

JIS

JAPANESE INDUSTRIAL STANDARD

**PVC Windows for
Interior Installed**

JIS A 4714—1985

Translated and Published

by

Japanese Standards Association

Printed in Japan

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

JAPANESE INDUSTRIAL STANDARD

J I S

PVC Windows for Interior Installed

A 4714-1985

1. Scope

This Japanese Industrial Standard specifies PVC windows ⁽¹⁾ for interior installed used for multiple windows at an opening in the outer wall of a building, hereinafter referred to as the "windows for interior installed".

Note ⁽¹⁾ The PVC windows for interior installed shall be the windows for interior installed in the multiple windows using a glass, except for those for exterior installed. Their main components shall be of extruded materials according to JIS K 6740, and steel and aluminium alloy materials shall be used together as reinforcement, as required.

Remark: The units and numerical values given in { } in this Standard are in accordance with the International System of Units, and are appended for informative reference.

2. Types and Symbols

The symbol indicating windows for interior installed shall be "pi", and the windows shall be classified as shown in following (1) to (3).

- (1) The classification by the method of opening and closing shall be as shown in Table 1.

Table 1

Classification by method of opening/closing	Symbol	Remark
Sliding	H	A window movable in a plane in the horizontal or vertical direction
Swing	R	A window which swings

Remark: A fixed sash window shall be "swing" when used in a multistage window with a swing window and be "sliding" when used in a multistage window with a sliding window. In the case of a fixed sash window alone, it shall be classified into "sliding".

- (2) The classification by the type of sheet glass shall be as shown in Table 2.

Applicable Standards: See pages 22, 23 and 24.

Table 2

Classification by type of sheet glass	Symbol	Remark
With single glass	MO	Float glass, patterned glass, wire-net glass, wired glass, laminated glass, toughened glass, and so on
With double glazing	SI	Double glazing using above-mentioned glasses

- (3) The classification by performance shall be as shown in Table 3 (refer to Table 8).

Table 3

Classification by performance	Symbol	Remark
Ordinary window for interior installed	u	That of a grade not less than 40 kgf/m^2 (392.3 N/m^2) in wind-pressure resistance having an air-tightness corresponding to grade 30
Airtight window for interior installed	t	That of a grade not less than 60 kgf/m^2 (588.4 N/m^2) in wind-pressure resistance having an air-tightness corresponding to grade 8 or grade 2

3. Construction

3.1 Shape of Frame for Windows for Interior Installed The shape of frame for windows for interior installed shall be suitable for fitting to the skeleton of a building, the interior structure or the frame of an exterior window.

The sill used for a doorway shall not be deformed or damaged easily in the ordinary use.

3.2 Assembling The joints in the assembly of main component members of windows for interior installed shall be made by fusion welding of resin, adhesion, fixing by bolts using an auxiliary metal member, fixing by screws, or others, such that they do not be easily separated by an external force.

3.3 Fixing of Attached Components The fixing portions of attached components used for windows for interior installed shall have a sufficient strength, for example, by the use of an auxiliary metal member. The attached components shall be so constructed that they are exchangeable.

3.4 Reinforcement When a steel product is used as a reinforcement of windows for interior installed, the thickness shall be 1.2 mm and over, and the minimum zinc deposit mass by hot dip galvanizing, be 90 g/m² and over.

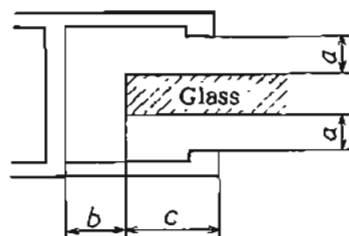
When metal materials are to be used, measures shall be taken to prevent occurrence of contact corrosion between different metals.

3.5 Recess for Thermal Expansion of PVC The windows for interior installed shall have a construction wherein the deformation of principal component members due to the thermal expansion can be absorbed.

3.6 Connection of Groove for Glass and Glass The shape of groove for glass of a window for interior installed and the connection of the groove for glass and the glass to be used shall be as shown in the following (1) to (3).

- (1) The designation of dimensions of connection between the groove for glass and the glass shall be as shown in Fig. 1.

Fig. 1



a : Surface clearance
 b : Edge clearance
 c : Connection dimension

- (2) In placing a wire-net glass, a wired glass and a double glazing, the edge clearance b at the lower side shall be 7 mm and over, and a channel-shaped gasket shall not be used.
- (3) In placing a double glazing, the connection dimension c shall be 12 mm and over.

Remark: When using a float glass, a patterned glass and a toughened glass, 6.1 of JIS A 4706 shall be followed.

3.7 Removal of Water in Contact with Wire-Net Glass, Wired Glass, Laminated Glass and Double Glazing The windows using a wire-net glass, a wired glass, a laminated glass and a double glazing shall be constructed such that the water in contact with the edge portion of the glass can rapidly be removed. The dimension of a drain hole shall be 5 mm and over in diameter in the case of a round hole, 3 mm and over in width in the case of a slit and 18 mm² and over in area with a minor diameter of 4 mm and over in the case of an elliptic hole. The number of drain holes in the bottom rail and the sill shall be 3 and more disposed at the center, right and left portions between the setting blocks of the glass. However, when the setting blocks do not serve as a dam, the drain hole at the center may be omitted.

4. Dimensions

4.1 Width and Height of Windows for Interior Installed The restriction for the width and height of windows for interior installed shall be defined as shown in Figs. 2.1 to 2.3.

4.2 Nominal Dimensions for Width and Height of Windows for Interior Installed

The module nominal dimensions for width ∇W and height ∇H of windows for interior installed shall be in accordance with the module nominal dimensions of the doors and windows specified in JIS A 4702 and JIS A 4706, and the nominal dimensions for the width (W) and height (H) shall be as given in Tables 4.1 to 4.4.

Table 4.1

Nominal dimension for width of windows for interior installed W mm		350	550	750	950	1 150	1 550	1 750	1 950	2 350	3 150	3 950
Nominal dimensions for height of windows for interior installed H mm	Nominal dimensions for width of exterior windows ∇W mm											
	Nominal dimensions for height of exterior windows ∇H mm	400	600	800	1 000	1 200	1 600	1 800	2 000	2 400	3 200	4 000
300	400	0303	0503	0703	0903	1103	1503	1703	1903	2303	3103	3903
500	600	0305	0505	0705	0905	1105	1505	1705	1905	2305	3105	3905
700	800		0507	0707	0907	1107	1507	1707	1907	2307	3107	3907
900	1 000		0509	0709	0909	1109	1509	1709	1909	2309	3109	3909
1 100	1 200			0711	0911	1111	1511	1711	1911	2311	3111	3911
1 500	1 600				0915	1115	1515	1715	1915	2315	3115	3915
1 900	2 000					1119	1519	1719	1919	2319	3119	3919
2 000	2 100						1520	1720	1920	2320	3120	3920
2 150	2 250						1521	1721	1921	2321	3121	3921
2 300	2 400						1523	1723	1923	2323	3123	3923
2 400	2 500							1724	1924	2324	3124	3924
2 600	2 700							1726	1926	2326	3126	3926
2 900	3 000							1729	1929	2329	3129	3929
3 100	3 200							1731	1931	2331	3131	3931

Remark: The table applies to the openings specified in JIS A 0005.

Table 4.2

Nominal dimension for width of windows for interior installed W mm		870	1 270	1 400	1 500	1 600	1 740	1 800	1 920	2 100
Nominal dimen- sions for height of windows for interior installed H mm	Nominal dimensions for width of exterior windows ∇W mm	900	1 300	1 400	1 500	1 600	1 700	1 800	1 900	2 100
	Nomi- nal dimen- sions for height of exterior windows ∇H mm									
460	450	0804	1204	1404	1504	1604	1704	1804	1904	2104
500	500	0805	1205	1405	1505	1605	1705	1805	1905	2105
560	550	0805(1)*	1205(1)*	1405(1)*	1505(1)*	1605(1)*	1705(1)*	1805(1)*	1905(1)*	2105(1)*
780	750	0807	1207	1407	1507	1607	1707	1807	1907	2107
1 080	1 050	0810	1210	1410	1510	1610	1710	1810	1910	2110
1 250	1 250	0812	1212	1412	1512	1612	1712	1812	1912	2112
1 380	1 350	0813	1213	1413	1513	1613	1713	1813	1913	2113
1 450	1 450		1214	1414	1514	1614	1714	1814	1914	2114
1 650	1 650			1416	1516	1616	1716	1816	1916	2116
1 900	1 900					1619	1719	1819	1919	2119
1 950	1 950					1619(1)*	1719(1)*	1819(1)*	1919(1)*	2119(1)*
2 050	2 050					1620	1720	1820	1920	2120
2 100	2 100					1621	1721	1821	1921	2121

Note *: (1) denotes a symbol indicating that the nominal dimension for height (H) of the window for interior installed is different.

Remark: The table applies to the openings of reinforced concrete constructions and steel frame buildings.

Table 4.3

Nominal dimension for width of windows for interior installed W mm		810	870	1 270	1 400	1 740	1 920	2 630	2 880	3 540	3 840
Nominal dimensions for height of windows for interior installed H mm	Nominal dimensions for width of exterior windows ∇W mm	790	840	1 245	1 370	1 700	1 900	2 610	2 855	3 520	3 810
	Nominal dimensions for height of exterior windows ∇H mm										
370	365	0803	0803(4)**	1203	1403	1703	1903	2603	2803		
460	455	0804	0804(4)**	1204	1404	1704	1904	2604	2804		
630	605	0806	0806(4)**	1206	1406	1706	1906	2606	2806	3506	3806
780	755	0807	0807(4)**	1207	1407	1707	1907	2607	2807	3507	3807
855	850	0808	0808(4)**	1208	1408	1708	1908	2608	2808	3508	3808
930	910	0809	0809(4)**	1209	1409	1709	1909	2609	2809	3509	3809
1 080	1 060			1210	1410	1710	1910	2610	2810	3510	3810
1 190	—			1211	1411	1711	1911	2611	2811	3511	3811
1 215	1 210			1212	1412	1712	1912	2612	2812	3512	3812
1 380	1 365					1713	1913	2613	2813	3513	3813
1 780	1 760					1717	1917	2617	2817	3517	3817
1 820	1 790					1718	1918	2618	2818	3518	3818
1 900	1 850					1719	1919	2619	2819	3519	3819
2 100	2 100					1721	1921	2621	2821		
2 240	2 200					1722	1922	2622	2822		
2 320	2 300					1723	1923	2623	2823		

Note **: "(4)" denotes a symbol indicating that the nominal dimension for width (W) of the window for interior installed is different.

Remark: The table applies to the openings of wooden buildings.

Table 4.4

Nominal dimension for width of windows for interior installed W mm		430	510	600	730	870	920
Nominal dimen- sions for height of windows for interior installed H mm	Nominal dimensions for width of exterior windows ▼ W mm	430	510	590	730	890	920
	Nomi- nal dimen- sions for height of exterior windows ▼ H mm						
460	430	0404					
500	500		0505	0605	0705	0805	
560	560		0505(1)*	0605(1)*	0705	0805(1)*	0905(1)*
780	750		0507	0607	0707	0807	0907
855	850			0608	0708	0808	0908
930	910				0709	0809	0909
960	960				0709(1)*	0809(1)*	0909(1)*
1 380	1 360				0713	0813	0913
1 780	1 750					0817	0917
1 820	1 820					0818	0918
1 900	1 900					0819	0919
2 100	2 100					0821	0921
2 240	2 240					0822	0922
2 320	2 300					0823	0923

Remark: The table applies to the swing windows for interior installed.