



# The New Wal Pierre Quarries

QUARTZITE ■  
CONDROZ SANDSTONE ■



Hammering rubble stone

## LOCAL QUARRIES FOR A QUALITY SERVICE

The QUARRY AT STANEUX dates from at least Romanesque times. This is confirmed by the much-admired church tower at Theux, as well as the hamlet of Spixhe-Staneux, built entirely of quartzite. This pale-coloured, hard-wearing stone is to be found in all the traditional masonry of this region, as is also the case with other local Ardennes stone.

The sandstone quarry here forms part of the extensive ESNEUX QUARRIES, which have for centuries been producing stone with exceptional mechanical qualities.



Rubble stone (scale 1:1)

## WORKING SITE

"Devant Staneux" - 4910 THEUX

## TECHNICAL CHARACTERISTICS\*

### MINERALOGICAL COMPOSITION

Quartz 95-97%, traces of ferruginous minerals

### ATTRIBUTES

Apparent density  
**2525 kg/m<sup>3</sup>**

Open porosity  
**4.34 % vol**

### PERFORMANCE

Compressive strength  
**202 N/mm<sup>2</sup>**

Compressive strength after freeze  
**208 N/mm<sup>2</sup>**

Flexural strength  
**22 N/mm<sup>2</sup>**

Flexural strength after freeze  
**24 N/mm<sup>2</sup>**

Abrasion resistance (Capon method)  
**12.8 mm**

## MAXIMUM DIMENSIONS OF UNTREATED ELEMENTS

Length	Width	Thickness
1 m	0.6 m	0.9 m

## MINIMUM THICKNESS FOR APPLICATION

**6 cm**

# Quartzite

ALSO KNOWN AS	TYPE	STRATIGRAPHICAL AGE
Spixhe Stone, Staneux Stone	Siliceous sandstone with a quartzitic structure	Emsian (Lower Devonian, Palaeozoic)

## APPEARANCE, COLOUR AND PATINA

Characterized by a siliceous cement which bonds the grains of quartz composing the rock, quartzite is extremely cohesive and hard. Practically impossible to wear down, it is particularly resistant to high temperatures.

Light in colour, it comes in a range of white shades tinged with rust and rose-coloured hues. These do not alter over time.

## FINISHED PRODUCTS AND STANDARD DIMENSIONS

Quartzite is used in exteriors, principally in the form of various types of rubble stones, quoins, surrounds for bay window, dressed faces and setts. It is also used in interior decoration.

### Rubble stones

height 5-20 cm, length 10-40 cm, depth 10-18 cm

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

## SURFACE TREATMENTS AVAILABLE

Rough finish, cleaved, semi-trimmed or trimmed.

## DESCRIPTIVE SPECIFICATIONS

«Quartzite (siliceous sandstone) with fine to medium graining, stratigraphical age Emsian (Lower Devonian, Palaeozoic)».



Biriche, quartzite



Rubble stone (scale 1:1)

## WORKING SITE

Carrière du Bois d'Esneux - 4130 ESNEUX

## TECHNICAL CHARACTERISTICS\*

### MINERALOGICAL COMPOSITION

Quartz 62-78%, lesser amounts of mica and feldspar

### ATTRIBUTES

Apparent density  
**2621 kg/m<sup>3</sup>**

Open porosity  
**1.64 % vol**

### PERFORMANCE

Compressive strength  
**236 N/mm<sup>2</sup>**

Compressive strength after freeze  
**224 N/mm<sup>2</sup>**

Flexural strength  
**40 N/mm<sup>2</sup>**

Flexural strength after freeze  
**41 N/mm<sup>2</sup>**

Abrasion resistance (Capon method)  
**15.5 mm**

## MAXIMUM DIMENSIONS OF BLOCKS

Length  
**4 m**

Width  
**1-1.5 m**

Thickness  
**0.7-2 m**

## MINIMUM THICKNESS FOR APPLICATION

**2 cm**

# Condroz sandstone

### ALSO KNOWN AS

Hard sandstone, Condroz psammite, Meuse sandstone, Famennian sandstone

### TYPE

Clayey sandstone, slightly micaceous and finely grained

### STRATIGRAPHICAL AGE

Upper Famennian (Upper Devonian, Palaeozoic)

## APPEARANCE, COLOUR AND PATINA

The thick layers of sandstone display an extremely varied range of colours, with brighter shades (yellow, green, red, rust-brown) or more muted tones (ranging from grey-green to grey-blue, wine-coloured, ochre and beige). The stone takes on a rust-brown patina when it is rich in iron, whilst if rich in feldspar grey-blue or greenish tones are produced.



Rahier, arch. P. Dumez, sandstone



Rahier, arch. P. Dumez, sandstone

## FINISHED PRODUCTS AND STANDARD DIMENSIONS

Thanks to its outstanding mechanical qualities, sandstone lends itself admirably to applications using every type of rubble stones, steps, wall coverings, quoins, surrounds for bay windows, dressed faces, for exterior use as well as for interior and decorative purposes. Its natural anti-skid qualities make it ideal for floor-covering: setts, thin paving tiles, edgings.

### Rubble stones

height 3-7 / 5-10 / 10-20 cm, minimum length 1.5 x the height  
depth 10-18 cm

### Floor tiles

in free form 30-40 cm, thickness 2-4 / 4-7 cm  
rectangular format, free measurement 15-30 x 25-30 cm

### Mosaic paving

5-7 / 7-9 / 8-10 / 9-11 / 10-12 cm

### Setts

width 12-14 / 14-16 / 15-17 cm, thickness 5-8 / 8-10 / 10-12 / 5-15 cm

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

## SURFACE TREATMENTS AVAILABLE

Cleaved and retouched to a greater or lesser degree, to even out the contours of the pieces for all forms of rough, retouched and squared finish.

## DESCRIPTIVE SPECIFICATIONS

«Clayey sandstone, slightly micaceous, very finely grained, stratigraphical age Upper Famennian (Upper Devonian, Palaeozoic)».

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

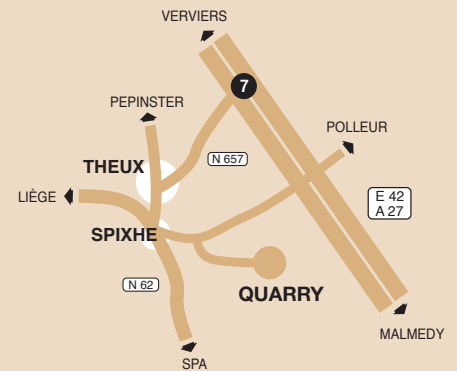
# NEW WAL'PIERRE



## CARRIÈRE NEW WAL PIERRE

### HEAD OFFICE

Rue Pré des Lys, 37 · B-4910 THEUX  
Tel. +32 (0)87 55 80 65 · Fax +32 (0)87 55 61 66  
VAT BE 0751 146 224 · RPM Huy  
new.walpierre@skynet.be · www.new-walpierre.net  
Manager: Dominique Pittera [+32 (0)495 248 875]



## BEL PIERRE S.P.R.L.

Rue de l'Ourthe, 64 · B-4171 Poulseur  
Tel./Fax +32 (0)4 380 40 62  
VAT BE 0473 124 032 · RPM Huy  
Managers: Dominique Pittera [+32 (0)495 248 875]  
José Da Silva [+32 (0)474 518 481]

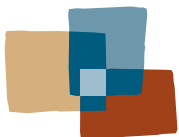
La Reid, arch. C. Jennes, quartzite



Montzen, arch. F. Francuck, quartzite



Andrimont, private house, quartzite



PIERRES & MARBRES WALLONIE

