



Protocol On-Site Test

Air Permeability



Test Object

Name:	Juntion Window - Wall
	4*40cm of joint
	BlowerProof Liquid Brush
Test Date:	11-7-2014

Customer Information

Name:	Hevadex bvba
Address:	Smalle Heerweg 152 9080 Lochristi
Phone:	+32 475 73 85 46
Fax:	+32 9 270 33 44

Temperature, Barometric Pressure

Temperature Inside	23	°C
Temperature Outside	23	°C
Barometric Pressure	101325	Pa

Orifice Plate

Air Resistance Value c_d :	0,61	[-] (sharp-edged)
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Test

Orifice Diameter (cm)	Orifice Area (A_o) (cm ²)	Δp Wall/Box (Pa)	Δp Orifice (Pa)	Airflow through Orifice (m ³ /h)	Tolerance (%)	Airflow through Wall (m ³ /h)
—	Baseline $\Delta p \Rightarrow$	0,00	—	—	—	—
1,50	1,77	-220,00	0,30	0,28	-1,23	0,28
1,50	1,77	-150,00	0,20	0,22	2,18	0,22
1,50	1,77	-90,00	0,10	0,16	-0,92	0,16
—	—	—	—	—	—	—

Results

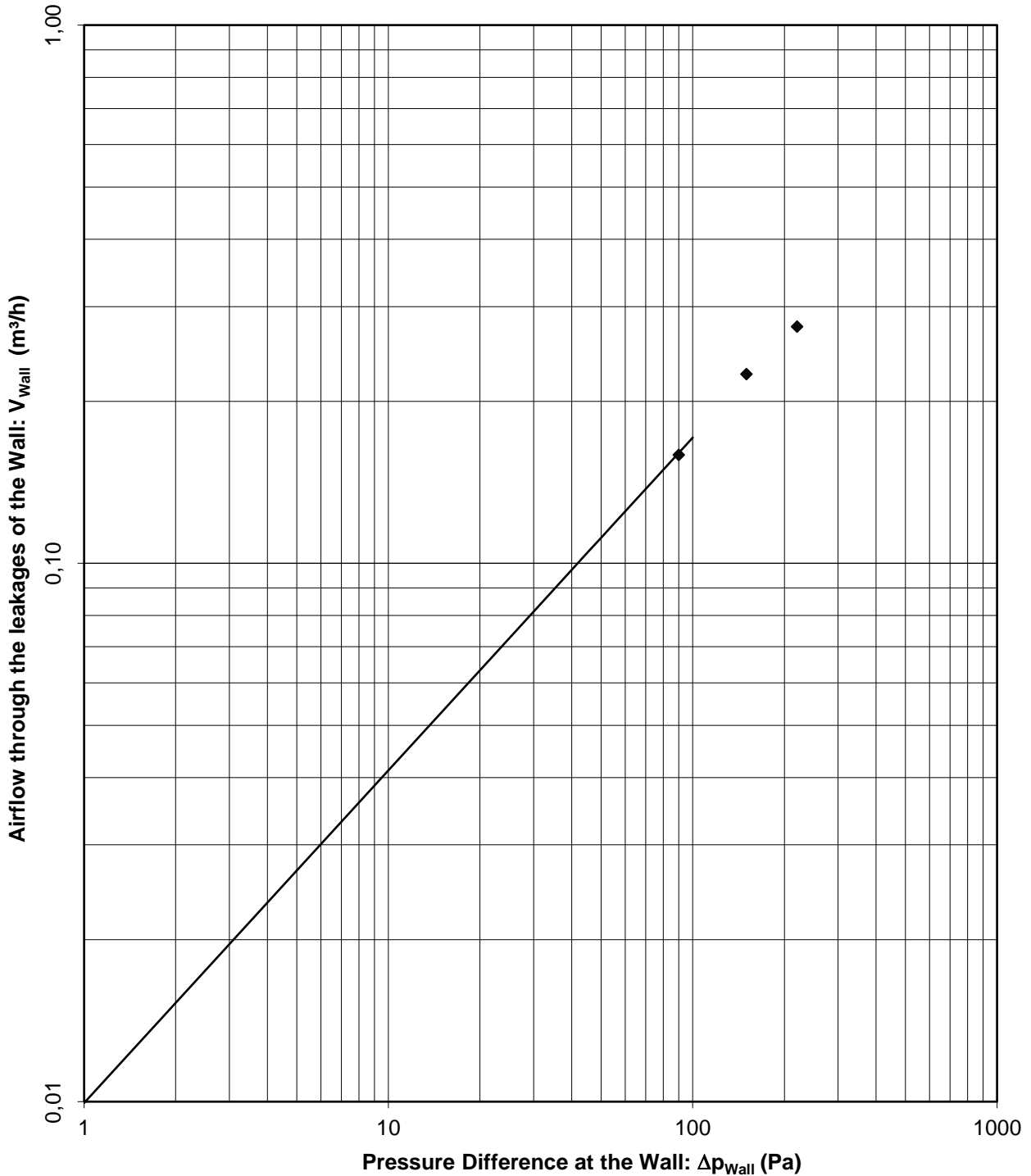
Pressure difference across the Wall (inside - outside):	50 Pascal	Total Airflow	0,00 m ³ /hm ² +/- 10 %
Valeu recalculated to a pressure difference of 200Pa			0,25 m ³ /hm ² +/- 10 %

Note: Airflow at Standard conditions (Temperature=20°C, barometric pressure=101325 Pa)

Business Info: Bruno Bailleul
BCB bvba
Edgard Tinelstraat 65
9040 Gent

sign

Graph: Juntion Window - Wall



◆ Airflow Depressurization (m³/h)

— Regression Line Depressurization (m³/h)

Test Object and Measurement System

Object: Juntion Window - Wall

Date: 11-7-2014

Basic formulas for the test

Formula: $V = 0,36 * (2/\rho)^{0,5} * c_d * A_O * \Delta p^{0,5}$
 with: ρ Air Density
 11-7-2014 Air Resistance value
 A_O Area of orifice
 Δp Pressure Difference at orifice
 Method: Test of small airflows through round hole sharp edged
 Source: Walther, Wilfried; 2003; 8, BlowerDoor Symposium

Test object

Description:
 The four sides were tested. 4*40cm of junction.
 One manual application of BlowerProof Liquid Brush.
 The leakages @ -50Pa were too small to indicate a correct value. The result was recalculated to -200Pa
 The measurement took place at the Hevadex plant: Alfons Breakmanlaan - 9040 St-Amandsberg



Measuring Equipment and Software

System: Minneapolis BlowerDoor Model 4, DG-700
 Device Number: Fan: CE4255 Pressure gauge: 62296 Calibration: 1-11-2013
 Software: Teclog 2