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High tensile strength steel for tower structural purposes

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Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee, as the result of proposal for revision of Japanese Industrial Standard submitted by The Japan Iron and Steel Federation (JISF) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14.

Consequently **JIS G 3129 : 1995** is replaced with this Standard.

Attention is drawn to the possibility that some parts of this Standard may conflict with a patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have technical properties. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying the patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have the said technical properties.

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In the event of any doubts arising as to the contents,
the original JIS is to be the final authority.

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High tensile strength steel for tower structural purposes

1 Scope This Japanese Industrial Standard specifies the hot rolled steel products (hereafter referred to as “steel products”) used mainly for transmission steel tower.

2 Normative references The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

JIS G 0320 *Standard test methods for heat analysis of steel products*

JIS G 0404 *Steel and steel products—General technical delivery requirements*

JIS G 0415 *Steel and steel products—Inspection documents*

JIS G 0416 *Steel and steel products—Location and preparation of samples and test pieces for mechanical testing*

JIS G 3192 *Dimensions, mass and permissible variations of hot rolled steel sections*

JIS G 3193 *Dimensions, mass and permissible variations of hot rolled steel plates, sheets and strips*

JIS Z 2201 *Test pieces for tensile test for metallic materials*

JIS Z 2241 *Method of tensile test for metallic materials*

JIS Z 2242 *Method for Charpy pendulum impact test of metallic materials*

3 Classification, symbol and applicable thickness The steel products shall be categorized into two classes, and the symbols and applicable thicknesses thereof shall be as given in table 1.

Table 1 Symbol of class and applicable thickness

Symbol of class	Shape of steel product	Applicable thickness
SH 590 P	Steel plates	6 mm or over up to and incl. 25 mm
SH 590 S	Angles	35 mm or under

4 Method of manufacture The method of manufacture of the steel products shall be as follows:

- a) The steel plates shall be supplied, as a rule, under as-rolled conditions or thermomechanically controlled conditions. For the steel plates which have been subjected to thermomechanical control, –TMC shall be suffixed to the end of the class symbol. The addition of symbols in the case where heat treatments other than thermomechanical control are carried out shall be agreed between the purchaser and the supplier.
- b) The angles shall, as a rule, be supplied under as-rolled conditions.