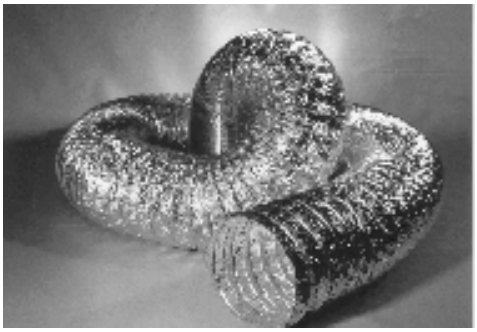
ALUDEC®

ALUDEC® ducts are flexible, strong laminate ducts for various purposes. The ducts consist of several layers of aluminium and polyester, with a spiral enclosed between the layer. The duct can be attached to round and oval connection parts without any problems. The fire resistance of the **ALUDEC®** ducts has been tested in several countries, according to current international standards. For specific information about the various ducts consult the product information page.



The **ALUDEC®** ducts have been constructed out of a "sandwich construction" developed by **DEC BV** trading under the name: **DEC International®**.
This means that the different layers of polyester and aluminium are overlapping each other completely. In case of fire, the system is able to function longer.

The **ALUDEC®** fulfills all the requirements and are classified as specified within:
EN 13180 : "*Ventilation for buildings-Ductwork- Dimensions and mechanical requirements for flexible ducts*"

Applications in practice

ALUDEC® AA3 & ALUDEC® 245
- General air supply systems, without special demands
- Air conditioning systems, without special demands

ALUDEC® 112 & CE-Flex®
- Air supply systems, where a higher temperature resistance is required
- Air conditioning systems, where a higher temperature resistance is required
- Also see options in respect to house construction.

Restrictions in the range of application
The **ALUDEC®** ducts are not suitable for discharging combustion products from open fireplaces and oil-fired boilers. Neither are the **ALUDEC®** ducts suitable for transporting air with a high concentration of acid and base.

PLEASE NOTICE:
The consultant is responsible for the actual installation and mounting of the product. The mentioned values with respect to temperatures are not appropriate to be used to determine the physical properties. These properties are also dependent on humidity and the temperature of the air inside and outside of the H.V.A.C. system.

To select the appropriate **ALUDEC®**-product consult the table on the next page.

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	ALUDEC® AA3	ALUDEC® 245	ALUDEC® 112	CE-FLEX®
Mechanical properties				
Temperature range (°C)	-30 - +140	-30 - +140	-30 - +250	-30 - +250
Maximum operating pressure (Pa)	2500	2500	3000	2500
Maximum air velocity (m/s)	30	30	30	30
Diameter range (mm)	102 - 508	82 - 508	76 - 710	102 - 508
Fire class according to				
Europe (EN 13501-1)	B-s1, d0	B-s1, d0	A2-s1, d0	x
The Netherlands (NEN 6065/6066)	1	1	1	x
Germany (DIN 4102)	B2	B2	B1	x
France (CSTB)	M1	M1	M0	M0
Switzerland (BKZ)	x	x	6Q3	x
United Kingdom (BS 476)	6, 7 and 20	6, 7 and 20	6, 7 and 20	x
Austria (B3800)	B1	B1	B1	x
Italy (CSI)	1	1	1	x
Technical data				
Article code	DA3{Ø}	DA245{Ø}	DA112{Ø}	DACEM0{Ø}
Material structure	5 layer	5 layer	4 layer	4 layer
Wire spacing				
Up to ø 102 mm	-	25 mm	25 mm	-
ø 102 mm and larger	36 mm	18 mm	18 mm	36 mm
Minimum bending radius	0.54 x Ø	0.58 x Ø	0.58 x Ø	0.54 x Ø
Standard length (metres)	10	10	10	10
Standard colour	aluminum	aluminum	aluminum	aluminum

Determination of the acute toxicity
Stated by the "Institut für Arbeitsmedizin" of the medical faculty of the technical university of Aken. Under the supervision of prof. dr. med. H.J. Einbrodt (specialist) classified as “non toxic”.