

**Solid Air Climate Solutions casing leakage test sheet**  
According to standard NEN-EN 1751-2014

Date:	9/19/2025	Test reference number:	25-15-08
Exp. Date:	9/19/2028	Tested by:	GV
Place:	Solid Air Climate Solutions B.V.	Witness by:	HV
Model (Name/Type):			Brandklep rond, FDC40 ORO 100
			Result: <b>ATC3 (C)</b>

Measurement conditions $\emptyset$	
Air temperature (C°)	22
Atmospheric pressure (hPa)	1020
Correction factor	1.000
Case Diameter (m)	0.1
Case length (m)	0.38
Duct surface (real) (m <sup>2</sup> )	0.119
Duct surface (virtual) (m <sup>2</sup> )*	0.314
* Case length 1m is used in calculations when real Case length <1m (As specified by LUKA)	



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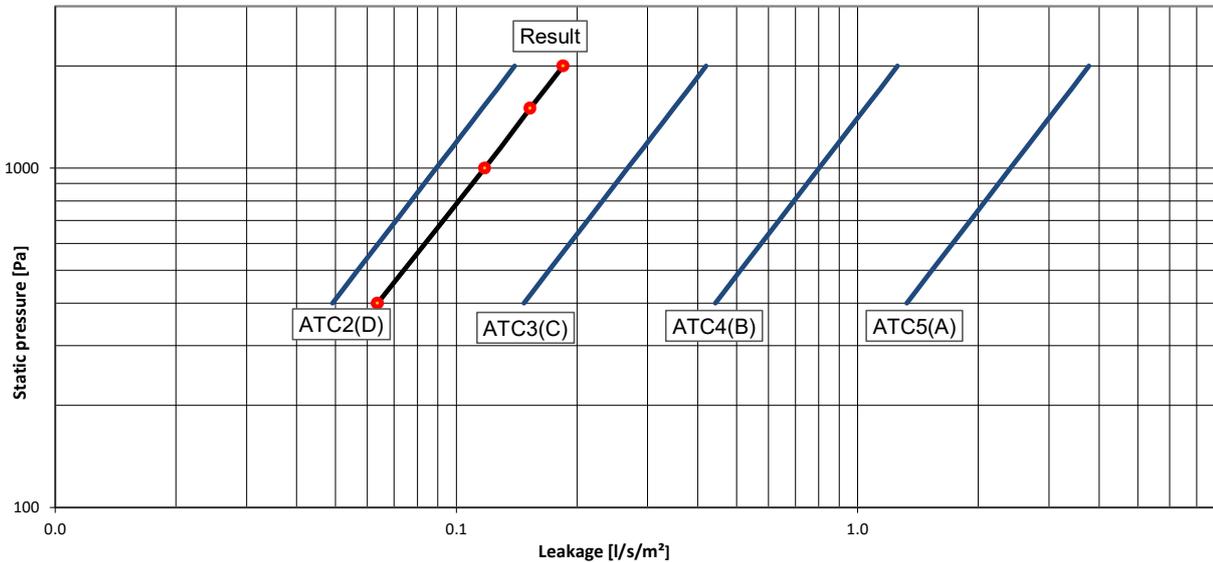
Scheepswervenweg 1  
9608 PD Westerbroek  
Tel: +31 598 36 12 21  
www.solid-air.com

Measurement equipment	
Brand	Lindab
Air leakage tester type	LT 600
Serial No.	662
Adapter (- / 0,3 / 3,0)	0.3

Test duration 60 sec.		
Visual deformation?	N	
Max. test pressure	2000	Pa
TÜV certificate	P-97/52-30	

Reading	Static Pressure (Pa)	Measured Leakage (l/s)	Corrected Leakage (l/s)	Leakage Duct surface (l/s/m <sup>2</sup> )	NEN-EN 1751-2014			
					ATC5 (A)	ATC4 (B)	ATC3 (C)	ATC2 (D)
					(l/s/m <sup>2</sup> )	(l/s/m <sup>2</sup> )	(l/s/m <sup>2</sup> )	(l/s/m <sup>2</sup> )
1	400	0.020	0.020	0.064	1.33	0.44	0.15	0.05
2	1000	0.037	0.037	0.118	2.41	0.80	0.27	0.09
3	1500	0.048	0.048	0.153	3.13	1.04	0.35	0.12
4	2000	0.058	0.058	0.185	3.78	1.26	0.42	0.14

**Classification of casing leakage**



\* Classification result is the same for all models as tested model, unless indicated otherwise.

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**Solid Air Climate Solutions casing leakage test sheet**  
According to standard NEN-EN 1751-2014

Date:	9/19/2025	Test reference number:	25-15-09
Exp. Date:	9/19/2028	Tested by:	GV
Place:	Solid Air Climate Solutions B.V.	Witness by:	HV
Model (Name/Type):			Brandklep rond, FDC40 ORO 125
			Result: <b>ATC3 (C)</b>

Measurement conditions $\emptyset$	
Air temperature (C°)	22
Atmospheric pressure (hPa)	1020
Correction factor	1.000
Case Diameter (m)	0.125
Case length (m)	0.38
Duct surface (real) (m <sup>2</sup> )	0.149
Duct surface (virtual) (m <sup>2</sup> )*	0.393
* Case length 1m is used in calculations when real Case length <1m (As specified by LUKA)	



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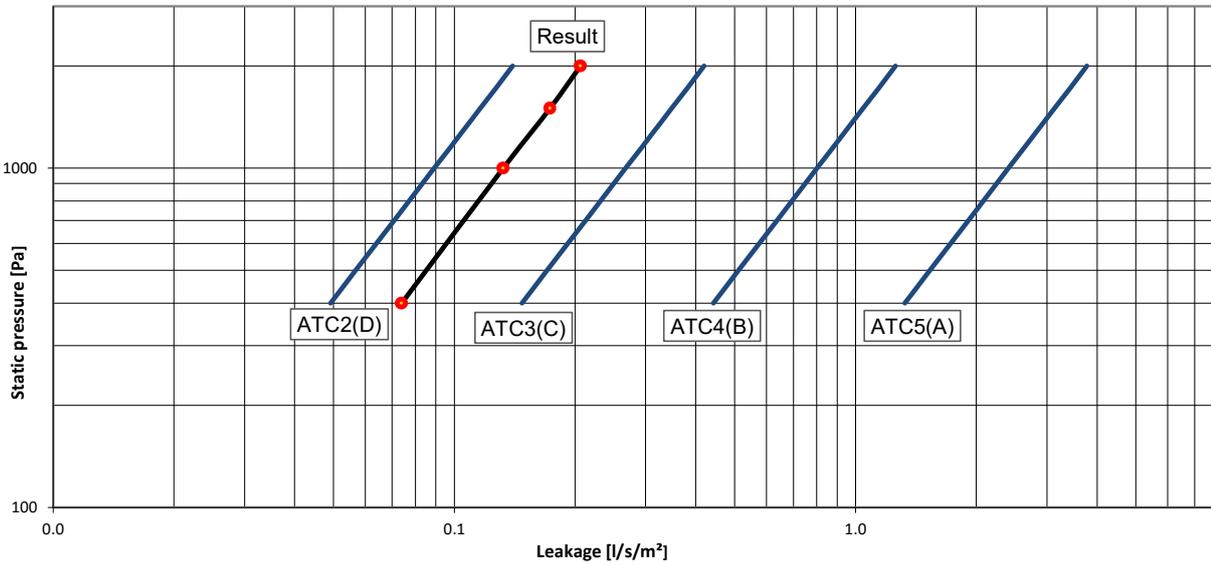
Scheepswervenweg 1  
9608 PD Westerbroek  
Tel: +31 598 36 12 21  
www.solid-air.com

Measurement equipment	
Brand	Lindab
Air leakage tester type	LT 600
Serial No.	662
Adapter (- / 0,3 / 3,0)	0.3

Test duration 60 sec.		
Visual deformation?	N	
Max. test pressure	2000	Pa
TÜV certificate	P-97/52-30	

Reading	Static Pressure (Pa)	Measured Leakage (l/s)	Corrected Leakage (l/s)	Leakage Duct surface (l/s/m <sup>2</sup> )	NEN-EN 1751-2014			
					ATC5 (A)	ATC4 (B)	ATC3 (C)	ATC2 (D)
					(l/s/m <sup>2</sup> )	(l/s/m <sup>2</sup> )	(l/s/m <sup>2</sup> )	(l/s/m <sup>2</sup> )
1	400	0.029	0.029	0.074	1.33	0.44	0.15	0.05
2	1000	0.052	0.052	0.132	2.41	0.80	0.27	0.09
3	1500	0.068	0.068	0.173	3.13	1.04	0.35	0.12
4	2000	0.081	0.081	0.206	3.78	1.26	0.42	0.14

**Classification of casing leakage**



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## Solid Air Climate Solutions casing leakage test sheet According to standard NEN-EN 1751-2014

Date:	9/19/2025	Test reference number:	25-15-10
Exp. Date:	9/19/2028	Tested by:	GV
Place:	Solid Air Climate Solutions B.V.	Witness by:	HV

Model (Name/Type):	Brandklep rond, FDC40 ORO 160	Result: <b>ATC3 (C)</b>
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Measurement conditions $\emptyset$	
Air temperature (C°)	22
Atmospheric pressure (hPa)	1021
Correction factor	1.000
Case Diameter (m)	0.16
Case length (m)	0.38
Duct surface (real) (m <sup>2</sup> )	0.191
Duct surface (virtual) (m <sup>2</sup> )*	0.503
<small>* Case length 1m is used in calculations when real Case length &lt;1m (As specified by LUKA)</small>	



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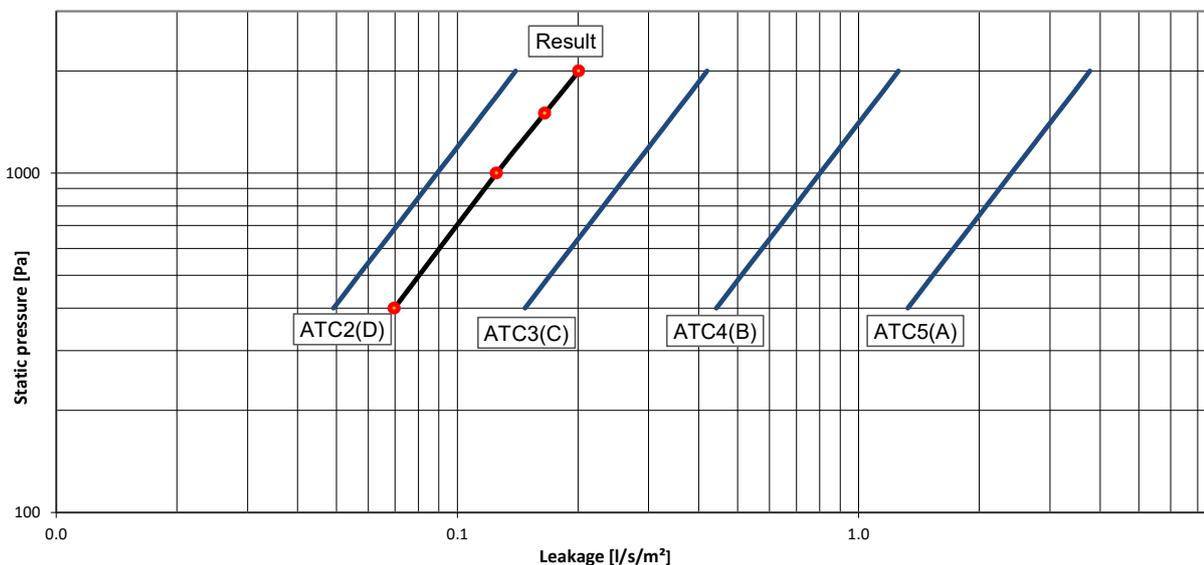
Scheepswervenweg 1  
9608 PD Westerbroek  
Tel: +31 598 36 12 21  
[www.solid-air.com](http://www.solid-air.com)

Measurement equipment	
Brand	Lindab
Air leakage tester type	LT 600
Serial No.	662
Adapter (- / 0,3 / 3,0)	0.3

Test duration 60 sec.		
Visual deformation?	N	
Max. test pressure	2000	Pa
TÜV certificate	P-97/52-30	

Reading	Static Pressure (Pa)	Measured Leakage (l/s)	Corrected Leakage (l/s)	Leakage Duct surface (l/s/m <sup>2</sup> )	NEN-EN 1751-2014			
					ATC5 (A)	ATC4 (B)	ATC3 (C)	ATC2 (D)
					(l/s/m <sup>2</sup> )	(l/s/m <sup>2</sup> )	(l/s/m <sup>2</sup> )	(l/s/m <sup>2</sup> )
1	400	0.035	0.035	0.070	1.33	0.44	0.15	0.05
2	1000	0.063	0.063	0.125	2.41	0.80	0.27	0.09
3	1500	0.083	0.083	0.165	3.13	1.04	0.35	0.12
4	2000	0.101	0.101	0.201	3.78	1.26	0.42	0.14

### Classification of casing leakage



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**Solid Air Climate Solutions casing leakage test sheet**  
According to standard NEN-EN 1751-2014

Date:	9/19/2025	Test reference number:	25-15-11
Exp. Date:	9/19/2028	Tested by:	GV
Place:	Solid Air Climate Solutions B.V.	Witness by:	HV
Model (Name/Type):			Brandklep rond, FDC40 ORO 200
			Result: <b>ATC3 (C)</b>

Measurement conditions $\emptyset$	
Air temperature (C°)	22
Atmospheric pressure (hPa)	1020
Correction factor	1.000
Case Diameter (m)	0.2
Case length (m)	0.38
Duct surface (real) (m <sup>2</sup> )	0.239
Duct surface (virtual) (m <sup>2</sup> )*	0.628
* Case length 1m is used in calculations when real Case length <1m (As specified by LUKA)	



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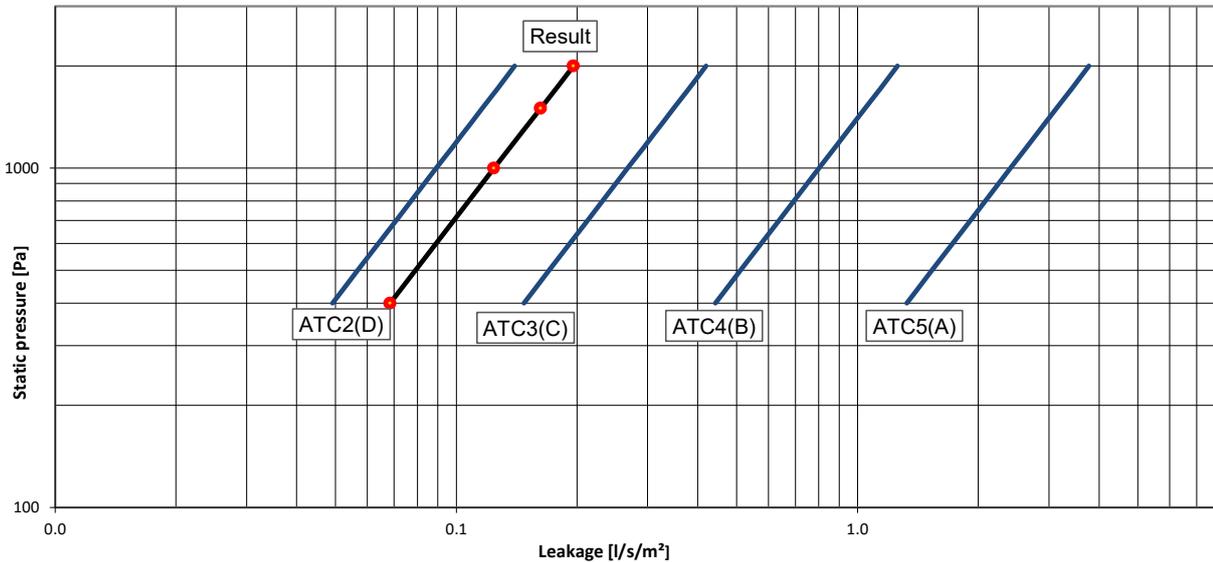
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9608 PD Westerbroek  
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www.solid-air.com

Measurement equipment	
Brand	Lindab
Air leakage tester type	LT 600
Serial No.	662
Adapter (- / 0,3 / 3,0)	0.3

Test duration 60 sec.		
Visual deformation?	N	
Max. test pressure	2000	Pa
TÜV certificate	P-97/52-30	

Reading	Static Pressure (Pa)	Measured Leakage (l/s)	Corrected Leakage (l/s)	Leakage Duct surface (l/s/m <sup>2</sup> )	NEN-EN 1751-2014			
					ATC5 (A)	ATC4 (B)	ATC3 (C)	ATC2 (D)
					(l/s/m <sup>2</sup> )	(l/s/m <sup>2</sup> )	(l/s/m <sup>2</sup> )	(l/s/m <sup>2</sup> )
1	400	0.043	0.043	0.068	1.33	0.44	0.15	0.05
2	1000	0.078	0.078	0.124	2.41	0.80	0.27	0.09
3	1500	0.102	0.102	0.162	3.13	1.04	0.35	0.12
4	2000	0.123	0.123	0.196	3.78	1.26	0.42	0.14

**Classification of casing leakage**



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**Solid Air Climate Solutions casing leakage test sheet**  
According to standard NEN-EN 1751-2014

Date:	9/19/2025	Test reference number:	25-15-12
Exp. Date:	9/19/2028	Tested by:	GV
Place:	Solid Air Climate Solutions B.V.	Witness by:	HV
Model (Name/Type):			Brandklep rond, FDC40 ORO 250
			Result: <b>ATC3 (C)</b>

Measurement conditions $\emptyset$	
Air temperature (C°)	22
Atmospheric pressure (hPa)	1020
Correction factor	1.000
Case Diameter (m)	0.25
Case length (m)	0.38
Duct surface (real) (m <sup>2</sup> )	0.298
Duct surface (virtual) (m <sup>2</sup> )*	0.785
* Case length 1m is used in calculations when real Case length <1m (As specified by LUKA)	



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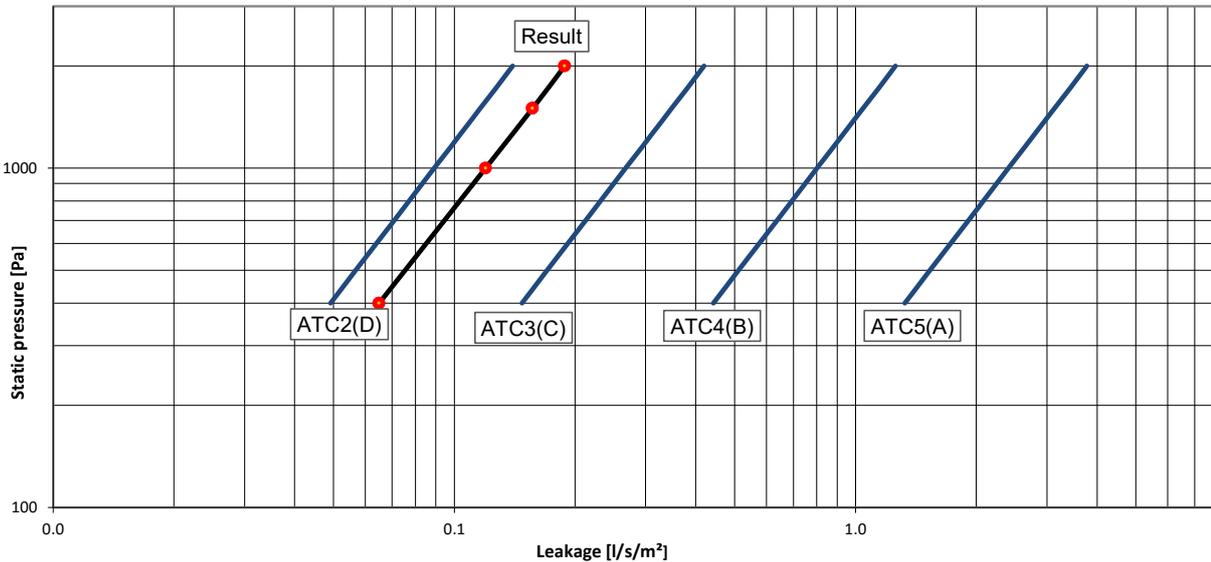
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Measurement equipment	
Brand	Lindab
Air leakage tester type	LT 600
Serial No.	662
Adapter (- / 0,3 / 3,0)	0.3

Test duration 60 sec.		
Visual deformation?	N	
Max. test pressure	2000	Pa
TÜV certificate	P-97/52-30	

Reading	Static Pressure (Pa)	Measured Leakage (l/s)	Corrected Leakage (l/s)	Leakage Duct surface (l/s/m <sup>2</sup> )	NEN-EN 1751-2014			
					ATC5 (A)	ATC4 (B)	ATC3 (C)	ATC2 (D)
					(l/s/m <sup>2</sup> )	(l/s/m <sup>2</sup> )	(l/s/m <sup>2</sup> )	(l/s/m <sup>2</sup> )
1	400	0.051	0.051	0.065	1.33	0.44	0.15	0.05
2	1000	0.094	0.094	0.120	2.41	0.80	0.27	0.09
3	1500	0.123	0.123	0.157	3.13	1.04	0.35	0.12
4	2000	0.148	0.148	0.188	3.78	1.26	0.42	0.14

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**Solid Air Climate Solutions casing leakage test sheet**  
According to standard NEN-EN 1751-2014

Date:	9/19/2025	Test reference number:	25-15-13
Exp. Date:	9/19/2028	Tested by:	GV
Place:	Solid Air Climate Solutions B.V.	Witness by:	HV
Model (Name/Type):			Brandklep rond, FDC40 ORO 315
			Result: <b>ATC3 (C)</b>

Measurement conditions $\emptyset$	
Air temperature (C°)	22
Atmospheric pressure (hPa)	1020
Correction factor	1.000
Case Diameter (m)	0.315
Case length (m)	0.38
Duct surface (real) (m <sup>2</sup> )	0.376
Duct surface (virtual) (m <sup>2</sup> )*	0.990
* Case length 1m is used in calculations when real Case length <1m (As specified by LUKA)	



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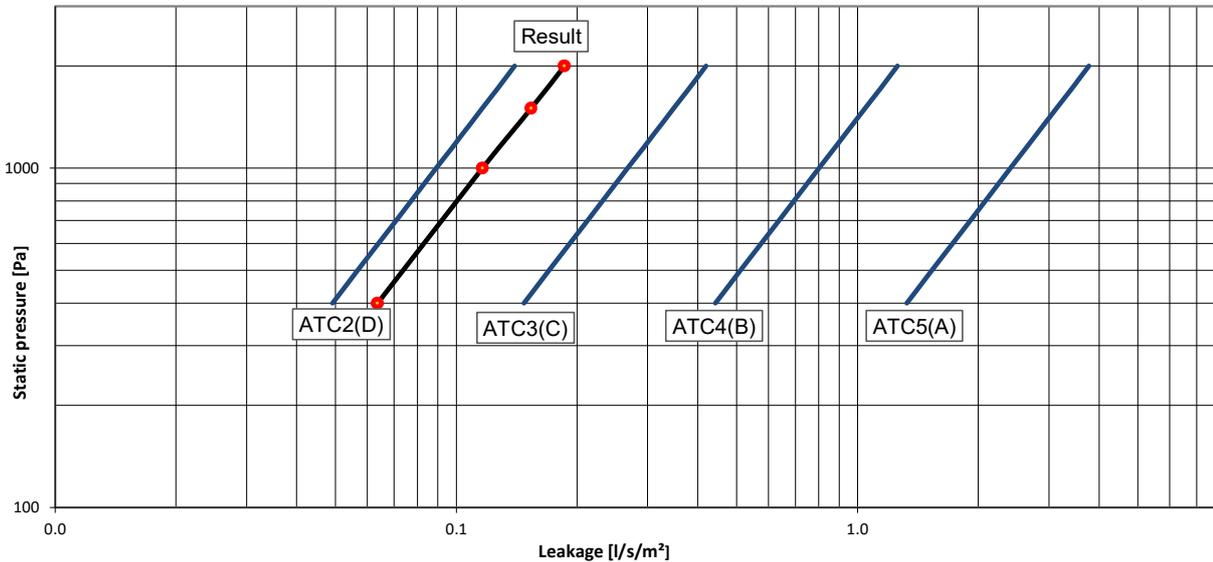
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9608 PD Westerbroek  
Tel: +31 598 36 12 21  
www.solid-air.com

Measurement equipment	
Brand	Lindab
Air leakage tester type	LT 600
Serial No.	662
Adapter (- / 0,3 / 3,0)	0.3

Test duration 60 sec.		
Visual deformation?	N	
Max. test pressure	2000	Pa
TÜV certificate	P-97/52-30	

Reading	Static Pressure (Pa)	Measured Leakage (l/s)	Corrected Leakage (l/s)	Leakage Duct surface (l/s/m <sup>2</sup> )	NEN-EN 1751-2014			
					ATC5 (A)	ATC4 (B)	ATC3 (C)	ATC2 (D)
					(l/s/m <sup>2</sup> )	(l/s/m <sup>2</sup> )	(l/s/m <sup>2</sup> )	(l/s/m <sup>2</sup> )
1	400	0.063	0.063	0.064	1.33	0.44	0.15	0.05
2	1000	0.115	0.115	0.116	2.41	0.80	0.27	0.09
3	1500	0.152	0.152	0.154	3.13	1.04	0.35	0.12
4	2000	0.184	0.184	0.186	3.78	1.26	0.42	0.14

**Classification of casing leakage**



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**Solid Air Climate Solutions casing leakage test sheet**  
According to standard NEN-EN 1751-2014

Date:	9/19/2025	Test reference number:	25-15-14
Exp. Date:	9/19/2028	Tested by:	GV
Place:	Solid Air Climate Solutions B.V.	Witness by:	HV
Model (Name/Type):			Brandklep rond, FDC40 ORO 400
			Result: <b>ATC3 (C)</b>

Measurement conditions $\emptyset$	
Air temperature (C°)	22
Atmospheric pressure (hPa)	1020
Correction factor	1.000
Case Diameter (m)	0.4
Case length (m)	0.38
Duct surface (real) (m <sup>2</sup> )	0.478
Duct surface (virtual) (m <sup>2</sup> )*	1.257
* Case length 1m is used in calculations when real Case length <1m (As specified by LUKA)	



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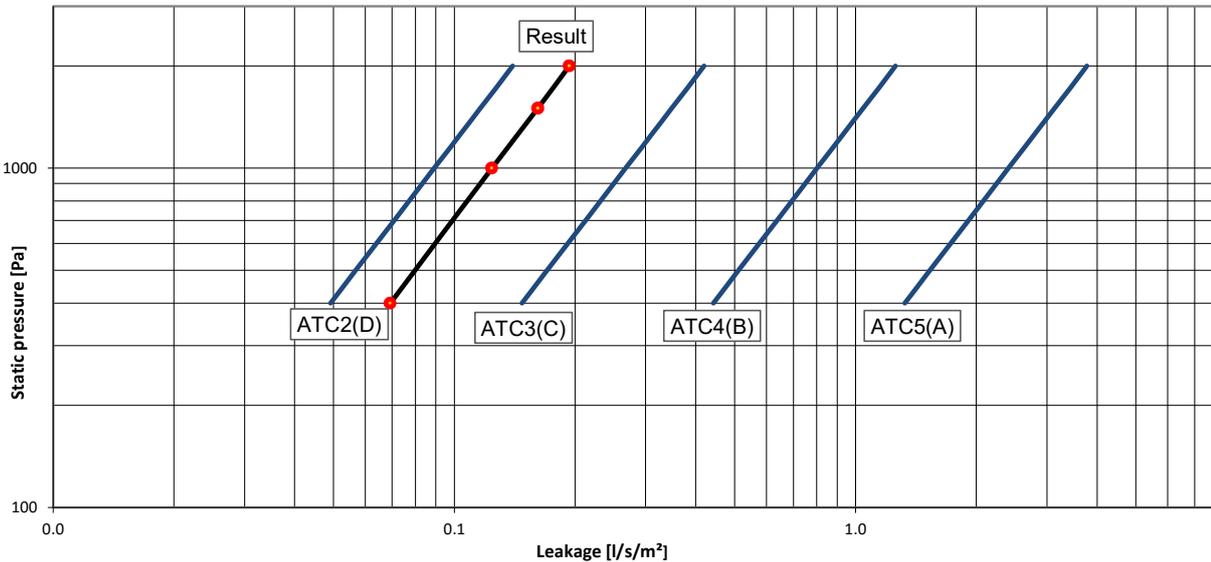
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Measurement equipment	
Brand	Lindab
Air leakage tester type	LT 600
Serial No.	662
Adapter (- / 0,3 / 3,0)	0.3

Test duration 60 sec.		
Visual deformation?	N	
Max. test pressure	2000	Pa
TÜV certificate	P-97/52-30	

Reading	Static Pressure (Pa)	Measured Leakage (l/s)	Corrected Leakage (l/s)	Leakage Duct surface (l/s/m <sup>2</sup> )	NEN-EN 1751-2014			
					ATC5 (A)	ATC4 (B)	ATC3 (C)	ATC2 (D)
					(l/s/m <sup>2</sup> )	(l/s/m <sup>2</sup> )	(l/s/m <sup>2</sup> )	(l/s/m <sup>2</sup> )
1	400	0.087	0.087	0.069	1.33	0.44	0.15	0.05
2	1000	0.156	0.156	0.124	2.41	0.80	0.27	0.09
3	1500	0.203	0.203	0.162	3.13	1.04	0.35	0.12
4	2000	0.243	0.243	0.193	3.78	1.26	0.42	0.14

**Classification of casing leakage**



\* Classification result is the same for all models as tested model, unless indicated otherwise.

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