

Messurement Report Blower Door Test

computation base on EN 13829 Method B

Minneapolis Blower Door Model 'Duct Blaster'

Project	Waldsee, Concordia Language Villages
Adresse	8659 Thorsonveien NE Bemidji, Minnesota 56601 USA

Client	Concordia Language Villages
	Tel. ++1-218-299-4544
Contact Person	Warren Schulze
	Tel. ++1-218-586-8502

Messdaten :

Ventilated Volume	1464 m ³
Heated Floor Area	464 m ²
Building Envelope Area	860 m ²
Inside Temperatur	16.0 °C
Outside Temperatur	7.0 °C

Test performed by Gary Nelson am 3.April

Comments	

Negative Pressure

Positive Pressure

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Eingabehilfe Notiz

Reduction Baffel	Building Pressure	Blower Pressure	Flow Rate	Difference
0 12345	[Pa]	[Pa]	[m ³ /h]	[%]
Blower closed	0.1	—	—	—
2	60.7	133.1	310	-0.39
2	50.9	109.8	281	3.28
2	48.6	100.6	269	2.36
2	45.6	85.7	249	-0.89
2	42.0	73.7	230	-2.24
2	36.8	58.2	205	-4.05
2	29.9	45.9	182	-0.42
2	23.9	34.8	158	2.58
Blower closed	-0.3	—	—	—

Reduction Baffel	Building Pressure	Blower Pressure	Flow Rate	Difference
0 12345	[Pa]	[Pa]	[m ³ /h]	[%]
Blower closed	-0.1	—	—	—
2	62.0	133.3	310	4.03
2	53.2	98.0	266	-0.98
2	49.5	90.0	255	-0.33
2	43.3	78.1	237	1.74
2	40.5	64.9	216	-2.91
2	37.7	56.4	202	-4.95
2	28.3	42.5	175	0.46
2	24.2	36.2	162	3.26
Blower closed	1.0	—	—	—

Correlations coefficient	r =	0.99377
Building coefficients [m ³ /hPa], norm.	C ₀ =	13.7
Building exponent	n =	0.753

Correlations coefficient	r =	0.99028
Building coefficients [m ³ /hPa], norm.	C ₀ =	18.6
Building exponent	n =	0.677

Ergebnis, Kenngrößen :

	n₅₀ h ⁻¹	Regression Abweichg.	V ₅₀	NBV ₅₀	q ₅₀	ELA _{4Pa}
		%	m ³ /h	m ³ /m ² h	m ³ /m ² h	cm ²
Negative Pressure	0.18	+/- 2.69	261	0.56	0.30	42
Positive Pressure	0.18	+/- 3.23	262	0.57	0.31	51
Average from Negative- & Positive Pressure	0.18		262	0.56	0.30	47
Maximum allowed value	0.46					

Enforcing Code: Passivhaus Standard

Testing Contractor :

The Energy Conservatory
2801 21st Ave. South, Suite 160
Minneapolis, Minnesota 55407 USA

Agend : Gary Nelson
Tel : 612-827-1117

Minneapolis, April 5, 2006 Gary Nelson
Place, Date, Signature