

# NORDduct, circular duct system for ventilation

## Holder/Issued to

### ETS Nord AS

Peterburi tee 53G, EE-11415 Tallin, Estonia

## Product description

NORDduct circular spiral duct and duct components. Duct and duct components made of metallized sheet steel and stainless steel as below.

- Hot-dip galvanized steel sheet with designation DX51D + Z275 according to EN 10346:2015. Surface coating with Z275 meets corrosion class C3 according to AMA VVS & Kyla 2019 and EN ISO 12944-2:2017.
- Magnelis, steel plate metallized with zinc and aluminum-magnesium with designation DX51D + ZM310 according to EN 10346:2015. Surface coating with ZM310 meets corrosion class C4 according to AMA VVS & Kyla 2019 and EN ISO 12944-2:2017.
- Acid-proof steel, acid-resistant steel sheet according to EN 1.4401 (AISI 304, SS 2333) or EN 1.4404 (AISI 316L, SS 2348) meets corrosion class C5 according to AMA VVS & Kyla 2019 and EN ISO 12944-2:2017.

Dimensions: :  $\varnothing$  80 –  $\varnothing$  1250/1600 mm according to dimension standard SS-EN 1506:2007 och tabels below.

Hot-dip galvanized and Magnelis

Diameter $\varnothing$ (mm)	Thickness (mm)
80 - $\leq$ 250	0,45
> 250 - $\leq$ 315	0,5
> 315 - $\leq$ 800	0,7
> 800 - $\leq$ 1600	0,9

Acid-resistant steel sheet

Diameter $\varnothing$ (mm)	Thickness (mm)
80 - $\leq$ 315	0,5
> 315 - $\leq$ 1250	0,7

Duct components are provided with sealings of EPDM rubber.

Support of ducts: Maximum spacing between supports shall be 3000 mm for uninsulated ducts and 2000 mm for insulated ducts respectively. Maximum distance between support and joint is 500 mm.

## Intended use

Ventilation ducts for distribution of air, with air tightness class D, according to EN 12237:2003 in buildings.

## Trade name

NORDduct

## 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 type approval, 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. Sealings has no requirements (class F).

\*\* Ducts and ducts components fulfills tightness class D (2000 Pa) according to EN 12237:2003 and AMA VVS & Kyla 2019, figure AMA Q/1.

## Associated documents

Installation, Operation and Maintenance Instructions for NORDduct Ventilation System, dated 1119.

## Control

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

Control plan: Ref no. 210-16-0166 dated 2016-04-13, Inspection body: RISE

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 type 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 type approval is based.

## Manufacturing places

Production control includes the following places:


ETS Nord AS, Peterburi tee 53G, 11415 Tallin, Estonia

ETS Nord AS, Järsjögatan 7, 692 35 Kumla, Sweden

ETS Nord AS, Pakkasraitti 4, 04360 Tuusula, Finland

## Marking

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

Holder	ETS Nord
Factory code	e.g. ET (Estonia)
Product type designation	NORDduct and type designation
Date of production	date
Type approval number	SC0183-10
Tightness class	class D
Material	e.g. Magnelis
Dimension Ø mm	x mm
Boverket's registered trade mark	
RISE Accreditation number	1002
Certification body and Inspection body	RISE

## Basis for approval

Test reports O100177-177110B, O100177-188228B and O100177-1105003B and inspection reports O100177-177110A, O100177-188228A and O100177-1105003A from RISE.

## Comments

The products are tested according to EN 12237:2003 with the headline: Ventilation for buildings – Ductwork – Strength and leakage of circular sheet metal ducts. The duct system fulfills tightness class D (2000 Pa overpressure and 750 Pa negative pressure).

Associated documents shall accompany the product or by other means be available to users of the product.

This type approval supersedes the previous type approval with the same number dated 2017-02-20.

## Validity

Valid through 2027-04-13.

Validity of this type approval can be verified on our website.

The validity of this type approval expires when the type approved products with the intended use according to this type approval shall be CE-marked according to the Construction Products Regulation (EU) 305/2011.



Stefan Coric

*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.*