

## Expanded Clay Aggregate (ECA) BLOCKS FOR CONSTRUCTION

**Expanded Clay Aggregate (ECA) BLOCKS** are masonry units manufactured using Expanded Clay Aggregate (ECA), Class **F** fly Ash and cement. They are used for non-load bearing wall masonry.

After application of a high-performance innovative technology of manufacturing and post curing process, **Expanded Clay Aggregate (ECA) BLOCKS** gains superior material properties.

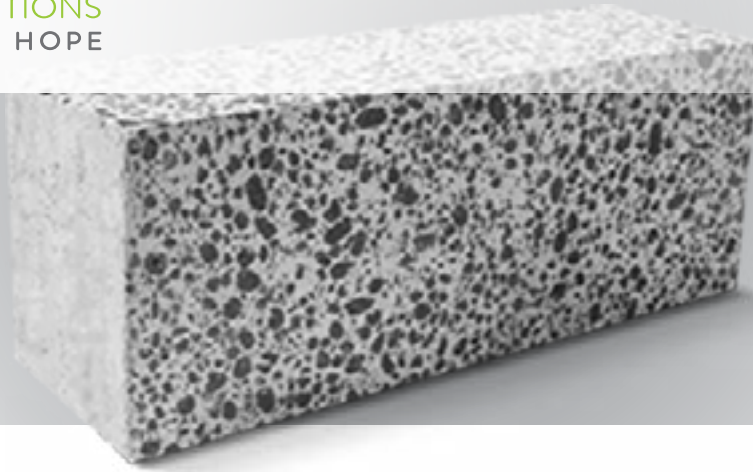
It also offers no reduced shrinkage and a superior fire and chemical resistance adding to several advantages including durability, versatility, speed and ease-of-use as well as cost benefits and environmental considerations.

**Expanded Clay Aggregate (ECA) BLOCKS** are available in **2** Sizes

9" Blocks	4" Blocks
<p><b>Size:</b> 600 X 200 X 230 mm (Inch : 24" X 8" X 9")</p> <p><b>Weight:</b> 18 - 19 Kgs app.</p> <p><b>1 CTM:</b> 36 Nos of 9" Blocks</p> <p><b>1 Square Feet:</b> Requires 1.3 Nos of 9" Blocks</p> <p><b>1 Square Meter:</b> Requires 8.33 Nos of 9" Blocks</p> <p><b>1 CFT:</b> Requires 1 Nos of 9" Blocks</p>	<p><b>Size:</b> 600 X 200 X 100 mm (Inch : 24" X 8" X 4")</p> <p><b>Weight:</b> 7 - 8 Kgs app.</p> <p><b>1 CTM:</b> 86 Nos of 4" Blocks</p> <p><b>1 Square Feet:</b> Requires 1.3 Nos of 4" Blocks</p> <p><b>1 Square Meter:</b> Requires 8.33 Nos of 4" Blocks</p> <p><b>1 CFT:</b> Requires 2.5 Nos of 4" Blocks</p>

### Technical Specifications

1. Dry Density : 600-750 Kg/m<sup>3</sup> (average value = 700 Kg/m<sup>3</sup> )
2. Drying Shrinkage : 0.005%
3. Compressive Strength – 3.5 to 5.0 N/mm<sup>2</sup> (MPa)
4. Flexural Strength : 1.05 N/mm
5. Thermal Conductivity – 0.14 - 0.18 W/mk
6. Sound Insulation Index – Up to 46 dB for 100 mm thick wall and up to 52 dB for 230 mm wall.



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### Benefits

1. Lightweight ( Reduces structural load by 40-50 % )
2. Environment-friendly ( accredited by Leadership in Energy and Environmental Design (**LEED**) and US Green Building Council (**USGBC**) as a "**GREEN**" alternative to traditional construction materials. Indian Green Building Council (**IGBC**) also recommends its use in India )
3. Excellent thermal insulation properties
4. Excellent sound Insulation properties
5. Superior compressive strength ( earthquake resistant )
6. Non-Reactive ( strong chemical resistance against acidic and alkaline substances )
7. Fire-resistant
8. Resistant to water absorption
9. Termite and pest resistant
10. Easy to modify ( can be carved, drilled, nailed and shaped easily )
11. Concealed or conventional wirings and pipes can also be installed easily.
12. Easily coated with plaster or paint to decorate the walls as required.
13. Saves overall construction cost ( mortar expense is reduced to 70 % )
14. Coping vertically or horizontally NOT required till 10 feet of masonry
15. Easy installation with regular cement mortar

