

Span.—The horizontal distance between the reveals of the supports.

Rise.—The vertical distance between the springing line and the highest point of the intrados.

Centre (or Striking Point) and Radius (see Fig. 13).

Depth or Height.—The normal (perpendicular) distance between the extrados and intrados.

Thickness.—The horizontal distance between and at right angles to the front and back faces ; it is sometimes referred to as the *width* or *breadth* of the soffit.

In some districts the term "thickness" is considered to have the same meaning as "depth"; to remove any doubt, the arch at A and B, Fig. 15, would be specified as being a "flat gauged arch, 12-in. deep with 4½-in. wide soffit, to a 3-ft. 9-in. opening."

Bed Joints.—The joints between the voussoirs which radiate from the centre.

Spandril.—The triangular walling enclosed by the extrados, a vertical line from the top of a skewback, and a horizontal line from the crown ; when arches adjoin, as in Fig. 13, the spandril is bounded by the two outer curves and the horizontal line between the two crowns.

Impost.—The projecting course or courses at the upper part of a pier or other abutment to stress the springing line ; sometimes moulded and known as a *cap* (see Fig. 13, and L, Fig. 15).

Plinth.—The projecting brickwork at the base of a wall or pier which gives the appearance of additional strength ; also known as a *base*.

Arcade.—A series of arches, adjoining each other, supporting a wall and being supported by piers.

CLASSIFICATION OF ARCHES.—Arches are classified according to (a) their shape, and (b) the materials and workmanship employed in their construction.

(a) The more familiar forms of arches are either flat, segmental or semicircular, whilst others which are not so generally adopted are of the semi-elliptical and pointed types.¹

(b) The voussoirs may consist of either (1) rubber bricks, (2) purpose-made bricks, (3) ordinary or standard bricks cut to a wedge shape and known as axed bricks or (4) standard uncut bricks. The following is a brief description of these bricks :—

¹ These are illustrated in Fig. 19, Vol. II.

