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JIS

JAPANESE INDUSTRIAL STANDARD

Prestressed concrete beams for light load slab bridges

JIS A 5319—1992

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by

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

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Prestressed concrete beams for light load slab bridges

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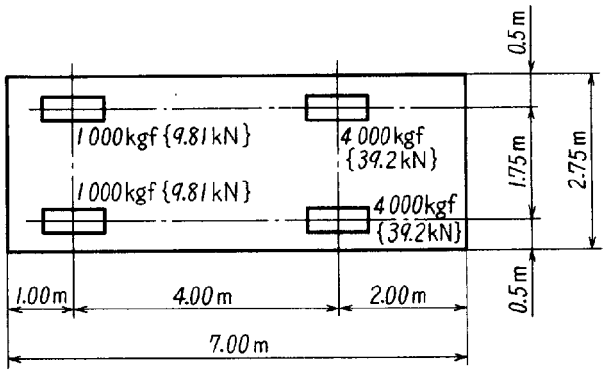
1. Scope

This Japanese Industrial Standard specifies the prestressed concrete bridge beams manufactured by pretensioning and to be used for light load slab bridges of a single lane. (Hereafter referred to as bridge beams).

Remarks 1. The bridge beams mentioned above are intended for the cars 10000 kgf{98.1 kN} in design car load, and therefore are not suited to the road bridges which fall under the Road Construction Ordinance.

2. The design car load is to be as shown in Fig. 1.

Fig. 1. Design car load



3. The following Standards are cited in this Standard:

JIS A 1108-Method of Test for Compressive Strength of Concrete

JIS A 1132-Method of Making and Curing Concrete Specimens

JIS A 5011-Air-Cooled Iron-Blast-Furnace Slag Aggregate for Concrete

JIS A 5012-Granulated Blast Furnace Slag Fine Aggregate for Concrete

JIS A 5308-Ready-Mixed Concrete

JIS A 6202-Expansive Additive for Concrete

JIS A 6204-Chemical Admixtures for Concrete

JIS G 3112-Steel Bars for Concrete Reinforcement

JIS G 3536-Uncoated Stress-Relieved Steel Wires and Strands for Prestressed Concrete

JIS R 5210-Portland Cement

JIS Z 8401-Rules for Rounding off of Numerical Values

4. The units and numerical values given in { } in this Standard are based on the International System of Units (SI) and are appended for informative reference.

Further, the traditional units and numerical values are converted to SI units and numerical values on April 1, 1995.

2. Types

The bridge beams shall be classified into the types given in Table 1.

Table 1. Type

Type designation	Design car load kgf{kN}	Standard span m	Beam height mm	PC stranded steel wire SWPR7B of 7-wire strand 12.7 mm and 15.2 mm		Remarks
				Number to be used	Standard diameter mm	
LS05	10000 {98.1}	5	225	8	12.7	1. If the spacing between centers of bridge beams assembled as a bridge exceeds 0.77 m it is necessary to discuss about the bridge beams and lateral members. 2. When used for bridges, these are applicable to oblique angles 60° or over. 3. The span for these beams may be longer than the standard span by 0.2 m or less. Further, it may be shorter 1 m or less. 4. Snow load of 100 kgf/m^2 {981 N/m^2} is also taken into consideration for these bridge beams.
LS06		6	225	10		
LS07		7	225	13		
LS08		8	250	13		
LS09		9	275	16		
LS10		10	300	13	15.2	
LS11		11	350	13		
LS12		12	375	15		
LS13		13	400	17		