where the lintel rests on the walls; provided, the opening is not more than six feet in width.

Masonry arches.

13T. All masonry arches shall be capable of sustaining the weight and pressure which they are designed to carry, and the stress at any point shall not exceed the working stress for the material used, as given in this ordinance. Tie rods shall be used where necessary to secure stability. All exterior and division or party walls over fifteen feet high, excepting where such walls are to be finished with cornices, gutters or crown mouldings, shall have parapet walls not less than eight inches in thickness and carried two feet above the roof. But for warehouses, factories, stores and other buildings used for commercial or manufacturing purposes, the parapet walls shall be not less than thirteen inches in thickness and carried three feet above the roof. And all such walls shall be coped with stone, terra cotta or cast iron. In all walls that are built hollow the same quantity of stone, brick or concrete shall be used in their construction as if they were built solid, as in this ordinance provided. And no hollow wall shall be built unless the parts of same are connected by proper ties, either of brick, stone or iron, placed not over twenty-four inches apart. The inside four inches of all walls may be built of hard burnt, hollow brick, properly tied and bonded into the walls, and of the dimensions of the ordinary brick. Where hollow tile or porous terra cotta blocks are used as lining or furring for walls, they shall not be included in the measurement of the thickness of such walls.

Hollow tile or porous terra cotta blocks.

Recesses for stairways, etc.

13U. Recesses for stairways and elevators may be left in the foundation or cellar walls of all buildings, but in no case shall the walls be of less thickness than the walls of the fourth story, unless reinforced by additional piers with iron or steel girders, or iron or steel columns and girders, securely anchored to walls on each side. Recesses for alcoves and similar purposes shall have not less than eight inches of brick-work at the back of such recesses, and such recesses shall be not more than eight feet in width, and shall be arched over or spanned with iron or steel lintels, and not carried up higher than eighteen inches below the bottom of the beams of the floor next above. No chase for water or other pipes shall be made in any pier, and in no wall more than one-third of its thickness. The chases around said pipe or pipes shall be filled up with solid masonry for the space of one foot at the top and bottom of each story. No horizontal recess or chase in any walls shall be allowed exceeding four feet in length without permission of the Inspector of Buildings having jurisdiction. The aggregate area of recesses and chases in any wall shall not exceed one-fourth of the whole area of the face of the wall on any story, nor shall any such recesses be made within a distance of six feet from any other recess in the same wall.

Aggregate area of recesses, etc.

Thickness of concrete walls

14. The thickness of concrete walls shall depend on the materials that will be used in the walls, the method of mixing same, and the system of binders and anchors, also on provisions to guard against danger from expansion and contraction. Samples of the