

# NATCO

## HOLLOW TILE FIREPROOFING

as used in the  
Construction of  
STANDARD  
STEEL FRAME  
FIRE-PROOF  
BUILDINGS

NATIONAL  
FIRE PROOFING  
COMPANY  
Pittsburgh, Pa.



## NATCO ROOF AND CEILING TILE

ON account of their shape resembling a book these tile are also called "Book Tile."

Where the roof is to be nearly flat and covered with concrete or tar and felt roofing they are commonly made of semi-porous material either 3 or 4 inches thick, according to the weight to be carried. Three inches is generally sufficient.

If the roof is to have considerable pitch, as in mansard roofs, or wherever slate or roofing tiles must be nailed upon them they should be 3 inches thick and full porous, their exterior webs to be not less than  $1\frac{1}{8}$  inches thick.

Care should always be used in the specifications for the steel frame work to call for the spacing of T's, to be 1 inch wider than the length of the tile; for example, for tile 24 inches long the T irons should be spaced 25 inches on centers. This is the spacing most commonly used.

Wherever the tile are not to be plastered on the inside or the T's protected, the tile may be cut square at their ends and be laid upon the flanges of the T's, but where the tile are to be plastered they must be rabbeted so that the bottom of the tile will drop a little lower than the flange. If the flange of the T is narrow the plaster will cover it without trouble, but where the flange is of considerable width it should be wrapped with metal lath before the tile are set. If 4-inch tile are used they may be rabbeted so that they drop 1 inch below the flange, and a soffit cover used as in arches.

Roof tile are useful for covering the flat roofs of pent houses, bulkheads, etc., but should seldom be used for the main flat roof of a building. The T irons, book tiles, wire lath protection of T's and beam protection together make a less satisfactory roof than the I beam and flat arch roof.

Where provision is made for future increase of height of the building, the flat arches are put in as for a floor and the roof grading and construction may be put in with T's and book tile.

There is really no difference between roof tile and ceiling tile. Roof tile are seldom rabbeted, ceiling tile generally are.

Wooden beams over boiler rooms are frequently fire-proofed by using 2-inch ceiling tile secured to the under side of the beams by screws and washers. This method is approved by the New York Tenement Commission.



3-inch Porous Book Tile  
Roof Tile



3-inch Porous Book Tile  
Ceiling Tile

## STANDARD SECTIONS



3-inch Porous Book Tile



3-inch Porous Ceiling



2-inch Porous Ceiling  
Book Tile



3-inch Semi-porous  
Book Tile



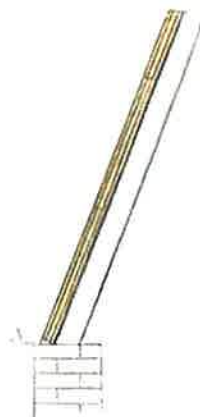
3-inch Semi-porous  
Ceiling



2-inch Semi-porous  
Ceiling B. T.

## STANDARD SIZES AND WEIGHTS

Roof Tile, Inches		Ceiling Tile, Inches	
3 x 12 x 18.....	20 lbs. per sq. ft.	3 x 12 x 16.....	20 lbs. per sq. ft.
3 x 12 x 20.....	20 lbs. per sq. ft.	3 x 12 x 18.....	20 lbs. per sq. ft.
3 x 12 x 24.....	20 lbs. per sq. ft.	3 x 12 x 20.....	20 lbs. per sq. ft.
4 x 12 x 24.....	24 lbs. per sq. ft.	3 x 12 x 24.....	20 lbs. per sq. ft.
Ceiling Tile, Inches			
2 x 12 x 16.....	12 lbs. per sq. ft.		
2 x 12 x 18.....	12 lbs. per sq. ft.		
2 x 12 x 20.....	12 lbs. per sq. ft.		



Roof and Ceiling Tile