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Steel bars for prestressed concrete

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Foreword

This Japanese Industrial Standard has been 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 Japan Wire Products Association (JWPA)/Japanese Standards Association (JSA) with a draft being attached, based on the provision of Article 12, paragraph (1) of the Industrial Standardization Act applied mutatis mutandis pursuant to the provision of Article 16 of the said Act. This edition replaces the previous edition (**JIS G 3109:2008**), which has been technically revised.

However, **JIS G 3109: 2008** may be applied in the **JIS** mark certification based on the relevant provisions of Article 30, paragraph (1), etc. of the Industrial Standardization Act until 19 August 2021.

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Steel bars for prestressed concrete

1 Scope

This Japanese Industrial Standard specifies requirements for steel bars mainly used for prestressed concrete manufactured by post-tensioning (hereafter referred to as steel bars).

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

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

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

JIS Z 2276 *Method of tensile stress relaxation test for metallic materials*

JIS Z 8401 *Rounding of numbers*

3 Grade, symbol of grade and designation

3.1 Grade and symbol of grade

Steel bars are classified into round steel bars and deformed steel bars, and further subclassified into 6 grades. The symbols for respective grades are given in Table 1.

Table 1 Grade and symbol of grade

Grade			Symbol of grade ^{a)}
Round steel bars	Grade A	No. 2	SBPR 785/1030
	Grade B	No. 1	SBPR 930/1080
		No. 2	SBPR 930/1180
	Grade C	No. 1	SBPR 1080/1230
Deformed steel bars	Grade B	No. 1	SBPD 930/1080
	Grade C	No. 1	SBPD 1080/1230
Note ^{a)} R stands for round steel bar, and D for deformed steel bar.			

3.2 Designation

The steel bars are designated as given in Table 2 and Table 3.