

VARIETY

CERAMIC BRICK



CEMENT BLOCK



The ceramic brick, made from red clay, easily extracted and without environmental impact is, without any doubt, the most common material used in masonry. In turn, the extraction of raw material for the manufacture of concrete is highly harmful to the environment.

The ceramic bricks have a higher variety of shapes, sizes, finishes and surface textures than the cement blocks.

MAIN CHARACTERISTICS

* Comparative characteristics between the brick 30x20x15 cm and the block with natural inert materials 30x20x14 cm

	Ceramic brick	Cement block
• Humidity content, %	0,32	0,97

Ceramic bricks have lower humidity content and therefore a better behavior than the cement blocks

• Resistance to Compression, MPa	6,6	3,6
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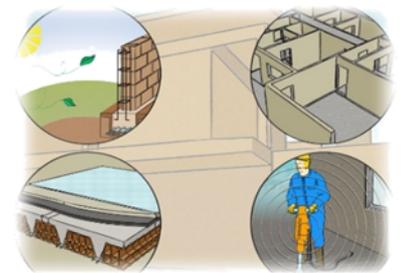
The ceramic bricks have greater resistance than those made of cement

• Fire Resistance		
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In general the red clay ceramic materials are fired at temperatures of around 900°C and have an improved mechanical strength and no degradation and so they are more fire resistant than those of cement

• Thermal Insulation, w/m ² K	1,80	2,55
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The normal hollow red clay bricks have better thermal insulation characteristics than those made of cement

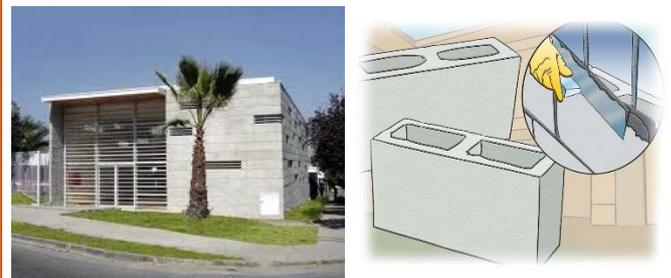


APPLICATION AND DURABILITY



The application of brick and thermoclay in masonry is very common and has the following advantages:

- ✓ Quickness and economy in the execution of work
- ✓ Saving regarding the execution time as they have several sizes and shapes
- ✓ With this material is not necessary to open grooves in the walls for pipelines
- ✓ Generate lightweight masonries
- ✓ The wastes can be recovered in the manufacture of other materials



The cement blocks are used in masonry. The disadvantages of this building material are:

- ✓ The own weight
- ✓ The absorption power of moisture
- ✓ Weak thermal insulation
- ✓ Difficulty in opening grooves for the installation of piping for electrical power and water supplies, etc.
- ✓ The residues have some difficulty in recycling

Its use is not advisable in dwelling houses.