

Aeroslides / Aeration Membrane

Manufacturing

Aeroslides are manufactured from mild steel chamber sections, with a fabric air distribution membrane sandwiched between the upper (dust) and lower (air plenum) chambers. This membrane is supported by a wire mesh attached to the plenum chamber below the fabric. The upper and lower chambers are bolted together and caulked to give an airtight seal between the parts.

The aeroslides are manufactured in sections with differing cross sectional dimensions. The dimensions are chosen to optimise the material / dust flow rates within the unit, to have an even pressure differential over the whole membrane area and to minimise wear. Each lower section is fitted with an air inlet spigot that is flanged to accept a butterfly type throttle valve. Quick release inspection hand holes and observation windows are installed at specific points for monitoring of the dust flow and the aeroslide's internal condition.

Advantages of Woven Fabric

- Woven Fabric - No fiber loss
- 10% High Tenacity Polyester - giving an optimum abrasion resistance resulting in an unequaled operating life
- Provides low and regular air-permeability all over the surface - Low and even airflow resulting in less contamination of the airfilters
- Microscopic pore openings - No contamination of the inside of the fabric
- Fabric is 100% stable in size
- Fabric is fray resistant - It is woven out of continuous filaments and

Data Sheet of Membrane readily available

Type	Composition	Rupture strength		Heat resistance °C	Approx. thickness mm	Approx. Weight per m ²	Permeability under 300 mm WG in m ³ /m ² /h
		Warp dAN/cm	Weft dAN/cm				
APP 800	100% Polyester	400	150	150	4,5	3.400 g	150
Aeromex I	100% Nomex	150	50	220	3,2	2.050 g	150

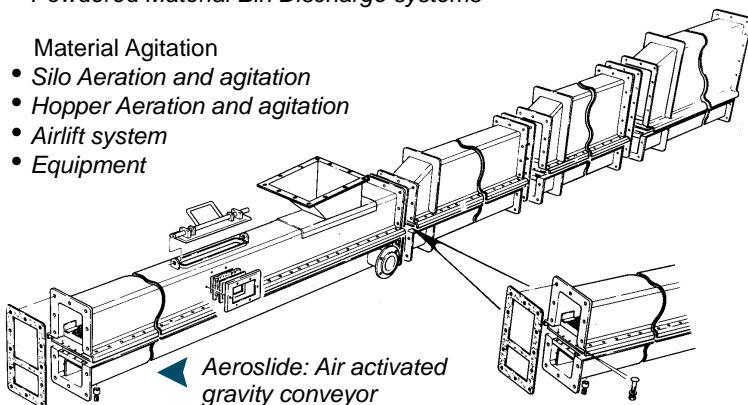
Typical Applications

Gravity feed with aeration

- ESP / Dust Handling Plant discharge system
- Silo Filling / Distribution / Discharge system
- Powdered Material Bin Discharge systems

Material Agitation

- Silo Aeration and agitation
- Hopper Aeration and agitation
- Airlift system
- Equipment



Weaving loom



Silo Filling Aeroslide System - Distribution Pot



Silo Discharge System



Dust Handling Plant Aeroslide System



Typical Silo Aeration Pad Installation

