

# Swedish Technical Approval

## SC0183-10

and decision on production control, in accordance with chapter 8, 22 and 23 §§ Planning- and Building Act (2010:900), PBL

### NORDduct, circular duct system for ventilation

#### Holder

ETS Nord AS, Peterburi tee 53G, 11415 Tallinn, Estonia  
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#### Information supplied by

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#### Product

NORDduct circular spiral ducts and duct components.  
Ducts and duct components made of metallized sheet steel and stainless steel as below:

##### Zinc:

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.

##### Aluzinc:

Steel plate metallized with aluminum zinc (Aluzinc) with the designation DX51D + AZ185 according to SS-EN 10346. Surface coating with AZ185G meets corrosivity class C4 according to AMA VVS & Kyl 2016 and SS-EN ISO 12944-2.

##### Magnelis ZM310:

Steel plate metallized with zinc, aluminum-magnesium with the designation DX51D + ZM310 according to EN 10346. Surface coating with ZM310 meets corrosivity class C4 according to AMA VVS & Kyl 2016 and SS-EN ISO 12944-2.

##### Stainless steel:

Stainless steel sheet according to EN 1.4301 (AISI 304, SIS 2333) meets corrosivity class C4 according to AMA VVS & Kyl 2016 and SS-EN ISO 12944-2.

##### Acid-proof steel:

Acid-resistant steel sheet according to EN 1.4401 (AISI 316, SIS 2347) meets corrosivity class C5 According to AMA VVS & Kyl 2016 and SS-EN ISO 12944-2.

Acid-resistant steel sheet according to EN 1.4404 (AISI 316L, SIS 2348) meets corrosivity class C5 according to AMA VVS & Kyl 2016 and SS-EN ISO 12944-2.

Duct components are provided with seal rings of EPDM rubber.

### Continued Product

The materials and dimensions listed below are included in the type approval:

Hot-dip galvanized, Aluzinc and Magnelis ZM310

Dimensions:  $\varnothing 80$  -  $\varnothing 1600$  mm according to dimension standard SS-EN 1506.

Plate thickness:

$\varnothing 80$  -  $\varnothing \leq 315$  mm = 0,5 mm

$\varnothing > 315$  -  $\varnothing \leq 800$  mm = 0,7 mm

$\varnothing > 800$  -  $\varnothing 1600$  mm = 0,9 mm

Stainless steel sheet according to EN 1.4301

Acid-resistant steel sheet according to EN 1.4401 and EN 1.4404

Dimensions:  $\varnothing 80$  -  $\varnothing 1250$  mm according to dimension standard SS-EN 1506.

Plate thickness :

$\varnothing 80$  -  $\varnothing \leq 315$  mm = 0,5 mm

$\varnothing > 315$  -  $\varnothing \leq 800$  mm = 0,7 mm

$\varnothing > 800$  -  $\varnothing 1600$  mm = 0,9 mm

### Intended use

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

### 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 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, Operation and Maintenance Instructions for NORDduct Ventilation Systems, dated by SP Certification 2017-02-15.

## Control

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

Control agreement: Ref no.210-16-0166

Inspection body: SP Technical Research Institute of Sweden

When the building proprietor performs inspection at the building site, he shall check the markings to ensure that the correct products have been supplied and that they are used in accordance with the requirements stated in the approval and the associated documents. He must also check that the product is accompanied by a manufacturing assurance, which certifies that the product has been manufactured in accordance with the documents on which this approval is based.

## Manufacturer

Production control includes the following sites:

ETS NORD AS, Peterburi tee 53G, 11415 Tallinn in Estonia

ETS NORD AS Sweden branch office, Järsjögatan 7, 69235 Kumla in Sweden

## Marking

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

Approval holder

Manufacturing site for Ducts and duct components

made of material quality: Hot-dip galvanized/Aluzink

/Magnelis ZM310/Stainless steel EN 1.4301/

Acid-resistant steel EN 1.4401 and EN 1.4404

Boverket's registered trademark

Certification body and accreditation number

Product type designation

Material: Zink, Aluzink, ZM310, Stainless steel,

Acid-resistant steel

Approval number

Dimension Ø mm

Tightness class

Consecutive manufacture date of production

Inspection body

**ETS NORD AS Tallinn, Estonia**

**ET (Estonia)**

**Sv (Sweden)**



**SP Certifiering 1002**

**NORDduct and type designation**

**See under point product**

**SC0183-10**

**X mm**

**Class D**

**dd.mm.yyyy**

**SP**

## Basis for approval

Reports 6P03683A, 6P03683B, 6P03683C, 6P03683D and 6P03683E from SP Technical Research Institute of Sweden.

## 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 2010-09-16.

### **Period of validity**

This approval is valid until 2022-02-19.

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.

### **SP Technical Research Institute of Sweden Certification**

Håkan Thiman

Ronald Green