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**Method and acceptance criteria of
ultrasonic examination for
mechanical joints of deformed steel
bars for concrete reinforcement**

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Foreword

This Japanese Industrial Standard has been established by the Minister of Economy, Trade and Industry and the Minister of Land, Infrastructure, Transport and Tourism through deliberations at the Japanese Industrial Standards Committee according to the proposal for establishment of Japanese Industrial Standard submitted by Japan Reinforcing Bar Joints Institute (JRJI)/Japanese Standards Association (JSA) with a draft being attached, based on the provision of Article 12, paragraph (1) of the Industrial Standardization Act.

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Method and acceptance criteria of ultrasonic examination for mechanical joints of deformed steel bars for concrete reinforcement

1 Scope

This Japanese Industrial Standard specifies the method and acceptance criteria of ultrasonic examination of the reinforcing bar insertion length of a screw reinforcing bar joint, mortar filling joint and end screw-threaded joint among the mechanical joints using the deformed steel bar of nominal designation D10 or over specified in **JIS G 3112** (hereafter referred to as reinforcing bar) and the high-strength reinforcing bar.

NOTE The high-strength reinforcing bar is required to obtain the ministerial approval based on Article 37 of the Building Standards Act.

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 3112 *Steel bars for concrete reinforcement*

JIS Z 2300 *Terms and definitions of nondestructive testing*

JIS Z 2345-4 *Standard test blocks for ultrasonic testing—Part 4: Standard test blocks for angle beam ultrasonic testing*

JIS Z 2350 *Method for measurement of performance characteristics of ultrasonic probes*

JIS Z 2352 *Method for evaluating performance characteristics of ultrasonic pulse-echo testing systems*

JIS Z 3062 *Method and acceptance criteria of ultrasonic examination for gas pressure welds of deformed steel bars for concrete reinforcement*

3 Terms and definitions

For the purposes of this Standard, the terms and definitions given in **JIS Z 2300** and **JIS Z 3062**, and the following apply.

3.1

mechanical joint

joint which joins reinforcing bars through mechanical parts such as a coupler and a sleeve

3.2

coupler

part which joins reinforcing bars in a screw reinforcing bar joint and end screw-threaded joint