

JIS

JAPANESE INDUSTRIAL STANDARD

**Autoclaved lightweight
aerated concrete panels**

Ⓒ **JIS A 5416**—1995

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Autoclaved lightweight aerated concrete panels

A 5416-1995

1. Scope This Japanese Industrial Standard specifies the panels with reinforcement, hereafter referred to as "panels", mainly used for building among products by the lightweight aerated concrete cured with autoclave, hereafter referred to as "ALC" using lime material and siliceous material as main raw materials.

Remarks 1. The standards cited in this Standard are shown in Attached Table 1.

2. The units and numerical values given in { } in this Standard are in accordance with the traditional unit system and appended for informative reference.

2. Classification The panels shall be classified into external wall panel, partition panel, roof panel and floor panel according to the use.

3. Quality

3.1 Quality of ALC

3.1.1 Compressive strength and bulk specific gravity in absolute dry condition
The compressive strength and bulk specific gravity in absolute dry condition of ALC shall be tested in accordance with the specifications in 7. and conform to the requirements specified in Table 1.

Table 1. Compressive strength and bulk specific gravity
in absolute dry condition

Item	Specified value
Compressive strength N/mm ² {kgf/cm ² }	2.94 {30} min.
Bulk specific gravity in absolute dry condition	Over 0.45 to 0.55 excl.

3.1.2 Length change rate For the length change rate of ALC, the test specified in 7. shall be carried out and its value shall be not more than 0.05%.

3.2 Rust preventive performance of corrosion inhibitors For the rust preventive performance of corrosion inhibitors, the test specified in 7. shall be carried out and the area of rust generated on the surface of reinforcement shall be not more than 5% of the surface area of reinforcement.

3.3 Quality of panel

3.3.1 Appearance The appearance of panel shall conform to the requirements specified in Table 2.