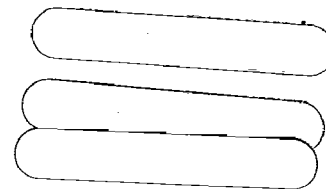


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JAPANESE INDUSTRIAL STANDARD

Classification of Performance for Building Elements

JIS A 0030 —1973

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In the event of any doubt arising, the original
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A 0030-1973

Japanese Text

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Investigated by: Japanese Industrial Standards Committee
Technical Committee on Classification of
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(Chairman: KANŌ Haruichi)
Divisional Council on Building
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JAPANESE INDUSTRIAL STANDARD

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Classification of Performance for
Building Elements

A 0030-1973

1. Scope

This Japanese Industrial Standard specifies classification which is conformed to item performance, measurement and its unit as defined in Table 1, 2, and 3 to indicate performance for building elements (wall, floor, ceiling and roof), and performance mentioned above shall not be included anything concerning structural stress.

2. Item of Performance

Item of performance shall be as shown in Table 1.

Applicable Standards:

JIS A 1304-Method of Fire Resistance Test for Structural Parts of
Buildings

JIS A 1321-Testing Method for Incombustibility of Internal Finish Material
and Procedure of Buildings

JIS A 1414-Methods of Performance Test of Panels for Building Construction

Table 1

Item of performance	Prescription of item of performance	Remarks
Reflection of light	Value to reflect of light	Performance which is to control each regard factor
Heat insulation	Value to resist of heat transmission in standard temperature	
Sound insulation	Value to insulate of air borne noise	
Insulation of impact sound	Value to insulate of impact sound into room by foot steps	
Sound absorption	Value to absorb sound	
Water proof	Rain water not to penetrate	
Moisture proof	Moisture not to penetrate	
Airtightness	Value to resist against air permeation by difference of barometric pressure	
Resistance to distributed compressive load	Value to resist against force by distributed load of each element	Performance which is concerning on maintenance and safety of building
Resistance to impact stranges	Value to resist against impact stranges	
Resistance to concentrated compressive load	Value to resist against concentrated compressive load	
Abrasion resistance	Value to resist against abrasion	
Fire resistance	Value to resist fire	
Fire retardancy	Value to retard combustion, smoke and poison gas not to generate	
Durability	Value to resist against degeneration and deformation by years	

3. Item and Unit of Measurement

Item and unit of measurement for performance shall be as shown in Table 2.

Table 2

Item of performance	Item of measurement	Unit of measurement	Remarks
Reflection of light	Factor of light reflection	(%)	Diffuse reflection factor to visible ray of 45 degree on incidence (mean of data to each measurement part in testing materials)
Heat insulation	Resistance of heat transmission	$\text{m}^2 \cdot \text{h} \cdot \text{deg/kcal}$	Heat transmission in normal temperature (mean of data)
Sound insulation	Transmission loss	dB	Transmission loss in defined the number of vibration (mean of data)
Insulation of impact sound ⁽¹⁾	Difference of sound pressure level on standard curve	dB	Standard curve of impact sound pressure level to floor
Sound absorptivity	Sound absorbing coefficient	(%)	Sound absorbing coefficient in defined Frequency of vibration (mean of data)
Water proof (water density)	Pressure of water density	kg/m^2	Average pressure in limitance of unleaking, in case of adding average pressure of vibration successively as shown in Table 3, in spraying water with $4\text{ t/m}^2 \text{ min.}$
Moisture proof	Resistance of moisture permeation	$\text{m}^2 \cdot \text{day} \cdot \text{mm Aq/g}$	Opposite number of volume of moisture permeation (mean of data)
Airtightness	Resistance of airtight	$\text{m}^2 \text{h/m}^3$	Resistance of air permeation unit area in difference pressure in 10 kg/m^2

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