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**High strength steel plates for
pressure vessels for intermediate
and moderate temperature service**

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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 3124:2015** is replaced with this Standard.

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High strength steel plates for pressure vessels for intermediate and moderate temperature service

1 Scope

This Japanese Industrial Standard specifies the high strength hot rolled steel plates to be used for boilers and pressure vessels for intermediate and moderate temperature services (hereafter referred to as steel plates).

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 method for heat analysis of steel products*

JIS G 0321 *Product analysis and its tolerance for wrought steel*

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

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

JIS G 0567 *Method of elevated temperature tensile test for steels and heat-resisting alloys*

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

JIS Z 2241 *Metallic materials—Tensile testing—Method of test at room temperature*

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

JIS Z 2248 *Metallic materials—Bend test*

3 Classification, symbols and applicable thicknesses

The steel plates are classified into three grades, and the symbols of grades and applicable thicknesses shall be as given in Table 1.

Table 1 Symbols of grade and applicable thicknesses

Unit: mm

Symbol of grade	Applicable thickness
SEV245	6 or over up to and incl. 150
SEV295	
SEV345	
NOTE : The digits in the symbol of grade denote the approximate value of required lower limit (N/mm ²) for proof stress at the test temperature of 350 °C for the steel plate of 100 mm or under in thickness.	