

circulating systems, this stack to leader area ratio is a very important consideration. Specific data for a great variety of cases are presented

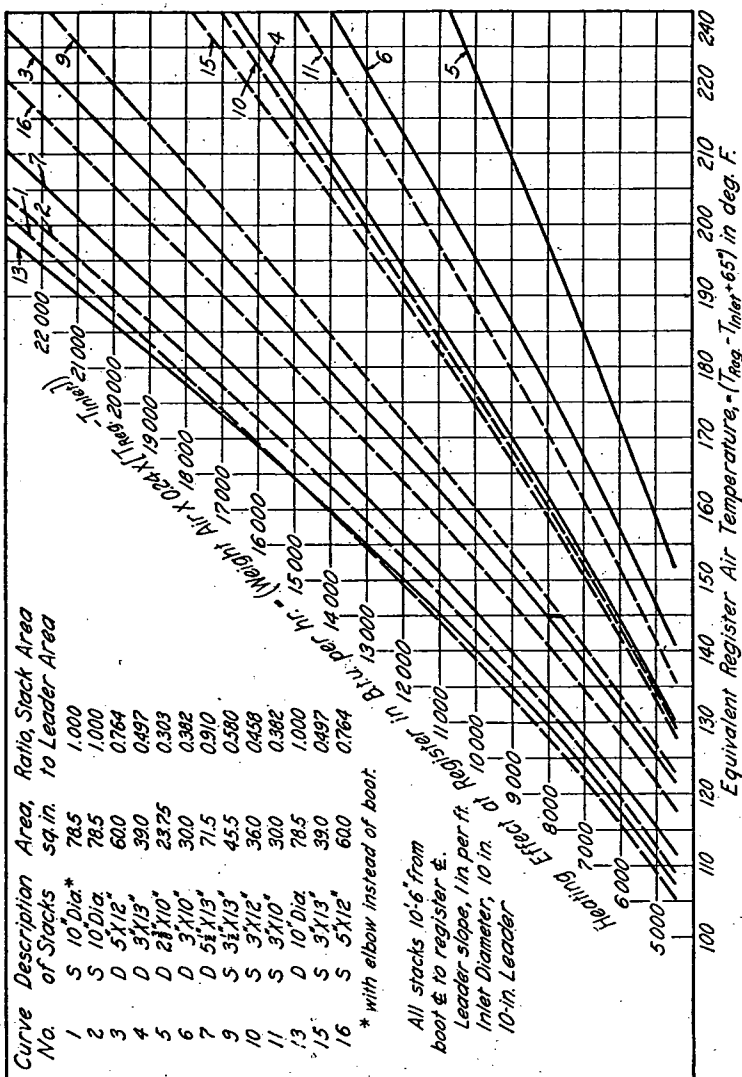


FIG. 4. HEATING EFFECT AT REGISTERS FOR VARIOUS STACKS WITH 10-INCH LEADER

in Figs. 4 and 5 and the designer should check the stack to leader combinations with the nearest comparable case as shown in these figures. Any second floor stack supplying heat to a room whose heat loss is 9,000

B.t.u. or above (see Figs. 4 and 5 which show that high temperatures are necessary if rooms of more than 9,000 B.t.u. requirement are heated

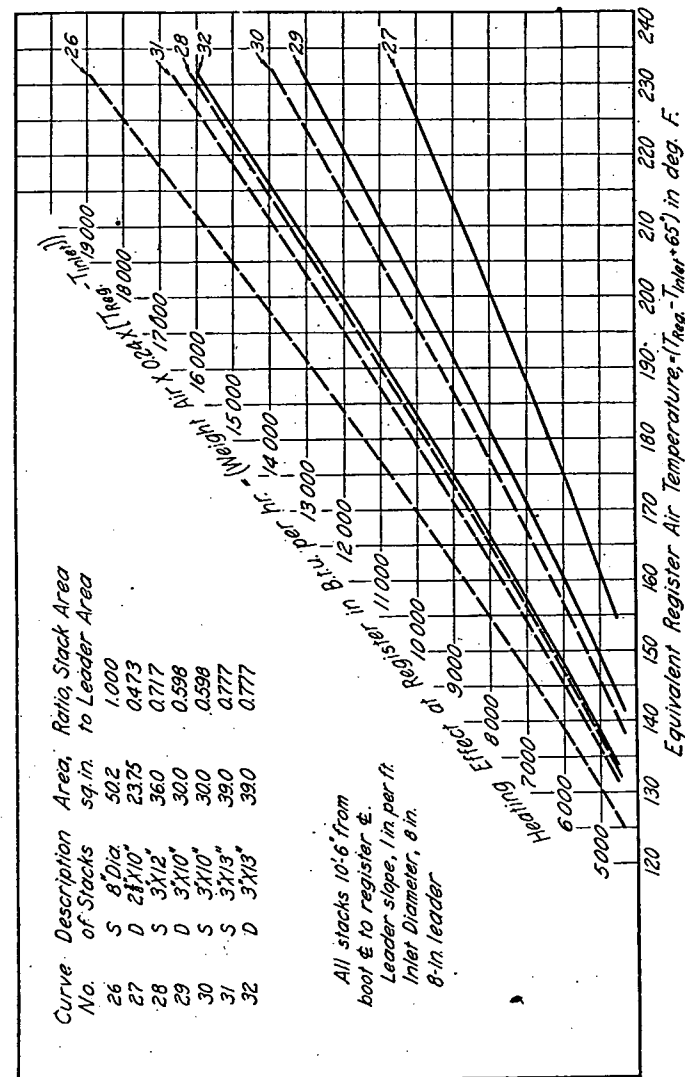


FIG. 5. HEATING EFFECT AT REGISTERS FOR VARIOUS STACKS WITH 8-INCH LEADER

by stacks in 4-in. studding), should be run within 6-in. studded walls or should have multiple stacks. Stack sections, wherever possible, should be changed from the thin rectangular to the more nearly square shape.