BQB

ENTERPRISE STANDARD OF BAOSHAN

IRON & STEEL CO., LTD.

Q/BQB 617-2018

Replacing BZJ 610-2013

Low yield strength steel plates for construction

建筑抗震用低屈服强度厚钢板

Issued on: January 15, 2018 **Implemented on: April 10, 2018**

Issued by: Baoshan Iron & Steel Co., Ltd.

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Foreword

This Standard is drafted in accordance with the rules given in GB/T 1.1-2009 “Directives for standardization - Part 1: Structure and drafting of standards”.

This Standard is developed based on Baosteel’s product development and actual production situation.

This Standard replaces BZJ 610-2013 “Low yield strength steel plates for construction”. As compared with the previous standard, the main changes are as follows:

- In Normative references, ADD the reference to GB/T 20124; ADD the year number of GB/T 2975;

- Define the sampling location of impact sample.

This Standard was proposed by Products & Technique Management Department of Baoshan Iron & Steel Co., Ltd.

This Standard shall be under the jurisdiction of Products & Technique Management Department of Baoshan Iron & Steel Co., Ltd.

This Standard was drafted by Products & Technique Management Department of Baoshan Iron & Steel Co., Ltd.

Drafter of this Standard: Huang Jinhua.

This Standard is first published in January 2018.

Low yield strength steel plates for construction

1 Scope

This Standard specifies the dimension, shape, technical requirements, inspection and test, marking, and quality certificate, etc. of low yield strength steel plates for construction.

This Standard applies to low yield strength steel plates for construction produced by Baoshan Iron & Steel Co., Ltd.

2 Normative references

The following documents are indispensable for the application of this document. For the dated references, only the editions with the dates indicated are applicable to this document. For the undated references, the latest edition (including all the amendments) are applicable to this document.

GB/T 222 Permissible tolerances for chemical composition of steel products

GB/T 223 Methods for Chemical Analysis of Iron, Steel and Alloy

GB/T 228.1 Metallic materials - Tensile testing - Part 1: Method of test at room temperature

GB/T 229 Metallic Materials - Charpy Pendulum Impact Test Method

GB/T 2970 Method for ultrasonic testing of thicker steel plates

GB/T 2975-1998 Steel and steel products - Location and preparation of test pieces for mechanical testing

GB/T 4336 Carbon and low-alloy steel - Determination of multi-element contents - Spark discharge atomic emission spectrometric method (routine method)

GB/T 5313 Steel plates with through-thickness characteristics

GB/T 20066 Steel and Iron - Sampling and Preparation of Samples for the Determination of Chemical Composition

GB/T 20123 Steel and iron - Determination of total carbon and sulfur content - Infrared absorption method after combustion in an induction furnace

Table 5

No.	Test items	Number of samples, pieces	Sampling method	Test method
1	Chemical analysis[a]	1 (per furnace)	GB/T 20066	GB/T 223, GB/T 4336, GB/T 20123, GB/T 20124, GB/T 20125, GB/T 20126, or general method
2	Tensile test	1	GB/T 2975	GB/T 228.1
3	Impact test	1 group (3 pieces)	GB/T 2975 Thickness ≤40mm, Figure A11 a) (near-surface) Thickness >40mm, Figure A11 b) (1/4t)	GB/T 229
4	Through-thickness tensile characteristics test (by agreement)	1 group (3 pieces)	GB/T 5313	GB/T 228.1
5	Ultrasonic testing	-	-	GB/T 2970
[a] When conducting an arbitration test on chemical composition, USE GB/T 223.				

7.3 Sampling frequency

7.3.1 Sampling frequency for chemical composition analysis

By furnace, perform smelting analysis of chemical composition.

7.3.2 Sampling frequency for mechanical properties and technological properties

Each lot shall consist of the same rolled steel plate with the same furnace number, the same designation, and the same delivery state.

7.3.3 Through negotiation between the supplier and the purchaser, the lot grouping rules may be additionally determined.

7.4 Re-test

7.4.1 Re-test of impact test

If the impact test results do not meet the specified requirements, the single steel plate which has been tested and of which the results are not acceptable cannot be accepted. Other steel plates in the same lot can be submitted one by one for impact test and acceptance.

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