Caliza Marbella

Caliza Lorca

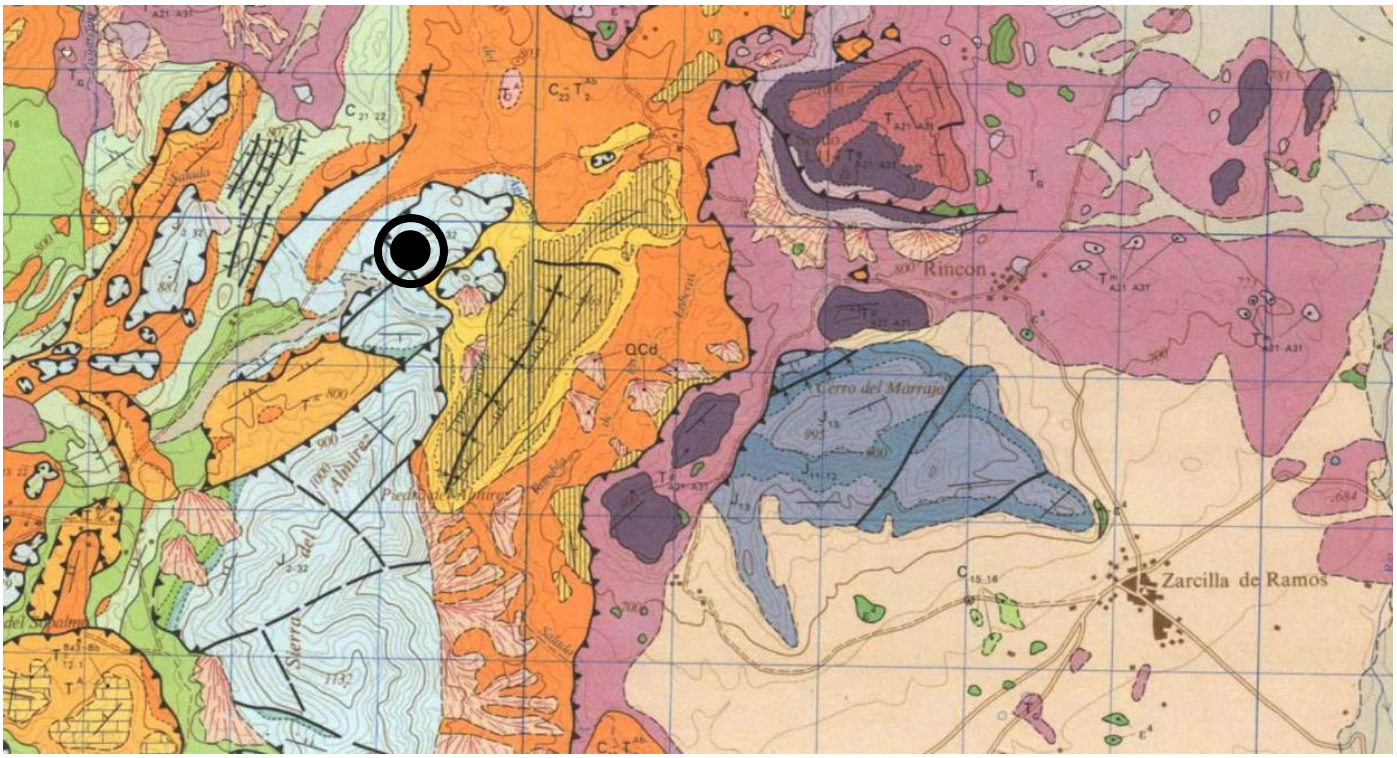
Image soruce: www.levantina.com

3 cm

Short description:
White oolitic limestone with homogeneous appaerance.

Commodity (vocabulary)	Lithology (vocabulary)	Typical colour (code list)	Place of origin			
			Country	County / District / Province	Municipality / Community	Place/town / Village
Limestone	Oolitic limestone	white	Spain	Murcia	Lorca Zarcilla de Ramos	Lorca Zarcilla de Ramos

Geological setting



Geology:

Caliza Marbella quarries are located in the Subbetic Domain of the Betic Mountain Range. This limestone belongs to the Almirez Unit which includes materials with ages from Dogger to Barremiense.
Dogger materials include white or cream colored oolitic or pisolitic limestone. Sometimes the material between the oolites is somewhat silicified. Under the microscope, lamellibranchs, echinoderms, gastropod algae, bryozoans are also observed.
The Kimmeridgian-Tithonic materials correspond to marls that contain remains of Lamellibranchs, bryozoans and some lagenids. Limestones with crinoids are also observed.
Finally, the Neocomian-Barremian materials correspond to greenish-white marl-limestones with Ammonites.

Geological age: Jurassic (Dogger)

Geological unit: Almirez Unit

Application, use and heritage

Cladding of modern building. Image source: www.acnorte.com

Description:

Some historical varieties of this building rock may have been quarried earlier, however little information is available. The highest aactivity in these quarries was achieved during the 20th century, and it is currently a widely used material for both outdoor cladding and paving in modern buildings.

Petrography

Description:
Oosparite limestone with grain supported (ooids and oncoids) structure and calcite mosaic cements.

Source of information:

1) Geological Survey of Spain (IGME)
2) RocMaquina, Piedras Naturales, maquinaria y equipos. ISSN: 0214-0217.

Mineral composition

If no accurate number, use MM=main minerals, SM = Subordinate minerals, AM=accessory minerals

Mineral 1 (%)	Mineral 2 (%)	Mineral 3 (%)			
Calcite (MM)	**Quartz (AM)**	**Clay minerals (AM)**			

Source of information:

1) Geological Survey of Spain (IGME)
2) RocMaquina, Piedras Naturales, maquinaria y equipos. ISSN: 0214-0217.

Physical properties

Apparent density (EN 1936) kg/m3	Open porosity (EN 1936) % vol	Water absorption at atmospheric pressure (EN 13755) % wt	Uniaxial Compressive strength (EN 1926) MPa	Flexural strength under concentrated load (EN 12372) MPa
2510	**6**	**2.39**	**79.6**	**7.1**

Source of information:

1) Geological Survey of Spain (IGME)
2) RocMaquina, Piedras Naturales, maquinaria y equipos. ISSN: 0214-0217.

Sources of more information

Type of information	Name of provider	URL
This data sheet		
Non-commercial directory	Spanish Geological Survey	www.igme.es
Commercial directory	RockMaquina – Piedras naturales, maquinaria y equipos.	
Scientific publication		
Other publication		

Compiled by:	Instituto Geológico y Minero de España (IGME) http://www.igme.es/	Instituto Geológico y Minero de España