

# ECONOMIC COMPARISON OF AIR DISTRIBUTION SYSTEMS:

A) METAL DUCTS WITH STANDARD DIFFUSERS

B) TEXTILE AIR DISTRIBUTION SYSTEM

## COSTS (EURO)

	A		B
	nozzles	spiro	
MATERIAL	10 087	3 157	3 620
TRANSPORT	42		13
INSTALLATION	3 109		1 005
SETTING OF AIRFLOW	200		0
<b>TOTAL</b>	<b>16 595</b>		<b>4 633</b>
CLEANING (1x)	2 000		400

### LOCATION:

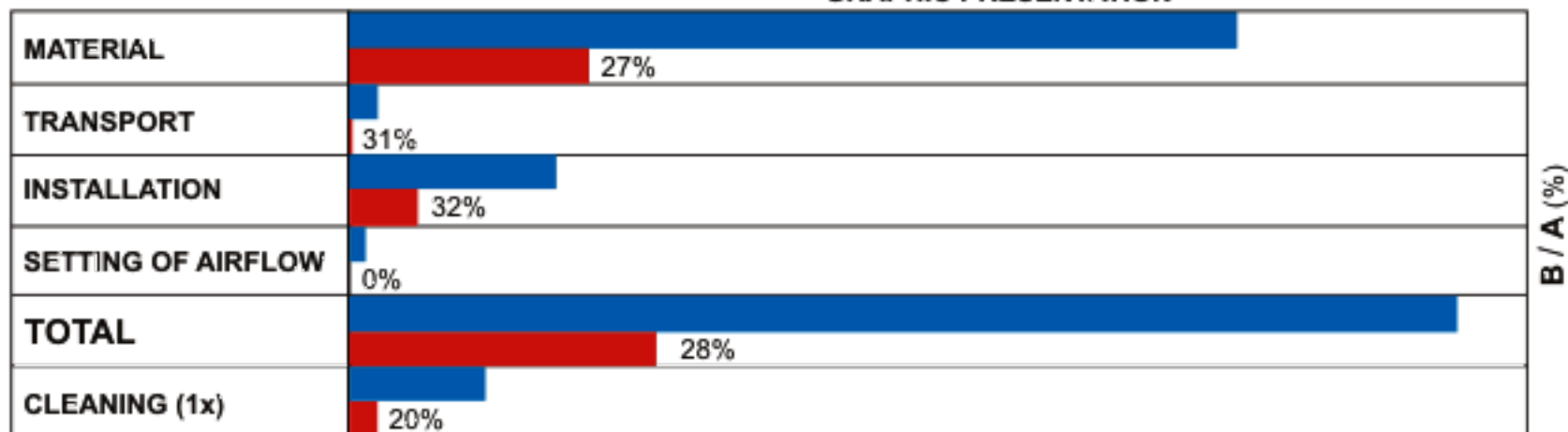
production hall height 6 m  
installation at a height of 4 m

### ASSEMBLY:

**textile system:** double suspension on a wire  
straight diffusers  
without shaped pieces  
total length 119 m

**metal system:** total length 119 m  
straight ducts  
without shaped pieces  
distribution elements:  
circular nozzles

## GRAPHIC PRESENTATION



 A  B

The given data correspond to an actual order realized in Czechia in December 2004. Metal ducts with circular nozzles designed initially were replaced by textile diffusers. There is a row of holes, diameter 12 mms, spacing 20 mms, perforated in the textile to achieve comparable air flow reach. The medium velocity determined by excess pressure 150 Pa and isothermal convection is 0.5 m/s at a distance of 6 metres.