BUILDING LEAKAGE TEST

Date of Test: 29.4.2009
Test File: Geier

Technician: Kalousek

Customer: Geier

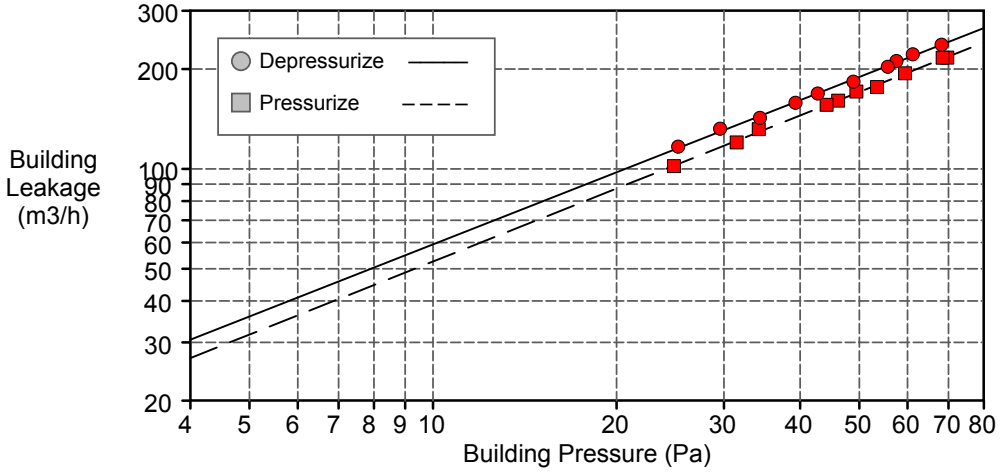
Building Address: Pasive house
Hlavní 40
Popice, ČR

Phone:
Fax:

	Depressurization	Pressurization	Average
Test Results at 50 Pascals:			
V50: Airflow (m3/h)	189 (+/- 0.4 %)	171 (+/- 0.3 %)	180
n50: Air Changes per Hour (1/h)	0.35	0.32	0.33
w50: m3/hm2 Floor Area	1.05	0.95	1.00
q50: m3/hm2 Surface Area	0.45	0.41	0.43
Leakage Areas:			
Canadian EqLA @ 10 Pa (cm2)	66.1 (+/- 2.1 %)	58.7 (+/- 2.0 %)	62.4
cm2/m2 Surface Area	0.16	0.14	0.15
LBL ELA @ 4 Pa (cm2)	32.9 (+/- 3.3 %)	29.0 (+/- 3.0 %)	30.9
cm2/m2 Surface Area	0.08	0.07	0.07
Building Leakage Curve:			
Air Flow Coefficient (Cenv)	11.2 (+/- 5.2 %)	9.8 (+/- 4.6 %)	
Air Leakage Coefficient (CL)	11.2 (+/- 5.2 %)	9.8 (+/- 4.6 %)	
Exponent (n)	0.722 (+/- 0.013)	0.732 (+/- 0.012)	
Correlation Coefficient	0.99868	0.99898	

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

Inside Temperature:	20 °C	Volume:	540 m3
Outside Temperature:	20 °C	Surface Area:	420 m2
Barometric Pressure:	101325 Pa	Floor Area:	180 m2
Wind Class:	1 Light Air	Uncertainty of Building Dimensions:	10 %
Building Wind Exposure:	Highly Protected Building	Year of Construction:	2009
Type of Heating:	Gas, floor		
Type of Air Conditioning:	Atrea		
Type of Ventilation:	None		



BUILDING LEAKAGE TEST Page 2

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Comments

Data Points: Depressurization:

Nominal Building Pressure (Pa)	Fan Pressure (Pa)	Nominal Flow (m3/h)	Temperature Adjusted Flow (m3/h)	% Error	Fan Configuration
-0.1	n/a				
-68.4	129.4	237	237	-0.1	Ring C
-61.4	113.6	222	222	1.1	Ring C
-57.7	103.9	212	212	0.9	Ring C
-55.9	96.1	203	203	-0.8	Ring C
-49.1	78.7	183	183	-1.7	Ring C
-42.9	67.1	169	169	-0.2	Ring C
-39.5	59.2	158	158	-0.6	Ring C
-34.6	48.4	143	143	-1.3	Ring C
-29.7	41.7	132	132	2.0	Ring C
-25.4	32.8	117	117	1.0	Ring C
-0.2	n/a				

Test 1 Baseline (Pa): p01- = -0.3 p01+ = 0.4 p02- = -0.4 p02+ = 0.4

Data Points: Pressurization:

Nominal Building Pressure (Pa)	Fan Pressure (Pa)	Nominal Flow (m3/h)	Temperature Adjusted Flow (m3/h)	% Error	Fan Configuration
-0.2	n/a				
69.1	108.7	217	217	-0.1	Ring C
67.9	108.5	216	216	1.1	Ring C
58.8	88.0	194	194	0.7	Ring C
52.8	73.0	176	176	-1.1	Ring C
48.8	68.9	171	171	1.6	Ring C
45.6	60.8	160	161	0.3	Ring C
43.6	57.5	156	156	0.6	Ring C
33.6	41.5	132	132	2.8	Ring C
30.9	34.7	120	120	-0.3	Ring C
24.2	25.2	102	102	0.8	Ring C
-1.0	n/a				

Test 1 Baseline (Pa): p01- = -0.3 p01+ = 0.2 p02- = -1.3 p02+ = 0.4