

ARCHES.

U shaped, having an area of
h piers or abutments, two
ed in each course, and the
cial cases, where deemed although they may be constructed on walls of second class work, they will be
g shall be in one thickness measured separately, and paid for at first class arch masonry prices. Arches of 8 feet
give a solid bearing. Npan and under will be classed and paid for as second class arch masonry. Arches of
tones there shall be a goach class will generally be semi-circular.
e stones must be scabbled.

64. A distinction will be made between arches of 10 feet span and upwards and Arches how classed.
65. First class arches shall be constructed of stones cut so that when laid, their First class
arrangement of the jointary with the span, but will never exceed thirty inches, they shall not be less in
length than 27 inches and they shall break joint 10 inches; their thickness on the
ge, flat bedded stones, laisoffit must be at least 9 inches and it shall be dressed to the circle. All the stones
ken coursed work. Thust be dressed to the full depth of bed so as to give truly radiated joints from $\frac{1}{16}$ to
not less in area of be of an inch, they shall be set without pinning of any kind and the end joints shall
inches, and they shall be properly squared. Each stone shall be full bedded in cement, and each course after-
In smaller structureswards thoroughly grouted. The outer ring stones shall be neatly worked with a chisel
t be had, they may, if draft around their edges.

All stones shall be laid
or in mortar, as may be

according to the span from 16 to 24 inches deep and with a minimum length of from Second class
16 to 24 inches, and 5 to 6 inches in thickness on the soffit, they shall invariably
alternately, at least on extend through the entire thickness of the arch. Each stone shall be well and closely
the wall. In the smaller nited so as to give half inch joints and shall break joint with its fellow 7 to 9 inches.
structures all stones must be The whole shall be laid in thin mortar, and each course shall be well grouted imme-
duce a perfect bond, and diately after being laid. The outer arch stones shall be as nearly uniform in thickness
as possible, of large size and neatly incorporated with the perpendicular face of the
masonry. The key stones shall be 10 or 12 inches on the soffit, shall have a chisel
draft around their edges, and shall project beyond the face of the wall 2 or 3 inches.

66. Second class arches shall be constructed of suitable flat bedded stones, ranging Second class
from 16 to 24 inches in thickness on the soffit, they shall invariably
alternately, at least on extend through the entire thickness of the arch. Each stone shall be well and closely
the wall. In the smaller nited so as to give half inch joints and shall break joint with its fellow 7 to 9 inches.
structures all stones must be The whole shall be laid in thin mortar, and each course shall be well grouted imme-
duce a perfect bond, and diately after being laid. The outer arch stones shall be as nearly uniform in thickness
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masonry. The key stones shall be 10 or 12 inches on the soffit, shall have a chisel
draft around their edges, and shall project beyond the face of the wall 2 or 3 inches.

67. Arches of each class shall be built in cement, and before being covered with Cement to be
earth or the centering removed, they shall be thoroughly flushed on the back, levelled used.
up and rounded to a moderately even and smooth surface with cement.

68. Centering for arches shall in all cases be well formed, of ample strength, Centering.
securely placed in position and in every respect to the satisfaction of the Engineer.

The ribs shall not be placed farther apart than 3 feet in any case. The laggings shall
be out to a scantling of 3 inches square. The supports of centres shall be substan-
tial and well constructed, and they must be provided with proper wedges for easing
centres when required. Structures having more than one arch shall be provided with
as many centres as the Engineer may deem proper, and in no case shall the centres
be struck without his sanction. Centering and scaffolding of all kinds shall be provi-
ded by the Contractor and the cost must be covered by the price for the masonry.

69. All masonry shall be neatly and skilfully pointed, but if done out of season Pointing.
or if from any other cause it may require repointing before the expiration of the