



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.

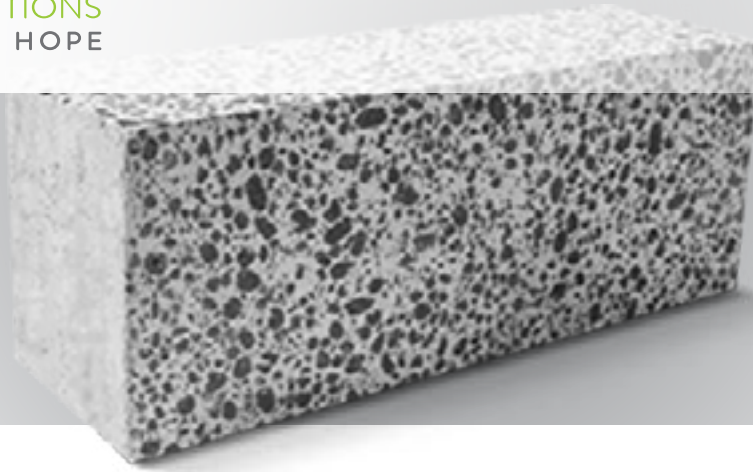
It also offers no reduced shrinkage and a superior fire and chemical resistance adding to several advantages including durability, versatility, speed and ease-of-use as well as cost benefits and environmental considerations.

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

9" Blocks	4" Blocks
<p>Size: 600 X 200 X 225 mm (Inch : 24" X 8" X 9")</p> <p>Weight: 18 - 19 Kgs app.</p> <p>1 CTM: 36 Nos of 9" Blocks</p> <p>1 Square Feet: Requires 1.3 Nos of 9" Blocks</p> <p>1 Square Meter: Requires 8.33 Nos of 9" Blocks</p> <p>1 CFT: Requires 1 Nos of 9" Blocks</p>	<p>Size: 600 X 200 X 100 mm (Inch : 24" X 8" X 4")</p> <p>Weight: 7 - 8 Kgs app.</p> <p>1 CTM: 86 Nos of 4" Blocks</p> <p>1 Square Feet: Requires 1.3 Nos of 4" Blocks</p> <p>1 Square Meter: Requires 8.33 Nos of 4" Blocks</p> <p>1 CFT: Requires 2.5 Nos of 4" Blocks</p>

Technical Specifications

1. Dry Density : 600-750 Kg/m³ (average value = 700 Kg/m³)
2. Drying Shrinkage : 0.005%
3. Compressive Strength – 3.5 to 5.0 N/mm² (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.



Expanded Clay Aggregate (ECA) BLOCKS FOR CONSTRUCTION

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

