

Barcol-Air Netherlands casing leakage test sheet

According to standard NEN-EN 15727-2010

Test setup		
Date	29-11-2017	Reference nr. LM-17-0041
Exp. Date	29-11-2020	Tested by MBs
Place	Barcol-Air	Witness by TK
Air temperature	20 [°C]	
Atmospheric pressure	1013 [hPa]	

Contact information	
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Model (Name/Type):

[Measuring and control terminal rectangular single skin type: AEROOBB 250x200](#)

Result:

Class C

Product specifications		
Productcode	AEROOBB	
Model	250x200	
Case Width	0,250	[m]
Case Height	0,200	[m]
Case Diameter		[m]
Case Length	0,350	[m]
Real Duct surface	0,315	[m ²]
Virtual Duct surface	0,450	[m ²]
Note:	When Case Length <0,5m; 0,5m is used in calculations as specified by LUKA.	

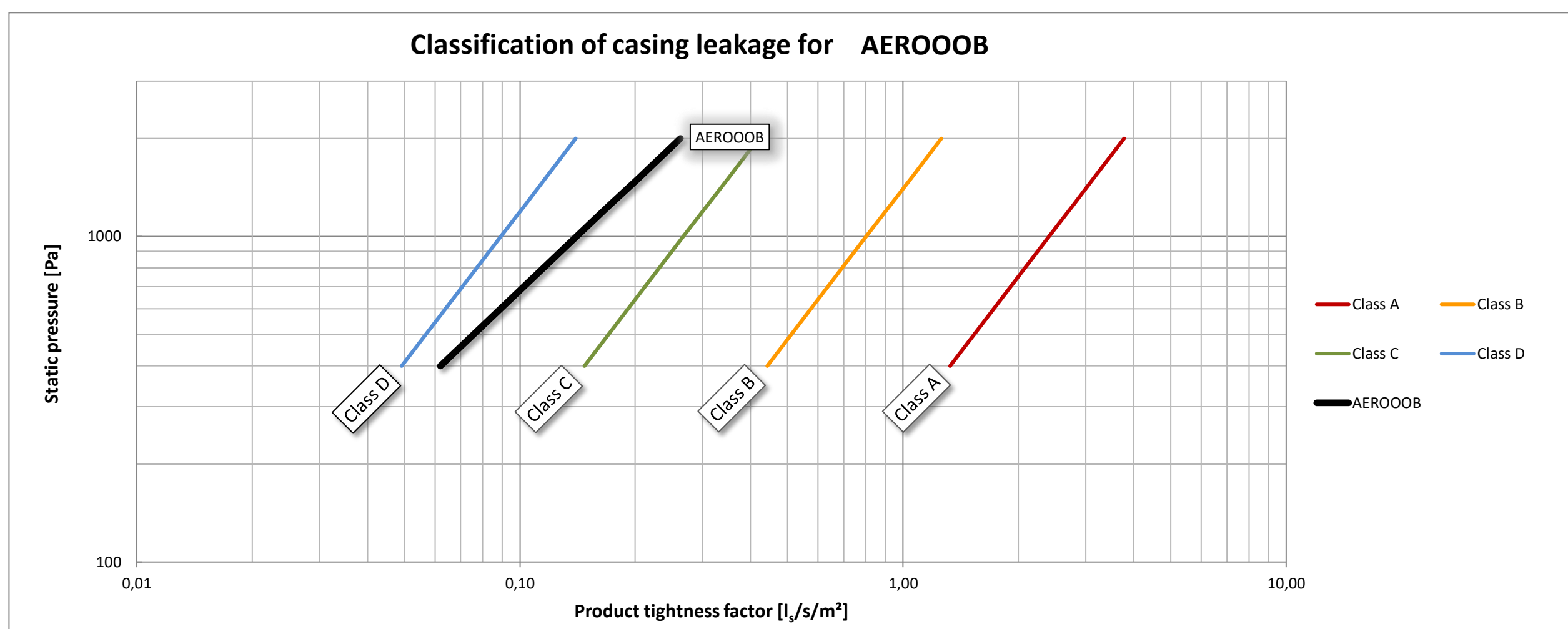
Measurement specifications		
Pressure time	120 seconds	
Pressure controller	PR-41X/20mbar/81955.50	
Airflow meter(s)	Low Flow	F-111B-20K-RAD-00-V
	High Flow	F-112AC-M20-RAD-55-V
Rated Accuracy	Pressure Ctrl	± 0,05%Rd + 0,093%FS
	Low Flow	± 0,5%Rd + 0,1%FS
	High Flow	± 0,5%Rd + 0,1%FS
	Pressure Ctrl	20-4-2017
Date calibrated	Low Flow	12-4-2017
	High Flow	13-4-2017

Leakage is measured in normal liters (= 1 liter at 0°C and 101325 pa)

NEN-EN 15727-2010	
Max. Leakagefactor [l _v /s/m ²]	
Class A	0,027
Class B	0,009
Class C	0,003
Class D	0,001
$\Phi L = f \times P_s^{0,65}$	
ΦL Leakage [l _v /s/m ²]	
f = Leakagefactor	
P _s = Static Pressure	

Measurements and calculations					
Reading	Measure instrument	Static pressure [Pa]	Measured air leakage rate [l _v /s]	Corrected air leakage rate 20°C [l _v /s]	Product tightness factor [l _v /s/m ²]
1	Low Flow	400	0,026	0,028	0,062
2	Low Flow	1000	0,059	0,063	0,141
3	Low Flow	1250	0,072	0,077	0,172
4	Low Flow	1500	0,085	0,091	0,203
5	Low Flow	2000	0,110	0,118	0,262

LUKA standards				
Class A [l _v /s/m ²]	Class B [l _v /s/m ²]	Class C [l _v /s/m ²]	Class D [l _v /s/m ²]	Estimated class
1,33	0,44	0,15	0,05	Class C
2,41	0,80	0,27	0,09	[l _v /s/m ²]
2,78	0,93	0,31	0,10	0
3,13	1,04	0,35	0,12	Class C
3,78	1,26	0,42	0,14	[l _v /s/m ²]



Other results	
Visual deformation	Negative
Pressure [Pa]	2000

***As the tested model is the smallest model of this product range, the same classification result (or better) is valid for all larger models.**

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Calibration certifications nr.
 Low Flow BHTG19/CHK/2300538
 High Flow BHTG19/2300981
 Pressure ctrl not specified