# SORDO-B, C, P, PF



### **QUICK FACTS**

- Mineral wool covered with special polyester woven fabric.
- 100 mm shorter
- Tightness Class D (<400 mm dimension)
- Excellent sound attenuation
- $\,\circ\,$  Included in the MagiCAD database
- Fire-resistance Classes EI30 and EI120
- \*See table for requisite safety distance



### SORDO-B, C, P, PF

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### **Technical Description**

### General

A circular sound attenuator with circular connection spigots.

Unique properties regarding fire-resistance class, fibremigration proof design and sound attenuation.

Patented self-supporting fibre-migration proof surface lining and end wall solution.

### Function

Producers in every line of trade are constantly in pursuit of ways to downsize their products yet retain the same performance. This is also the case in the indoor climate system field. The smaller the products we at Swegon are able to fabricate; the more installation options the subcontractor will have at his disposal. Reduced sizes also make the products easier to handle and install.

It was with these prerequisites in mind that we began to develop the new SORDO, our popular round sound attenuator with circular connection spigots.

### **Patented Solution**

The result of our research work has been the development of a sound attenuator that is 100 mm shorter than our previous SORDO yet with the same excellent acoustical properties as before. Like for the SORDO's rectangular sister sound attenuator the CLA, the success of this design is to a great extent due to a completely new, patented production technique. The unique solution with the end walls integrated directly into the connection spigots and our new self-supporting fibre-migration-proof lining, where mineral wool is covered with a special polyester woven fabric inside the sound attenuator. This solution offers excellent tightness that contributes to the high performance. We have also been able to reduce both the inner and outer diameters of the new SORDO, which is also a reason for its excellent sound attenuation.

### Design

The standard SORDO is made of galvanised sheet steel to Environmental Class C3 (equivalent to M2 to VVS-AMA 98).

The SORDO is fibre-migration-proof thanks to our new patented solution with self-supporting surface layer, which is approved with regard to cleaning, fibre migration, resistance to ageing, emissions, etc.

### Accessory

The SORDO T1 counterflange is a robust flange made of flat steel that has then been galvanised. The dimensions are adapted to DIN 24 154 Parts 2 and 5 German Standard. The counterflange can be fitted on both spiral-fold and longitudinal-fold ducts. Oval bolt holes facilitate installation.

### Installation

The connection spigots on this product are designed for connection to ducts only. It is important to drive screws or blind rivets into the sheet-metal edge on the connection spigot. See Figure.



Figure 1. Sheet-metal edge firmly fixed in the connection spigot. For extra reliability, the joint duct should be fastened in the curled up sheet-metal edge (at least 25 mm) inside the connection spigot.

The product can be mounted by means of approved hangers that satisfy the provisions to load bearing capacity rating **R** corresponding to the fire resistance the structural element of the building, for example load bearing capacity rating **R 60** for elements of structure to fire-resistance class **EI60**.

### Maintenance

The product is maintenance-free under normal operating conditions. According to its type approval rating, the sound attenuator can be cleaned using a rotating plastic brush.

The normal temperature for (continuous) use is between -30° and +50°C.

### **Environmental Considerations**

The relevant building product declaration is available from our website.



### SORDO-B, C, P, PF

### **Fire-resistance Class**

In applications in which the sound attenuator is to replace a ventilation duct insulated to a specific fire-resistance rating, the SORDO can be used provided that the required safety distance is complied with.

### Protection against the spread of fire between fire compartments

Ventilation ducts must be run and designed so that in the event of a fire they will not give rise to ignition in nearby elements of structure and permanent fittings outside the fire compartment in which they are situated, during the period stated in the fire compartment provision. Note that the sound attenuator cannot be installed running through a fire-separating element of structure. Air treatment system installations that run through an element of structure separating fire compartments must be designed so that the fire-separating capability of the element will be maintained. **BBR 5:6521**.

According to **BBR 5:6213** Fire-resistance Class **EI** must be changed to Class **E**, if the distance to an escape route and to combustible material is sufficient so that it will not impair evacuation safety or increase the risk of fire spread. For ventilation ducts, this means that I-rated duct insulation can be replaced by an appropriate safety distance.

Safety distance means the shortest distance required so that heat radiation from a hot surface will not ignite combustible material or will not injure persons evacuating the building.

Generally, no safety distance is required for temperatures below  $375^{\circ}$  C.

The required safety distance specified in our catalogue has thus been calculated the parallel case (combustible material or persons parallel to the sound attenuator) since it is in this case that develops the most incident radiation.

## Installation of sound attenuators in ducts to specific fire resistance class arranged at a safe distance to combustible material.

The fire-resistance class requirement of the sound attenuator is governed by the requirements that are applicable to the ventilation duct in which the sound attenuator is installed. The safety distance should be measured at right angles from the surfaces of the sound attenuator. The specified safety distance is based on a critical radiation level for ignition of 10 kW/m<sup>2</sup> (without pilot flame).

# Installation of sound attenuators in ducts to specific fire resistance class with safety distance to persons evacuating a building

This refers to escape routes such as separate stairways in a building or separate corridors within a hotel floor level. Besides the sound attenuator's surface temperature and emissivity, the exposure time that evacuating persons have to endure governs the need for a safety distance and the length of this gap to evacuating persons. The Swedish Board of Housing, Building and Planning Regulation for New Building no. BBR 5:6213, advises: "the distance to evacuating persons should be so far that the radiation level will not exceed 3 kW/m<sup>2</sup>. Higher radiation levels may be acceptable if the time aspects for evacuation and combustion are observed". The 3 kW/m<sup>2</sup> limit is based on the limit value for unendurable pain during a long period of exposure.

The safety distance shall be measured at right angles from the surfaces of the sound attenuator. The specified safety distance is based on a critical radiation level of 3 kW/m<sup>2</sup> and an emissivity of 1. Emissivity 1 has been chosen with regard to surface finish such as a painted finish or ageing. The end walls are not taken into account since a sound attenuator is normally installed so that the parallel case cannot arise.

SORDO-B, -C (with 100 mm thick rock wool)

The SORDO-B, -C are isolated to comply with Fire-resistance Classes EI30/E60, EI60/EI20 and EI120 on condition that the tabulated safety distance to flammable material and/or persons in an escape route is complied with.

In the cases in which the safety distance to flammable material and/or persons in an escape route is not complied with, the SORDO-B, -C corresponds to Fire-resistance Class EI60/E120.

**SORDO-P, -PF** (with 100 mm thick mineral wool with aerodynamic centre body)

SORDO-P corresponds to Fire resistance Class E60

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### Sizing

### Sound attenuation

Sound attenuation is specified to ISO 7235, i.e. static integral attenuation for duct products.

### Software

Prosilencer is a program for sizing and selection of sound attenuators. Prosilencer can easily be found on www. swegon.com

Swegon ProSilencer plugin for MagiCAD for AutoCAD and Revit means that you can choose a duct section from the drawings and automatically search for suitable sound attenuator options for the duct based on the duct form, dimensions, air flow and MagiCAD sound data.

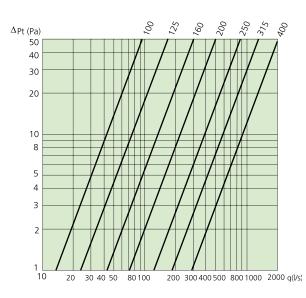
The Swegon ProSilencer plugin is a part of the Swegon MagiCAD plugin for AutoCAD and Revit, which enables direct data transfer between Swegon's calculation software and your MagiCAD project.

### **Pressure drop**

The net area is less than the connection diameter for improved sound attenuation data (especially in the low frequencies). The pressure drop that SORDO duct-to-duct installation generates is specified in Diagram 1.

The specified data is based on a uniform air stream in and out of the product. Any dampers, duct bends or other products in the ducting near the sound attenuator will increase its pressure drop and level of flow-generated sound, and affect its sound attenuating properties.

### Diagram 1. Airflow – pressure drop, SORDO-C



#### Table for the SORDO-B dimension print

| Size | Ød  | ØD   | С  |     | Length |      |
|------|-----|------|----|-----|--------|------|
| mm   | mm  | mm   | mm |     | mm     |      |
| 315  | 314 | 482  | 45 | 500 | 800    | 1100 |
| 400  | 399 | 558  | 60 | 500 | 800    | 1100 |
| 500  | 499 | 700  | 60 |     | 900    | 1200 |
| 630  | 629 | 830  | 60 |     | 900    | 1200 |
| 800  | 799 | 1000 | 60 |     | 900    | 1200 |

#### Table for the SORDO-C dimension print

|      |     |     |    | <u> </u> |        |      |
|------|-----|-----|----|----------|--------|------|
| Size | Ød  | ØD  | С  |          | Length |      |
| mm   | mm  | mm  | mm |          | mm     |      |
| 100  | 99  | 284 | 45 | 500      | 800    | 1100 |
| 125  | 124 | 305 | 45 | 500      | 800    | 1100 |
| 160  | 159 | 334 | 45 | 500      | 800    | 1100 |
| 200  | 199 | 367 | 45 | 500      | 800    | 1100 |
| 250  | 249 | 424 | 45 | 500      | 800    | 1100 |
| 315  | 314 | 482 | 45 | 500      | 800    | 1100 |
| 400  | 399 | 558 | 60 | 500      | 800    | 1100 |

#### Table for the SORDO-P, PF dimension print

| Size | Ød   | ØD   | С  | Length |      |  |
|------|------|------|----|--------|------|--|
| mm   | mm   | mm   | mm | mm     |      |  |
| 500  | 499  | 700  | 60 | 900    | 1200 |  |
| 630  | 629  | 830  | 60 | 900    | 1200 |  |
| 800  | 799  | 1000 | 60 | 900    | 1600 |  |
| 1000 | 999  | 1200 | 60 | 1000   | 2000 |  |
| 1250 | 1249 | 1450 | 60 | 1200   | 2400 |  |
| 1600 | 1599 | 1800 | 60 | 1600   | 3200 |  |
| 2000 | 1999 | 2200 | 60 | 2000   | 4000 |  |



### SORDO-C

### Version (with 100 mm thick mineral wool)

The new SORDO is an industrially fabricated product designed for excellent sound attenuation and ease of installation.

The standard SORDO is made of galvanised sheet steel. The connection spigots are fitted with rubber seal rings. Type-approved to Ductwork leakage class D.

The SORDO-C are isolatede to comply with Fire-resistance Classes EI30/E120, EI60/E120 and EI120/E120 respectively on condition that the safety distance is complied with.

In buildings in which the safe distance from a combustible material and/or persons in an evacuation route is not complied with, the SORDO-C corresponds to Fire-resistance Class EI60/E120.

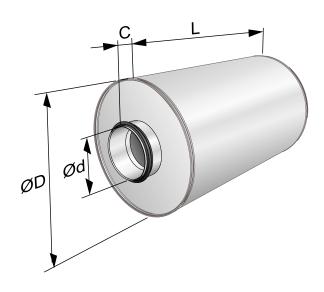


Figure 3. SORDO-C – Dimension print

### The new SORDO is 100 mm shorter, with the same excellent acoustic data as before.

The overall dimension for connection sizes 100 up to and including 400 is 100 mm shorter than previously. The same degree of attenuation is made possible by, among others, reduced inner and outer diameters.

This reduces its weight and above all saves space.

| Size | Length | Ød   | ØD   |    | Static | integral | attenua | ation, dl | B to ISO | 7235 |    | Weight | Safety dist | ance in mm |
|------|--------|------|------|----|--------|----------|---------|-----------|----------|------|----|--------|-------------|------------|
|      | (mm)   | (mm) | (mm) | 63 | 125    | 250      | 500     | 1K        | 2K       | 4K   | 8K | (kg)   | EI60        | EI120      |
| 100  | 500    | 99   | 284  | 7  | 10     | 15       | 28      | 41        | 48       | 37   | 25 | 6.1    | -           | 50         |
|      | 800    | 99   | 284  | 8  | 13     | 22       | 36      | 49        | 50       | 47   | 28 | 9      | -           | 50         |
|      | 1100   | 99   | 284  | 9  | 15     | 29       | 44      | 50        | 50       | 50   | 39 | 12     | -           | 50         |
| 125  | 500    | 124  | 305  | 5  | 9      | 13       | 25      | 34        | 40       | 34   | 18 | 6.7    | -           | 50         |
|      | 800    | 124  | 305  | 6  | 12     | 19       | 34      | 44        | 50       | 40   | 26 | 10     | -           | 50         |
|      | 1100   | 124  | 305  | 7  | 15     | 24       | 43      | 50        | 50       | 46   | 34 | 13.3   | -           | 50         |
| 160  | 500    | 159  | 334  | 5  | 8      | 13       | 21      | 29        | 35       | 19   | 15 | 7.7    | -           | 50         |
|      | 800    | 159  | 334  | 6  | 11     | 18       | 29      | 39        | 45       | 30   | 21 | 11.3   | -           | 50         |
|      | 1100   | 159  | 334  | 7  | 14     | 23       | 37      | 50        | 50       | 41   | 26 | 15     | -           | 50         |
| 200  | 500    | 199  | 367  | 5  | 6      | 11       | 17      | 22        | 25       | 15   | 13 | 8.7    | -           | 50         |
|      | 800    | 199  | 367  | 5  | 8      | 14       | 24      | 34        | 38       | 22   | 18 | 12.9   | -           | 50         |
|      | 1100   | 199  | 367  | 6  | 10     | 18       | 31      | 46        | 51       | 29   | 20 | 17.1   | -           | 50         |
| 250  | 500    | 249  | 424  | 4  | 5      | 8        | 14      | 20        | 18       | 10   | 7  | 10.5   | -           | 50         |
|      | 800    | 249  | 424  | 4  | 7      | 11       | 19      | 27        | 27       | 14   | 10 | 15.5   | -           | 50         |
|      | 1100   | 249  | 424  | 5  | 9      | 14       | 24      | 35        | 37       | 19   | 12 | 20.6   | -           | 50         |
| 315  | 500    | 314  | 482  | 3  | 6      | 7        | 11      | 14        | 10       | 8    | 3  | 12.3   | -           | 50         |
|      | 800    | 314  | 482  | 3  | 7      | 10       | 16      | 21        | 17       | 10   | 5  | 18.2   | -           | 50         |
|      | 1100   | 314  | 482  | 4  | 8      | 12       | 21      | 29        | 24       | 12   | 7  | 24.1   | -           | 50         |
| 400  | 500    | 399  | 558  | 3  | 6      | 6        | 11      | 14        | 10       | 7    | 4  | 15.2   | -           | 50         |
|      | 800    | 399  | 558  | 3  | 6      | 8        | 15      | 19        | 13       | 8    | 4  | 22.2   | -           | 50         |
|      | 1100   | 399  | 558  | 4  | 7      | 10       | 19      | 24        | 16       | 9    | 4  | 29,3   | -           | 50         |

### SORDO-C, Sound attenuation



### SORDO-B

### Version (with 100 mm thick rock wool)

The standard SORDO-B is made of galvanised sheet steel. Sound attenuating material consisting of 100 mm thick long-fibred, compressed rock wool lined with EUROLON. EUROLON withstands substantially higher air velocities and mechanical strain than that in other makes of ordinary staple fibre. The sound attenuating material is also covered with perforated sheet steel outside the EUROLON layer. The connection spigots are fitted with rubber seal rings.

The SORDO-B are isolated to comply with Fire-resistance Classes EI30/E120, EI60/E120 and EI120/E120 respectively on condition that the safety distance is complied with. In buildings in which the safe distance from a combustible material and/or persons in an evacuation route is not complied with, the SORDO-B then corresponds to Fireresistance Class EI60/E120.

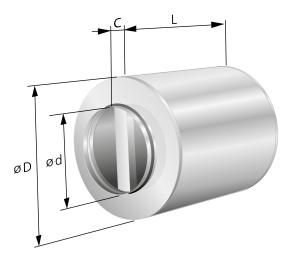
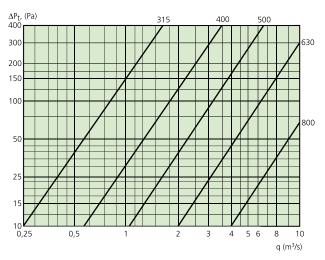


Figure 4. SORDO-B – Dimension print

### **Pressure drop**

The pressure drop that SORDO-B duct-to-duct installation generates is specified in Diagram 2.

### Diagram 2. Pressure drop – Airflow, SORDO -B



### SORDO-B, Sound attenuation

| Size    | Length      | Ød      | ØD        |          | Static   | integral | attenu | ation, d | IB to ISC | D 7235 |    | Weight | Safety dist | ance in mm |
|---------|-------------|---------|-----------|----------|----------|----------|--------|----------|-----------|--------|----|--------|-------------|------------|
|         | (mm)        | (mm)    | (mm)      | 63       | 125      | 250      | 500    | 1K       | 2K        | 4K     | 8K |        | EI60        | EI120      |
| 315*    | 500         | 314     | 482       | 4        | 8        | 10       | 17     | 24       | 28        | 19     | 11 | 13.1   | -           | 50         |
|         | 800         | 314     | 482       | 4        | 9        | 13       | 22     | 31       | 35        | 21     | 13 | 19.3   | -           | 50         |
|         | 1100        | 314     | 482       | 5        | 10       | 15       | 27     | 39       | 42        | 23     | 15 | 25.6   | -           | 50         |
| 400*    | 500         | 399     | 558       | 4        | 8        | 9        | 17     | 24       | 28        | 18     | 12 | 16.1   | -           | 50         |
|         | 800         | 399     | 558       | 4        | 8        | 11       | 21     | 29       | 31        | 19     | 12 | 23.5   | -           | 50         |
|         | 1100        | 399     | 558       | 5        | 9        | 13       | 25     | 34       | 34        | 20     | 12 | 31     | -           | 50         |
| 500     | 900         | 499     | 700       | 3        | 5        | 10       | 20     | 29       | 24        | 18     | 17 | 50.6   | -           | 200        |
|         | 1200        | 499     | 700       | 3        | 7        | 13       | 25     | 35       | 30        | 21     | 19 | 63.2   | -           | 200        |
| 630     | 900         | 629     | 830       | 3        | 4        | 8        | 14     | 19       | 19        | 13     | 12 | 80.7   | -           | 200        |
|         | 1200        | 629     | 830       | 4        | 6        | 12       | 17     | 21       | 24        | 17     | 16 | 94.9   | -           | 200        |
| 800     | 900         | 799     | 1000      | 1        | 2        | 5        | 11     | 12       | 14        | 8      | 9  | 88.8   | -           | 200        |
|         | 1200        | 799     | 1000      | 1        | 3        | 7        | 13     | 14       | 18        | 11     | 10 | 101.5  | -           | 200        |
| *= vers | ion similar | to SORD | 0-C, with | n centre | e baffle |          |        |          |           |        |    |        |             |            |



### SORDO-P

### Version (with 100 mm thick mineral wool)

The SORDO-P is an industrially fabricated product designed for excellent sound attenuation in large ducts with circular connections.

The SORDO-P is equipped with an aerodynamically designed centre body (pod) for optimal acoustic and pressure-drop characteristics.

The sound attenuating material consists of 100 mm thick long-fibred mineral wool that offers excellent sound attenuation, especially in the mid-frequencies. The insulation is covered with EUROLON.

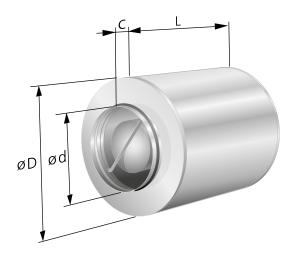
The sound attenuating material is also covered with perforated sheet steel outside the EUROLON layer.

The standard SORDO-P is made of galvanised sheet steel. The connection spigots are equipped with rubber seal rings.

The SORDO-P corresponds to Fire-resistance Class E60.

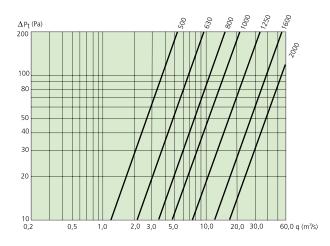
### **Pressure drop**

The pressure drop that SORDO-P, -PF duct-to-duct installation generates is specified in Diagram 3.



*Figure 5. SORDO-P – Dimension print* 

#### Diagram 3. Pressure drop – Airflow, SORDO -P, -PF (Pa/m)



| SORDO P | , sound a | itenuatio | n    |    |     |            |            |            |           |    |    |        |
|---------|-----------|-----------|------|----|-----|------------|------------|------------|-----------|----|----|--------|
| Size    | Length    | Ød        | ØD   |    | St  | atic integ | ral attenu | iation, dB | to ISO 72 | 35 |    | Weight |
|         | (mm)      | (mm)      | (mm) | 63 | 125 | 250        | 500        | 1K         | 2K        | 4K | 8K |        |
| 500     | 900       | 499       | 700  | 2  | 5   | 12         | 22         | 33         | 27        | 17 | 15 | 50,5   |
|         | 1200      | 499       | 700  | 3  | 6   | 15         | 28         | 41         | 30        | 19 | 17 | 60,5   |
| 630     | 900       | 629       | 830  | 2  | 4   | 11         | 19         | 25         | 19        | 12 | 8  | 58     |
|         | 1200      | 629       | 830  | 3  | 5   | 14         | 25         | 33         | 22        | 14 | 10 | 77     |
| 800     | 900       | 799       | 1000 | 1  | 3   | 9          | 17         | 21         | 15        | 9  | 6  | 69     |
|         | 1600      | 799       | 1000 | 2  | 4   | 12         | 22         | 29         | 18        | 11 | 8  | 84     |
| 1000    | 1000      | 999       | 1200 | 1  | 3   | 9          | 17         | 20         | 15        | 9  | 6  | 96     |
|         | 2000      | 999       | 1200 | 3  | 7   | 17         | 27         | 36         | 29        | 17 | 13 | 173    |
| 1250    | 1200      | 1249      | 1450 | 1  | 3   | 9          | 17         | 20         | 12        | 7  | 4  | 150    |
|         | 2400      | 1249      | 1450 | 3  | 8   | 18         | 27         | 33         | 25        | 14 | 11 | 260    |
| 1600    | 1600      | 1599      | 1800 | 2  | 4   | 10         | 17         | 20         | 22        | 6  | 3  | 230    |
|         | 3200      | 1599      | 1800 | 3  | 8   | 17         | 26         | 32         | 22        | 11 | 9  | 425    |
| 2000    | 2000      | 1999      | 2200 | 2  | 4   | 9          | 16         | 19         | 22        | 5  | 3  | 320    |
|         | 4000      | 1999      | 2200 | 3  | 8   | 15         | 23         | 30         | 20        | 9  | 7  | 600    |

### SORDO P, Sound attenuation



### SORDO-PF

### Version (with 100 mm thick mineral wool)

The SORDO-PF is an adaptation of the SORDO-P. The difference is that it has tapped holes for connection of flanges instead of connection spigots.

The technical data is the same as for the SORDO-P (see previous page)

### Accessory

The SORDO T1 counterflange is a robust flange made of flat steel that has then been galvanised. The dimensions are adapted to DIN 24 154 Parts 2 and 5 German Standard. The counterflange can be fitted on both spiral-fold and longitudinal-fold ducts.

Oval bult holes facilitate installation.

### Special

The SORDO can be supplied in various material qualities and material thicknesses. For further particulars, get in touch with your nearest Swegon representative.

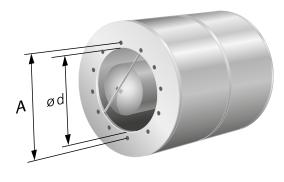


Figure 6. SORDO-PF – Dimension print

#### Dimensions for flange connection (mm)

| Size | Centre dimension | Number of    | Hole      |
|------|------------------|--------------|-----------|
| Ød   | A (mm)           | tapped holes | dimension |
| 500  | 541              | 12           | M8        |
| 630  | 674              | 16           | M10       |
| 800  | 837              | 24           | M10       |
| 1000 | 1043             | 24           | M10       |
| 1250 | 1311             | 24           | M10       |
| 1600 | 1637             | 32           | M10       |
| 2000 | 2073             | 40           | M8        |



### **Ordering Key**

### Product

Circular sound attenuators

### SORDO

aa- bbbb- cccc

#### Type: B, C, P, PF

Connection dimensions: For SORDO -C 100, 125, 160, 200, 250, 315, 400 For SORDO-B

315, 400, 500, 630, 800

For SORDO-P, -PF 500, 630, 800, 1000, 1250, 1600, 2000

Length:

For SORDO-C, 500, 800, 1100

For SORDO-B (dim. 315+400) 500, 800, 1100 (dim 500+630+800) 900, 1200

For SORDO-P, -PF (dim. 500+630) 900, 1200 (dim 800) 900, 1600 (dim. 1000) 1000, 2000 (dim. 1250) 1200, 2400 (dim. 1600) 1600, 3200 (dim. 2000) 2000, 4000

### Accessory

Counterflange (supplied in pairs)

### SORDO T1

**Specification Text** 

Example of a specification text conforming to VVS AMA Standard.

### Example 1

Swegon type SORDO-B round sound attenuators for connection to circular ducts, with the following functions:

- Equipped with acoustic centre baffle
- Fire-resistance Class El60 Fire-resistance Class El120 with safety distance of 50mm
- 100 mm thick rock wool

| Designation: | SORDO-B 400-1100 | xx items |
|--------------|------------------|----------|
|--------------|------------------|----------|

### Example 2

Swegon type SORDO-C round sound attenuators for connection to circular ducts, with the following functions:

- Self-supporting surface layer
- Fire-resistance Class El60 Fire-resistance Class El20 with safety distance 50 mm
- 100 mm thick rock wool

|  | Designation: | SORDO-C 160-500 | xx items |
|--|--------------|-----------------|----------|
|--|--------------|-----------------|----------|

### Example 3

Swegon type SORDO-P round sound attenuators for connection to circular ducts, with the following functions:

- Equipped with aerodynamic centre body (pod)
- With connection spigots
- 100 mm thick rock wool

| Designation: | SORDO-P 630-1200 | xx items |
|--------------|------------------|----------|
|--------------|------------------|----------|

### Example 4

Swegon type SORDO-PF round sound attenuators for connection to circular ducts, with the following functions:

- Equipped with aerodynamic centre body (pod)
- With flange connection
- 100 mm thick rock wool
- Counterflange (supplied in pairs)

| Designation: | SORDO-PF 630-1200 | xx items |
|--------------|-------------------|----------|
| _            | SORDO-T1 630      | xx items |



<sup>10</sup> Swegon reserves the right to alter specifications.