

Test report of NAX Hermetic Door

Revision mark	Description
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1. Test place

JAPAN TESTING CENTER FOR CONSTRUCTION MATERIALS
CENTRAL TEST LABORATORY

2. Product name

- ◇ NAX-SG Hermetic Door (Single sliding)
- ◇ NAX-SN Hermetic Door (Single sliding)

3. Test item

- ◇ Air permeability test of NAX-SG Hermetic Door
- ◇ Airborne sound insulation test of NAX-SN Hermetic Door

4. Test method

- ◇ Air permeability test
The test was performed according to ISO 8272 “Doorsets – Air permeability test.”
- ◇ Airborne sound insulation test
JIS A1416 [Acoustic-Method for laboratory measurement of airborne sound insulation of building elements]

5. Test results

- ◇ Air permeability test
The test results are shown in Table 1.
As a reference, the test results are plotted in the airtightness grade diagram of JIS A 4702 (Doorsets) shown in fig.1.
- ◇ Airborne sound insulation test
Result of the grade judgment according to JIS A 4702 (Doorsets) shown in Table 2.

6. Test report number

- ◇ Air permeability test report number ... No.14A4036
- ◇ Airborne sound insulation test report number ... No.14A4042

Table 1. Air permeability test result

Differential Pressure ΔP (Pa)	Amount of permeation q ($m^3/h \cdot m^2$)		Specimen area	Test chamber climate for the test	
	Positive pressure	Negative pressure			
During pressure rising	10	0.21	0.28	2.80 m^2 (W1400mm×H2000mm)	Temperature 9.2 °C Air pressure 1025hPa
	20	0.41	0.41		
	30	0.59	0.57		
	40	0.74	0.71		
	50	0.84	0.81		
	60	0.94	0.93		
	70	1.03	1.05		
	80	1.11	1.14		
	90	1.20	1.25		
	100	1.27	1.37		
During pressure lowering	90	1.19	1.28	2.80 m^2 (W1400mm×H2000mm)	Temperature 9.2 °C Air pressure 1025hPa
	80	1.09	1.18		
	70	1.01	1.07		
	60	0.92	0.94		
	50	0.81	0.84		
	40	0.71	0.71		
	30	0.58	0.56		
	20	0.43	0.40		
	10	0.24	0.20		
Remarks	The airflow quantity indicated in Fig.5 is the larger one between the airflow quantity at the pressure rising and the airflow quantity at the pressure lowering.				
Date of test	March 6, 2015				

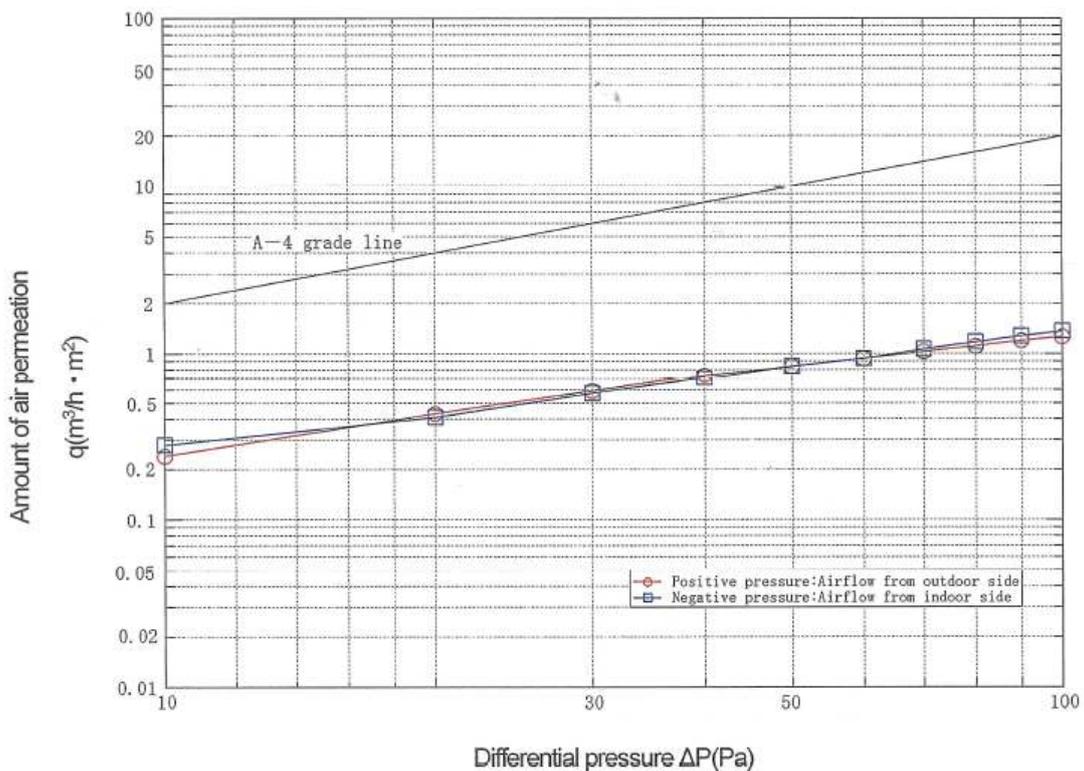
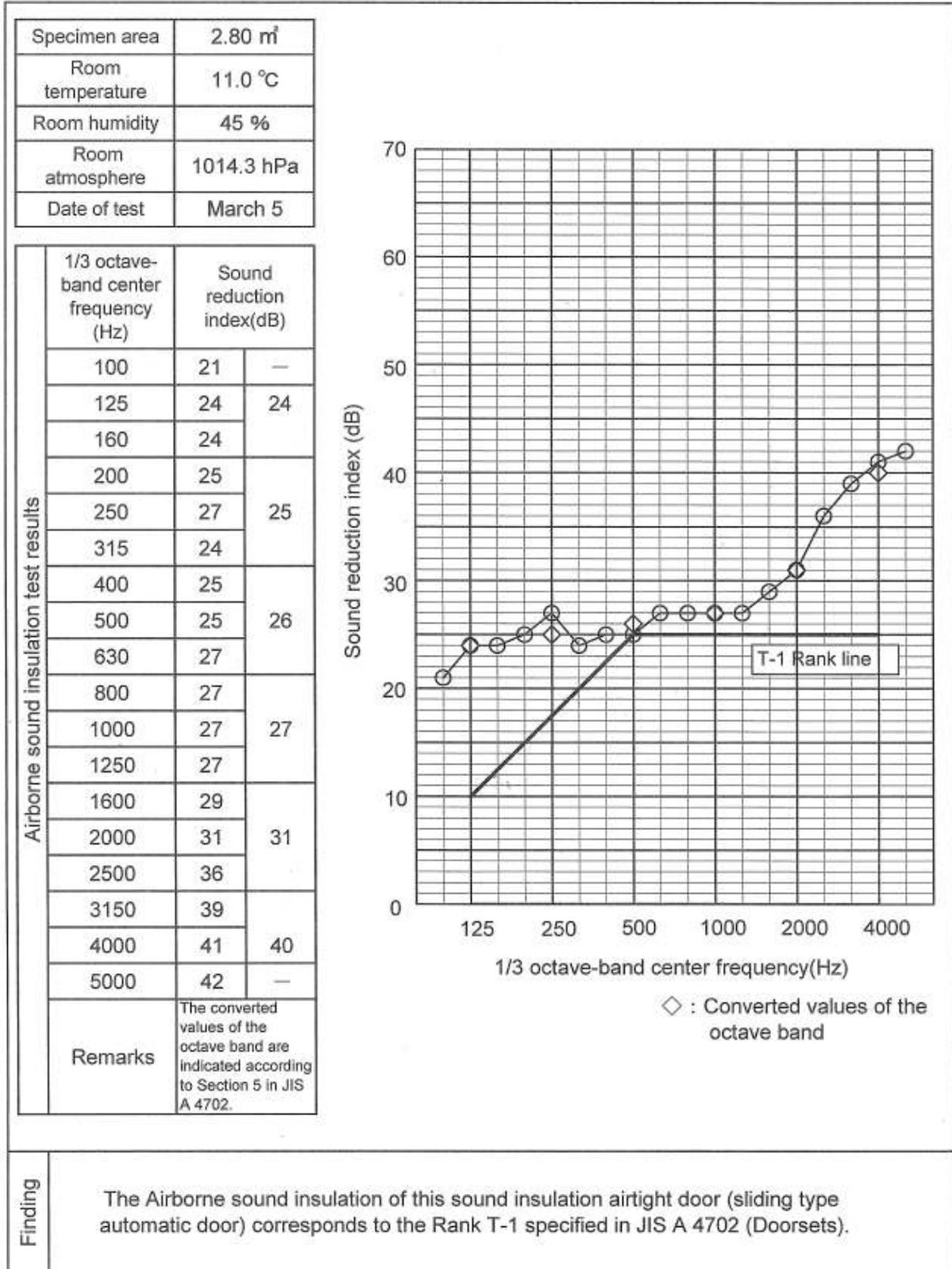


Fig.1 Airtightness grade diagram(Reference)

Table 2. Airborne sound insulation test result



Finding

The Airborne sound insulation of this sound insulation airtight door (sliding type automatic door) corresponds to the Rank T-1 specified in JIS A 4702 (Doorsets).