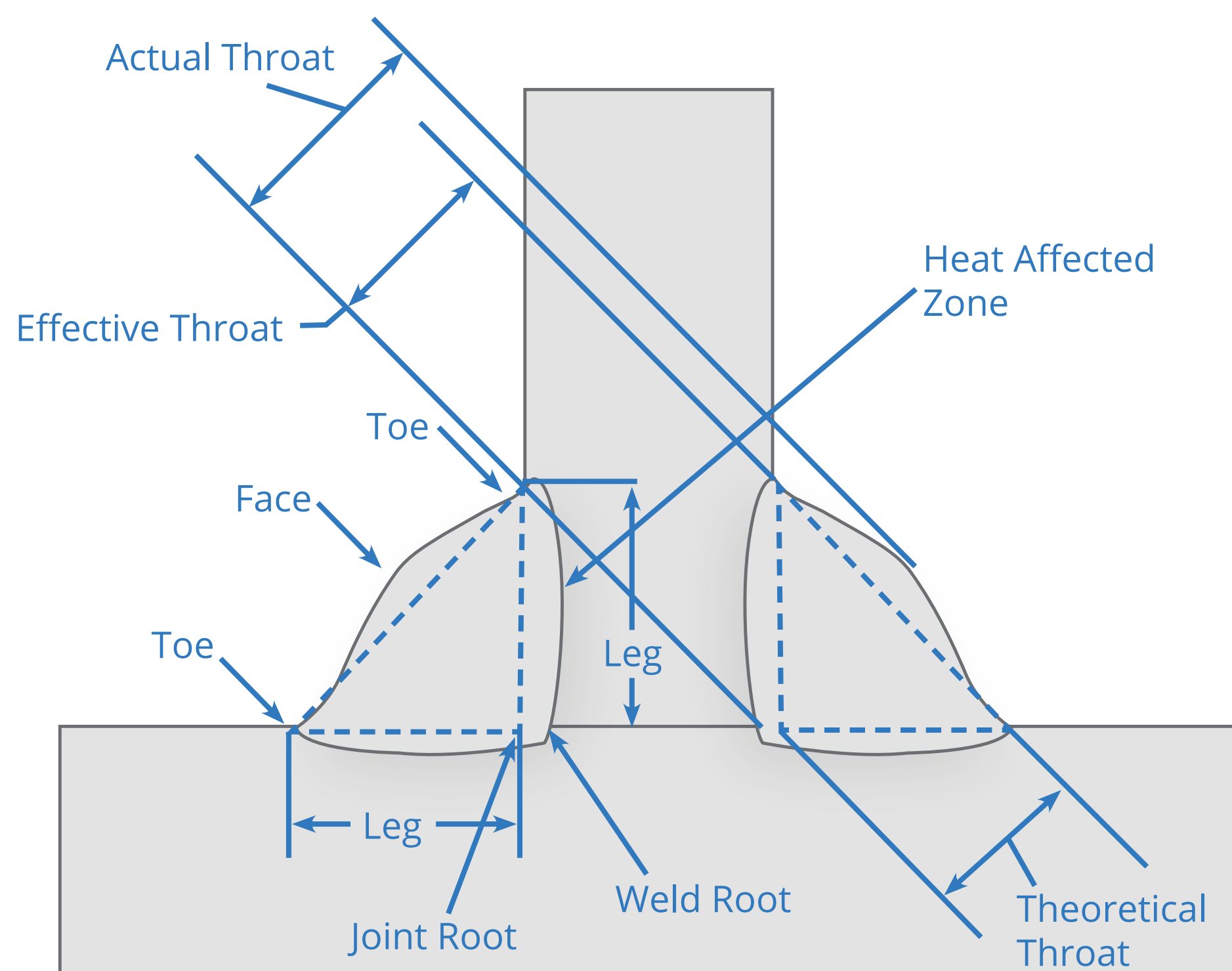
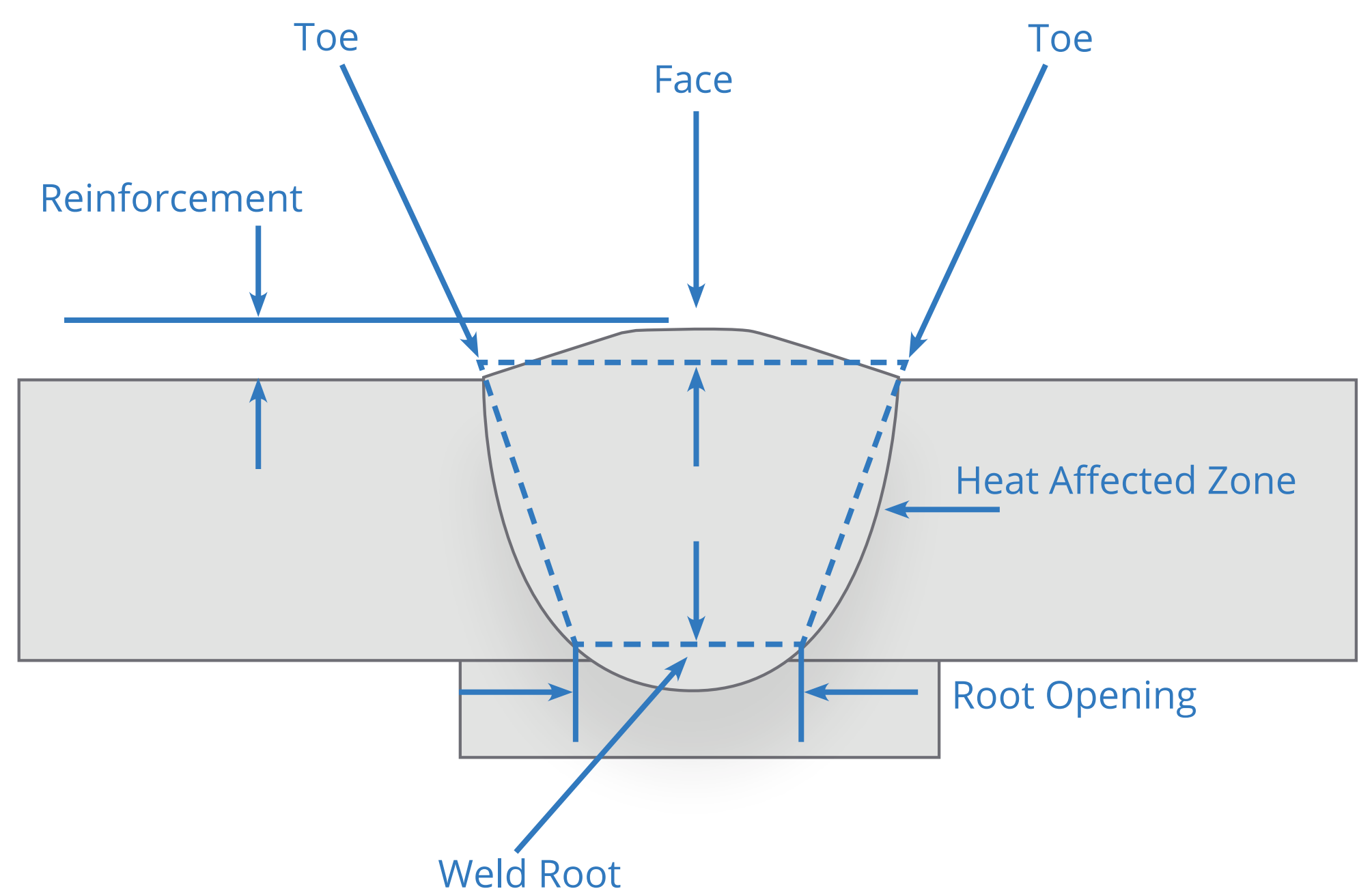


PARTS OF A WELD

Fillet



Groove



Terms & Definitions

- Toe: The junction of the weld face and the base metal.
- Leg: The distance from the joint root to the toe of the weld.
- Face: The exposed surface of a weld on the side from which welding was done.
- Theoretical Throat: The minimum distance minus any reinforcement between the joint root and the face of a fillet weld.
- Effective Throat: The minimum distance minus any reinforcement between the weld root and the face of a fillet weld.
- Actual Throat: The shortest distance between the weld root and the face of a fillet weld.
- Reinforcement: Weld metal in excess of the quantity required to fill a joint.
- Heat Affected Zone: That portion of the base metal that has not been melted, but whose mechanical properties or microstructure have been altered by the heat of welding, brazing, soldering, or cutting.
- Weld Root: The points at which the root surface intersects the base metal surfaces.
- Joint Root: That portion of a joint to be welded where the members approach closest to each other. In cross section, the joint root may be a point, a line, or an area.