

JIS

JAPANESE INDUSTRIAL STANDARD

General tolerances for parts formed by shear from metal plates

JIS B 0410—1991

Translated and Published

by

Japanese Standards Association

In the event of any doubt arising,
the original Standard in Japanese is to be final authority.



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1. Scope

This Japanese Industrial Standard specifies the general dimensional tolerances on cut width and general tolerances on straightness and rectangularity of metal plates of 12 mm or under in thickness which have been cut by plate shearing machines such as the gap shear and square shear.

Remarks: The applicable Standards to this Standard are given in the following:

JIS B 0111 Glossary of Terms for the Presswork Machinery

JIS B 0621 Definitions and Designations of Geometrical Deviations

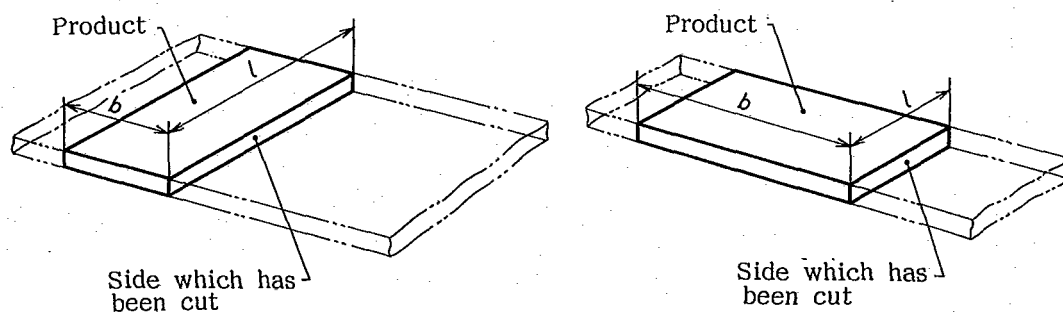
JIS Z 8114 Glossary of Technical Drawing Terms

2. Definitions

For the purposes of this Standard definitions in JIS B 0111, JIS B 0621 and JIS Z 8114 apply, and others are in accordance with the following:

- (1) cut width The distance between the side which has been cut by the cutting edge of a shear and its opposite side (b of Fig. 1).
- (2) cut length The length of the side which has been cut by the cutting edge of a shear (l of Fig. 1).

Fig. 1



- (3) straightness The magnitude of deviation from the geometrically correct straight line at the portion of the side which has been cut being touched with the cutting edge (f of Fig. 2).
- (4) rectangularity Taking the long side as the datum shape body, the magnitude of deviation of the portion of the short side which has been touched with the cutting edge from a vertical geometrical plane in respect to the datum shape body (f of Fig. 3).

In the case where the two sides are equal in length, any one side may also be taken as the datum shape body.