specification sheet Megablock (Mass Concrete Block)



These unreinforced blocks are produced from high strength concrete, poured and vibrated in metal moulds. They can be stacked to create stable and repositionable walls. The interlocking system, with studs and recesses, creates clutch power, providing tremendous stability and unlimited block combination possibilities. The blocks are an easy building solution; they can be taken apart, reassembled and reused for other purposes, making the block system a sustainable construction method. Megablocks provide the following solutions, among many others, for a wide variety of projects:



bales, RDF waste, black bag waste,

agriculture, etc.)

Material storage and silage bays (e.g. aggregates, scrap metals, wood chip, tyres, white goods,



Coastal erosion prevention, flood

protection (alternative to traditional

gabion walls)



Custom temporary structures (e.g. diversion of water flows during construction phase of bridges or other structures)



Fire break walls



Counterweights, ballasts



Industrial buildings

KEY BENEFITS

- Resists to extreme weathering (can be used in saline conditions also)
- Requires minimal groundwork
- Cost-effective and time-saving
- Requires little to no maintenance due to their impervious design and structure
- Re-usable (i.e. can be easily moved to other sites/projects)

TECHNICAL SPECIFICATIONS

- Two types of Megablocks are available as follows: 1200 x 600 x 600mm and 600 x 600 x 600mm
- Weight of UBP Megablocks

Type of Block	Weight
1200 x 600 x 600mm	±1000kg
600 x 600 x 600mm	±500kg

Permissible deviations as per table below:

Length (mm)	Width (mm)	Thickness (mm)
± 5	± 5	± 5

 Concrete Grade: 30MPa (Higher compressive strength can be also manufactured upon request)

MATERIALS SPECIFICATIONS

Cement

ORDINARY PORTLAND CEMENT (CEM I – 42.5N)

Compliance with BS EN 197-1:2000 – Cement. Composition, specifications and conformity criteria for common cements.

Aggregates

UBP AGGREGATES (Rocksand 0-4 mm & Coarse Aggregate 10-14 mm)

Compliance with BS 882: 1992 – Specification for aggregates from natural sources for concrete

Water

BOREHOLE – Clean and free from any harmful amounts of deleterious matter, either in suspension or in solution controlled each month by external laboratories.

RECOMMENDATION

Before using the blocks, we strongly recommend the approval of a registered engineer for advice: on wall height, material storage, ground compaction and stability and most importantly ground bearing capacity and foundation

Limited stock - on order only

Test and Compliance Certificates

Appropriate certificates are issued upon request. In case of no particular specifications / requirements on the product, the test and compliance certificates will be according to BS 6073. Tested by UBP – LABORATORY DEPARTMENT Issue Date: 11/01/21 Page 1 of 2 Version 2021



Megablock (Mass Concrete Block)



HANDLING INSTRUCTIONS

- These Megablocks have a pin anchor lifting system and are supplied with 2x lifting pins for the 1200 x 600 x 600mm and 1x lifting pin for the 600 x 600 x 600mm models, respectively.
- For a more secure handling, attach the lifting eyes * to the anchor. This will facilitate the lifting of the Megablock
- Chain or straps must be thoroughly checked and have a minimum Work Load Limit (WLL) of 1t+ for the 1200 x 600 x 600mm and a minimum WLL of 1t+ for the 600 x 600 x 600mm models, before being used.
- User must ensure that shackles are securely attached before attempting to lift the Megablock.
- Chain or straps need to be put through the lifting shackles, and then attached to a suitable piece of machinery (generally a forklift, crane, or telehandler).
- User should ensure chains or straps are lifting the Megablocks at 30 degrees from vertical or less.
- Prevailing health and safety standards should be adhered to (e.g. at no time should any person go under the Megablocks while they are in the air).
- The Megablocks should be carefully lifted off the lorry and into position at all times.





* Lifting eyes are sold separately and are reusable



1200 x 600 x 600mm





600 x 600 x 600mm





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