



RISE Research Institutes
of Sweden AB
RISE Certifiering
Box 553
SE-371 23 Karlskrona
Sweden

Tel: +46 10 516 63 00
Web: www.ri.se/eta
Mail: certifiering@ri.se



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European Technical Assessment

ETA 17/1007
of 02/05/2018

General Part

Technical Assessment Body issuing the European Technical Assessment:

RISE Research Institutes of Sweden AB

Trade name of the construction product

CR Ventilation system

Product family to which the construction product belongs

Ventilation system, made of mineral wool covered with film on outside and inside

Manufacturer

Climate Recovery Ind. AB
Skeppsbron 9
391 21 Kalmar
Sweden
www.climaterecovery.com

Manufacturing plant

Climate Recovery Ind. AB
Torsåsgatan 3
392 39 Kalmar
Sweden

This European Technical Assessment contains

5 pages including 1 Annex which form an integral part of this assessment.

This European Technical Assessment is issued in accordance with regulation (EU) No 305/2011, on the basis of

EAD 360001-00-0803
Ventilation system made of mineral wool covered with film on outside and inside

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Specific parts

1 Technical description of the product

Ventilation system made of mineral wool covered with surface treated aluminum film on outside and inside.

The kit consists of ducts and circular fittings.

2 Specification of the intended use in accordance with the applicable European Assessment Document (hereinafter EAD)

The ventilation system is intended to be used inside buildings. The intended maximum positive pressure is 1000 Pa.

3 Performance of the product and references to the methods used for its assessment

3.1 Essential characteristics and their performance

		Characteristic	Performance
BWR 2	Safety in case of fire	Reaction to fire	A2-s1, d0
BWR 3	Hygiene, health and the environment	Erosion	No damage
		Emission	No particles
		Microbiological growth	No growth or deterioration
		Stiffness	NPA
		Bulging and /or caving	No bulging / caving
		Dimensional stability	NPA
		Dimensional tolerances	NPA
		Resistance against pressure	No damage or displacement
		Tightness	Acc. to annex A
	Water vapour resistance	NPA	
BWR 5	Protection against noise	Acoustical absorption	Acc. to annex B

4 Assessment and verification of constancy of performance (hereinafter AVCP) system applied, with reference to its legal base

According to the decision 1999/91/EC - Commission decision of date 25 January 1999, published in the Official Journal of the European Union (OJEU) L29/44 of 3.2.1999 and amended by decision 2001/596/EC - Commission decision of date 8 January 2001, published in the Official Journal of the European Union (OJEU) L 209/33 of 2.8.2001, of the European Commission the system of assessment and verification of constancy of performance (see Annex V to the regulation (EU) No 305/2011) given in the following table applies:

Product	Intended use	Level or class	System
Ventilation system, made of mineral wool covered with film on outside and inside	Ventilation system to be used inside buildings	-	3

5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited at RISE.

Issued in Borås on 02.05.2018
By RISE Research Institutes of Sweden AB

Johan Åkesson
Certification Manager

Annex A

Air tightness

The measured and calculated values for pressure and air leakage factors are presented in tables 1 and 2.

Table 1. Results for duct system at static positive pressure.

Static positive pressure Pa	Measured leakage factor l/s/m²
102	0.012
210	0.021
398	0.036
606	0.052
752	0.062
1003	0.078

Table 2. Results for duct system at static negative pressure.

Static negative pressure Pa	Measured leakage factor l/s/m²
99	0.012
208	0.022
297	0.029
403	0.038
603	0.052
751	0.062

Annex B

Acoustical absorption

Table I – Results in frequency bands

	Insertion loss (dB) in frequency bands below in Hertz (Hz)							
	63	125	250	500	1000	2000	4000	8000
Ø 125 mm	5	4	6	20	53	31	16	8
Ø 200 mm	4	3	8	44	41	21	12	7

Table 2 – Results in one-third-octave bands

Frequencies (Hz)	Insertion loss (dB) Ø 125 mm	Insertion loss (dB) Ø 200 mm
50	10,5	9,3
63	7,8	3,5
80	1,6	2,5
100	4,0	2,7
125	2,2	1,2
160	5,4	4,3
200	4,5	4,7
250	5,6	8,3
315	8,0	17,6
400	15,5	42,7
500	33,2	47,4
630	47,4	44,5
800	54,1	46,3
1000	54,9	45,8
1250	50,6	37,9
1600	47,7	30,3

2000	35,7	22,7
2500	26,9	18,1
3150	22,6	13,6
4000	17,8	11,9
5000	13,3	10,2
6300	8,6	7,3
8000	7,7	6,8
10000	7,6	6,1