

ALNOR ROUND SPIRAL DUCT WORK SYSTEM

Holder/Issued to

ALNOR Systemy Wentylacji sp. z o.o.

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Product description

Alnor round spiral ducts and duct work elements manufactured from galvanized sheet steel with sealings by EPDM-rubber.

Steel quality, dimensions and density classes as follows:

Galvanized sheet steel with the designation DX51D + Z275 according to EN 10346.

Coating Z275 meets corrosion class C3 according to ISO 9223 and EN 12944-2 and AMA VVS & Kyl 2009.

Dimensions:

The Swedish technical approval includes dimensions 80 - 1600 mm which among other things included in dimensional standard SS-EN 1506.

Diameter and wall thickness. The wall thicknesses shown below are minimum thickness:

DUCTS	FITTINGS
Ø 80 - Ø 160 mm ≥ 0,4 mm	Ø 80 - Ø 500 mm ≥ 0,5 mm
Ø 180 - Ø 500 mm ≥ 0,5 mm	Ø 560 - Ø 630 mm ≥ 0,6 mm
Ø 560 - Ø 630 mm ≥ 0,6 mm	Ø 710 - Ø 900 mm ≥ 0,7 mm
Ø 710 - Ø 800 mm ≥ 0,7 mm	Ø 1000 - Ø 1250 mm ≥ 0,9 mm
Ø 900 - Ø 1250 mm ≥ 0,9 mm	Ø 1400 - Ø 1600 mm ≥ 1,0 mm
Ø 1400 - Ø 1600 mm ≥ 1,2 mm	

Specification of ducts and duct work elements plate thicknesses for each size in the Steel sheet under item associated document.

Supports for ductwork

Ducts shall be provided with support with max 500 mm from each joint and the maximum distance between supports shall be 2000 mm. See installation guide and sketch.

Intended use

Distribution of air with demand for air tightness class D according to EN 12237:2003.

Trade name

ALNOR round spiral duct work system.

Type approval 0103/07 | 2018-02-19

RISE Research Institutes of Sweden AB | Certification

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2018-01-16-20



7P07642



Accred. no. 1002
Certification of
Products
ISO/IEC 17065

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

Assembly instructions dated 2012.
Steel sheet dated 2012.
Montageinstruction drawings dated 2012-06-11.

Control

The factory production control (FPC) is monitored by an independent inspection body.
Control agreement: 210-07-0129.
Inspection body: RISE, Research Institutes of Sweden AB.

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 place

Production control includes the following place:
Alnor-Systemy Wentylacji Sp.zo.o., 05-552 Wola Mrokowska, Aleja Krakowska 10, Poland = numeric code 77

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, manufacturing place and numeric code	77
Boverket's registered trade mark	†
Certification body and accreditation number	RISE Certifying 1002
Type approval number	0103/07
Air tightness Class	D
Dimensions Ø	mm
Consecutive manufacture no. and date of production	Code/year/week
Inspection body	RISE

Basis for judgement/approval

Test reports P701270-17B .
Audit reports P701270-17A 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 2013-01-21 and project number PX23657.

Validity

Valid through 2023-02-18.

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.

Johan Åkesson

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.