

Test Object

Name:	Detailmeting - vloer-wand aansluiting De Tender - Burgstraat - Gent Plint 2 - kolom
Test Date:	2-5-2014

Customer Information

Name:	De Tender
	Dieter Van Bockhaven
Address:	Nieuwe Baan 68 9111 Belsele
Phone:	03/722.01.23
Fax:	03/722.01.38

Temperature, Barometric Pressure

Temperature Inside	16	°C
Temperature Outside	16	°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 Window/Door (Pa)	Δp Orifice (Pa)	Airflow through Orifice (m ³ /h)	Tolerance (%)	Airflow through Window/Door (m ³ /h)
—	Baseline $\Delta p \Rightarrow$	0,00	—	—	—	—
1,50	1,77	-190,80	0,60	0,38	4,52	0,38
1,50	1,77	-135,90	0,30	0,27	-5,94	0,27
1,50	1,77	-56,20	0,10	0,16	1,71	0,16
—	Baseline $\Delta p \Rightarrow$	0,00	—	—	—	—

Correlation Coefficient r :	0,993	Confidence interval	
$C_{Window/Door}$ [m ³ /(h Pa ^{0,60})]	0,009	max 1,67	min 0,00
$C_{Standard}$ [m ³ /(h Pa ^{0,60})]	0,009	max 1,68	min 0,00
n [-]	0,71	max 1,81	-min 0,39

Results

	Total Airflow
Pressure difference (inside - outside):	50 Pascal
	0,14 m ³ /h +/- 10 %

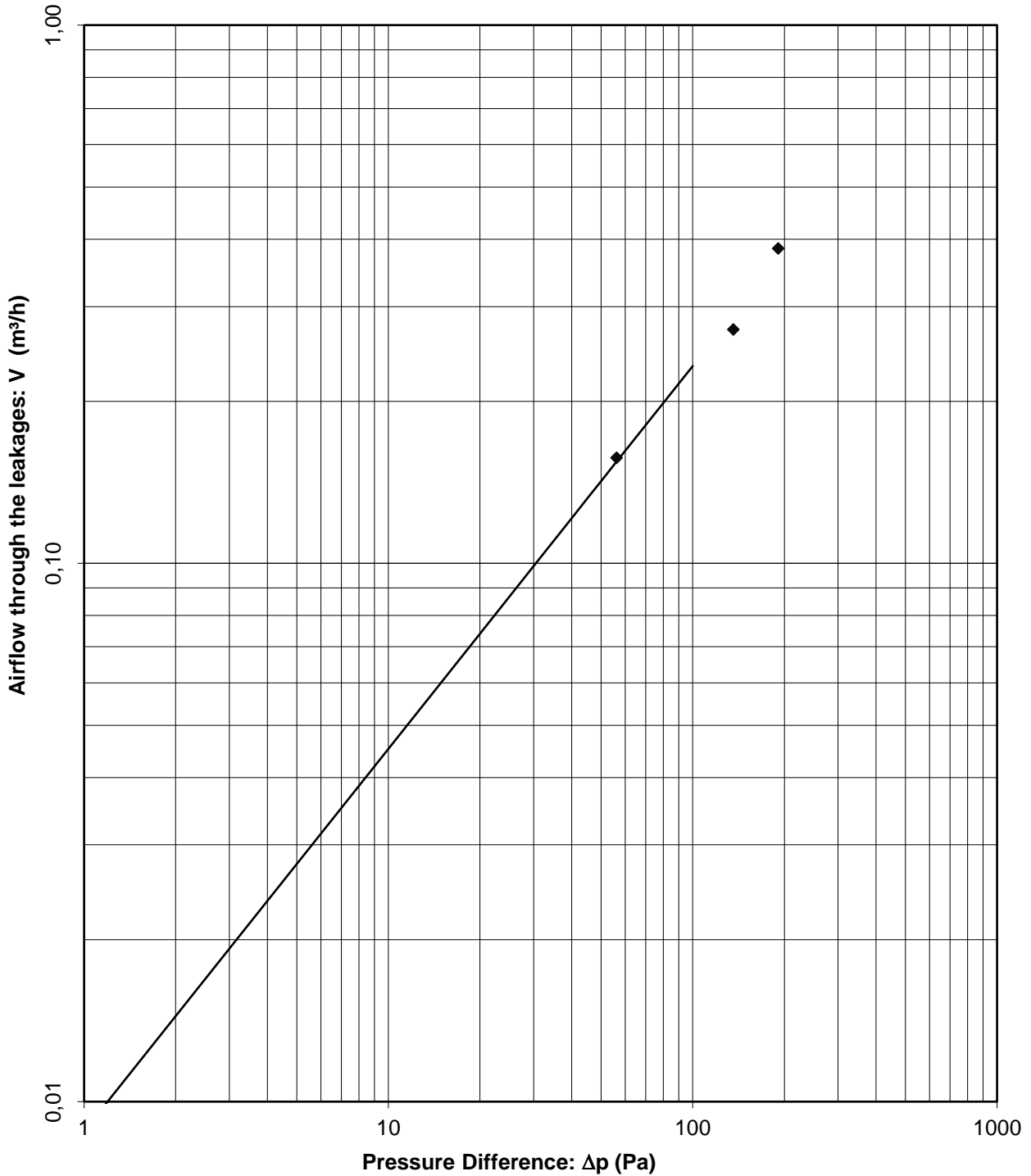
	Airflow through 1m joint
Pressure difference (inside - outside):	50 Pascal
Length of Opening Joint (Window/Door/Floor):	1,00 m
	0,14 m ³ /(h*m) +/- 10 %

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: Detailmeting - vloer-wand aansluiting



◆ Airflow Depressurization (m³/h)

— Regression Line Depressurization (m³/h)

Test Object and Measurement System

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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
	c_d	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:
Plintaansluiting gecontroleerd op een voeglength van 1 meter.
Rand van 15 cm zowel verticaal als horizontaal werd mee gemeten.
Plint was behandeld met BlowerProof Liquid.



Measuring Equipment and Software

System:	Minneapolis BlowerDoor Model 4, DG-700		
Device Number:	Fan: CE4522	Pressure gauge: 62296	Calibration: 1-11-2013
Software:	Teclog 2		