

## Thermal &amp; sound-insulated flexible duct

**ALSD-L****Description**

Sonoduct AD-L thermal-insulated ducts protects air against heat loss inside the ventilation ductwork. The perforation improves the sound-insulating performance of this duct model. The product is based on the standard Aluduct and includes a 25 or 50 mm thick insulation with aluminium polyester cladding. It is generally intended for building connections for plenum boxes, air valves, or high-air-flow heat recovery ventilation systems.

**Packaging:** 10 metre sections compressed to 1200 mm and packed in cardboard boxes.

**Flexibility (winding diameter):** Depends on the actual duct outer diameter, i.e. ca. 0.75D (mm).

**Temperature range:** -30°C to +140°C

**Maximum acceptable vacuum:** Depending on the duct routing. For straight runs, 1/3 of the pressure transferred at the specific diameter can be taken.

**Sound insulation:** See the enclosed diagram.

**Non-perforated version available on request.**

**IZODUCT AD-L ALID-L**

**Fire classification references:** 2839.2/11/Z00NP

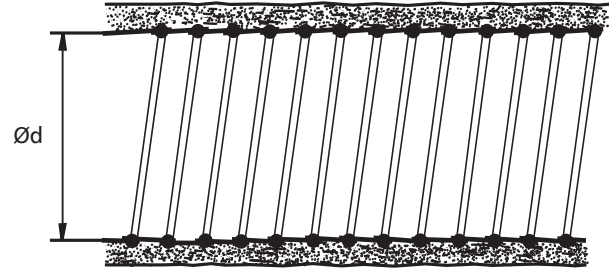
**Available materials - Product code example**

ALSD-L-...-...- AW-1050A H24 aluminium sheet

**Product code example**

Product code: **ALSD-L - aaa - bbb - cccc**

type \_\_\_\_\_  
 insulation thickness \_\_\_\_\_  
 Ød<sub>1</sub> \_\_\_\_\_  
 lenght \_\_\_\_\_

**Dimensions**

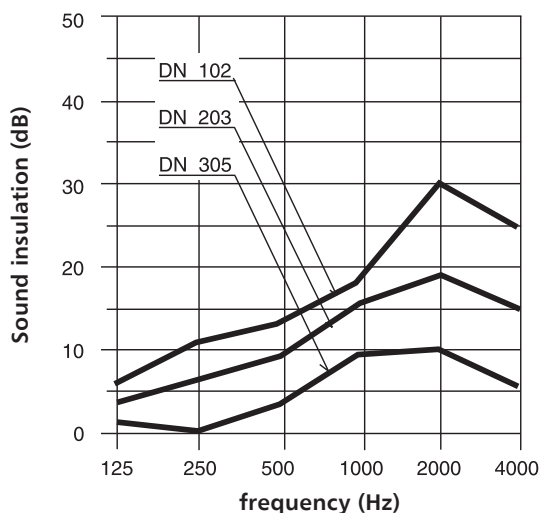
Ød <sub>1 nom</sub> (mm)	Ød out. (mm)	Max. acceptable pressure (Pa)	Tolerance (mm)
80	82.0	2000	+ 1.5
100	102.0	2000	+ 1.5
125	127.0	2000	+ 1.5
140	140.0	2000	+ 1.5
150	152.0	2000	+ 1.5
160	160.0	2000	+ 2.0
180	180.0	2000	+ 2.0
200	203.0	2000	+ 2.0
225	229.0	2000	+ 2.0
250	254.0	2000	+ 3.0
280	280.0	2000	+ 3.0
300	305.0	2000	+ 3.0
315	315.0	2000	+ 3.0
355	355.0	2000	+ 3.0
400	406.0	2000	+ 3.0
450	457.0	2000	+ 3.0
500	508.0	2000	+ 3.0
560	568.0	2500	+ 4.0
630	638.0	2500	+ 4.0
710	718.0	2500	+ 4.0
800	810.0	2500	+ 4.0

# SONODUCT/SONOLIGHT insulated ventilation ducts

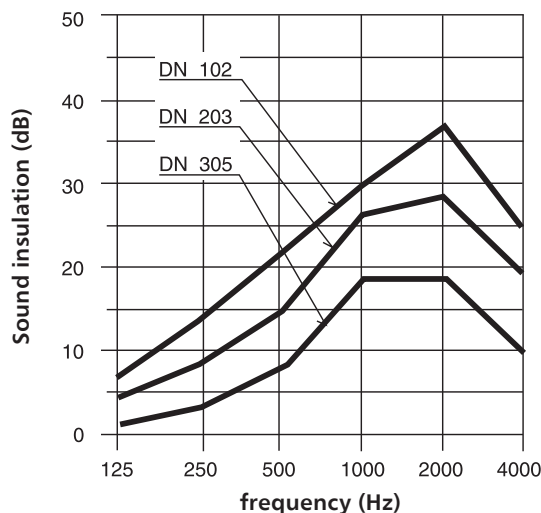
## Technical specifications

### Sound insulation performance charts

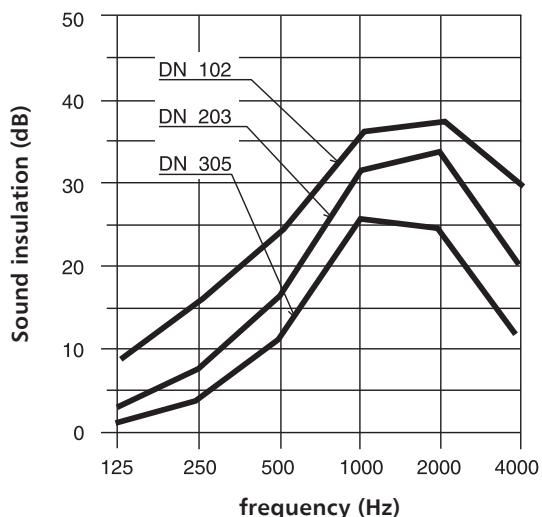
The charts show the noise levels for the SONODUCT and SONOLIGHT thermal and sound insulated ducts in relation to the duct section length sizes of 500 mm, 1000 mm and 1500 mm with the sound insulation thickness of ca. 25 mm.



**Chart 1: Noise levels in SONODUCT/SONOLIGHT**  
 Sound insulation thickness: 25 mm  
 Duct section length: 500 mm



**Chart 2: Noise levels in SONODUCT/SONOLIGHT**  
 Sound insulation thickness: 25 mm  
 Duct section length: 1000 mm



**Chart 3: Noise levels in SONODUCT/SONOLIGHT**  
 Sound insulation thickness: 25 mm  
 Duct section length: 1500 mm