

Small cracks appeared as the load was put on. As the highest load was approached portions of the side of the pier spalled off, and finally shattered to fragments under the highest load.

Pier No. 10:

Description.. Yorkville white brick No. 2, with pinkish shade, laid in lime mortar with $\frac{3}{8}$ " joints.

Size of pier, $8\frac{3}{4}$ " x $8\frac{3}{4}$ " area, 76.5 square inches.

Length, 8 courses $23\frac{1}{2}$ inches.

Weight 105 pounds.

Age $2\frac{1}{2}$ months days.

Ultimate load 30,000 pounds.

Crushing strength per square inch 392 pounds.

" " " foot 28.2 tons.

Fine cracks appeared early in the test, which increased to long vertical cracks, running the length of the pier, portions of the brick spalled off, and under the highest load given above the pier was totally destroyed.

Pier No. 11:

Description.. Don Valley pressed brick, buff color, laid in lime mortar.

Size of pier, $8\frac{5}{8}$ " x $8\frac{5}{8}$ " area, 74.4 square inches.

Length, 8 courses 21 inches.

Weight 97 pounds.

Age $2\frac{1}{2}$ months.

Ultimate load 51,000 pounds.

Crushing strength per square inch 686 pounds.

" " " foot 49.4 tons.

As the highest load was approached, fine cracks appeared, which were confined to individual bricks, and were not continuous down the length of the pier; the fracture was rather of a crumbling nature.

Pier No. 12:

Description.. Don Valley pressed brick, red color, laid in lime mortar.

Size of pier, $8\frac{1}{2}$ " x $8\frac{1}{2}$ " area, 72.25 square inches.

Length, 8 courses $21\frac{1}{2}$ inches.

Weight 110 pounds.

Age $2\frac{1}{2}$ months.

Ultimate load 88,000 pounds.

Crushing strength per square inch 1,218 pounds.

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