



BlowerDoor GmbH
MessSysteme für Luftdichtheit

BUILDING LEAKAGE TEST

THERMO-LOGIC



Date of Test: 2020-07-09 Test File: Untitled

Technician: Fredrik Klingvall

Project Number: Torp 1:69

Customer:

Building Address: Hagtorpsvägen 1

Test Results at 50 Pascals:

q 50 : l/s (Airflow) 57 (+/- 1.7 %)
n 50 : q F50 :

q E50 : lps/m² (Envelope Area) 0.11

Leakage Areas:

ELA 50 : m² ELA 0.0062 (+/- 1.7 %)

F50 :

ELA E50 : m²/m² 0.0000126

Building Leakage Curve:

Air Flow Coefficient (C env) = 3.7 l/s/Paⁿ (+/- 11.3 %)

Air Leakage Coefficient (C L) = 3.7 l/s/Paⁿ (+/- 11.3 %)

Exponent (n) = 0.698 (+/- 0.031)

Coefficient of Determination (r²) = 0.99755

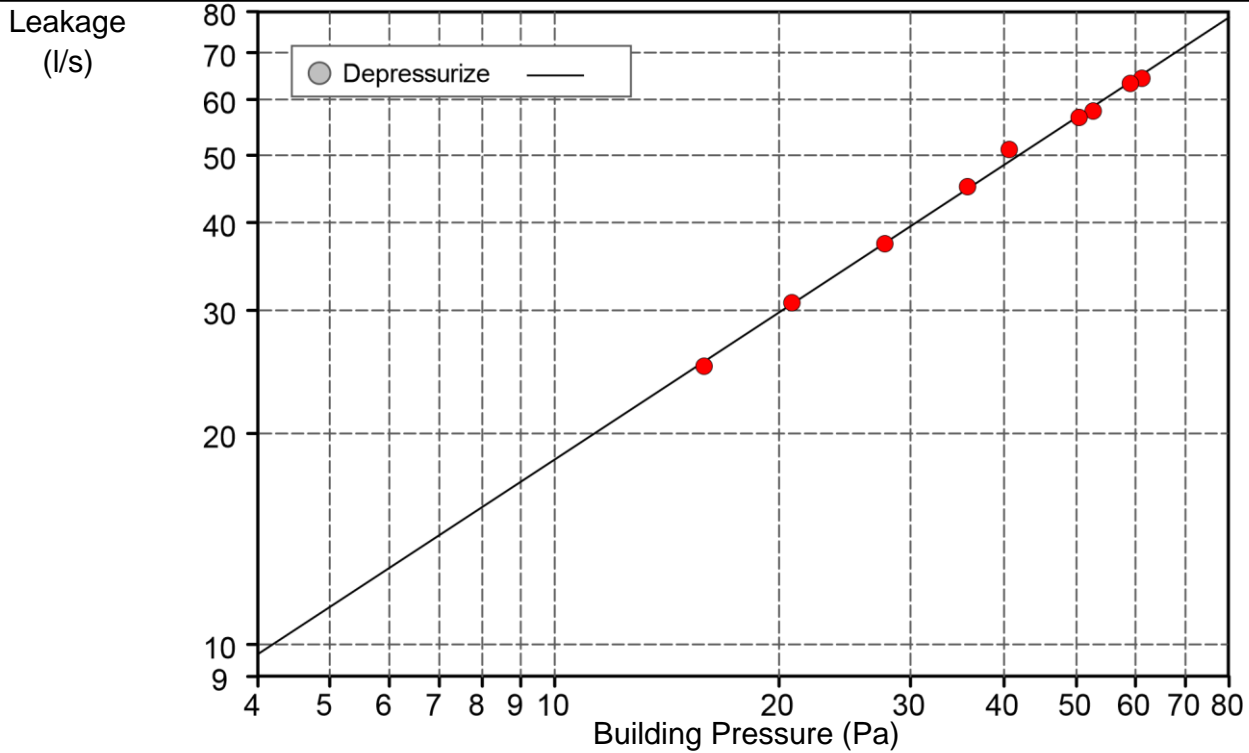
Test Standard: ISO 9972

Test Mode: Depressurization

Type of Test Method:

Purpose of Test:

Building



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Building Information

Internal Volume, V (m ³) (according to ISO)	
Net Floor Area, A F (m ²) (according to ISO)	
Envelope Area, A E (m ²) (according to ISO)	493.1
Height (m)	3.2
Uncertainty of Dimensions (%)	5
Year of Construction	2020
Type of Heating	
Type of Air Conditioning	
Type of Ventilation	None
Building Wind Exposure	Highly Protected Building
Wind Class	Moderate Breeze

Equipment Information

Type	Manufacturer	Model	Serial Number	Custom Calibration Date
Fan	Energy Conservatory	Model 4 (230V)		-
Micromanometer	Energy Conservatory	DG1000	938	2017-11-01

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Depressurization Test:

Environmental Data

Indoor Temperature (°C)	Outdoor Temperature (°C)	Barometric Pressure (Pa)
22.0	15.0	101325.0

Baseline Pressure Data

Pre-Test			Post-Test		
$\Delta p_{0,1-}$	$\Delta p_{0,1+}$	$\Delta p_{0,1}$	$\Delta p_{0,2-}$	$\Delta p_{0,2+}$	$\Delta p_{0,2}$
-0.4	0.0	-0.4	-0.2	0.0	-0.2

Data Points - Automated Test (TTE 5.1.7.3)

Nominal Pressure (Pa)	Baseline		Adjusted Flow q r (l/s)	Adjusted Building Flow		% Error	Fan Configuration
	adjusted Building Pressure (Pa)	Nominal Fan Pressure (Pa)		Flow q env (l/s)	Flow q L (l/s)		
-0.4	n/a	n/a					
-61.5	-61.2	127.7	65	64	64	-1.2	Ring C
-59.4	-59.1	123.6	64	63	63	-0.4	Ring C
-52.9	-52.6	103.8	59	58	58	-1.3	Ring C
-50.7	-50.4	99.5	57	56	57	-0.5	Ring C
-41.0	-40.7	81.0	52	51	51	4.0	Ring C
-36.0	-35.7	64.0	46	45	45	0.8	Ring C
-28.0	-27.7	44.5	38	37	37	-0.2	Ring C
-21.1	-20.8	30.6	31	31	31	0.5	Ring C
-16.2	-15.9	20.4	25	25	25	-1.5	Ring C
-0.2	n/a	n/a					

Deviations from Standard ISO 9972 - Test Parameters

- The minimum pressure is not within +/- 3Pa of the greater of 10 Pa or (5 * zero-flow pressure Δp_{01}).

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Comments

None
