



QBLOCK°

Advantages

Stable Modular

Repositionable

Reusable

Resellable

Economic

Modern

Simple design

Very high fire resistance Ecological (does not require mortar)

High resistance to aggressive agents Can also be modified during construction Simple replacement of damaged modules

Sectors of use

Civil and industrial construction

Environmental and hydraulic engineering

Mining industry

Recycling

Road traffic

Street furniture

Agriculture

Zootechnics

Agri-food industry

Bioenergy

Ecological islands



Application

Walls against the shore Infill walls Security walls Fences Fire barrier

Anti-noise barrier Horizontal silos

Trenches

Unloading bays Containment basins Ballast for tensile structures Disposable formwork Support for tensile structures External plinths for poles Organization of outdoor spaces **Flowerbeds** Stairways Anti-erosion banks for canals Flood barriers Tool storage



Simple, strong, economical, fast

Prefabricated concrete blocks with very high resistance and durability.

The shape, the weight, the particular contact surfaces allow them to be stacked, interlocking and giving them a very high resistance to cutting, becoming, in fact, a

real monolithic structure.

Solidity, simplicity and speed of installation, flexibility of the project even during construction, guarantee certainty of costs, making this intelligent and innovative system unique and absolutely the most economical.



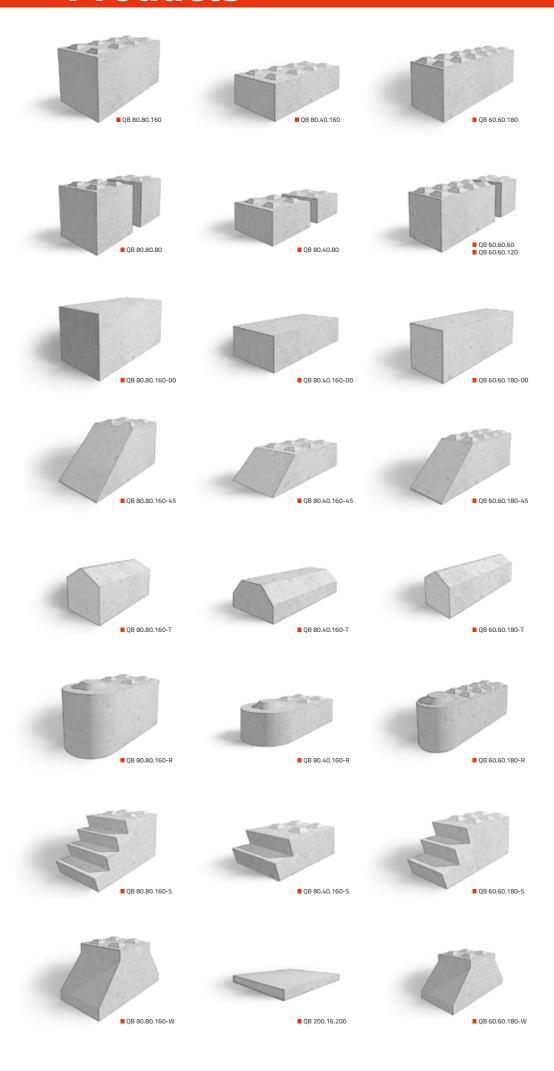




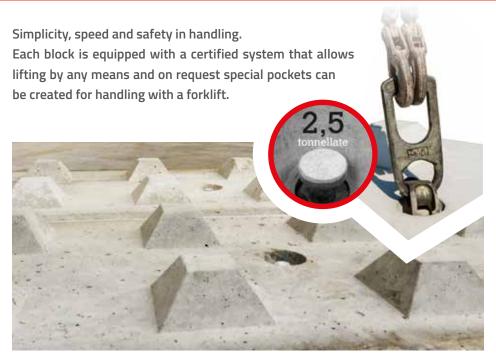
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Products



Movement







Data sheet

QBLOCK® is a prefabricated concrete element in the shape of a parallelepiped with variable length and square or rectangular cross section.

On the base and top surfaces there are negative and positive pyramid trunks (diamonds) which allow a precise and fast coupling of the blocks as well as counteracting their mutual sliding.

The concrete has a resistance class of Rck37 and an exposure class of certificates for "LEED" credits.

QBLOCK® is not reinforced as it is not subjected to tensile or bending forces, thus acquiring very high durability and fire resistance El240.

The 2.5 ton lifting nails are made of hot-dip galvanized tempered steel, 170 mm long.

Factory Production Control Compliance Certificates:

- UNI EN 15258: concrete elements for retaining walls 0925 CPR P q n.20/2017 dated 04/03/2017
- UNI EN 771-3: concrete elements for masonry 0925 CPR M d n.19/2017 dated 04/03/2017
- UNI EN 10204: metal products B084207 c n.3100008 dated 19/02/2015
- NTC D.M. 14/01/2008: pre-mix concrete 0925 NTC C a n.03/2009

Criteria and principles underlying the use

The main characteristic of this construction system lies in the simplicity and modularity of the elements along the lines of the famous Lego toy.

By simple juxtaposition and superposition the blocks fit together without limits in shape and size and then subsequently adapt their arrangement if needs different from the initial ones arise.

The weight, the perfect parallelism of the contact surfaces and the diamonds guarantee stability to the structure without the use of cement binders.

Technical construction measures

The support surface of the elements must be regular and flat so as to guarantee the perfect positioning of the blocks and loads.

Foundations are not necessary, however we recommend a leveling cleaning jet, preferably reinforced, so as to absorb any subsidence of the ground if the bearing capacity is not uniform or sufficient.

QBLOCK® must be laid in staggered rows so that it can keep each single block linked, avoiding creating independent columns, but rather a monolithic structure.

Please note that the creation of structures using blocks is the result of a study carried out by qualified technicians appointed by the client, therefore the indications contained herein are to be understood exclusively as application examples.

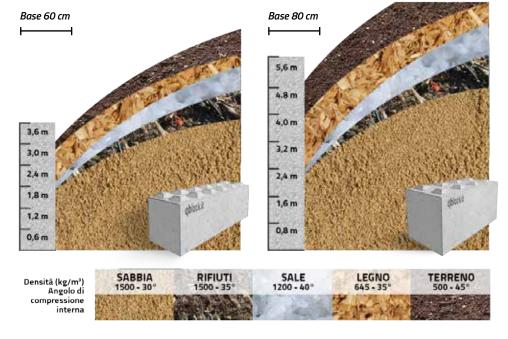
QBLOCK® considers itself relieved of any responsibility related to improper use.

The supervision of a specialized technician is always recommended.

Products and services

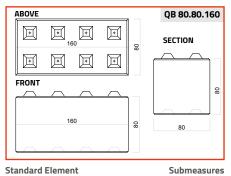
QBLOCK®, in addition to the supply of individual blocks, can provide actual assembly kits, integrated design services, static calculations, technical assistance on site, transport and construction of turnkey structures.

SAMPLE SIZE (ONE-SIDED COMPRESSIVE LOAD)



Data sheet

For structural use



Standard Element Size in cm: 80x80x160 Volume: 1,010 m³ Specific weight cls Ys: 2,395 ton/m³ Block weight: 2,419 ton

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Standard Element Size in cm: 60x60x180 Volume: 0,639 m³ Specific weight cls Ys: 2,395 ton/m³ Block weight: 1,530 ton

Submeasures 60x60x30 60x60x60

80x80x40

80x80x80

80x80x120

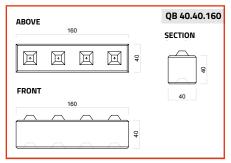
60x60x30 60x60x60 60x60x90 60x60x120 60x60x150

80x40x40

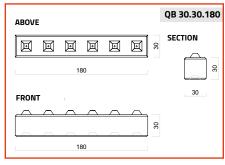
80x40x80

80x40x120

For non-structural use

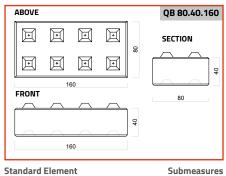


Standard Element Size in cm: 40x40x160 Volume: 0,249 m³ Specific weight cls Ys: 2,395 ton/m³ Block weight: 0,596 ton **Submeasures** 40x40x40 40x40x80 40x40x120



Standard Element Size in cm: 30x30x180 Volume: 0,161 m³ Specific weight cls Ys: 2,395 ton/m³ Block weight: 0,386 ton Submeasures 30x30x30 30x30x60 30x30x90 30x30x120 30x30x150

For structural use

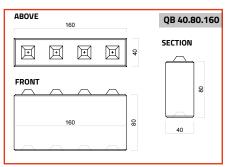


Standard Element Size in cm: 80x40x160 Volume: 0,489 m³ Specific weight cls Ys: 2,395 ton/m³ Block weight: 1,193 ton

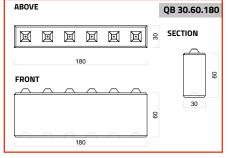
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Standard Element Size in cm: 60x30x180 Volume: 0,315 m³ Specific weight cls Ys: 2,395 ton/m³ Block weight: 0,754 ton Submeasures 60x30x30 60x30x60 60x30x90 60x30x120 60x30x150

For non-structural use



Standard Element Size in cm: 40x80x160 Volume: 0,511 m³ Specific weight cls Ys: 2,395 ton/m³ Block weight: 1,223 ton **Submeasures**40x80x40
40x80x80
40x80x120



Standard Element Size in cm: 30x60x180 Volume: 0,319 m³ Specific weight cls Ys: 2,395 ton/m³ Block weight: 0,765 ton Submeasures 30x60x30 30x60x60 30x60x90 30x60x120

This technical data sheet may undergo changes and be superseded by new editions. The version published on the site is considered valid as the latest version **www.qblock.it**



Free to change shape in an infinite possibility of constructions.



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