

a 9 in. by 3 in. cast iron grating, one disposed at the top and one at the bottom of the wall. To prevent dampness penetrating the wall at the standards, the only solid part of the wall, the faces of the said standards 1 are water-proofed with a special preparation. The standards are checked, preferably about 2 in., the ends of the blocks 3 fit into the 2 in. check as illustrated in both figures, but in the first figure the surface of the standard 1 and the surface of the twin blocks 3 would be flush, both inside and outside the wall, while in the double standard system the surface of the standards would project beyond the flush of the blocks within the cavity. The standards are reinforced with quarter inch steel rods 7, bound together with wire stirrups 8, or other suitable reinforcement may be used such as boiler tubing. A bolt is set in the top of each standard for fixing the top plate. Similar provision is made for the lower end of the standards, or the reinforcement may be let into the foundation. In the chimney round-flue construction there are concrete standards 1 set at each corner of the breastwork; the spaces 9 between the said standards are built in with blocks 3b by a similar method as described in connection with the wall construction. Within the space thus formed the flue proper is built, which comprises concrete blocks 10, preferably about 15 in. square, with a 9 in. round hole 11 through each block in the centre thereof, so that when the blocks are built one on top of the other a round smoke-shaft is formed, the shaft is carried on a reinforced slab 12 or bearing supported in a position just above the grate-opening 13 by reinforced concrete work comprising two slabs 14 and a cross piece 15. There is a sheet-iron-concrete projector and smoke-director 16 fitted in the grate-opening 13, which directs the smoke to the round flue. The flue may be permanently lined with fireclay or fireclay pipes as indicated by broken lines at 17. The flue, instead of being built up in blocks, may be boarded in and the concrete poured round a mould or core, which may be of wood or other material, so constructed as to be easily moved when the concrete has set.

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