

# Comparison

Product x

VS

DEC

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- On request we have examined the difference!
- We were in shock noticing the difference in quality!
- Why avoiding using flexible ducts from competition?

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# Product X thermally and acoustically insulated flexible duct

## Evaluation inner core:

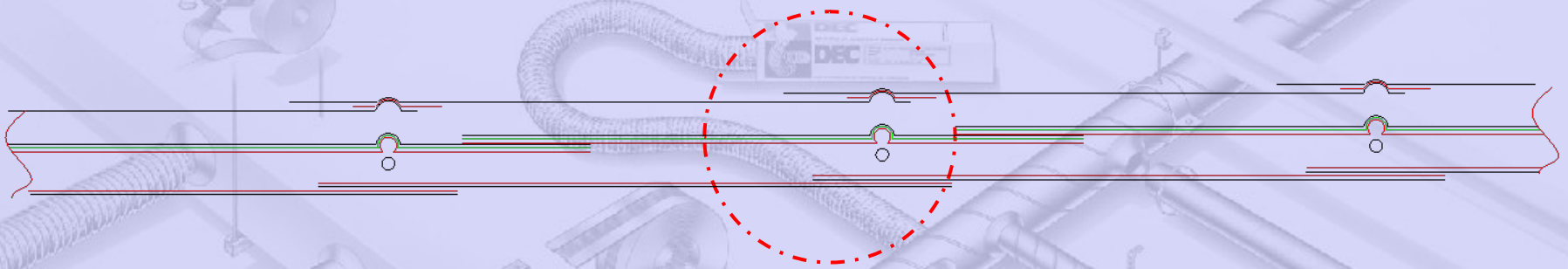
- Inner core outside and inside from polyester!
- No acoustical value!
- Inner core contains almost NO Aluminium!

# Product X thermally and acoustically insulated flexible duct

## Evaluation Outer jacket + insulation:

- To thin insulation, only 12 kg/m<sup>3</sup>!
- Insulation has no overlap. Cold Bridge!
- Outer jacket Highly Flammable and dripping!
  - Outer jacket contains NO Aluminium!

# Inner core + barrier construction X:



**Polyester Unprotected. Aluminium in between polyester layers. Contribution to fire**

**Barri r glued on inner core. Low acoustical properties**

## Inner Core

Burnable	vs	NON Burnable
70 %	-	30%

**No fire retardant in adhesive**



# Jacket construction X:

3 strings of yarn

Metalized polyester

Clear polyester

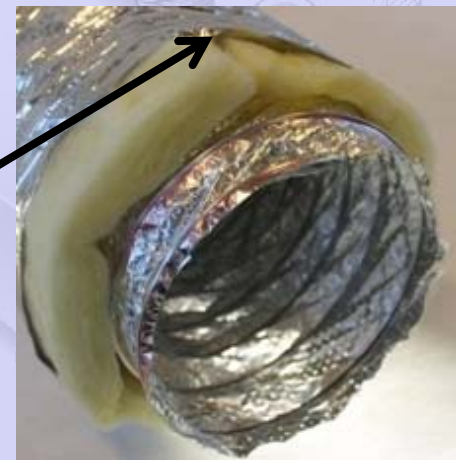
- No Aluminium used!
- No Fire retardant in adhesive!
- Highly burnable!

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# Product X thermally and acoustically insulated flexible duct

## Resumed :

- The presents of bare Polyester (unprotected by aluminium) will make the duct sensitive for:
  - Ignition of the duct in fire situations (contributing to fire situations)
  - Melting of the duct in fire situations (failure for smoke exhaust)
- Gluing the barrier on inner core effects dramatically the acoustical properties of the product.
- Moisture penetration due to quality barrier.
- Energy loss.
- 12 kg/m<sup>3</sup> fibre glass. Low R-Value.
- No overlap fibre glass. COLD BRIDGE!
- Poor quality jacket. No protection against fire.



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# Jacket comparison

DEC

VS

X





# Why using DEC flexible ducts?

- **EN ISO 9001:2000 (Quality management system)**
- **Manufacturing to EN13180 (European dimensions/mechanical regulations)**
- **Fire resistance certification from known Labs (Individual Countries, CE, MED, Etc.)**
- **Excellent acoustical quality (Tests according to ISO7235)**
- **Resumed: Only original testreports !!**

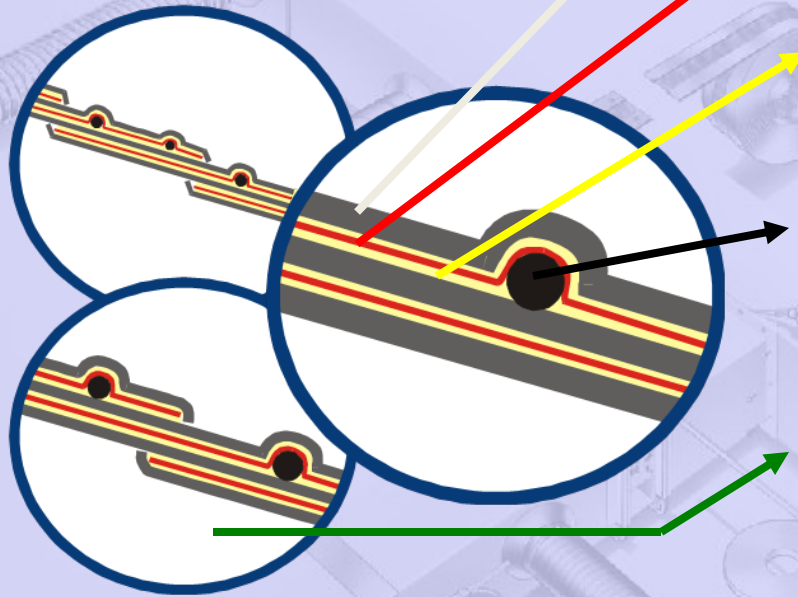
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# Why using DEC flexible ducts?

## DEC

Wall configuration:



- Multiple layers of Aluminium:  
Outside, inbetween and Inside !
  - Multiple layers of Polyester:  
Adding huge mechanical strenght !
  - Multiple layers of Adhesive:  
Heat resistant, flame retardant, not pressure sensitive !
  - High tensile copper plated Helix:  
"Bead-wire".
- Overlapping lengths of foil known as "Sandwich" construction:  
-(The polyester layer and the aluminium foil are shifted in respect to each other and overlapping each other fully)

The DEC flexible ducts fulfil all the requirements and are classified as specified within:

**EN 13180 : "Ventilation for buildings - Ductwork -  
Dimensions and mechanical requirements for flexible ducts"**

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# Why using DEC flexible ducts?

- **Because of the unique “Sandwich” construction!**
- **Because of the sustainable design!**
- **Because of multiple fully bonded layers !**
- **Because of non toxic adhesive!**
- **Because of extreme high temperature resistant adhesive !**
- **Because of proven excellent acoustical properties !**

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# Why avoiding flexible ducts from others?

- **Because of inferior construction !**
- **Because of inferior glue !**
- **Because of inferior acoustical properties !**
- **Because of inferior or missing Barrier !**
- **Doubtful test reports !**

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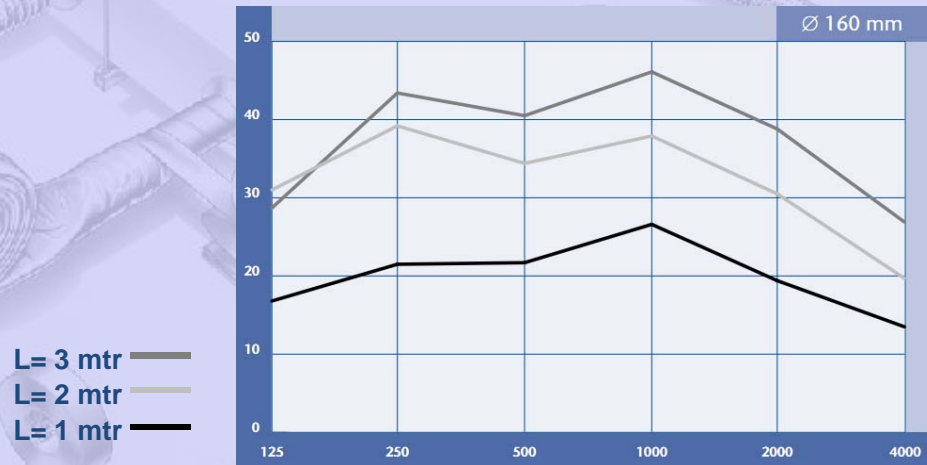
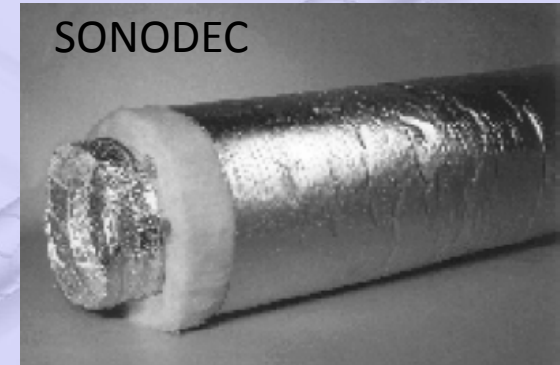
# Advantages of DEC ducting:

- **DEC ducting has been tested and classified to European Standards !!**
- **DEC ducting has been tested and classified in many individual countries !!**
- **DEC ducting creates longer smoke exhaustion in case of fire !!**
- **DEC ducting has no fire distribution because of the special wall configuration !!**

# INSULATED ACOUSTICAL DUCTING

**Better sound attenuation:**

- Official full test reports on name of DEC.
- Micro-perforation of the inner duct.
- Acoustical tests performed with closed barrier !!



**Closed Barrier:**

- For excellent acoustical performance !
- No migration of glass wool particles to the air stream !
- No moisture penetrating the glass wool resulting a constant lambda value !
- Prevents pressure drop !
- Prevents leakage !

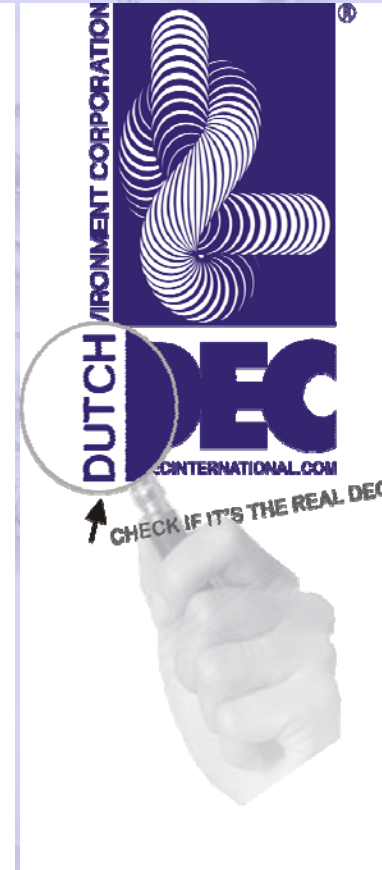
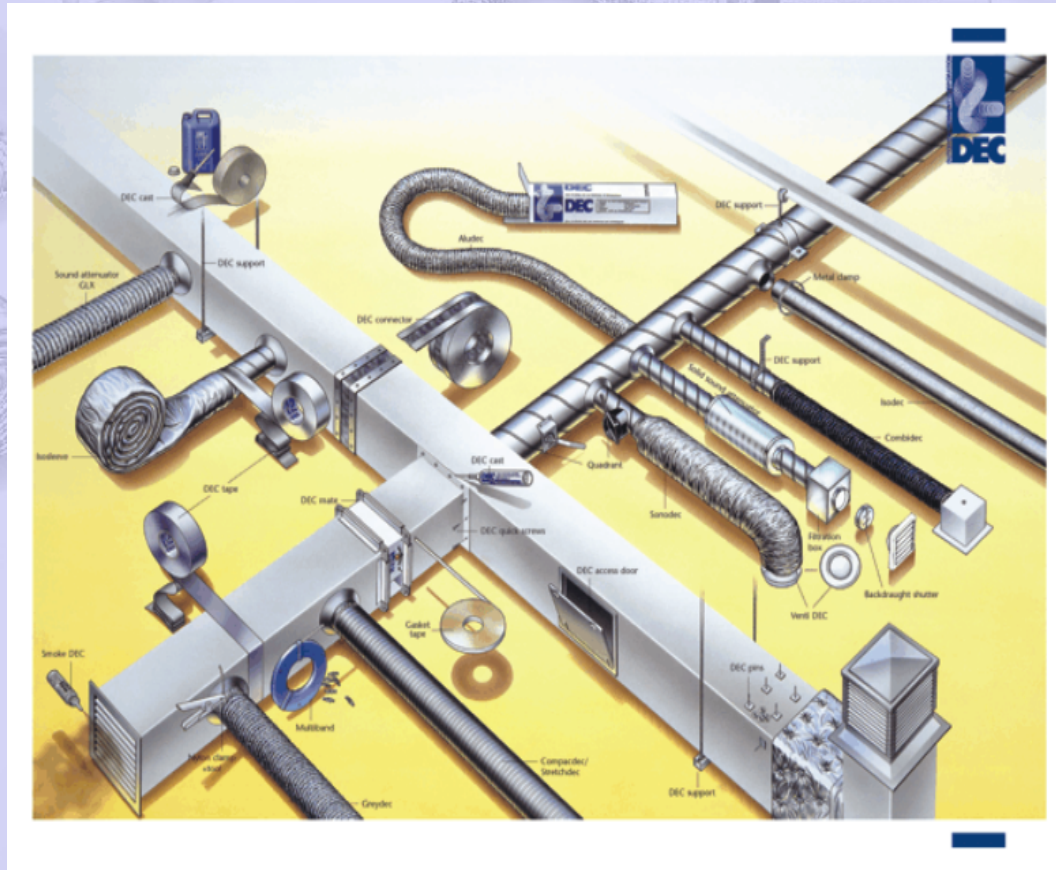
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# Advantages of DEC ducting:

- AUTHENTIC FIRE CERTIFICATES
- AUTHENTIC ACOUSTICAL TESTS
- AUTHENTIC PRESSURE-LOSS GRAFICS
- AUTHENTIC PRODUCTS MADE IN HOLLAND
- ISO9001 APPROVED (Certified since 1994)



# That's why to choose the DEC BRAND



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