

JIS

JAPANESE INDUSTRIAL STANDARD

**Methods of ultrasonic angle
beam examination for
butt welds of aluminium plates**

JIS Z 3080^{—1995}

Translated and Published

by

Japanese Standards Association

**In the event of any doubt arising,
the original Standard in Japanese is to be final authority.**

Methods of ultrasonic angle beam examination
for butt welds of aluminium plates

Z 3080-1995

1. Scope This Japanese Industrial Standard specifies the methods of ultrasonic angle beam examination by the pulse echo technique using an ultrasonic test instrument having A scope display on full penetration butt welds of aluminium and aluminium alloy plates of not less than 5 mm in thickness (hereafter referred to as "aluminium").

The method of classification of the examination results is specified in Annex.

Remarks: The standards cited in this Standard are as follows:

- JIS Z 2300 Glossary of terms used in nondestructive testing
- JIS Z 2345 Standard test blocks for ultrasonic testing
- JIS Z 2350 Method for measurement of performance characteristics of ultrasonic probes
- JIS Z 2352 Method for assessing the overall performance characteristics of ultrasonic pulse echo testing instrument
- JIS Z 3871 Standard qualification procedure for ultrasonic testing technique of aluminium and aluminium alloy welds

2. Definition For the purposes of this Standard, the definitions given in JIS Z 2300 and the following definitions apply.

- (1) equivalent size of transducer An apparent transducer size observed from the propagating direction of ultrasonic wave refracting and transmitting in the test object. It is distinguished from actual transducer size by using the symbol of [].
- (2) ultrasonic discontinuity length An apparent length of discontinuity which is measured by the transferring distance of the probe.

3. Engineer The engineers to be engaged in this ultrasonic testing shall be the personnel who have passed B level examination in accordance with JIS Z 3871 or who have had the technical skills equivalent or superior to that of the successful personnel.