



## MOUNTING INSTRUCTIONS

FIXING & SEALING

### GOLDEN RULE:

For all of the products of the tapes and sealants group the next golden rule is mainly in force:

### THE SURFACE HAS TO BE CLEAN, DRY AND FAT-FREE

Typ	Points of attention
ASB	max. adhesion after 24 hours (press firmly)
PSB	max. adhesion after 24 hours (press firmly)
ALU	low percentage of elongation
ALU-R	can be applied at temperatures below zero
PVC	adhesion relative weak
DUCT	adhesion relative weak
GT	high percentage of elongation
SDS	ventilate during processing
WDS	storage/processing frost resistant

### USERS GUIDE ASB/PSB

THE SURFACE HAS TO BE CLEAN, DRY AND FAT-FREE.

The application temperature must be higher than 5°C. Particularly when the tape is going to be attached at a lower temperature it should be pressed firmly. Apply on round (PSB/ASB) or square (ASB) ducts. A max stretch (PSB) of 3% is allowed and will help the tape to set itself on the duct. If the duct has a diameter >250mm, some clearance between the ducts can be expected due to tolerances; we advise to use only ASB width 75mm or wider. Use an overlap of 5cm or larger.

Do not use PSB for outdoor applications.

### DEC PRODUCTS

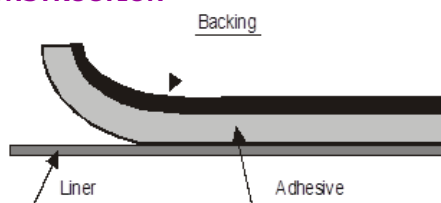
#### 1/Self Adhesive Tape

- PSB (polyethylene foil)
- ASB (aluminium foil)

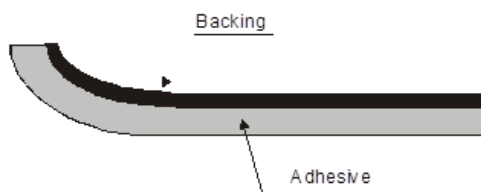
#### 2/Sealants

- WDS606 (waterbased mastic)
- SDS400 (solvent based mastic)

### CONSTRUCTION



ASB - PSB - ALU TAPE



DUCT TAPE - PVC - GT TAPE

### LIABILITY:

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### 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.

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## SOME CATEGORIES/NAMES

### Aluminium tapes

Cloth tapes  
PVC tapes  
Polyethylene tapes  
Foam tapes

} backing

### Bitumen tapes

Butyl tapes  
Acrylic tapes  
Silicone tapes

} adhesive

### Packaging tapes

Splicing tapes  
Electrical tapes  
First aid & hospital tapes  
Corrosion tapes  
Duct sealing tape

} application

PSB = Polyethylene tape (backing)  
= Duct sealing tape (application/function)  
= Cold shrinking tape (property)  
= (Butyl rubber tape) (adhesive)

ASB = Aluminium tape (backing)  
= Duct sealing tape (application)  
= Cold shrinking tape (property)  
= (Butyl rubber tape) (adhesive)

## SPECIFICATION

PSB = cold shrinking tape specially made for duct sealing

Backing : light grey polyethylene  
Adhesive: hotmelt (PSA)  
Liner : silicone treated paper

ASB = tape specially made for duct sealing

Backing : aluminium foil  
Adhesive: hotmelt (PSA)  
Liner : silicone treated paper

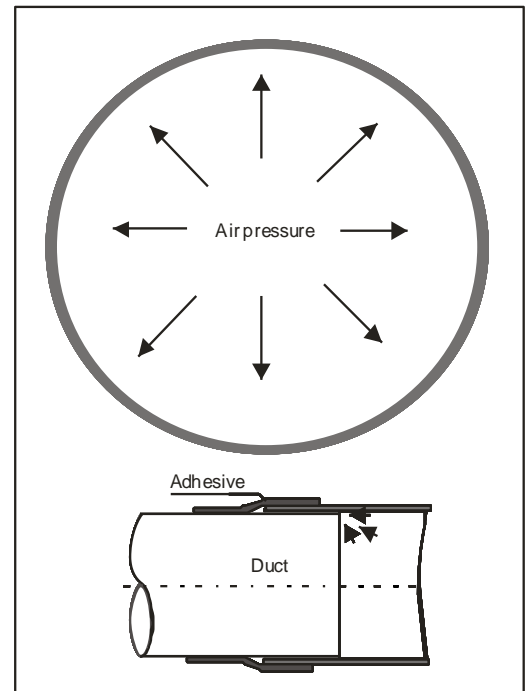
## EXPRESSIONS

Adhesion: the strength which connect 2 materials together (tape and substrate)

Cohesion: the mutual connection force between parts (molecules) in an adhesive.

Tack : the quick binding capability; It is the property which enables an adhesive to form a bond with a surface of another material upon brief contact under light pressure

Cold flow : material (adhesive) is seeking its lowest level with respect to gravity

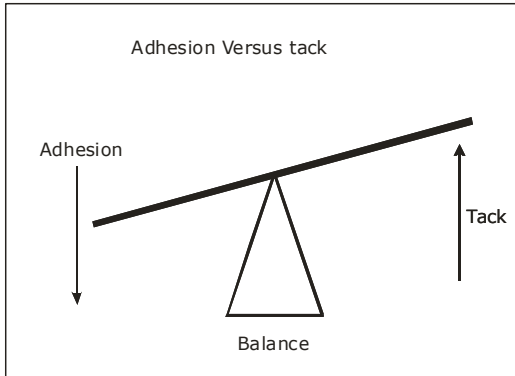




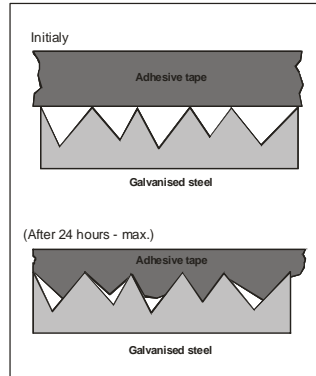
# MOUNTING INSTRUCTIONS

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## ADHESION VERSUS TACK



## ADHESIVE TAPE TO BE APPLIED ON GALVANISED MATERIAL



## ADVANTAGES AND DISADVANTAGES

PSB		ASB	
ADVANTAGES	DISADVANTAGES	ADVANTAGES	DISADVANTAGES
100 % airtight flexible by stretching more tape absorbs oil saves labour costs DIN 4102 B2	material price not suitable for wet surfaces	100 % air tight absorbs oil high tack/ high adhesion saves labour costs DIN 4102 B2	material price not suitable for wet surfaces cannot be stretched

**The tapes are non toxic and contains no solvents!!**

## ADVANTAGES AND DISADVANTAGES WDS606/SDS400

### WATERBASED SEALANTS (WDS606)

ADVANTAGES	DISADVANTAGES
not harmful not flammable environmentally friendly can be applied by brush adheres on surfaces with some moisture long shelf life easy cleaning 100 % use	drying time depends on humidity limited for outdoor application

### SOLVENT BASED SEALANTS (SDS400)

ADVANTAGES	DISADVANTAGES
short drying time (fast skinning) application does not depend on weather adheres on slightly oily surfaces not flammable (dry)	harmful inflammable (wet) not environmentally friendly can only be used in well ventilated places limited shelf life

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