CELBLOC

Cellular lightweight concrete blocks



Solid CLC blocks · product study

Product and application

Solid, wire-cut CLC blocks with distributed air cells in a cementitious matrix. For non-load-bearing walls and partitions above plinth, subject to project design.

Six sizes. Two lengths.

Length × height × width mm	Unit volume m³
450 × 200 × 100	0.0090
450 × 200 × 150	0.0135
450 × 200 × 200	0.0180
600 × 200 × 100	0.0120
600 × 200 × 150	0.0180
600 × 200 × 200	0.0240

All units are 200 mm high. Widths are 100, 150 and 200 mm. Volumes are calculated from the listed dimensions.

Specify the required grade

Confirm density, strength and dimensional tolerances for the selected product. Request relevant thermal, fire or acoustic evidence where required by the project.

Performance values and current availability require confirmation before ordering.

Coverage and quantities

Length mm	Face area m² / block	Blocks / m² theoretical
450	0.09	11.111
600	0.12	8.333

Deduct openings from the wall area. Divide the net area by the selected block's face area, add the chosen wastage allowance, then round up to whole blocks.

Coverage is the same across all three widths. Joints are excluded; calculate with unrounded factors.

Example: 15 m² net wall area with a 5% allowance requires **175 blocks at 450 mm** or **132 blocks at 600 mm**.

Installation guidance

The archived manual describes conventional mortar joints of approximately **8–10 mm** or thin-bed joints of approximately **3–4 mm**. Confirm the compatible jointing system and fill bed and head joints.

Stagger vertical joints. The manual gives a **250 mm minimum overlap**. A 450 mm half-bond gives 225 mm, so that arrangement needs an approved bond detail. A 600 mm half-bond gives 300 mm.

Supports, frame connections, openings, movement accommodation and finishes require project-specific details.

Before ordering

Confirm size, grade, final quantity, delivery location and required date with the Materials team.

Use the online block calculator for a preliminary quantity.

Sources: CELBLOC brochure, PDF p.7 (600 mm range); SEED confirmation, 2026-10-25 (450 mm range); archived Celbloc Manual, PDF pp.9, 11–14, 18, 21–23. Archive revision dates unconfirmed. This sheet does not replace approved project details or current test reports.