



BIMILLENARIA GARANZIA  
DI QUALITÀ E PRESTIGIO

# CAVA ROMANA SOCIETÀ PER AZIONI

PER L'INDUSTRIA DEI MARMI, PIETRE E GRANITI

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PARTITA IVA E  
COD. FISC.: N. 00046760328  
REG. IMPR. N. 00046760328  
R.E.A. TS N. 9704  
MEC. TS 002035

## AURISINA LUMACHELLA

Place of extraction: AURISINA (Trieste) - Italy

### Macroscopic description

The "Aurisina Lumachella" is a compact limestone made up of a very large organic fraction given by fragments of very different shapes and sizes.

The basic colour is grey, tending to be grey-hazel, widely enlivened by "profusions", i.e. by larger organic fragments generally grey-brown and, to a lesser extent, white.

Fossil remains are usually elongated, sometimes slightly curved, less frequently subcircular or subelliptical. The distribution of the fossil remains gives the rock a peculiar and considerable chromatic homogeneity effect.

Cementation is good, with no calcitic veins; sparse stylolite surfaces are present and, where the "profusion" is particularly rich, scarce small pockets are detectable.

Bedding, where present, is evident and distinct, with plurimetric spacing; fracturing is plurimetric as well, with uneven surfaces.

Macroscopically the rock can be defined as a *calcareous fine breccia of organogenic origin*.

### Microscopic description

The ortochemical component is made up of scarce interstitial zones of aphanite micrite, weakly tending to recrystallize.

The allochemical components, which constitute nearly the whole rock, are given by fragments of thick shell Lamellibranchs, especially small and large Rudistans: the larger fragments are supported by a much finer organic ground material.

Also Bryozoans, arenaceous Foraminifers, Ostracods and micro-sparry calcite intraclasts are present, although to a lesser extent.

The rock can be defined as a *bioclastite*.

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RIATTIVATA NEL 1845 - CAPITALE € 130.000,00 INT. VERSATO - EXPORT BLOCCHI - LASTRE E LAVORATI - SEDE E STABILIMENTO AURISINA - TRIESTE  
ESTRAZIONE TIPICA PIETRE DI TRIESTE E DEL CARSO NELLA VARIETÀ: ROMAN STONE - AURISINA GRANITELLO -  
AURISINA FIORITA - REPEN CLASSICO ZOLLA - REPEN CLASSICO CHIARO - FIOR DI MARE

Per qualsiasi controversia deve intendersi competente il Foro di Trieste

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## Characteristics

The rock is homogeneous, compact, frost-proof, slightly absorbent, generally with high mechanical characterization parameters and a good wear and impact resistance.

The material can be perfectly polished and has highly chromatic and bright effects.

It should be mentioned that, locally, especially if the "profusion" is well developed, pockets (pinholes) or cryptoclases (chinks) can be found among larger bioclasts, which can spoil the technical properties of the materials. At present, thanks to filling techniques, these difficulties are practically overcome.

The material, considering its high chromatic value, is particularly suitable for interior applications: paving, staircases, facing, furnishings. It can also be used in exterior applications, as shown by extremely successful accomplishments in the past if slabs slightly thicker than usual are utilized. This simple requirement must be complied with in order to decrease the pocket effect if necessary.

For the same reasons this stone can also be used for ornamental purposes such as bordestones and columns, on which the rustic surface technique is still quite often applied.

## Chemical, physical and mechanical properties

a) Calcium carbonate:	99.12%
b) Magnesium carbonate:	0.83%
c) Iron carbonate:	0.04%
d) Weight per unit of volume:	2636 kg/m <sup>3</sup>
e) Imbibition coefficient:	10,6 %
f) Compression breaking load:	
- in natural condition:	1455 kg/cm <sup>2</sup>
- after freezing cycles:	1607 kg/cm <sup>2</sup>
g) Tensile strenght:	137 kg/cm <sup>2</sup>
h) Impact resistance:	31 cm
i) Wear resistance:	1.60/3.22 mm
l) Thermal linear expansion coefficient:	0.0044 mm/ml/°C

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