

Ecolite is an excellent alternative to concrete blocks and clay bricks and matches or outperforms them on numerous parameters.

Ecolite AAC Blocks vs Concrete Blocks

Anti-Vibration Properties

Concrete Blocks

The main frame structure takes maximum vibrations. Concrete Blocks are not designed for Anti-vibration properties. Concrete block masonry is better in Anti-vibration properties simply because it has more masonry joints and is stronger than AAC Block work.

Ecolite AAC Blocks

The main frame structure takes maximum vibrations. Ecolite AAC Block masonry is good in Anti-vibration properties. Ecolite AAC blocks are not specifically designed for Anti-vibration properties.

Costs

Concrete Blocks

The cost of blocks is Rs. 4000/—per Cu M. The cost of blockwork is higher due to smaller blocks with several masonry joints and a joint thickness of 10 mm. Therefore, the quantity of mortar required is more, hence the increased cost.

Ecolite AAC Blocks

The cost of Ecolite AAC Blocks is Rs. 4000/- per Cu M. Blockwork costs less, as no. of joints & joint thickness (3/6 mm) required are less. Therefore quantity of mortar needed is less, hence the cost required is less.

Light weight

Concrete Blocks

The density of solid concrete blocks is 1800 Kg/Cu M. The blocks are heavy and hence require more manpower for handling.

Ecolite AAC Blocks

The density of Ecolite AAC blocks is almost 1/3rd that of concrete blocks at 451 to 1000 Kg/Cu M. Ecolite AAC Blocks are lighter in weight and require minimum manpower for handling.



Finishing

Concrete Blocks

Concrete blocks are known to offer reasonably good finishing

Ecolite AAC Blocks

Ecolite AAC Blocks are known for their excellent finishing



Speed

Concrete Blocks

Compared to conventional brickwork, work with concrete blocks can be completed faster.

Ecolite AAC Blocks

Ecolite AAC Blockwork is faster than Concrete Blocks Work and other conventional bricks.



Structure Cost

Concrete Blocks

Since the density of blocks is higher, the dead load on the structure increases, and the cost of the structure also increases. The quantity of reinforcement steel required is approximately 0.3 - 0.4 Kg/Sft more on the slab area.

Ecolite AAC Blocks

Since the density of Ecolite AAC Blocks is less, the dead load on the structure is less, and hence, the cost of the structure is also less compared to solid concrete blocks. The reinforcement steel required is approximately 0.3 - 0.4 Kg/sqft less on the slab area.



Heat

Concrete Blocks

Concrete Blocks with 2 to 4 hours fire rating can be manufactured as per structure requirements.

Ecolite AAC Blocks

Ecolite AAC Blocks with 2 to 4 hours fire rating can be manufactured as per structure requirement.



Plaster

Concrete Blocks

The plaster thickness required on concrete blocks is regular and minimum

Ecolite AAC Blocks

The plaster thickness required on Ecolite AAC blocks is regular and minimum



Earthquake Resistance

Concrete Blocks

The main structure is earthquake-resistant. Solid Concrete Block masonry does not have earthquake resistance properties, but due to the high density of the blocks, damage will be more.

Ecolite AAC Blocks

The main structure is earthquake-resistant. Ecolite AAC Block masonry does not have earthquake resistance properties, but due to the low density of the blocks, damage will be less.



Green

Concrete Blocks

Solid concrete blocks are manufactured using virgin natural materials and hence are not considered environmentally friendly.

Ecolite AAC Blocks

Ecolite AAC blocks are manufactured using waste products such as Fly Ash, GGBS, etc., and hence, they are considered environmentally friendly.

