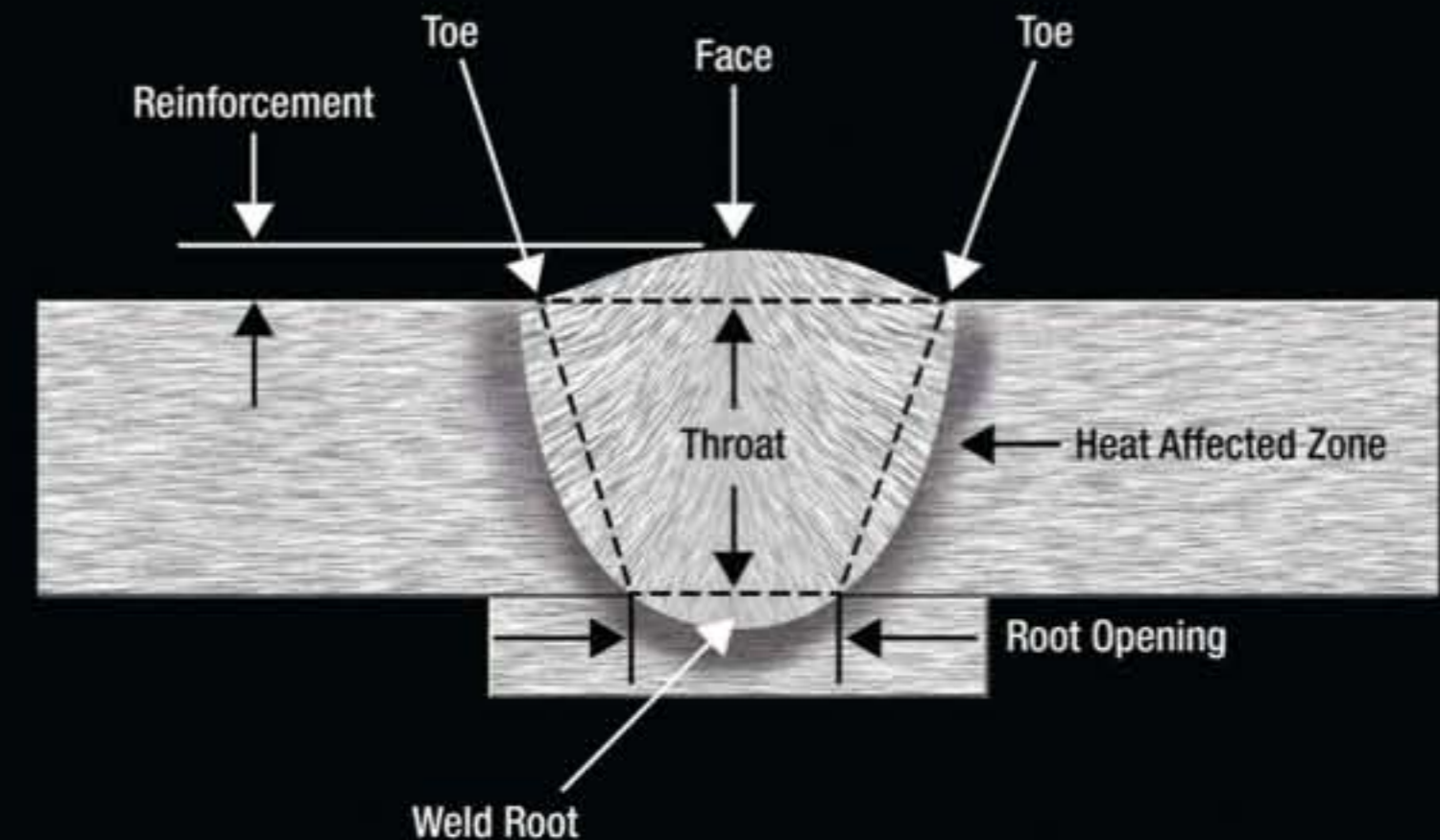
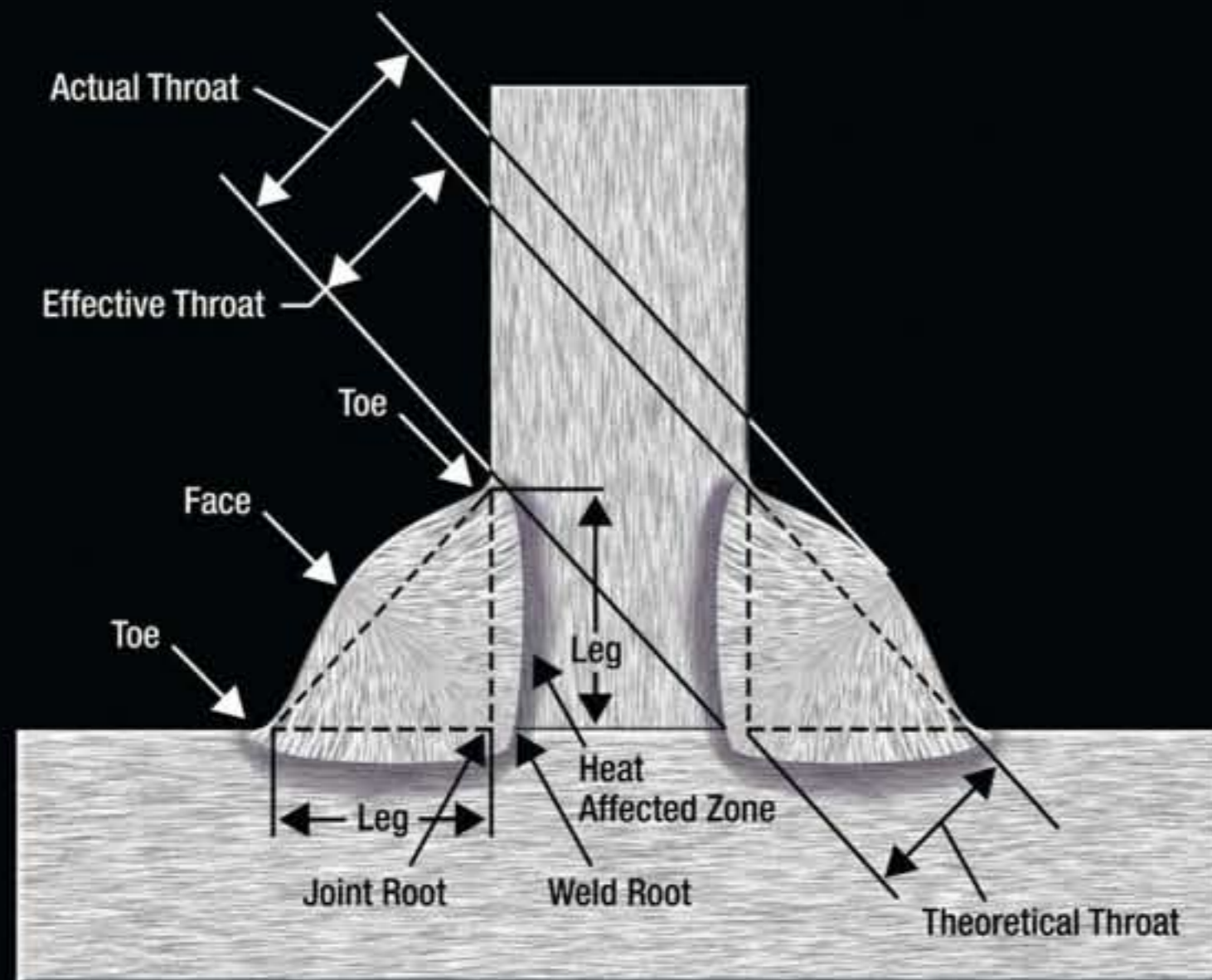


Parts of a Weld

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.

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