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Sand lime bricks cost

Bricks of sand and lime are made of sand, lime and water (without additives). High pressure on the mixture and autoclaving afterwards produces solid white building material. Good acoustic insulation, good accumulation of heat and moisture as well as excellent fire resistance are the main parameters for architects to prescribe lime sand bricks for any construction project. High-strength bricks are often needed for heavy load-bearing walls. Exterior walls and interior walls usually need thermal and sound insulation, because designers aim to achieve multiple advantages for the entire building using the same type of wall building material. Masonry must be profitable, not only in terms of the bottom, but also as a building material. Sand lime brick is a pre-walled building material that simultaneously provides structure, thermal insulation and sound insulation. SLB is produced by mixing lime, sand and water into the batch process, where lime must react in due course with fast lime to develop early green strength before entering the autoclave. Quick lime – which has specific chemistry, reactivity and fineness – is one of the key elements in the process of pouring sand and lime products. Lime mortars and renders have a similar linear expansion coefficient to sand and lime bricks, thereby avoiding cracking on the surface. See our references The phenomenon in the construction and use of white silicate brick refers to the first decade of the 20th century. The production of white silicate brick does not cost much, the main thing that was nearby was the source of raw materials for its production. But real sand-lime brick is a widespread use and popularity in the 50s of the last century. Two words about production technology ^ blocks of quartz sand, lime and water. In this case, the proportions of sand and lime are about 9:1, add various binder additives to the mixture in small quantities that improve the characteristics of the finished product. The mixture of lime and sand by dry pressing is transformed into rectangular blocks, and then treated with water vapor at a temperature of 170°C to 200°C with constant high pressure, called method – autoclave. So get a white silicate block. Dimensions of sand and lime block, its main purpose ^ Characteristics, including size and weight, material meet the requirements of GOST 30108-94 «Building materials and products». In accordance with this regulatory document, standard sizes of white silicate brick are determined. The block of sand/lime is a solid, hollow and porous core. Brick used in the construction of external walls and interior load-bearing walls, hollow can be used for external cladding of the building. For the purposes of white lime stone is divided into two main types: Private (used for walls of walls that are faced other materials). Because the presence of small amounts of cracks, chips or the edges, dull edges is allowed; Front (he's facing). There should be no damage to its surface. Face brick can be produced with a smooth or rallying surface. There are also uncolored and painted options such as brick. Council! Before you start buying white silicate brick, consider what will be used. The material is not suitable for walls and basements construction. Nomenclature and unit dimensions ^ In accordance with the requirements GOST white silicate brick is produced in one and semi-double. The standard size of white silicate brick individually: height 65 mm, length 250 mm, width 120 mm. white silicate Brick single has a size: height 88 mm, length 250 mm, shenéha 120 mm. One stone is produced in solid, hollow and carbonated. Double block – almost always hollow. It has dimensions: height 138 mm, length 250 mm, width 120 mm. The weight of white brick color depends on the density and degree of porosity: Ordinary individual 3.2 kg. One soldier in 3.7 kg; Double 5.4 kg; Front half from 3.7 to 4.3 kg; Double the weight of the face can reach up to 5.8 kg. The thermal conductivity of hollow block 0.56-0.81 W/m°C is slightly smaller than a full body of 0.65-0.88 W/m°C due to the presence of cavities. Usually, white silicate material is used in the construction of low houses and cottages on two floors, in the interior and exterior decoration of high-rise buildings, depending on the brand of brickwork. White silicate material is used for the construction of houses, storage and industrial premises, garages, country houses, and even fences. However, there are limitations to its use that are associated with its technical characteristics. White silicate brick tends to easily absorb moisture, and its strength is lowered and the fracture will appear much faster than under normal conditions. Thus, the white silicate block can not be used for laying foundations and building basements, building saunas, baths, showers, cellars and other places with high humidity. For masonry plinths GOST is recommended to use ceramic bricks. In addition, white limestone stone does not stand at a high temperature, more than 600°C. Every, does not take for the construction of fireplaces, stoves, chimneys and other structures that will heat above the specified temperature. Keep in mind that due to the high thermal conductivity, the white block will give heat from your home very quickly in the cold season, so the walls need more insulation. Technical characteristics of white silicate brick ^ Key features of white silicate brick are regulated GOST 379-95 «Bricks and stones silicate». But in reality the quality of bricks and ceramics of his fellowmen largely depends on the raw material and production used. The power of masonry ^ Main brick is its durability. At the strength of the silicone, the material is separated into a number of categories from 75 to 300. Figure 75, 125, 200 and 300 indicates which compression load at 1 cm² can withstand building material. Bricks with a capacity of 125,150 are used in the construction of houses up to two floors. When the wet strength of the silicate mass blockage falls. An important characteristic of silicate construction is frost. Frost resistance is indicated F15-F50. The figure shows that the number of consecutive freezes – razmerzaniya withstands the material. Studies have found that over time, the strength and frost resistance of silicate mass grows at the expense of air-exposed carbonation processes. Frost resistance is increased by adding a special mixture of scattered fractions, as a result moisture freezes inside the stone, which reduces the processes of their destruction. Thus, the rate of frost increases. The control behavior of silicate masonry exposed to atmospheric influences has shown that over time calcium silicate involved in the composition of the material is converted into carbonates and silicone acid, and they constantly attach brick components. Thus, it was determined that the time stone was sufficient. The density of white silicone should not be less than 1300 kg/m³, and the most appropriate density – 1600 kg/m³ to 1800 kg/m³ for solid blocks. For core mark M150 – 1450 kg/m³, M200 – 1550 kg/m³. The density depends on the degree of sound insulation, the lower the density of the brick, the higher the sound insulation index. Transport and storage white unit ^ For the transport of silicate building materials can be any available transportation, the main thing – to be transported or packed in a tape with a packing tape, or folded on pallets, but do not blame nasyip, do not give up. Storage should be either in warehouses or in closed areas of moisture under cover. Advantages and disadvantages of white brick ^ The white block of sand and lime has an ordinary geometric shape, easy to process (like Hyper), easier to process than ceramics and clinker brick. Good sound insulation allows you to use it for masonry interior partitions. The thickness of the wall at 120 mm is enough to ensure the necessary sound insulation of separate rooms. An important advantage of white stone is its low cost compared to ceramic. Also, this building material is considered environmentally safe, practically no harmful to the impurities of human health. Fire resistance up to 600°C allows it to be considered fireproof materials. The advantages of white silicate brick are also high strength (75 to 200 kg/cm²) and frost resistance to 50 cycles. In addition, over time, a building made of sand lime brick acquire resistance to strength and frost. It is associated with carbonation processes inside bricks under the action of atmospheric processes. On the walls, built of this material, practically no spout. Disadvantages include the high conductivity of this type of material in cold areas must be concerned about the additional insulation of such buildings. Conductivity increases when a wet brick wall, therefore recommend the application of special waterproofing agents (a solution to prevent moisture from being entered into masonry). The disadvantage is also quite heavy compared to other bricks (3.3-3.6 kg individually and 4-4.5 kg-half). It's hard for bricklayers. Also in stock this product is not different color options, as we have seen in the lines of other types of materials. The standard rectangular block in white, they are painted brown, yellow, black. Also there is no variety of geometric shapes, put something excellent, such a brick would be difficult. A high degree of water absorption does not allow use for basements, foundations, basement floors. Conclusion ^ Practice shows that silicate material is successfully used in the northern latitudes and in the south. Strength and good durability that will allow you to build a durable and solid house, but with proper waterproofing of the foundation blocks. By installing internal partitions and walls, material success can replace gipsy blocks, taking part of the vertical load from the upper floors and roof. Content related to

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