

Cellular Block

Description

The Cellular Block is an aggregate concrete masonry unit carved or moulded and it has two or three formed holes which do not pass through the block.

This block is mainly used for general blockwalling.

All UBP's production units manufacture the 3 types of cellular blocks below:

- 100mm: commonly known as 4"
- 150mm: commonly known as 6"
- 200mm: commonly known as 8"

Normative Reference

BS 6073: Part 1: 1981 - Specification for precast masonry units

BS 6073: Part 2: 1981 - Methods for specifying concrete masonry units

Technical Specifications

- External shell and web thickness of concrete cellular blocks available: 25mm thick, 32mm thick
- Tolerances on work sizes

Dimension Maximum	Dimensional Deviation
Length	+3mm – 5mm
Height	+3mm – 5mm
Thickness (Width)	+2mm – 2mm
Shell / Web Thickness	+3mm – 3mm

- Weight of UBP Concrete Cellular Blocks

Type of Block	External Shell and Web Thickness	
	25mm	32mm
100mm thk	±13kg	±14kg
150mm thk	±17kg	±20kg
200mm thk	±21kg	±23kg

- Compressive strength of UBP Concrete Cellular Blocks
The average crushing strength of 10 blocks shall not be less than 3.5MPa at delivery. The corresponding lowest crushing strength of any individual block shall not be less than 2.8MPa.
- Overall heat coefficient factor
U value block only: 2.46 w/m²k
U value with ±15mm plaster each side: 2.27 w/m²k

Note: Blocks with higher compressive strength can be also produced on prior 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 0-4mm & Coarse Aggregate 4-6mm & 6-10mm)
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.

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.

