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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION MEЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ ORGANISATION INTERNATIONALE DE NORMALISATION

Fasteners — Hexagon products — Widths across flats

Éléments de fixation - Produits hexagonaux - Dimensions des surplats

Second edition - 1982-01-15

Descriptors: fasteners, screws, hexagonal head screws, bolts, nuts (fasteners), hexagonal nuts, width across flats, dimensions.

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Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 272 was developed by Technical Committee ISO/TC 2, *Fasteners*. The first edition (ISO 272-1979) had been approved by the member bodies of the following countries:

Australia Ireland Romania Belgium Italy South Africa, Rep. of Canada Korea, Dem. P. Rep. of Spain Czechoslovakia Korea, Rep. of Sweden Switzerland Denmark Mexico Finland Netherlands Turkey United Kingdom Germany, F. R. New Zealand Hungary Norway USA India Poland Yugoslavia

The member bodies of the following countries expressed disapproval of the document on technical grounds:

France USSR

This second edition, which cancels and replaces ISO 272-1979, incorporates draft Addendum 1, which was circulated to the member bodies in March 1980 and has been approved by the member bodies of the following countries:

Australia India Poland Austria Ireland Romania Belgium Italy South Africa, Rep. of Czechoslovakia Japan Spain Egypt, Arab Rep. of Korea, Dem. P. Rep. of Sweden **Finland** Korea, Rep. of Switzerland France Netherlands United Kingdom Germany, F. R. New Zealand USA Hungary Norway

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Fasteners — Hexagon products — Widths across flats

1 Scope and field of application

This International Standard specifies widths across flats for hexagon products, for example hexagon head bolts and screws, hexagon nuts and hexagon flanged bolts, screws and nuts, to be used in the respective product standards.

It also specifies a logical ratio between underhead (or nut) bearing area (which determines the magnitude of the compressive stress on the bolted members relative to the clamping force applied by the fastener) and the tensile stress area of the screw thread (which governs the clamping force which can be developed by tightening the fastener for any particular strength class of fastener). This calculation technique was applied to each of the hexagon series so that a proper grading of bearing area/stress area ratios would be available to engineering designers.