

the inside, except when lined on the inside with pipe. No parging mortar shall be used on the inside of any fireplace, chimney or flue. The fire backs of all fireplaces hereafter erected shall be not less than eight inches in thickness, of solid masonry. When a grate is set in a fireplace, a lining of firebrick at least two inches in thickness shall be added to the fire back, unless soapstone, tile or cast iron is used, and filled solidly behind with fireproof material. The stone or brickwork of the smoke flues of all boilers, furnaces, bakers' ovens, large cooking ranges, large laundry stoves, and all flues used for a similar purpose, shall be at least eight inches in thickness, and shall be capped with terra cotta, stone or cast iron.

The inside four inches of all boiler flues shall be firebrick, laid in fire mortar for a distance of twenty-five feet in any direction from the source of heat. All smoke flues of smelting furnaces or of steam boilers, or other apparatus which heat the flues to a high temperature, shall be built with double walls of suitable thickness for the temperature, with an air space between the walls, the inside four inches of the flues to be of firebrick. All smoke flues shall extend at least three feet above a flat roof, and at least two feet above a peak roof.

On dwelling houses and stables three stories or less in height, not less than six of the top courses of the chimney must be laid in pure cement mortar and the brickwork carefully bonded and anchored together in lieu of coping.

In all buildings hereafter erected every smoke flue, except the flues hereinbefore mentioned, shall be lined on the inside of the exterior wall with metal or well-burnt clay, or terra cotta pipe, made smooth on the inside, from the bottom of the flues, or from the throat of the fireplace, if the flue starts from the latter, and carried up continuously to the extreme height of the flue. The ends of all such lining pipes shall be made to fit close together, and the pipe shall be built in as the flue or flues are carried up. Each smoke pipe shall be inclosed on all sides with not less than four inches of brickwork, properly bonded together.

Flues to residences may be inclosed on all sides with four inches of brickwork, provided they are plastered on the outside, clear of the roof, and no woodwork is within two inches of the outside face of the brickwork so plastered, and the flues are built straight from top to bottom and the bricks laid in cement mortar.

All flues in every building shall be properly cleaned and all rubbish removed and the flues left smooth on the inside upon the completion of the building.

SEC. 516. Chimney Supports.—No chimney shall be started or built upon any floor or beam of wood. 1b., Sec. 44.