



HAMMER BEAMS

Concrete hammer beams are used in flooring and roofing of brick or slab administrative, residential or public buildings.

Concrete hammer beams are designed for use in public buildings and administrative and residential structures with walls of bricks or larger blocks of local materials, erected in the course of regular construction.

Hammer beams are meant for flooring and roofing of the following buildings:

- unheated, heated, and heated with light fencing (with roofing slope up to 5%).

Hammer beams are used:

- in unheated buildings and in open air with ambient air temperatures down to minus 40°C;
- in buildings erected in the areas with seismic magnitude of under 7;
- in non-aggressive, moderate and mild atmospheres impacting the concrete works;
- in conditions of technological temperatures up to 50°C systemically impacting the works.

Hammer beams are subdivided into types:

- a) with the flange perpendicular to the rib of the beam, for buildings with roofing slopes up to 25%
- б) with the diagonal flange, for buildings with roofing slopes up to 25%

Hammer beams are usually made of M-250 or M-350 heavy concrete. There are two types of reinforcement used in hammer beams: pre-stressed (reinforced with pre-stressing rebar and a space frame; used on buildings with roofing slope up to 5%) and non-tensioned (reinforced with a steel space frame).

Concrete hammer beams are classified with such parameters as shape, dimensions, concrete grade and bearing capacity (bearable load). Hammer beams are measured in decimeters.

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