

# Tubing System

## Steel Tubing

Our standard tubing system is of zinc coated carbon steel tubing and is used on 90 % of all Dustcontrol installations. Heavy wall thickness results in long life even in installations where considerable abrasion is present. To relieve weight and ease installation of the 159 mm diameter tube, 1 mm wall thickness stainless steel is used.

## Stainless Steel Tubing

Stainless tubing is used with abrasive materials or because of hygienic considerations. When installed in pneumatic material transportation, long radius bends should be used.

## Reinforced Spiral Tubing

Spiral tubing is used most commonly for the connection of the central unit components, vacuum producer, filter unit and pre-separator. Spiral is not generally suitable for application with coarse and abrasive material but is commonly used in extraction systems for vapour, fume and light dust.

## Abrasion Resistant Bends

In systems used for transporting extremely aggressive material, special precautions are required. Abrasion resistant bends are available and are cast material with a wall thickness of 8 mm. These have exceptional wear characteristics. Some examples of materials which require special consideration are as follows:

- fly ash
- cast metal dust and chips
- slag
- sand and gravel
- blasting media

As an alternative and complement to abrasion resistant bends, tubing can be delivered with an internal ceramic coating. Coatings of bends and branch tubes can be special ordered. Ceramic coated bends are most suitable for fine dust and light material.

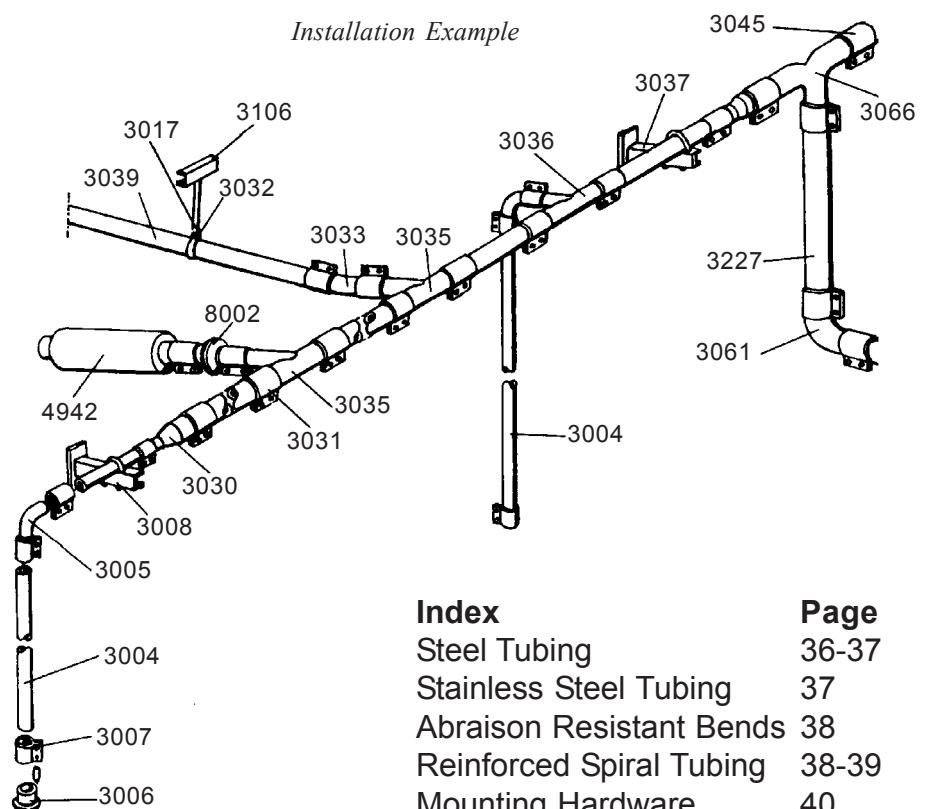
## Mounting Hardware

Dustcontrol has a complete range of mounting hardware facilitating straightforward installation as well as changes.

Transport of	Air Flow	Tube Dimension	
dust, coarse and heavy material 20-40 m/s	(100-260 m <sup>3</sup> /h	φ50) *)	
	300-600 m <sup>3</sup> /h	φ76	
	600-1200 m <sup>3</sup> /h	φ108	
	1200-2600 m <sup>3</sup> /h	φ159	
fume, vapour and clean air 12-20 m/s	180-320 m <sup>3</sup> /h	φ76	Steel Tubing
	320-550 m <sup>3</sup> /h	φ100	Reinforced Spiral Tubing
	370-620 m <sup>3</sup> /h	φ108	Steel Tubing
	510-850 m <sup>3</sup> /h	φ125	Reinforced Spiral Tubing
	840-1400 m <sup>3</sup> /h	φ159/φ160	Steel Tubing/ Reinforced Spiral Tubing
	1300-2200 m <sup>3</sup> /h	φ200	Reinforced Spiral Tubing
	2100-3500 m <sup>3</sup> /h	φ250	Reinforced Spiral Tubing

\*) on most systems, 76 mm should be selected as the smallest tube diameter. Only systems where a small air-flow is desired or installation is more easily facilitated should 50 mm be used.

Installation Example



Index	Page
Steel Tubing	36-37
Stainless Steel Tubing	37
Abrasion Resistant Bends	38
Reinforced Spiral Tubing	38-39
Mounting Hardware	40