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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 42901-2023

**Test methods of reinforcement couplers for mechanical splices
of bars**

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1. Structure and Drafting Rules of Standardization Documents"

Drafting.

This document is modified to adopt ISO 15835-2:2018 "Steel Mechanical Connectors for Reinforced Concrete Part 2. Test Methods".

Compared with ISO 15835-2:2018, there are many technical differences between this document and the clauses involved in the outer margins.

Straight single lines (|) are marked. A list of these technical differences and their causes is provided in Appendix A.

The following editorial changes have been made to this document.

---Changed the notes in 5.4.1 and 5.5.2;

---Deleted the note in 5.4.3;

---Added Appendix A (informative) on the technical differences between this document and ISO 15835-2:2018 and their reasons.

1 Scope

This document specifies the terms and definitions, symbols and descriptions of steel mechanical connector tests, mechanical connector tests and test reports.

This document is applicable to the testing of mechanical connectors of steel bars at room temperature.

2 Normative reference documents

The contents of the following documents constitute essential provisions of this document

through normative references in the text. Among them, the dated quotations

For undated referenced documents, only the version corresponding to that date applies to this document; for undated referenced documents, the latest version (including all amendments) applies to

this document.

GB/T 228.1 Tensile testing of metallic materials Part 1. Room temperature test method (GB/T 228.1-2021, ISO 6892-1.

2019, MOD)

GB/T 12160-2019 Calibration of extensometer systems for uniaxial testing of metallic materials (ISO 9513:2012, IDT)

GB/T 28900 Test methods for steel for reinforced concrete (GB/T 28900-2022, ISO 15630-1:2019, MOD)

GB/T 38937 Steel terminology for reinforced concrete (GB/T 38937-2020, ISO 16020:2005, MOD)

GB/T 42796 Mechanical connectors for steel bars (GB/T 42796-2023, ISO 15835-1:2018, MOD)

3 Terms and definitions

The terms and definitions defined in GB/T 42796 and GB/T 38937 apply to this document.

4 Symbols and descriptions

The symbols and descriptions used in this document are shown in Table 1.

Table 1 Symbols and descriptions

Symbol	unit	description
Agt	%	maximum force total elongation
As	mm ²	Nominal cross-sectional area of steel bar
d	mm	nominal diameter of steel bar
E	MPa	Nominal elastic modulus of steel bars
FN		force
FeL	N	AS.ReL (ReL is the characteristic value specified in the product standard)
L	mm	mechanical connection joint length
L1	mm	connector length

L2 mm 2d

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