

JIS

JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS Z 3063 : 2019

(JRJI/JSA)

**Method and acceptance criteria of
ultrasonic examination for butt
welding of deformed steel bars for
concrete reinforcement**

ICS 25.160.40;77.040.20;77.140.15

Reference number : JIS Z 3063 : 2019 (E)

Z 3063 : 2019

Date of Establishment: 2019-09-25

Date of Public Notice in Official Gazette: 2019-09-25

Investigated by: Japanese Industrial Standards Committee
Standards Board for ISO area
Technical Committee on Metal and Inorganic
Materials

JIS Z 3063:2019, First English edition published in 2020-12

Translated and published by: Japanese Standards Association
Mita MT Building, 3-13-12, Mita, Minato-ku, Tokyo, 108-0073 JAPAN

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Printed in Japan

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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 butt welding of deformed steel bars for concrete reinforcement

1 Scope

This Japanese Industrial Standard specifies the method and acceptance criteria of ultrasonic examination for butt welding of deformed steel bars with nominal designation D19 or over (hereafter referred to as reinforcing bars) which are specified in **JIS G 3112**.

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 3001-4 *Welding and allied processes—Vocabulary—Part 4: Imperfections in welding*

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 purpose of this Standard, the terms and definitions given in **JIS Z 2300**, **JIS Z 3001-4**, **JIS Z 3062**, and the following apply.

3.1

double transducer angle probe

angle probe used exclusively for reinforcing bars with a nominal angle of probe of 70° consisting of two transducers (5 mm × 5 mm) with a tilt angle of 20° in left/right direction (see Figure 1)