

## Green Premium Solid Construction ECA Block



## 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

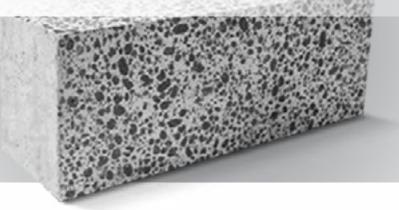
9″ Blocks	4″ Blocks
<ul> <li>Size: 600 X 200 X 230 mm (Inch : 24" X 8" X 9")</li> <li>Weight: 18 - 19 Kgs app.</li> <li>1 CTM: 36 Nos of 9" Blocks</li> <li>1 Square Feet: Requires 1.3 Nos of 9" Blocks</li> <li>1 Square Meter: Requires 8.33 Nos of 9" Blocks</li> <li>1 CFT: Requires 1 Nos of 9" Blocks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

### **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 %)
- Environment-friendly (accredited by Leadership in Energy and Environmental Design (LEED) and US Green Buildin 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 feets of masonry
- 15. Easy installation with regular cement mortar





