

ICS 77.140.60

CCS H 44



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

GB/T 42796-2023

Reinforcement couplers for mechanical splices of bars

Issued on: August 6, 2023

Implemented on: March 1, 2024

**Issued by: State Administration for Market Regulation, China National
Standardization Administration**

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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 15835-1:2018 "Steel Mechanical Connectors for Reinforced Concrete Part 1. Requirements".

Compared with ISO 15835-1:2018, this document has many structural adjustments.
Comparison list of structure number changes between two files

See Appendix A for the table.

Compared with ISO 15835-1:2018, 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 B.

The following editorial changes have been made to this document.

---Deleted Appendix A of ISO 15835-1:2018;

---Added Appendix A (informative) "List of comparison of structure numbers between this document and ISO 15835-1:2018";

---Added Appendix B (informative) "Technical differences between this document and ISO 15835-1:2018 and their reasons".

Please note that some content in this document may be subject to patents. The publisher of this document assumes no responsibility for identifying patents.

1 Scope

This document specifies the classification, requirements, marking, packaging and product certificates and quality certificates for steel mechanical connectors.

This document is applicable to straight threads, tapered threads and extrusion connectors for mechanical connection of steel bars in concrete structures. The steel bars for mechanical connection meet the

GB/T 1499.2, GB/T 33953, GB/T 33959, and GB/T 13014 require a diameter of 12mm~50mm. Use other classes

The connectors of shaped steel bars can be implemented as a reference.

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 1499.2 Steel for reinforced concrete Part 2.Hot-rolled ribbed steel bars (GB/T 1499.2-2018, ISO 6935-2.

2015,NEQ)

GB/T 2101 General provisions for acceptance, packaging, marking and quality certificates of section steel

GB/T 13014 Waste heat treated steel bars for reinforced concrete

GB/T 33953 Corrosion-resistant steel bars for reinforced concrete

GB/T 33959 Stainless steel bars for reinforced concrete

GB/T 42901-2023 Test methods for mechanical connectors of steel bars (GB/T 42901-2023, ISO 15835-2.2018, MOD)

3 Terms and definitions

The following terms and definitions apply to this document.

3.1

Connector coupler

Connecting sleeves or threaded sleeves used to mechanically connect steel bars to transmit axial tension and/or pressure from one steel bar to another.

Note 1.The casing is a device installed at the ends of two steel bars.

Note 2.A threaded sleeve is a threaded device used to connect steel bars together with

matching threads.

3.2

connector length couplerlength

The actual length of the connector.

Note. Include all load-transmitting components (if more than one), including locking nuts (if any).

3.3

mechanical splice mechanical splice

A complete set of mechanical connections for steel bars, including any additional intermediate material or other components that provide a connection between two bars.