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Types of foundation bolts pdf

During construction or renovation, the strength and stability of the building are fundamental. Thanks to the use of foundation bolts, you can securely fix the supporting columns in the building, as well as securely fix the necessary equipment. The principle of operation of such anchoring fixes based on "anchor". Despite the fact that each type of foundation is a durable and reliable system, it is recommended to connect it to the walls using specially designed fasteners. They're foundation bolts. They are inserted in the structure before the cement is poured or after it. In this article we will describe in detail the nuances of their installation. In construction, for fixing reinforced concrete structures or steel at the base, special fixing - anchor bolts are used. Their use significantly increases the stability of the building itself. But also foundation bolts allow securely fixing the bearing columns and other necessary elements of the built object. Their operating principle is based on the type of anchor built in the construction of the building material itself, firmly fixed with it. It is very important to choose the right anchors. The production of these fasteners is carried out according to a special document. - is known to all professional manufacturers GOST 24379.1-80. Crashing in the foundation of a building, anchor bolts create a strong joint that canheavy loads (dynamics and static). But this is subject to construction technology. To ensure all this, in the manufacture of exclusively high quality materials applied. On the top of the bolts are also covered with a zinc layer, which protects against environmental influences. The anchor is used for the construction of the foundation of various types. Therefore, these products can be different: size, steel grade, weight and length. Today, in the internal market of this segment, these products are presented from 15 cm to 5 meters. As for the types of foundation bolts, they are classified in different types. Curved. They are executed in the form of a metal bar, one of which has a curved shape. Outside, looks like a hook. Intend for installation in the reinforced concrete basement and the connection of large equipment. Composed. Their length can reach several meters. The structure consists of elements such as a threaded bar, anchoring plate, coupling, nut and metal pin. These fasteners are used in case there is the need to perform the screed two structural elements. One end is in the concrete, and the other is screwed into the sleeve. The diameter of the composite bolt is different (M16, M20, M24, M28, M30, M36, and others). You can choose from a special table. Straight lines The bolt design is similar to a normal metal pin. There's a wire at one end. Its length can be 140 cm. A distinctive feature here is the fact thatStraight bolt can be mounted in a ready foundation. for their reliable fixing, a special adhesive or concrete composition is used. curved compound straight lines with a special anchor plate. the manufacture of such fasteners is based on the current gost 24379.1-80, part of the bolt is fixed before the foundation itself is justified. this is done by welding or threaded connection. a feature of this fixing is the size. can reach up to 5 meters. removable type. There is a special anchoring system. with its help, reliable fixing in a reinforced concrete, brick or foundation stone is carried out. thanks to this fixing, you can install different engineering structures. the lower bolt clip is laid in the foundation, and the upper edge with wire is mounted after completion of the concretion. with a conical tip. the bolt of the glue is mounted directly in the foundation. the destination area - fixing of wall boilers, pieces of furniture and much more. thanks to the special collection of the type of expansion, welded when tightening, a strong and reliable fixation is guaranteed. with a special removable anchoring plate with a conical tip before proceeding with installation of this type of assembly, you need to calculate the bolts needed according to the project documentation. This is done to determine their performance. consider the distance from the edge of the foundation, as well as the depth of the hole. anchor bolts are keptto characteristics such as bond, support and friction. As for the stop, this is the load that the fixing assumes and compensates for its structural characteristics. The load provides friction. But the bonding is the compensation of these loads due to "tannic forces". But it is also worth paying attention to the fact that the anchor size along with the incorporation depth should not be greater than the foundation height itself. This is very important, otherwise at the time of tightening the bolt itself will occur a halting violation. You will not get the required reliability of such anchorage. The connection to the stove must be rigid and resistant. Before installing the bolt in the foundation, it is necessary to perform its visual inspection for any defects in the structure. The anchoring is not a complicated procedure. It can be done independently without the involvement of a team of professionals. However, for this it is necessary to follow a set of basic rules. Carefully study the construction plan and determine the exact location for installation of anchor bolts. Check the depth of immersion of this attachment in the already formed foundation. It should not be greater than its thickness. Make sure to consider the distance between adjacent fixing devices. The calculation is quite simple: these are two values of the depth of incorporation. Foundation bolts must be strictly vertical. The formation of the block of this type of attack. Afterwardshas completely dried, it is necessary to fix all ends of bolts with an iron plate or a edge with pre-drilled holes. due to this, the reliability of the entire structure will be high. if you fix anchors before filling the foundation, then it is also useful to calculate in advance their most accurate location according to the design of the building. If you doubt your skills, then installing anchor bolts is better to entrust these professionals in their field. this will not only save your strength, nerves, time, but also money for the repair of the entire structure. If you want to choose the highest quality anchor, then for this you should take into account the following main features: the load that the bolt is able to resist; required length; type of attack, based on the design characteristics of the foundation; type, resistance and structure of the base itself; the distance between the holes; bulky design and volume that you need to hang. if you have a removable design, the anchor reinforcement is mounted before you realize. studs are installed at the completion of the foundation jet. As for the size of the fixing, it is selected according to the weight and size of the structure itself. The larger it is, the longer the anchor bolt must be. its size can always be determined on the basis of the marking, the first digit here shows the outer diameter, the second - the inner diameter, and the third corresponds to the total length. as regardsof anchor bolts, it is the same everywhere. The exception is the hardware of the drive. There is no need to turn the nut, and hammer anchor with a hammer. Recommendations for the foundation and installation of key bolts in the next video. video. types of foundation bolts pdf. types of foundation bolts and their uses. types of foundation anchor bolts. types of foundation bolts ppt

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