



The Nutons Quarry

PETIT GRANIT - BELGIAN BLUE LIMESTONE ■

PETIT GRANIT DU BOCQ ■



LOCAL QUARRIES FOR A QUALITY SERVICE

The TROU DES CHATS QUARRY in Dorine is situated south-west of the centre of Spontin, two kilometres from the E411 motorway. Petit granit – Belgian blue limestone is quarried there and is used for construction purposes and as ornamental stone.

The CHANSIN QUARRY is situated in the Bocq valley, near the hamlet of Chansin. Blue limestone is quarried there and has taken the name of “Petit Granit du Bocq” because of its location. It is characterised by its concentrations of crinoids and fossils, its bluish appearance and the deep black colour that it acquires when polished. These features mean that it is unique in Belgium and stands out from other varieties of blue limestone.



Petit granit - Belgian blue limestone | Grey grinded (scale 1:1)



Bocq Blue limestone | Honed (scale 1:1)

WORKING SITE

Carrière de Chansin - 5530 DURNAL

TECHNICAL CHARACTERISTICS*

MINERALOGICAL COMPOSITION

Calcite 96-99%, traces of quartz and of pyrite

ATTRIBUTES

Apparent density
2703 kg/m³

Open porosity
0.19% vol

PERFORMANCE

Compressive strength
159 N/mm²

Flexural strength
16 N/mm²

MAXIMUM DIMENSIONS OF UNTREATED ELEMENTS

Length	Width	Thickness
3 m	2.5 m	1.5 m

MINIMUM THICKNESS FOR APPLICATION

2 cm

Bocq Blue limestone

ALSO KNOWN AS	TYPE	STRATIGRAPHICAL AGE
<i>Petit granit du Bocq</i>	Compact crinoidal limestone	Mid-Tournaisian (Lower Carboniferous, Palaeozoic)

APPEARANCE, COLOUR AND PATINA

Compact and non porous, this rock displays many remains of crinoids, which vary in size and are unevenly distributed. It also contains large coral fossils standing out white against the dark background of the rock. Dark in colour, from grey-blue to blackish-grey, it appears more blue in tone when a sanded finish is applied, whilst polishing accentuates the black background, against which the white fossils are clearly visible.

FINISHED PRODUCTS AND STANDARD DIMENSIONS

As is the case with blue stones in general, this material is used in several different ways, for interior and exterior applications alike. These include : plinths, façades, rubble stones, floor tiles and setts, edging and doorsteps, surrounds for bay windows, window sills, steps, wall coverings, tiles for interior decor, skirting boards and worktops.

Dressed stones

length 30-150 cm, width 10-60 cm, thickness 2-30 cm

Floor tiles

Length 30-60 cm, width 15-60 cm, thickness 2-5 cm

It is not advisable to order a piece with a surface area over 0.5 m² and length exceeding 1.5 m. For anything over these dimensions, it is necessary to take specific measures when the material is being applied.

Non-standard dimensions and advice on application and maintenance can be obtained directly from the producer.

DESCRIPTIVE SPECIFICATIONS

«Crinoidal limestone, grey blue in colour, stratigraphical age Mid-Tournaisian (Lower Carboniferous, Palaeozoic), belonging to category [to specify] in accordance with classifications taking account of specific features regarding structure and appearance as established in technical information note n°220 of the C.S.T.C.».

TECHNICAL CHARACTERISTICS*

MINERALOGICAL COMPOSITION

Calcite ± 96 %, traces of dolomite, quartz and pyrite

ATTRIBUTES

Apparent density
2686 kg/m³

Open porosity
0.31 % vol

PERFORMANCE

Compressive strength
146 N/mm²

Compressive strength after freeze
143 N/mm²

Flexural strength
22 N/mm²

Flexural strength after freeze
18 N/mm²

Abrasion resistance (Capon method)
19.3 mm

MAXIMUM DIMENSIONS OF BLOCKS

Length
3.8 m

Width
2 m

Thickness
2.5 m

MINIMUM THICKNESS FOR APPLICATION

Facing
2 cm

Paving
2 cm

Petit granit | Belgian blue limestone

ALSO KNOWN AS	TYPE	STRATIGRAPHICAL AGE
Blue stone, <i>Petit granit - Pierre bleue de Belgique</i> ®	Crinoidal limestone	Upper Tournaisian (Lower Carboniferous, Palaeozoic)

APPEARANCE, COLOUR AND PATINA

This stone is characterized by the presence of many fossil remains, cemented together by a microcrystalline gangue containing very finely divided carbon. When the stone is freshly broken, the fossils produce a sparkling effect through the action of the light on the facets. The crinoids, corals and shells stand out pale against a dark background, which varies from light grey to black, through a range of bluish shades, according to the finish. The stone becomes lighter with exposure to harsh weather conditions, through the surface washing of the interwoven carbon.

FINISHED PRODUCTS AND STANDARD DIMENSIONS

This stone is widely admired for the numerous cuts and finishes it can take, as well as for huge range of sizes it can be given. It may be applied in several different ways, both inside and out: plinths, façades, as rubble stones, wall coverings, exterior tiles and setts, borders, doorsteps, stairs, surrounds for bay windows, window sills, interior paving, covering for interior walls, skirting boards, worktops, covering for bridges, rockfill, street furniture, as well as all the applications for marble-work, dressing and sculpture.

Dressed stones

length 30-150 cm, width 10-60 cm, thickness 2-30 cm

Floor tiles

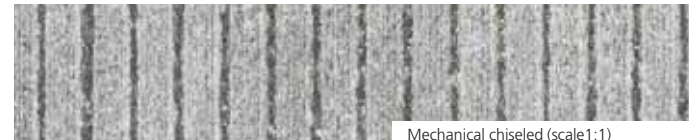
length 30-60 cm, width 15-60 cm, thickness 1-5 cm
free length, width 15/20/25/30/40 cm

Doorsteps

thickness 5/8/10 cm

The surface areas of each element should ideally measure less than 0.5m². Their length should not exceed 1.5 m. For anything larger, it will be necessary to use specially adapted methods when applying the material and the distinctive visual characteristics inherent in all natural matter will have to be borne in mind.

Non-standard dimensions and advice on application and maintenance, can be obtained directly from the producer.



Mechanical chiseled (scale1:1)



Old cut (scale1:1)

SURFACE TREATMENTS AVAILABLE

STANDARD CUTS	MINIMUM THICKNESS		STANDARD THICKNESS AND SPECIFIC FEATURES	
	MEC.	MAN.		
Split	5 cm	—	5/8/10/15 cm	
Sbattu	thick	5 cm	8 cm	mechanical 5 cm
	thin	4 cm	6 cm	mechanical 4 cm
Striated	—	5 cm	—	
Bush-hammered	thick	5 cm	5 cm	manual 6 cm - 16/25 sawteeth mechanical 5 cm
	thin	3 cm	4 cm	manual 5 cm - 49 sawteeth mechanical 3 cm
Chiseled	3 cm	5 cm	5 cm - mechanical 15 strikes/dm manual 15/20/25 strikes/dm	
Old cut	3 cm	5 cm	5 cm	
Ice flowers	3 cm	—	5 cm	

STANDARD FINISHES	MINIMUM THICKNESS		STANDARD THICKNESS AND SPECIFIC FEATURES
	MEC.	MAN.	
Sawn	2 cm	—	—
Grinded	2 cm	2 cm	5 cm
Aged	2 cm	—	according to the type of abrasive element
Honed blue / dark	2 cm	—	2 cm
Polished	2 cm	—	2 cm

DESCRIPTIVE SPECIFICATIONS

«Petit granit - Belgian blue limestone, crinoid limestone, grey-blue in tone, stratigraphic period Upper Tournaisian (Lower Carboniferous, Palaeozoic), belonging to the category [to specify] in accordance with the classification taking account of particular features regarding structure and appearance, as established in technical information note n° 220 of the C.S.T.C. (2002).

This stone comes from quarries holding the Technical Approval certified by the U.B.A.tc, which covers the entire deposit. The finish and appearance will match the samples presented to the individual carrying out the project in question; these three contractual samples will show the standard appearance and the two extremes of variation allowed within the market.

Equivalence: Any proposed product or finish differing from the description given above must undergo the equivalence procedure described in manual 100.2 published by the department of construction quality at the Ministry of Communications and Infrastructure, now the Federal Public Service for the Economy.»

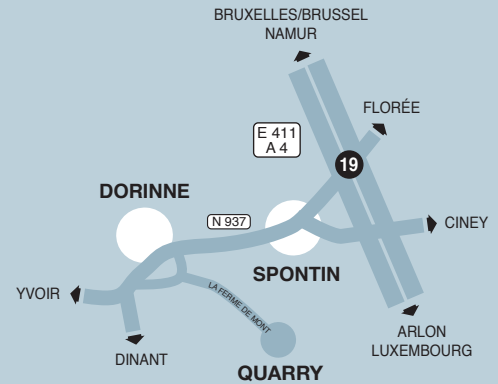
[*] Data are the most recent available, measured according to applicable European standards.

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Brussels, square M. Yourcenar, arch. A.V.A., 1999

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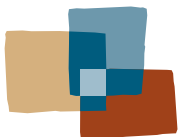
Jambes, building, 1999



Dinant, business, arch. Dimitri Bouchat, 2001



St. Josse-en-Noode, adventure playground, arch. Baséfman, 2001



PIERRES & MARBRES WALLONIE



Member of the federation of belgian blue
limestone - Petit-Granit producers



Wallonie

