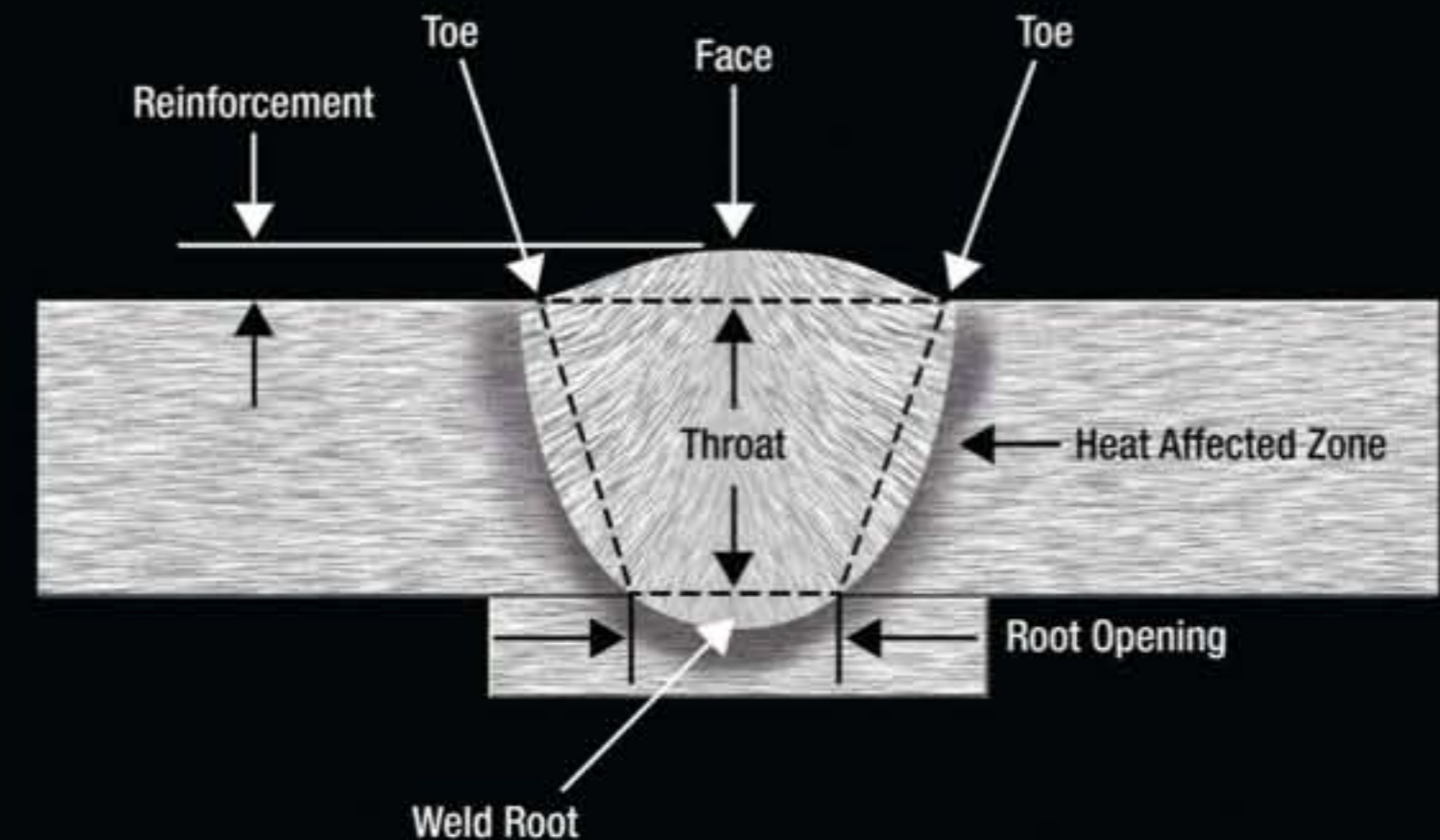
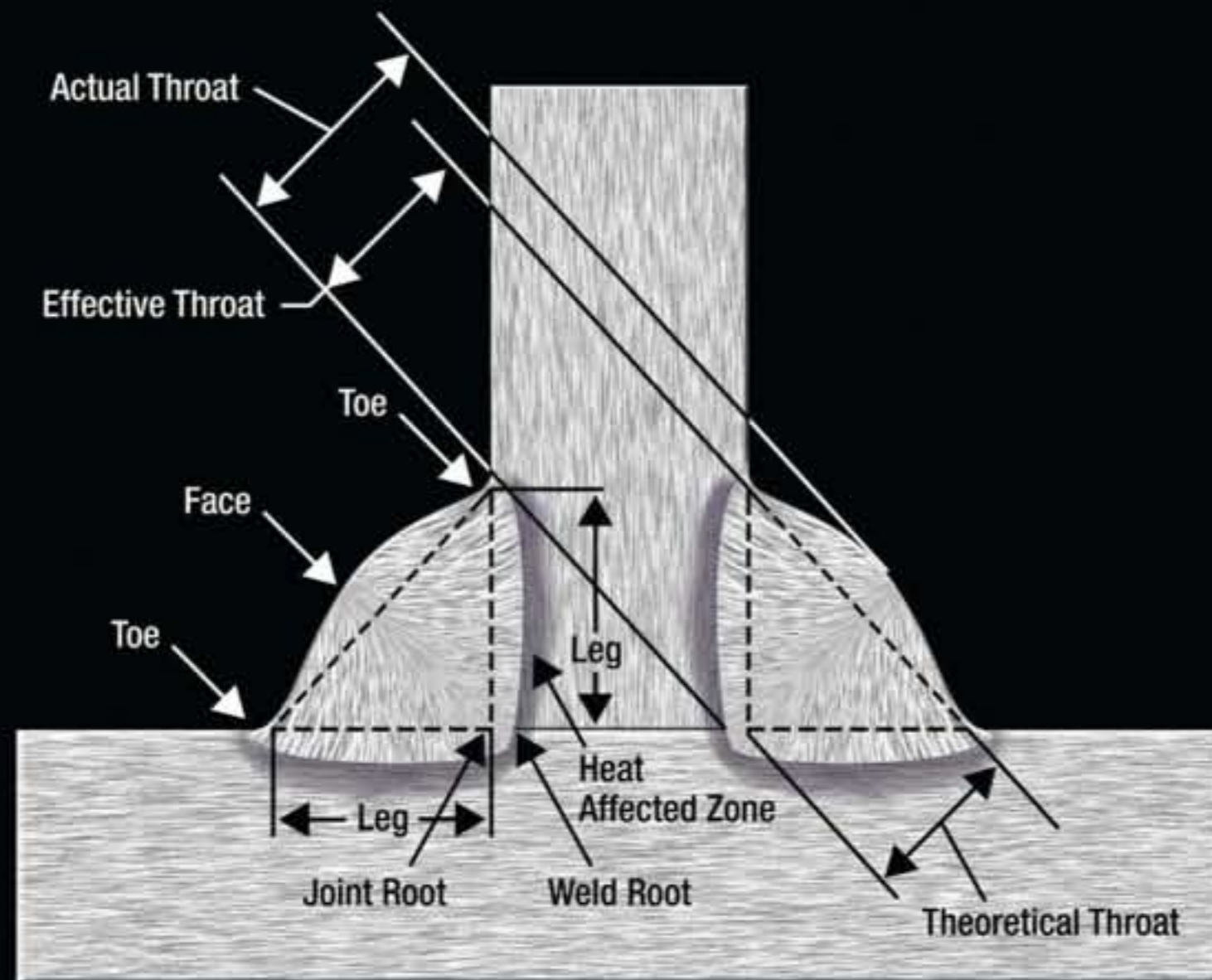


Parts of a Weld

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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