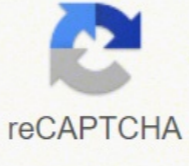




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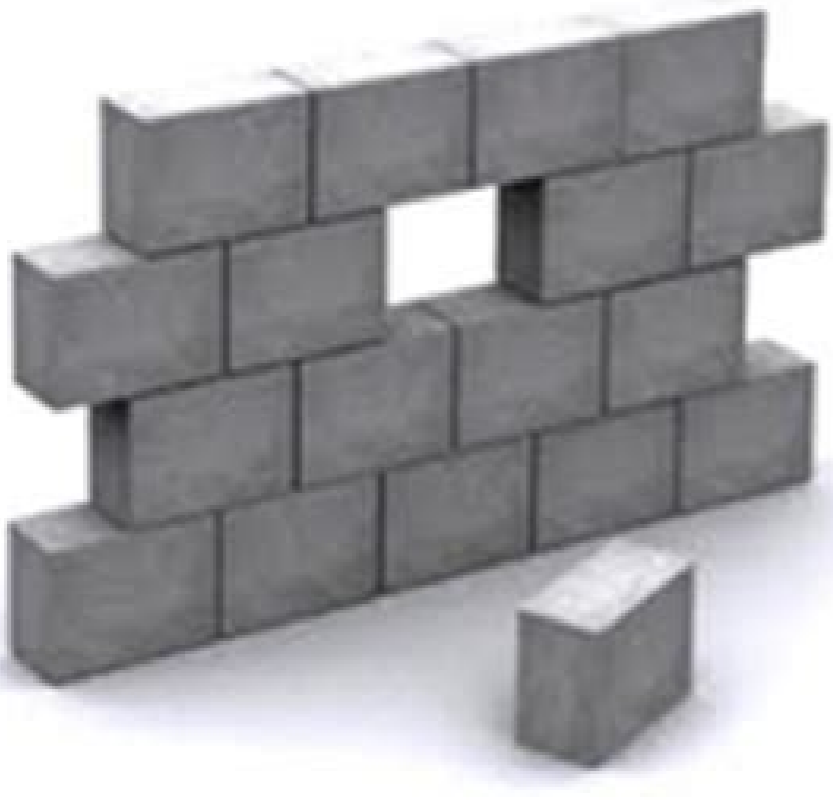
## AERATED AUTOCLAVED CONCRETE

Prepared by  
Ankit Patel  
SD 1110

### APPLICATIONS

- Residential Constructions
- Commercial Constructions
- Institutional Constructions
- Hotels and Hospitals
- Multi-storied Constructions





It is known that AAC structures maintain structural integrity in heavy rains, extremely low temperature and salted air. TÄ © emo AAC isolation offers excellent technical isolation. The AAC manufacturing process requires less energy is not contaminating and does not produce any waste product. These air pockets give AAC very good insulating properties. The use of autoclave aerated concrete blocks (AAC) in the construction industry in India offers an interesting proposal for several segments in society. Since AAC is to the curry, it is ready to be used as soon as it comes out of the autoclave. When using AAC, the separate materials are not required to meet these requirements leaving the lower energy footprint of a building. The primary raw material for AAC is the flight ash. Better technical insulation also allows the use of smaller HVAC than is conventionally required. The resistance to the open AAC does not decompose, is moxe, deteriorate or burn. Better insulation translates into a lower cost to heat and cool. Project Report AAC by Vishal Kansagra Vishal@aac-india.com (+91) 98796 09129 www.aac-india.com 4 easy workability AAC is very easy to work and can be reduced with precision by reducing the amount of Residues generated. The use of AAC eliminates the use of different materials for the structure, isolation and fire protection, since these requirements are met only using AAC. It is also known as self-locking cellular concrete (ACC) or autoclave light concrete (LAC). The process of AAC production is quite simple. The AAC respectful with the environment has excellent properties of technical isolation that lead to lower energy requirements for heating and refrigeration. The sand suspension is mixed with other ingredients as well as the suspension of Flying. Thousands of tons of fly ash are generated by thermal power plants every day and their disposal is a cause for concern. Millions of small air cells impart AAC blocks a very lightweight structure. AAC's thermal insulation cell structure creates millions of tiny air pockets. AAC products are are in in various shapes and sizes including but not limited to blocks, wall panels, floor and roof panels, and lintels. Environmental impact Manufacturing of AAC does not have high energy requirements. High survivability AAC Project Report by Vishal Kansagra Vishal@aac-india.com (+91) 98796 09129 www.aac-india.com 5 Millions of air pockets in AAC cushion structure from major force and prevents progressive collapse of a building. This translates into less dead weight of buildings and allows entire structure to be lighter therefore reducing amount of steel and concrete used in structural components like beams, columns and roof/floor slabs. This reduces recurring cost of energy required for heating and cooling. Most of the AAC companies in India use fly ash to manufacture AAC blocks. Versatility AAC can be used to make any design, be it carving or irregular shapes. For environmentally conscious it means eco-friendly products and for those who occupy buildings built with AAC blocks it means better safety and lower energy costs for cooling or heating. In fact using fly ash takes care of issues related to disposal of fly ash. 8 wall made from AAC blocks can resist fire for up to seven hours. It is made with made with a mixture of fly ash, lime, cement, gypsum, an aeration agent and water. Longevity AAC does not lose strength or deteriorate over time. Fire Resistance AAC offers amazing fire resistance. Sound Insulation Sound absorption properties of AAC make it ideal material for reducing ambient noise. Ease of Use AAC blocks are very easy to work with. Since AAC is made from fly ash an industrial waste product generated by thermal power plants, it offers a low cost and sustainable solution for today and tomorrow. Advantages of using Autoclaved Aerated Concrete Lightweight AAC blocks are about 50% lighter than clay bricks of equivalent size. AAC serves as one stop solution for structure, insulation, and fire protection. Yes, AAC They are lighter than water and literally float over water. A thick ball mill finely crushes the sand with water converted it into sand mud. Only product solution Buildings built with AAC do not require separate insulating products that reduce construction costs, energy footprint and environmental impact of buildings. The buildings built with AAC do not require routine repairs that buildings that use clay bricks. Contributed to the Nation The AAC Factory creates many direct and indirectly creating a social impact. Therefore, the use of fly ash to produce CCA products provides a sustainable, economic and environmentally friendly option. The structures constructed with AAC have a long useful life and retain a good finish even after decades. Aeration process, impart a light cellular structure. AAC Project Report by Vishal Kansagra Vishal@aac-india.com (+91) 98 796 09 129 www.aac-india.com 1 Brief Report on Aerated Concrete Products Autoclave by Vishal Kansagra Project Report AAC by Vishal Kansagra Vishal @ aac-india.com (+91) 98 796 09 129 www.aac-india.com 2 Chapter 1: Introduction to Aerated Aerated Concrete Products Autoclave (AAC) Summary The AAC was invented in mid-1923 in Sweden. The so-formed purity is mixed with other ingredients such as lime powder, cement, plaster and aluminum powder in quantities according to the recipe. In addition, the use of fly ash does not damage the environment at all. Comparison between Aerated Concrete Blocks Autoclave (AAC) and clay bricks AAC series parameter Blocks of clay Bricks 1 Soil consumption uses flying ash which is a waste product of thermal plant and therefore no superior soil consumption A square foot of carpet area with clay brick walls 25.5 kg upper floor 2 Clay consumption 2 Fuel consumption A square foot 2 of carpet area with AAC blocks will consume 1 kg of carbon a square foot of carpet area with clay bricks will consume 8 kg of carbon 3 emission of CO2 A square foot of carpet area will emit 2.2 kg of CO2 a square carpet carpet foot sodicudorp selaicepse CAA ed saÄ±Äapmoc sanuglA .etropsnart ed solucÄhev etnaidem sadicuder 2OC ed senoisime sal a ecudnoc y etropsnart le arap adireuqer aÄgrene arroha n©Äibmat .oregil osepe ed se CAA euq odad .sÄmedA .allicra ed sollirdal sol noc nÄacarapmoc ne odipiÄr sÄÄm %05 CAA noc riurtsnoc nedeupe es sotroc sÄÄm sotceyorp sol ed nÄicarud ed soicifide sol .aterid aicnetepmoc al etnaidem o CAA ed acirbÄf al ne onif ovlop la azilac ardeip ed nÄicarutirt al etnaidem eneitbo es CAA ed nÄiccudorp al arap odireuqer lac ed ovlop ne lac ed ovlop IE .selairetam sorto noc odiurtsnoc ralimis rosorg ed derap anu euq otla sÄÄm ohcum se CAA noc odiurtsnoc derap anu ed odinos ed otneimalsia IE anera r o oleuv ed azinec al omoc ecilÄs ne ocir lairetam nu se CAA ed seuqolb ed nÄaicacirbaf al arap anera ed evall al ed etneidergmi o accsom ed azinecÄ amirp airetamÄ amirp airetamÄ : 2-OLUTÄPAC 6 moc.aidni-caa.www 92190 69789 119+( moc.aidni-caa@lahsiv argasnak lahsiv rop CAA otceyorp led emrofnI otneimairfne y nÄicacafelac arap %03 nu etnemadamixorpa aÄgrene ed orroha 31 onugnIn otercnoc y oreca ne sorroha x ecudnoc euq oseP sotreum ne otsoce ed solcificeneb ed nÄiccuderÄ 21 saroh 2 ed todederla saroh 7 atsah ed ) 8 ed derapt ogeuf la aicnetsiser 11 3m / gk 0081 3m / gk 007-055 aces dadisneD 01 2m / N 3-5.2 2m / n 4-5.3 nÄiserpmoc al a aicnetsiser 9 ) /Ä( mm 5 )/Ä( mm 5.1 ed nÄicairÄV 8 mm 56 x mm 001 x mm 522 mm 003-001 x mm 042 x mm 526 oÄÄamaÄ 7 onreiboG led osceÄ la eyubirtnoc on iortCO y AVI .lartneC sosicÄE ed amrof ne selatnemanrebug soteupmi sol a eyubirtnoc lasif nÄicubirtnoc 6 socixÄÄt sesag sol a odibeD serbulasni ojabart ed senoicidnoC nÄicareneg amitPÄÄ ed acirbÄf ed acirbÄf nÄiccudorp ed senoicalatsni 5 litnafni ojabart led etnapmar osu nu noc odazinagro on rotces le arap sodauceda sonamuh sosruceer ed sacticÄÄrp sal noc 4 2OC ed ojabart le rop odazinagro rotces led gk 6.71 ÄÄritime For acoustic insulation. AAC is manufactured with industrial waste as fly ash and pond ash. For a project developer, it means a rapid and lower construction. The use of AAC is a necessity for any project of ecological building. Easy transportation is easy to transport AAC, since it does not suffer a high-traffic break generally associated with clay bricks. 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