAVSKOSLEZSKÁ BŘIDLICE  
shale  
light grey to dark grey  
Žlutý květ Mine, Čermná, Opava, Czech Republic

MORAVSKOSLEZSKÁ BŘIDLICE  
shale  
grey to greyblack