

NuWall

Cast-in-place plastered EPS wall system — the economical insulated side wall for broiler houses



Overview

NuWall is a lightweight, cast-in-place insulated wall built on site from a flame-retardant EPS core and finished with fibreglass-mesh-reinforced acrylic plaster on both faces. Rather than hanging a pre-made sandwich panel, it forms a monolithic insulated wall in situ: a concrete dwarf wall at chick level, an FR-EPS core stiffened with galvanised channels, a concrete "bridge" to block insects, and a plaster skin taken down to floor level for a claimed 100% airtight, insect-proof finish. It has two documented uses — an insulated side-wall solution for broiler/poultry houses (with the channels deliberately spaced to receive ventilation windows) and a general lightweight interior partition wall supplied in 1200 mm-wide panels. Technopol positions it as the most economical insulated wall available to the poultry industry, erected and cast with semi-skilled labour; plastering is normally done on site, with pre-plastered walls available on request.

Applications

- Broiler / poultry-house side walls — the flagship use: insulated, airtight and insect-proof, with integral channel spacing to receive ventilation windows
- Lightweight interior partition walls for offices and agricultural buildings
- General partitioning wherever an economical insulated in-situ wall is required
- New-build livestock housing needing correct brood-temperature control
- Insulated walling finished in white or grey acrylic plaster, on site or pre-plastered

Benefits

- Flame-retardant EPS core delivers insulation for correct brood temperature and lower running costs
- Claimed 100% airtight, insect-proof finish when plastered to floor level on both faces
- Fast erection and casting with galvanised channels and semi-skilled labour
- Economical — positioned as the most economical insulated wall for the poultry industry
- Durable fibreglass-mesh-reinforced acrylic plaster skin in white or grey; on-site or pre-plastered supply
- Channel spacing engineered so ventilation windows fix neatly between the channels

Specifications

EPS core type	FR (flame-retardant) EPS
EPS core density	15 kg/m ³
Wall thickness options	75 / 100 / 150 mm
Broiler wall build-up	100 mm FR-EPS core + 25 mm FR-EPS outer, on a 75 mm concrete dwarf wall
Panel width	1200 mm nominal
Panel lengths	2400 / 3000 / 4800 / 5000 mm
Galvanised channels	25 × 25 mm, 2 per side
Acrylic plaster skin (broiler)	4 mm, white or grey, both sides
Reinforcement & finish	Fibreglass-mesh-reinforced polymer-modified plaster + acrylic top coat, both sides
Airtightness	Claimed 100% airtight (plastered to floor level)

Fire & compliance: NuWall's core is flame-retardant (FR) EPS — a reaction-to-fire property describing ignition and flame spread, not a fire-resistance rating; there is no rated fire-resistance (no minutes / REI) test and no product-specific reaction-to-fire certificate on file for the plastered NuWall assembly. NuWall carries no Agrément certificate (Agrément 2020/609 applies to LiteCore only), and the ISO 9001/14001/45001 marks shown on the 2017 flyer are expired and must not be presented as current.