

THE CITY OF NEW YORK
Intradepartmental Memorandum

To: Chief Engr. J. Drapkin
Engineering Examiners

Date: September 2, 1960

From: Thomas V. Burke, Borough Superintendent

Subject: Flat Plate
Construction.

It shall be required that every opening on each floor of buildings to be erected with flat plate or flat slab construction shall be shown on the approved plans. The exact dimensions and exact location from column bent lines shall be shown.

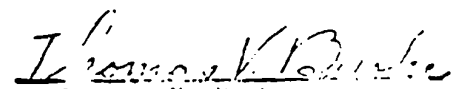
Examiners shall require that computations be submitted showing that the concrete and steel of the flat plate shall not be stressed above the limitations of the Administrative Code.

Reinforcing shall not be permitted to run through such openings as these openings are left open or are filled with material other than controlled concrete. Since the concrete, if it is subsequently placed in such openings, is not monolithic with the floor slab, it cannot be considered as carrying stress. Examiners shall review the computations and design of such openings with care. The entire design of flat plate construction, particularly in apartment house design where columns are not on regularly spaced bent lines, is a matter of assumptions as to how the flat plate will develop stress; and openings in such floors, especially in column strips and particularly where near columns, often make worthless the previous design, without openings. The interruption of the continuity of the steel and concrete may require redesign with beams of greater depth than the slab, or an increase in slab thickness, as well as additional reinforcing.

It should be noted again that all openings must be shown on the approved plans with exact dimensions and locations. Typical openings shall not be accepted.

TVB/df

CC: Comm. Reidy
Chief Insp. Lanese
A. Rader


Thomas V. Burke
Borough Superintendent

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