

AAC PRODUCTION PLANTS

AAC Blocks and Panels in today's Market Place

AAC is one of the major achievements of the 20th century in the field of wall construction. It is a revolutionary material offering an unique combination of high durability and strength, low weight, unprecedented buildability and superior ecological green features. AAC is the material of choice for all building applications, including homes, multi-family, seniors housing, hotels, commercials, schools, hospitals, sports halls, etc. – an excellent building material for all climatic conditions. It is used for all walls, external or internal, loadbearing or non-loadbearing walls, basement walls, infill walls to framed structures, party walls, fire break walls, etc.

Raw Materials

AAC is made from naturally existing materials that are found everywhere – lime, fine sand or other siliceous materials, water, anhydrite and a small amount of aluminium powder plus cement.



Perfect insulation and easy application with AAC blocks

Ecological Green Building Qualities:

- energy efficient
- best thermal insulation, 6 to 10 times better than regular concrete = heat and aircon saver
- environmentally friendly, non-toxic
- unsurpassed fire-resistance =
 - life saver
 - property saver
 - insurance cost saver
- excellent sound absorption, ideal for the hotel industry
- production process develops non-toxic gases
- no waste of raw materials (water, fresh cut-offs, etc. are all fully recycled into production)
- industrial byproducts like PFA (pulverized fuel ash = fly ash) of coal fired power plants can be used and are turned into useful building materials
- recycling of breakage, rejects, etc.
- lowest energy consumption per cbm (cft) during production in comparison to other wall building materials
- saves resources: 1 m³ (1 cft) of AAC requires 0,2 – 0,25 m³ (0,2 – 0,25 cft) of raw materials only

Economic Qualities:

- competitive price = high economy
- high durability = long life, impervious to rot or pest
- hurricane and earthquake resistant
- increased comfort and functionality of the building

Physical Qualities:

- good workability, better than wood (can be sawn, drilled, nailed, milled on site)
- large in size, however light weight = considerable savings of structural costs (loadbearing walls, foundation, piling etc.)
- low weight results in easy handling and rapid laying by the mason
- high load-bearing strength
- dimensional accuracy

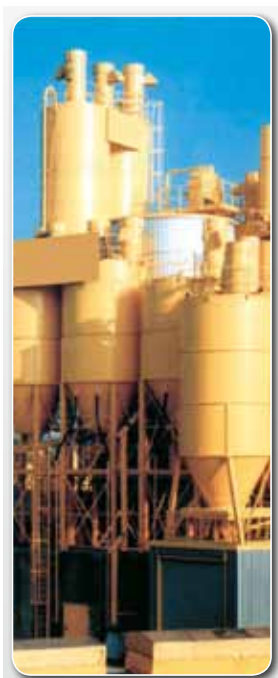


Beautiful and energy saving construction with AAC blocks and panels



Reinforced AAC wall panels for speedy constructions

DRY MIX MORTAR PRODUCTION PLANT (for Glue Plaster and Stucco)



What is Dry Mix Mortar?

- Dry mortar is a well-mixed blend of various raw materials and is supplied as a ready mix in bags or in bulk, ready to be stored and to be used at site.
- Stringent regulations to control and guarantee consistent quality of mortar have encouraged contractors in Europe not to rely on „home-made“ mortar.

What are the Benefits of Dry Mix Mortar?

- The easiest and safest way to ensure consistently high quality is a pre-fabricated dry mix mortar.
- Quality variations due to variations of raw materials or poor on job-site mixing can be excluded and consequently cannot be contributed to the contractor. The quality is controlled by the mortar producer and guaranteed by a sophisticated dry mortar mixing plant.
- Only dry mix mortar plants can fulfill the increased demand of dry mortar in Europe. The use of prefabricated dry mortar on site keeps the contractor competitive. On-site mixing has practically disappeared.
- The same tendency is predicted worldwide over the next years as due to some recent construction disasters the demand for quality construction is expected to rise rapidly.

How to apply Dry Mix Mortar

- Dry mortar is simply mixed with water on the job-site. Application both, manually or automatically with rendering/plastering machines is possible.
- Masons appreciate the consistent quality of bagged dry mortar giving always the same application conditions.

WEHRHAHN Supplies:

WEHRHAHN supplies dry mortar plants suitable for practically all demands, such as:

- dry mix mortar and glue for aerated concrete blocks
- skim coat for aerated concrete blocks
- render/stucco and plaster for internal or external walls
- decorative stucco
- self-levelling floor screed for easy and accurate floor making
- adhesive for wall tiles

Capacities of Dry Mix Mortar Production Plants for Glue, Plaster and Stucco

- **Standard Plant:** Capacity 10 – 50 t/h
- **Mini Plant:** Capacity 3 – 5 t/h

Production Know-how and Mix Formula

The mix formulae can individually be developed in cooperation with a worldwide leading dry mortar producer.

Typical Raw Materials

- dried sand or alternatively limestone powder
- AAC hard scrap
- cement
- hydrated lime
- various additives depending on the application to get the mortar easier to use and to get a better quality

Dry mix mortar is for the wall builder what ready-mix concrete is for the concrete user.

– the best value –