

INCH-POUND

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SUPERSEDING
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(See 6.5)

COMMERCIAL ITEM DESCRIPTION

STRAIGHTEDGE, STEEL (MACHINISTS' AND TOOLMAKERS')

The General Services Administration has authorized the use of this commercial item description for all federal agencies.

1. SCOPE

1.1 Scope. This commercial item description (CID) covers a 36 inch long machinists' and toolmakers' straightedge, not graduated, semi-hard, with one edge beveled and one edge square, for general machine shops.

1.2 Intended use. The steel straightedge is intended for use in general shop practice and to lay out lines and check surfaces on ordinary shop jobs.

2. SALIENT CHARACTERISTICS

2.1 Design and construction. All surfaces of the straightedge shall be flat and parallel with the opposite surface. Except for one edge of the straightedge, the ends and working edges of each straightedge shall be squared (90 degrees \pm 5 minutes) for the full thickness. One edge of the straightedge shall be uniformly beveled and squared for the full width of the land. The straightedge shall be made of corrosive resistant steel. These requirements, and the hardness, shall be as specified in table I when tested as specified in 4.2 and 4.3.

Beneficial comments (recommendations, addition, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Commander, U.S. Army Natick Research, Development and Engineering Center, Natick, MA 01760-5018 by using the Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter

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2.2 Dimensions and tolerances. Straightedges shall be of the dimensions and within the tolerances specified in table I.

TABLE I. Straightedge steel

Length $\pm 1/32$	Width (approx.)	Thickness (approx.)	Parallelism tolerance for working edges	Straightness tolerance on beveled working edge	Straightness tolerance on squared working edge	Hardness Rockwell (C)	Bevel (approx.)	Width land (approx.)
Inches	Inches	Inch	Inch	Inch	Inch		Degrees	Inch
36	2 - 3	1/4-5/16	0.001	0.0005	0.0006	22 - 32	20	3/64

2.3 Marking. The straightedges shall be marked for identification with the manufacturer's name or readily identifiable trademark.

2.4 Finish. All the surfaces of the straightedge shall be polished.

2.5 Workmanship. All surfaces of the straightedge shall be smooth with no burrs, sharp edges, cracks, gouges, grind chatter, or burn marks.

2.6 Metric products. Products manufactured to metric dimensions will be considered on an equal basis with those manufactured using inch-pound units, provided they fall within the tolerances specified using conversion tables contained in the latest revision of ASTM E 380, and all other requirements of this CID are met. If a product is manufactured to metric dimensions and those dimensions exceed the tolerances specified in the inch-pound units, a request should be made to the contracting officer to determine if the product is acceptable. The contracting officer has the option of accepting or rejecting the product.

3 REGULATORY REQUIREMENTS

3.1 Contractor-recovered materials. The offeror/contractor is encouraged to use recovered materials to the maximum extent practicable, in accordance with paragraph 23.403 of the Federal Acquisition Regulation (FAR).

4. QUALITY ASSURANCE PROVISIONS

4.1 Product conformance. The products provided shall meet the salient characteristics of this commercial item description, conform to the producer's own drawings, specifications, standards and quality assurance practices, and be the same product that has been sold in the commercial market. The Government reserves the right to require proof of such conformance prior to first delivery and thereafter as may be otherwise provided for under the provisions of the contract.