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Building Air Leakage Test Results
In Compliance with European Norm EN13829



Building Details

Building Address: Lekke str . 1 1000 AA t Gat	Elevation: Height above ground: Building Volume, V:	1 m 9 m 500 m³
Test technician: J. Blaas	Total envelope area, A _{T BAT}	280,9 m²
Test company: Jogó Services	Building exposure to wind: Accuracy of measurements:	Onbeschermd gebouw 99%

Testing Details

Fan Model: Retrotec 3000SR	Fan SN: dPH000238	Gauge Model: DM-2	Gauge SN: 2047990
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Onderdruk set

Date: **2012-01-17** Time: **10:30** to **11:03**

Environmental Conditions:

Barometric Pressure: **103 KPa** from **Directe meting.**

Wind speed: **1. zwakke wind**

Temperature: Initial: indoors **21 °C** outdoors **4 °C**.
Final: indoors **19 °C** outdoors **4 °C**.

Test Data:

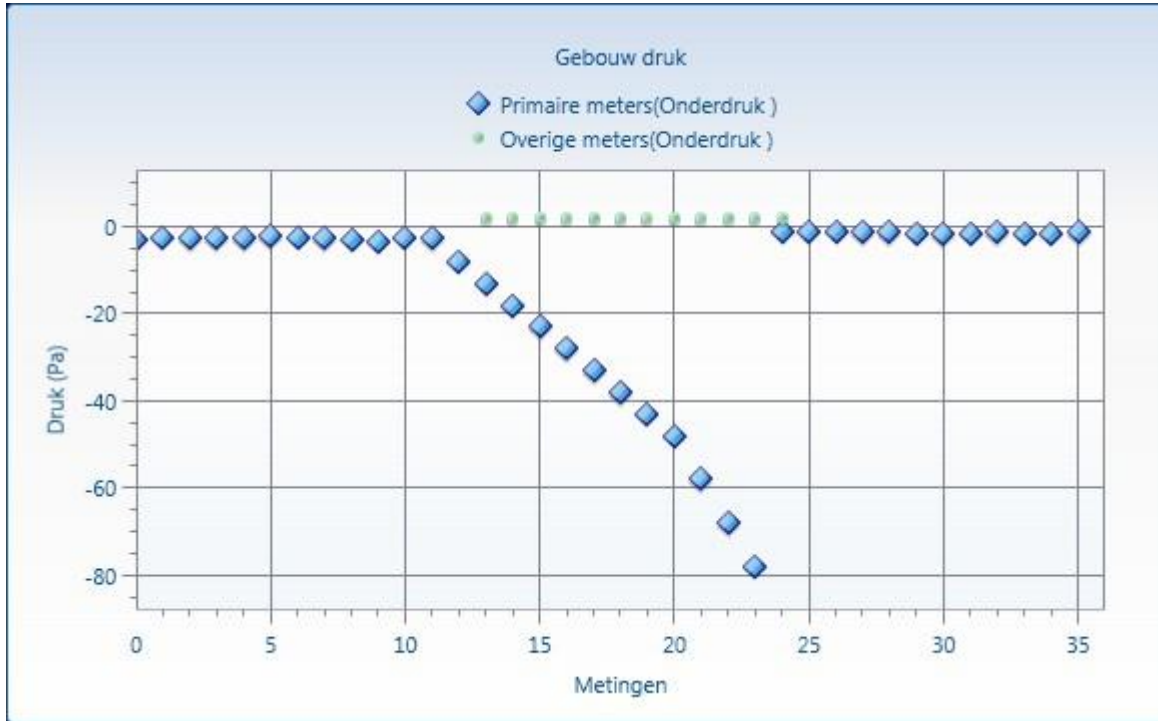
10 bias pressures taken for **10** sec each.

10 induced pressures taken for **20** sec each.

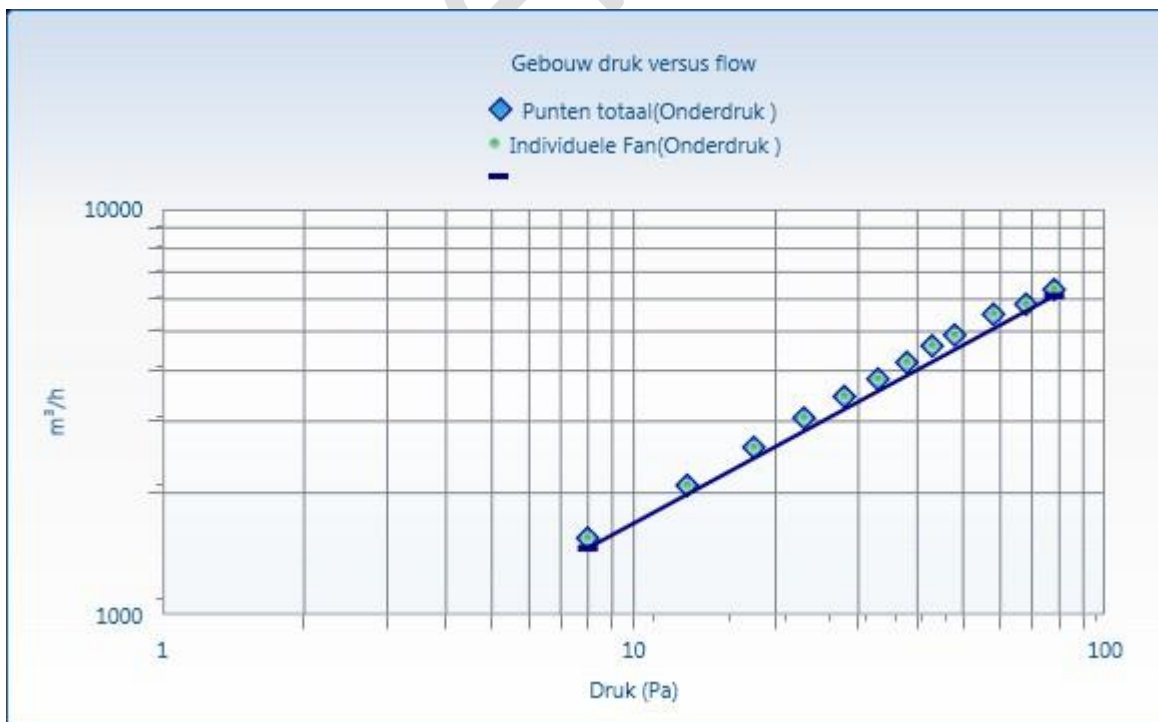
Bias, initial [Pa]	-2,84	-2,41	-2,73	-2,54	-2,76	-2,25	-2,41	-2,76	-2,80	-3,37	-2,50	-2,71
Building Test Pressure [Pa]	-10,0	-15,0	-20,0	-25,0	-30,0	-35,0	-40,0	-45,0	-50,0	-60,0	-70,0	-80,0
Bias, final [Pa]	-1,08	-1,15	-1,15	-1,33	-1,25	-1,50	-1,70	-1,55	-1,37	-1,46	-1,40	-1,34
Door Fan Pressure, [Pa]	430	580	720	850	960	1060	1165	1280	1360	1530	1620	1760
Total flow, V _r [m ³ /h]	1548	2088	2592	3060	3456	3816	4194	4608	4896	5508	5832	6336
Corrected flow, V _{env} [m ³ /h]	1450	1955	2427	2865	3236	3573	3927	4315	4585	5158	5461	5933
Error [%]	-0,9%	-1,5%	-0,3%	0,9%	0,7%	0,3%	0,9%	2,5%	1,7%	1,6%	-2,7%	-3,0%

Bias pressure Averages: initial [Pa] ΔP_{01} **-2,67**, ΔP_{01-} **-2,67**, ΔP_{01+} **0,00**
final [Pa] ΔP_{01} **-1,36**, ΔP_{01-} **-1,36**, ΔP_{01+} **0,00**

Induced Pressure



Induced Pressure vs. Flow



Onderdruk Test Results

	Results			Results	95% confidence		Uncertainty	
		95% confidence limits						
Correlation, r [%]	99,92			<i>Air flow at 10 Pa, V_{10} [m³/h]</i>	1730	1690	1775	+/-0,0236
Intercept, C_{env} [m ³ /h.Pa ⁿ]	396,5	372,5	422,1	<i>Air changes at 10 Pa, n_{10} [/h]</i>	3,465	0,03370	6,890	+/-0,9903
Intercept, C_L [m ³ /h.Pa ⁿ]	407,68	383,0	434,0	<i>Permeability at 10 Pa, q_{10} [m³/h.m²]</i>	6,164	0,060	12,268	+/-0,9903
Slope, n	0,6281	0,6102	0,6459	<i>Specific Leakage at 10 Pa, w_{10} [m³/h.m²]</i>	6,164	0,060	12,268	+/-0,9903

Gecombineerde testgegevens

	Resultaten	95% betrouwbaarheidsinterval		Onzekerheid
<i>Air flow at {Airflow1RefPa} Pa, $V_{\{Airflow1RefPa\}}$ [m³/h]</i>	1730	1690	1775	+/-0,0236
<i>Air changes at {Airflow1RefPa} Pa, $n_{\{Airflow1RefPa\}}$ [/h]</i>	3,465	0,03370	6,890	+/-0,9903
<i>Permeability at 10 Pa, q_{10} [m³/h.m²]</i>	6,164	0,060	12,268	+/-0,9900
<i>Specific leakage at 10 Pa, w_{10} [m³/h.m²]</i>	6,164	0,060	12,268	+/-0,9900

Test Notes: (voeg notitie toe)

Calibration Certificate

Retrotec 3000SR dPH000238.						
Range	N	K	K1	K2	K3	K4
Open(22)	0,5214	486,99	-0,07	0,8	-0,115	1,067
A	0,503	259,038	-0,075	1	0	1,023
B	0,5	174,8824	0	0,3	0	1
C8	0,5	78,5	-0,02	0,5	0,016	1
C6	0,505	61,3	0,054	0,5	0,004	1
C4	0,5077	42	0,009	0,5	0,0009	1
C2	0,52	22	0,11	0,5	-0,001	1
C1	0,541	11,9239	0,13	0,4	-0,0014	1
L4	0,48	4,0995	0,003	1	0,0004	1
L2	0,502	2,0678	0	0,5	0,0001	1
L1	0,4925	1,1614	0,1	0,5	0,0001	1