

LiteCel® CD

EPS CAVITY AND DRAINAGE SYSTEM

PRODUCT DESCRIPTION

LiteCel® CD is one system, not two products bought separately. The board is a moulded EPS panel with knobs on its outer face; the tie is the SANS 28 double-triangle tie that passes through the board and into both leaves. The knobs hold a clear 25 mm cavity open against the outer leaf, so rain driven through the face brick runs down the channels between them, reaches the DPC and leaves through the weep holes, while the 35 mm EPS base insulates the wall behind it. The board is 425 mm high — five brick courses, which is also the vertical tie spacing, so the tie course and the board course are the same course.

LITECEL® CD PROPERTIES

PROPERTY	VALUE
Laying module (H × L)	425 × 1240 mm
Coverage per board	0.527 m ²
Build-up	35 mm EPS base + 25 mm drainage knobs = 60 mm overall
Nominal density	30 kg/m ³
Thermal resistance R — 35 mm EPS base	0.97 m ² K/W (estimated)
Thermal resistance R — 25 mm drainage cavity (vertical, unvented top)	0.16–0.18 m ² K/W (estimated)
Thermal resistance R — board + cavity	1.13–1.15 m ² K/W (estimated)
Typical cavity wall performance	R 1.6–1.8 m ² K/W; U 0.55–0.63 W/m ² K — dependent on wall construction and finishes
Wall tie — type	Double triangle



Summary only — 5 further properties are given in the LiteCel® CD datasheet.

APPLICATIONS AND SCOPE

APPLICATIONS

- Masonry cavity walls — insulation and a drained 25 mm cavity in one board, with the tie course and the board course the same course.
- Drainage and protection board to vertical surfaces
- Drainage and insulation layer on horizontal surfaces — inverted roofs and podium decks, above the waterproofing.
- Stacked build-ups where a higher R-value is required — boards nest knob-into-socket, each added board contributing its 35 mm base.

WHERE NOT TO USE IT

- Not a cavity fill. The 25 mm gap the knobs hold open is the drainage path. Anything that bridges it — mortar droppings above all — defeats the system.
- Not with a wire tie where the cavity exceeds 75 mm. SANS 10164-1 5.2.1.4(c) requires a vertical-twist strip tie above that width.
- Not a structural element. The board carries no vertical load and does not restrain the leaves; the tie does that.
- Not for permanent UV exposure. Cover the board within the construction programme.