

# Corrolight CT

Lightweight Polystyrene Concrete  
Wall Panel

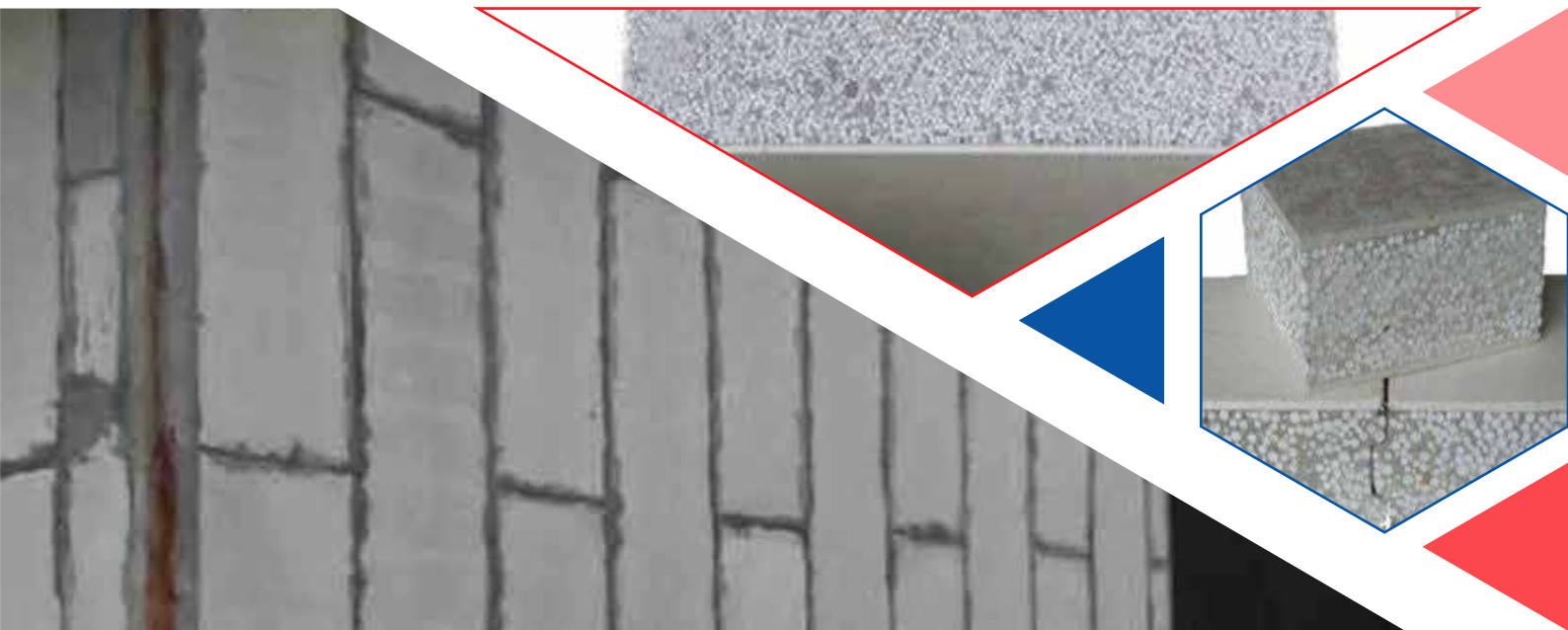


**Corrolight CT** Wall Panel is sandwich panel, made of light weight virgin expanded polystyrene concrete, between two calcium silicate boards, (non-asbestos product). The panel is a type of lightweight energy saving wall material. It is designed to replace traditional blocks; it is a new architectural concept and it has excellent performance meeting modern building environmental requirements.

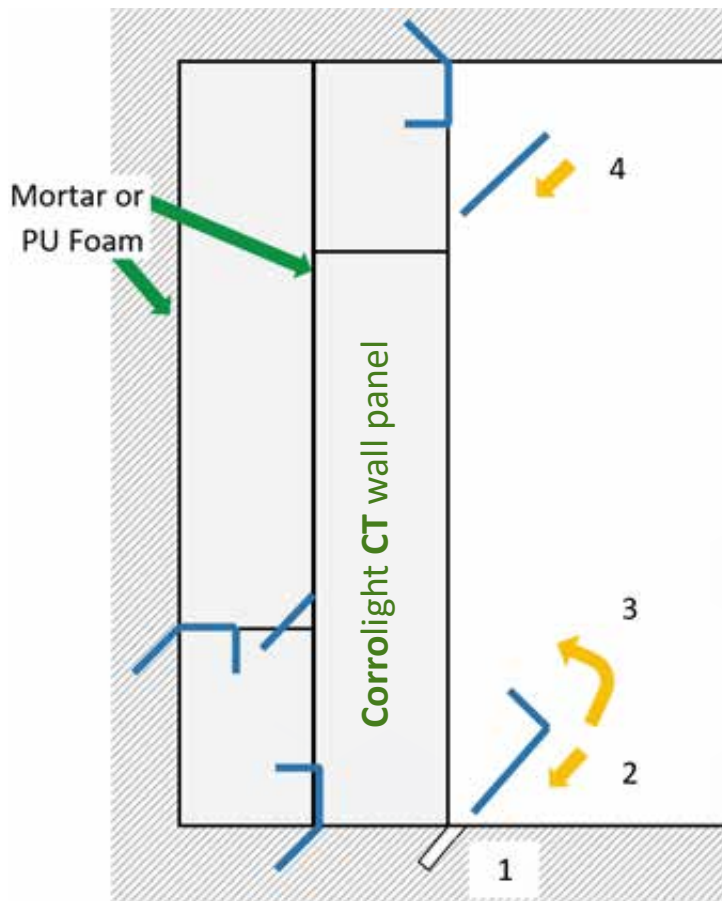
**Expanded polystyrene (EPS), are beads enhanced/coated with special additives, (admixtures), in order to allow homogenous bead distribution in the lightweight concrete as well as to guarantee thermal and mechanical properties of the wall panels.**

The panels are used as non-load bearing interior and exterior wall panels, in many kinds of buildings, such as prefabricated houses, family homes, dormitories, residences, apartments, luxurious villas, factory warehouses, production workshops, auxiliary plants, hotels, bars, shopping malls, restaurants, schools, hospitals, airports, etc.

**Corrolight CT** is cast with an interlocking system in order to simplify wall assembly.



# Corrolight CT - Installation Guide



**Step 1** – According to the wall height, cut the panels to measure

**Step 2** – Apply Corromortar CB or PU foam on all joint surfaces and place the panel

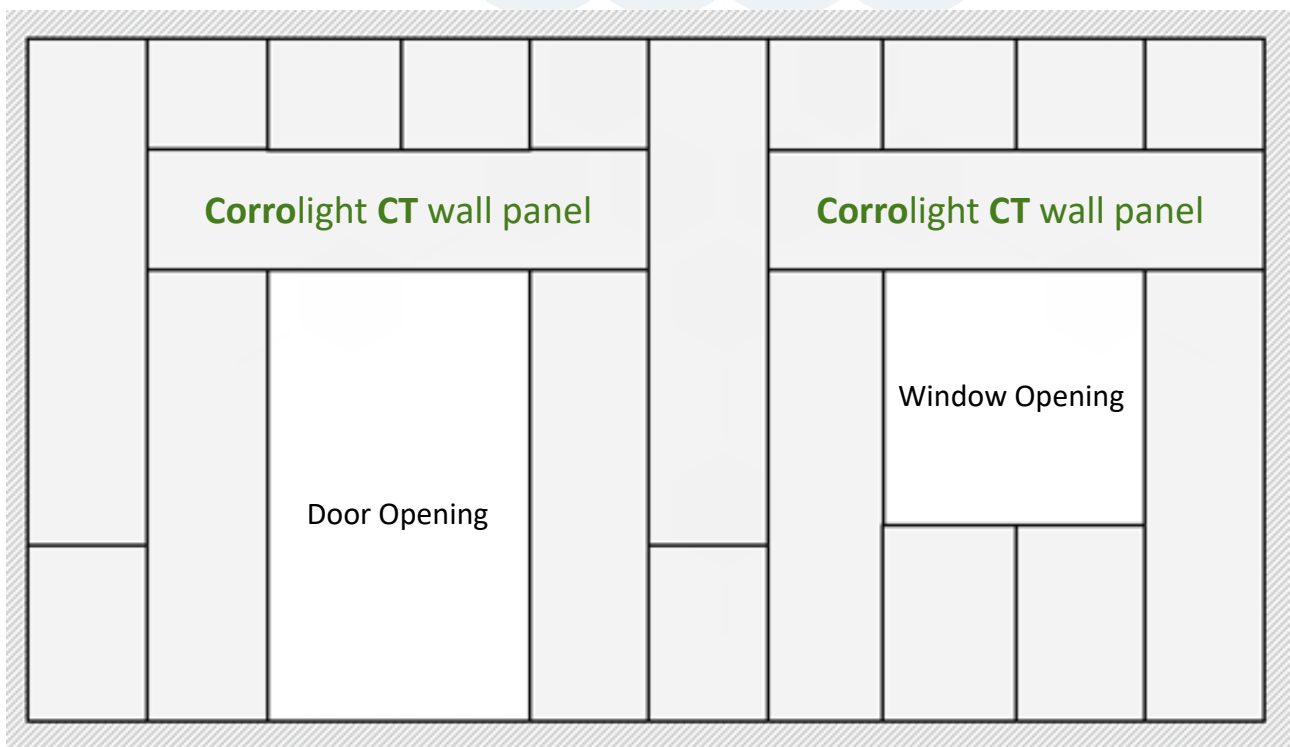
**Step 3** – Fix the panels to the floor, wall or ceiling with iron bars, 6 mm (1 – make a hole 45o, 2 – push the L shape bar into hole, and 3 - bend it with a hammer to catch the panel)

**Step 3** – Fix the two panels with iron bar 6mm, 4 - tapping into panels under 40o

**Step 4** – Check leveling during installation and correct it if required

**Step 5** – Fill joints using putty and anti-cracking tape.

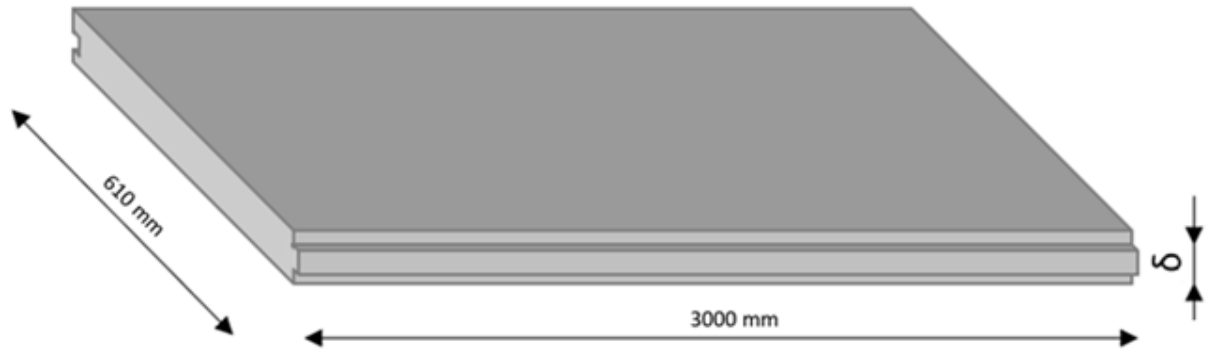
**Step 6** – Final finishing (paint, wall paper, cladding...)



In order to avoid concrete beams – Lintel over openings (doors, windows, and speed up building process), use the **Corrolight CT** wall panels horizontally.



Use an electric saw for preparing the grooves for installation of electrical or plumbing lines and equipment. The gaps left behind can be filled with mortar Corrobloc Fill.

# Corrolight CT panels Dimensions and Weights:



Wall Panel	Thickness $\delta$ (mm)	Weight (kg)
Corrolight CT 75	75	70
Corrolight CT 100	100	105
Corrolight CT 150	150	130

Compared to conventional building techniques, **Corrolight CT** wall panels have the following advantages:

-  Excellent thermal insulation - Energy saving
-  Time saving - faster building, easy handling, no plastering, smooth finishing, (plastering only).
-  Environmentally friendly materials - no asbestos
-  Excellent acoustic properties
-  Waterproof panels
-  Good quality product
-  Fire rating - 3 hours (DCD)
-  Lightweight material
-  Cost saving - in terms of time saving, less workers required, energy saving

## Corrolight CT wall panels - Properties

Parameter	Unit	Corrolight CT 75	Corrolight CT 100	Corrolight CT 150
Density @ 7 Days	kg/m <sup>3</sup>	523	523	523
Density @ 28 Days	kg/m <sup>3</sup>	513	513	513
Thermal Conductivity	W/m.K	0.2984	0.2984	0.2984
Compressive Strength @ 7 Days	N/mm <sup>2</sup>	0.67	0.67	0.67
Compressive Strength @ 28 Days	N/mm <sup>2</sup>	0.97	0.97	0.97
Water Absorption by Volume	%	16.5	16.5	16.5
Acoustic Rating	dB	37	40	49
Fire Rating	h	2	4	4

### Designed for Sustainability

- Save the environment
  - o Low energy consumption for cooling and heating
  - o Does not require sand or any natural aggregates
  - o Zero ozone depleting potential
  - o Zero global warming potential
  - o Lower fuel consumption during transport due to its low weight
- Can be recycled into end-of-life uses a road base material.
- Reduces imposed loads on structures
- Improves the structural resistance and flexibility of the building



**Coportech Construction Chemicals (MCT Group)**

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