

ECOCON Nano-concrete Masonry Blocks are produced with non-autoclave aerated light-weight cellular concrete (nano-concrete), that is a unique ecological construction material

ECOCON

ECOCON offers to customers the lightweight cellular concrete blocks with excellent thermoinsulation and sound-proofing properties and that can be plastered with ordinary cement-based plaster.



Suitable for: outside walls, partitioning walls, mezanine floors, boundry walls, fire-resistance walls and barriers

CERTIFICATES & APPROVALS



ISO 9001:2008



Municipality of Sharjah



Municipality of Fujairah



Fire Resistance Rate (Dubai)



Sharjah Electricity and Water Authority

100% ecological green construction material

ADVANTAGES

- Environment protection
- Energy saving
- Acoustic proofing
- Non toxic
- Rapid on-site
- Accuracy
- Long life
- Ventilation
- Lightweight

ECOCON BLOCK TECHNICAL SPECIFICATIONS

	250	400	500	600
Dry Density, kg/m³	250	400	500	600
Compressive strength, MPa	0.7	1.5	2.0	3.2
Thermal conductivity, W/m*K	0.06	0.11	0.13	0.15

Weight Comparison



ECOCON NORMAL LIGHTWEIGHT BLOCK
8 kg weight for 6" block



ORDINARY HOLLOW BLOCK
24 kg weight for 6" block





A P P L I C A T I O N



ECOCON Lightweight Blocks are used in virtually all areas of the construction industry, such as housing, industrial and agricultural construction, the construction of schools, hospitals, administrative and public buildings, etc. ECOCON block is an economical and efficient building material whose properties allow to quickly construct buildings for various purposes.

In addition, ECOCON blocks can be used for restoration or reconstruction of old buildings (due to low weight) or half-timbered houses (due to simple processing). In world practice, cellular concrete has long been used in the renovation of old buildings, while building their height.

ECOCON Lightweight Blocks (less than 400 - 600 kg/m³) are used for construction of non-bearing external walls, internal partitions, boundary walls. The high fire resistance rate (more than 3 hours for 100 mm wall) makes possible usage of ECOCON blocks for fire protection of elevators shafts, communication and security chanel, constuction of fire-rated walls abd partitions in schools, kindergardens, shopping malls.



ECOCON Superlightweight Blocks (less than 275 kg/m³) can be perfectly applied as filler (hoardy) blocks for pre-cast panels production. The perfect thermal insulation of superlight blocks allow to avoid usage of expensive and fire dangerous polysterene.



**Fire Rated
3hours
(100 mm wall)***



* Tested by Dubai Material Laboratory under Dubai Civil Defence supervision

OFFER TO SET UP ECOCON PLANT

ECOCON Group offers a complete solution for setting up ECOCON plant at any country or region. ECOCON Plant design will be carried out in accordance with local raw materials, production output requirements and other local conditions. ECOCON process is energy efficient and operates with low CO₂ emissions. It corresponds to the so called "Green Building Technology".



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