

# Veloduct, circular duct system

Holder/Issued to

## Fläkt Woods AB

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### Product description

Veloduct circular spiral ducts and duct components.

Ducts and duct components made of metallized sheet steel as below:

Hot-dip galvanized steel plate with the designation DX51D + Z275 according to EN 10346.

Surface coating with Z275 meets corrosivity class C3 according to AMA VVS & Kyl 2016 and SS-EN ISO 12944-2.

### Dimensions:

The Swedish technical approval includes dimensions 63 - 1250 mm according to dimension standard EN 1506.

Plate thickness ducts:

Ø 63 - Ø 160 mm = 0,4 - 0,5 mm

Ø 180 - Ø 315 mm = 0,5 mm

Ø 355 - Ø 500 mm = 0,5 - 0,7 mm

Ø 560 - Ø 710 mm = 0,7 mm

Ø 800 mm = 0,7 - 0,9 mm

Ø 900 - Ø 1250 mm = 0,9 mm

### Suspension / fastening / pendulum bar

The ducts shall be provided with a suspension of max 500 mm from each joint and the maximum distance between uninsulated duct hangings is 3000 mm and insulated channels 2000 mm.

Duct components are provided with seal rings of EPDM rubber.

### Intended use

Circular ventilation ducts for distribution of air with demand for air tightness class D.

### Trade name

Veloduct.

Type approval 1718/88 | 2018-02-22

RISE Research Institutes of Sweden AB | Certification

Box 857, SE-501 15 Borås, Sweden

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2017-07-05

## Approval

The products satisfy the requirements set forth in chapter 8, 4 § 2 and 3 PBL, in respect to and under conditions stated in this certificate, and are therefore approved in accordance with the provisions of the following sections of Boverket Building Regulations (BBR) issued by the National Board of Housing, Building and Planning:

|                                      |       |
|--------------------------------------|-------|
| Air Treatment Installation, general* | 5:526 |
| Materials                            | 6:11  |
| Microorganisms                       | 6:24  |
| Ventilation                          | 6:25  |
| Installations                        | 6:254 |
| Tightness**                          | 6:255 |

\* Material class A2-s1, d0. Seal rings has no requirement (class F).

\*\* Ducts and duct components fulfills tightness class D according to EN 12237 and VVS AMA 2012 figure AMA Q / 1

## Associated documents

Installation instruction, "Veloduct kanalsystem Cirkulära kanaler 3374\_SE\_2016.07.04".

## Control

The factory production control (FPC) is monitored by an independent inspection body.

Control agreement: Ref no.210-99-0024

Inspection body: RISE Inspection

When the building proprietor performs inspection at the building site markings shall be checked to ensure that the correct products have been supplied and that they are used in accordance with the conditions in this approval and associated documents. Further the product shall be accompanied by a manufacturer's assurance, certifying that the product has been manufactured in accordance with the documents on which this approval is based.

## Manufacturing places

Production control includes the following places:

Fläkt Woods Ab, Järna in Sweden (1)

Fläkt Woods Oy, Akaa in Finland (2)

Fläkt Woods Oy, Åbo in Finland (3)

Vento NV, Belgium (7)

Air Group Oy, Akaa in Finland (8)

## Marking

The products are to be marked at the factory. The marking consists of a label or text on every product and packing supplied and includes:

|   |   |
|---|---|
| Holder                                      | Fläkt Woods                             |
| Manufacturing place/Factory code            | <i>Number according to manufacturer</i> |
| Boverket's registered trade mark            | ✚                                       |
| Certification body and accreditation number | RISE Certifiering 1002                  |
| Product name                                | Veloduct                                |
| Product type designation                    | <i>Type designation</i>                 |
| Type approval number                        | 1718/88                                 |
| Tightness class                             | D                                       |
| Consecutive manufacture date of production  | Date                                    |
| Inspection body                             | RISE                                    |

Type approval 1718/88 | 2018-02-22

RISE Research Institutes of Sweden AB | Certification

### **Basis for judgement**

Test reports P905605-17B och P905605-17D.

Audit reports PX14362-5, P905605-16D, P905605-17A, P905605-17C, P905605-17D from supervised manufacturing control conducted by RISE Inspection (RISE, Research Institutes of Sweden AB)

### **Comments**

The products are tested according to EN 12237 with the headline:

“Ventilation for buildings – Ductwork – Strength and leakage of circular sheet metal ducts”

The channels fulfill tightness class D at +2000 Pa overpressure and -750 Pa negative pressure and strength requirements.

This approval supersedes the previous approval with the same number dated 2012-03-19 and project number PX17725.

### **Validity**

Valid through 2022-10-12.

The validity of this approval expires when the characteristics included in this approval shall be CE-marked according to the Construction Products Regulation (EU) 305/2011.

Ingvar Pettersson

Ronald Green

*This is a translation from the Swedish original document. In the event of any dispute as to its content, the Swedish text shall take precedence.*