

BUILDING LEAKAGE TEST

Date of Test: 19.11.2010
 Test File: kasukkala 2 alipainem

Technician: J-P Purtilo, Pentti Holopainen

Customer:

Building Address:

Test Results at 50 Pascals:

V50: Airflow (m³/h) 1713 (+/- 0.4 %)
 n50: Air Changes per Hour (1/h) 0.46
 w50: m³/(h*m² Floor Area) 1.53
 q50:

Leakage Areas:

634.7 cm² (+/- 2.1 %) Canadian EqLA @ 10 Pa
 326.8 cm² (+/- 3.3 %) LBL ELA @ 4 Pa

Building Leakage Curve:

Air Flow Coefficient (Cenv) = 114.3 (+/- 5.1 %)
 Air Leakage Coefficient (CL) = 117.4 (+/- 5.1 %)
 Exponent (n) = 0.685 (+/- 0.013)
 Correlation Coefficient = 0.99861

Test Standard:

EN 13829 Test Mode:

Depressurization

Type of Test Method:

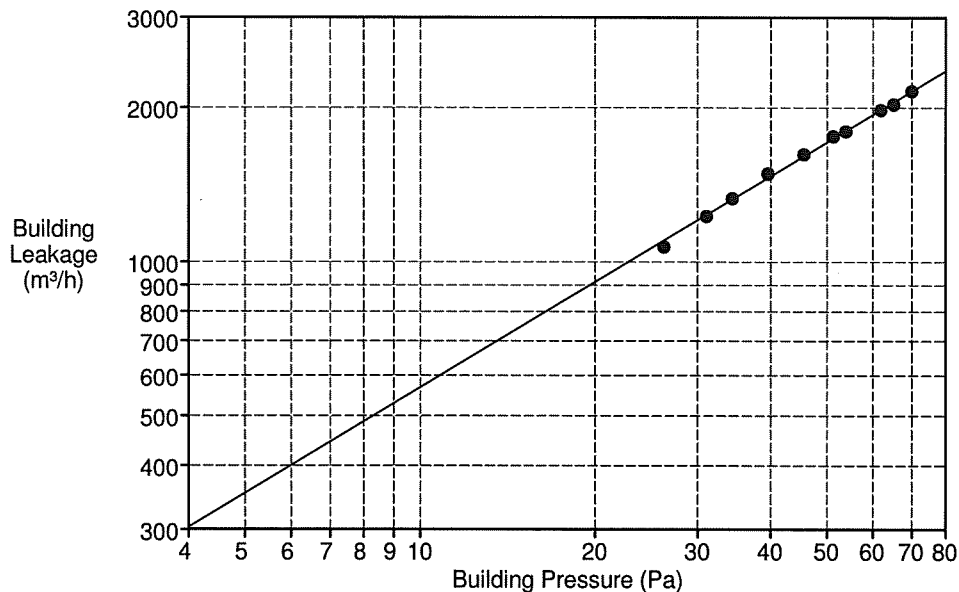
B

Regulation complied with:

Equipment:

Model 4 (230V) Minneapolis Blower Door

Inside Temperature:	24 °C	Volume:	3728 m³
Outside Temperature:	-4 °C	Surface Area:	
Barometric Pressure:	101325 Pa	Floor Area:	1121 m²
Wind Class:	2 Light Breeze	Uncertainty of	
Building Wind Exposure:	Highly Protected Building	Building Dimensions:	%
Type of Heating:		Year of Construction:	2010
Type of Air Conditioning:			
Type of Ventilation:	None		



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Date of Test: 19.11.2010 Test File: kasukkala 2 alipainem

Comments

Data Points: Depressurization

Nominal Building Pressure (Pa)	Fan Pressure (Pa)	Nominal Flow (m ³ /h)	Temperature Adjusted Flow (m ³ /h)	% Error	Fan Configuration
-2.7	n/a				
-72.2	73.9	2300	2155	-0.0	Ring A
-67.3	65.6	2169	2032	-1.0	Ring A
-64.1	62.3	2114	1981	-0.1	Ring A
-56.1	51.3	1920	1798	-0.2	Ring A
-53.5	49.1	1878	1759	1.0	Ring A
-47.9	41.6	1731	1622	0.8	Ring A
-41.8	35.0	1588	1488	2.0	Ring A
-36.7	27.9	1420	1330	0.3	Ring A
-33.3	267.1	1311	1228	-0.6	Ring B
-28.5	201.9	1141	1069	-3.0	Ring B
-1.8	n/a				

Test 1 Baseline (Pa): p01- = -2.7 p01+ = 0.0 p02- = -1.8 p02+ = 0.0

BUILDING LEAKAGE TEST

Date of Test: 19.11.2010
 Test File: kasukkala 4 ylipainem
 Customer:

Technician: J-P Purtilo, Pentti Holopainen
 Building Address: Koulurakennus

Test Results at 50 Pascals:

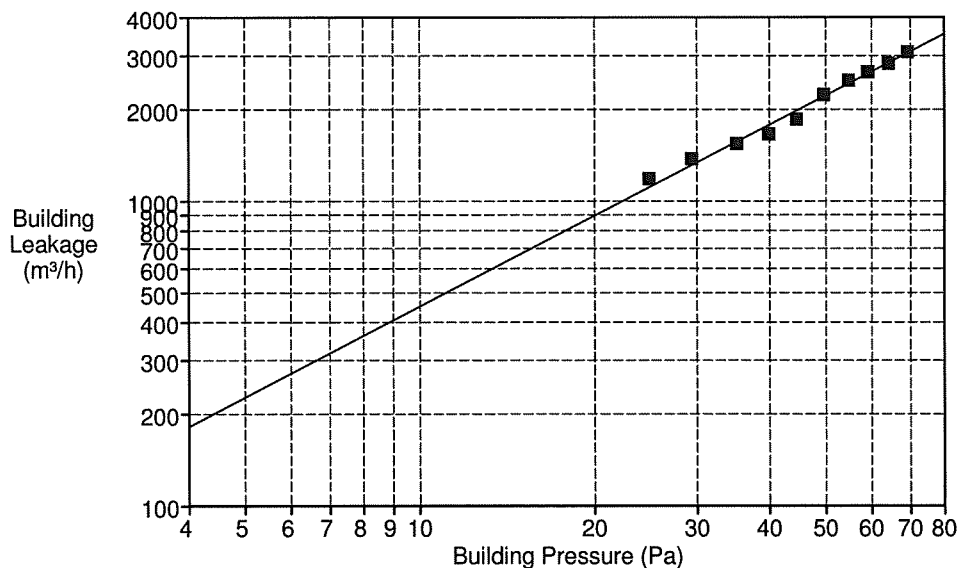
V50: Airflow (m³/h) 2225 (+/- 1.1 %)
 n50: Air Changes per Hour (1/h) 0.60
 w50: m³/(h*m² Floor Area) 1.98
 q50:

Leakage Areas: 504.4 cm² (+/- 6.9 %) Canadian EqLA @ 10 Pa
 196.3 cm² (+/- 10.6 %) LBL ELA @ 4 Pa

Building Leakage Curve: Air Flow Coefficient (Cenv) = 46.2 (+/- 16.3 %)
 Air Leakage Coefficient (CL) = 46.2 (+/- 16.3 %)
 Exponent (n) = 0.990 (+/- 0.041)
 Correlation Coefficient = 0.99326

Test Standard: EN 13829 Test Mode: Pressurization
 Type of Test Method: B Regulation complied with:
 Equipment: Model 4 (230V) Minneapolis Blower Door

Inside Temperature:	24 °C	Volume:	3728 m ³
Outside Temperature:	-4 °C	Surface Area:	
Barometric Pressure:	101325 Pa	Floor Area:	1121 m ²
Wind Class:	2 Light Breeze	Uncertainty of	
Building Wind Exposure:	Highly Protected Building	Building Dimensions:	%
Type of Heating:		Year of Construction:	2010
Type of Air Conditioning:			
Type of Ventilation:	None		



BUILDING LEAKAGE TEST Page 2

Date of Test: 19.11.2010 Test File: kasukkala 4 ylipainem

Comments

Data Points: Depressurization:

Nominal Building Pressure (Pa)	Fan Pressure (Pa)	Nominal Flow (m ³ /h)	Temperature Adjusted Flow (m ³ /h)	% Error	Fan Configuration
-2.6	n/a				
67.1	119.0	2913	3081	0.5	Ring A
62.1	100.3	2677	2831	-0.5	Ring A
57.0	88.0	2508	2652	1.1	Ring A
52.7	77.2	2351	2486	2.2	Ring A
47.5	62.2	2112	2234	1.2	Ring A
42.4	42.7	1753	1854	-6.5	Ring A
37.8	34.2	1570	1660	-6.5	Ring A
33.0	330.1	1457	1541	-1.6	Ring B
27.3	263.3	1302	1377	4.9	Ring B
22.7	194.2	1119	1184	6.6	Ring B
-1.5	n/a				
Test 1 Baseline (Pa):		p01- = -2.6	p01+ = 0.0	p02- = -1.5	p02+ = 0.0