



Date of test: 2003

Request: Bateig, Piedra Natural, S.A.

Commercial name of analysed material: Bateig Azul

A. General Characteristics.

1. Denomination (UNE-EN 12440)

- Commercial denomination: **BATEIG AZUL**
- Petrographic denomination: Biocalcarenite

2. Physic Characteristics:

- Water absorption at atmospheric pressure (UNE-EN 13755) (%): $4,7 \pm 0,2$
- Apparent density (UNE-EN 1936) (kg/m^3): 2260 ± 10
- Compressive strength (UNE-EN 1926); (MPa): $51,4 \pm 6,4$
- Flexural strength under concentrate load (UNE-EN 12372); (MPa): $12,2 \pm 2,5$
- Sock resistance (UNE 22-189): (cm) $40,0 \pm 5,0$
- Abrasion resistance (UNE-EN 1341; Anexo C) (mm): $21,0 \pm 0,5$
- water absorption coefficient by capillarity (UNE-EN 1925)
 $C (\text{g/m}^2 \cdot \text{s}^{0.5}) = 11,9 \pm 0,4$
- Water accessible porosity (%): 12.2 ± 0.6

3 Durability

- Resistance of salt crystallisation (UNE-EN 12370)
% weight loss : $6,3 \pm 2,0$
- Frost Resistance: (UNE-EN 12371):
 - Flexural strength under concentrate load (UNE-EN 12372) after frost cycles (MPa): $11,0 \pm 1,6$
 - Visual appearance of tested samples: no variation on the external visual appearance is observed .
 - % weight loss (UNE 184-85): < 0.01
 - Compressive resistance after frost cycles (MPa): $27,8 \pm 3,4$



Date of test: 2003

Applicant: Bateig, Piedra Natural, S.A.

Commercial name of analysed material: Bateig Azul

B. Petrographic description: (UNE-EN 12407):

Biocalcarenite

Structure:

Homogeneous.

Texture:

The most abundant components are fossils remains (< 2 mm of size), in first place foraminifers, mainly globigerinid. Also contains fragments of echinoderms (plates and spines), red algae, bryozoans and molluscs, and abundant calcifers.

Contains minor quantity of micrite and sparite.

Intraparticle and interparticle porosity.

Mineralogical composition:

Main minerals:

Calcite : 80%

Quartz 12%

Minor Minerals:

Glauconite and little phyllosilicates: 2%

Micro and cryptocrystalline silica: 2%.

Feldspars: 2%

Dolomite: 1%

Opaques: 1%

Accesory Minerals (traces):

Turmaline, muscovite.