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# Report on Steel Reinforcement—Material Properties and U.S. Availability

Reported by ACI Committee 439

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# Report on Steel Reinforcement— Material Properties and U.S. Availability

Reported by ACI Committee 439

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*The material properties of the various types of steel reinforcement produced for use in the United States are described. Types of steel reinforcement defined in this report include deformed reinforcing bars, plain and deformed wire, welded wire reinforcement, bar mats, and prestressing reinforcement. The requirements, restrictions, and testing information of the pertinent ASTM specifications are reviewed. The availability of the various types and sizes of reinforcement in the U.S. is discussed.*

**Keywords:** bend tests; bending (reinforcing steels); deformed reinforcement; deformed reinforcing bars; ductility; material properties; prestressing steels; reinforced concrete; reinforcing steels; specifications; spiral reinforcement; tensile strength; welded reinforcement grids; welded wire fabric; welded wire reinforcement; yield strength.

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