Plastic Fibre Reinforced Soil Blocks As A Sustainable

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Plastic Fibre Reinforced Soil Blocks

Stabilisation of the soil was done by adding cement, lime and their combination. Plastic fibre in chopped form from carry bags and mineral water bottles were added (0.1% & 0.2% by weight of soil) as reinforcement. The blocks were tested for density, and compressive strength, and observed failure patterns were analysed. Blocks with 0.1% of plastic fibres showed an increase in strength of about 3 to 10%. From the observations of failure pattern it can be concluded that benefits of fibre ...

Plastic Fibre Reinforced Soil Blocks as a Sustainable ...

Plastic fiber in chopped form from carry bags and mineral water bottles were added 0.1% and 0.2% by weight of soil as reinforcement to enhance the strength of soil blocks. The block made of 0.1%...

Plastic Fibre Reinforced Soil Blocks as a Sustainable ...

(PDF) Plastic Fibre Reinforced Soil Blocks as a Sustainable Building Material | IJOART Editor - Academia.edu Solid waste management, especially the huge quantity of waste plastics, is one of the major environmental concerns nowa-days.

(PDF) Plastic Fibre Reinforced Soil Blocks as a ...

Plastic Fibre Reinforced Soil Blocks as a Sustainable Building Material. Author. C K Subramania Prasad, E K Kunhanandan Nambiar, Benny Mathews Abraham.

Subject. International Journal of Advancements in Research & Technology Volume 1, Issue 5, October-2012. Keywords.

Plastic Fibre Reinforced Soil Blocks as a Sustainable ...

To achieve this, the physical, durability and mechanical properties of the fibre reinforced soil bricks were studied. The study thus reports the results of an exhaustive experimental investigation by the authors of natural fibre reinforced soil bricks at 14, 28, 56, 90 and 180 days.

Constitutive models for fibre reinforced soil bricks ...

In the case of fibre reinforced mud blocks, the moisture movement behaviour becomes more complex as it contains randomly oriented plastic fibres. This paper deals with the investigation of the sorption related properties of soil specimens as influenced by the Moulding pressure,

Cement content, type, length and quantity of fibres.

Sorption characteristics of stabilised soil blocks ...

Polymer such as polypropylene (PP) reinforcement in the form of discrete fiber is a popular and well established method of soil reinforcement. PP fibers are used to increase shear strength, to minimize volumetric shrinkage and swelling of soil.

Polypropylene Fiber Reinforced Cohesive Soil - Constro ...

Considerable improvement in strength (compressive strength @19% and tensile strength @ 9%) and durability characteristics were exhibited by the new fiber reinforced lateritic blocks (FRLB) with fiber content of 0.5%. These blocks can be successfully proposed for load bearing construction and as well as for earthquake resistant structures.

STABILIZED LATERITIC BLOCKS

REINFORCED WITH FIBROUS COIR ...

Fiber reinforced soil wall after grass cover has germinated. The fiberglass roving is an effective tackifier, promoting seed adhesion and root penetration Geofibers© are expandable polyproylene strands that are mixed with soils to increase their shear strength. Typical mixtures vary between 0.1 and 0.4% by weight.

SOIL FIBER REINFORCEMENT - Missouri S&T

Concrete block, 4-inch hollow core: 1.11 : See citations at "Masonry" below: Concrete block, 8-inch hollow core: 1.04 - 2.18, commonly 1.04 30 [30] Concrete block, 12-inch hollow core: 1.90 [need citation] Concrete block, lightweight 8-inch: 2.2 : Carpeting with fiber padding: 2.08 30 : Carpeting with foam padding. 1.23 30

R-Values of Materials: Table of Insulation R-Values and ...

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FRP Blocks - Fiber Reinforced Plastic Blocks Latest Price ...

enhancement, stabilisation or reinforcement of soil blocks or bricks for construction purposes. One study (Hejazi et al., 2012) reviewed the history, benefits, application; and possible executive problems of using different types of natural and/or synthetic fibres in soil reinforcement.

Performance Characteristics of Enhanced Soil Blocks

A wide variety of natural and synthetic fibres has been used for soil reinforcement [Yetgin 2008]. Mud bricks reinforced with plastic fibres, straw, and polystyrene along with a mix of clay,...

Investigation of fibre reinforced mud brick as a building ...

Casting fiber reinforced SSM blocks of standard size 23cmx10.8cmx10cm □ Cast FRSSM blocks are covered by gunny bag and kept under shade, water content/moisture content is maintained by sprinkling water frequently. □ The cured FRSSM blocks are subjected to compressive strength, water absorption test, split tensile strength.

Soil Stabilised Mud Blocks Reinforced With Treated With ...

SOIL REINFORCED WITH WASTE PLASTIC Plastic waste when mixed with soil behaves like a fiber reinforced soil. When plastic waste/fibers are distributed throughout a soil mass, they impart strength isotropy and reduce the chance of developing potential planes of weakness.

Fibre Reinforced Soil - SlideShare

Mud block with 5% cement & 3% straw fibre showed more compressive strength

than the mud block reinforced with plastic fibre (3%). The size of fibre used in the experiment for straw fibre and plastic fibre were 2.5 cm. TABLE 2- RESULTS OF COMPRESSION TEST ITEM WEIGHT (KG)

STUDIES ON STABILIZED MUD BLOCK AS A CONSTRUCTION MATERIAL

Moreover, cost comparison between un-burnt fiber-reinforced bricks, un-burnt bricks without fibers and burnt bricks without fibers was also carried out in order to demonstrate the potential applicability of un-burnt fiber-reinforced compressed earth bricks in the remote areas.

Jute Fiber Reinforced Compressed Earth Bricks (FR-CEB) – A ...

Fibre reinforcement improves the physical properties of the reinforced soil blocks. The results indicate that the performance of Jute fibres is better than that of Banana fibres. Density reflects

the packing of the fibre and the earth material in the block. This is an indirect indicator the carrying capacity of the block.

Earth Building Blocks Reinforced with Jute and Banana Fiber

When the raw material (plastic block, rubber block, plastic sheet, or granules) contains reinforcing fibres, a compression molded part qualifies as a fibre-reinforced plastic. More typically the plastic preform used in compression molding does not contain reinforcing fibres.