sions given, 1100 cubic feet; and as there are 4 semi-ribs to this bridge, the number of cubic feet in them contained, is 4,400.

The dimensions of the cap-plates and archivolt-rails are as follows; 100 feet long, 12 inches square at the centre, and 14 at the abutment. 4 times 470.

The dimensions of the needles or horizontal levers, in this Bridge, are 100 feet long; 4 by 12 inches at the small ends, and 6 by 18 inches at the largest end. 4 times 210.

The average dimensions of the deck or floor of Bridge, is 28 by 100 feet, and will contain at 2 times 1,800.

The average dimensions of the deck and tie-beams will be 28 feet long. Their shape being somewhat in the form of a prism, in their section will average 6 by 12. 60 times 1,680

Allowance for working, and waste of timber 1,440

Total number of cubic feet of timber required for the two arms of a Bridge of the above dimensions, 10,000 at 2—2500.

Labour to do. at per cubic foot, the number of feet used in the arm with-