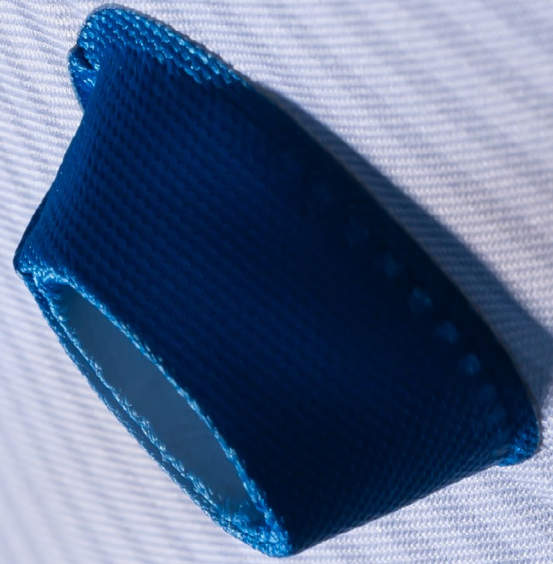


# Textile Air Dispersion Systems

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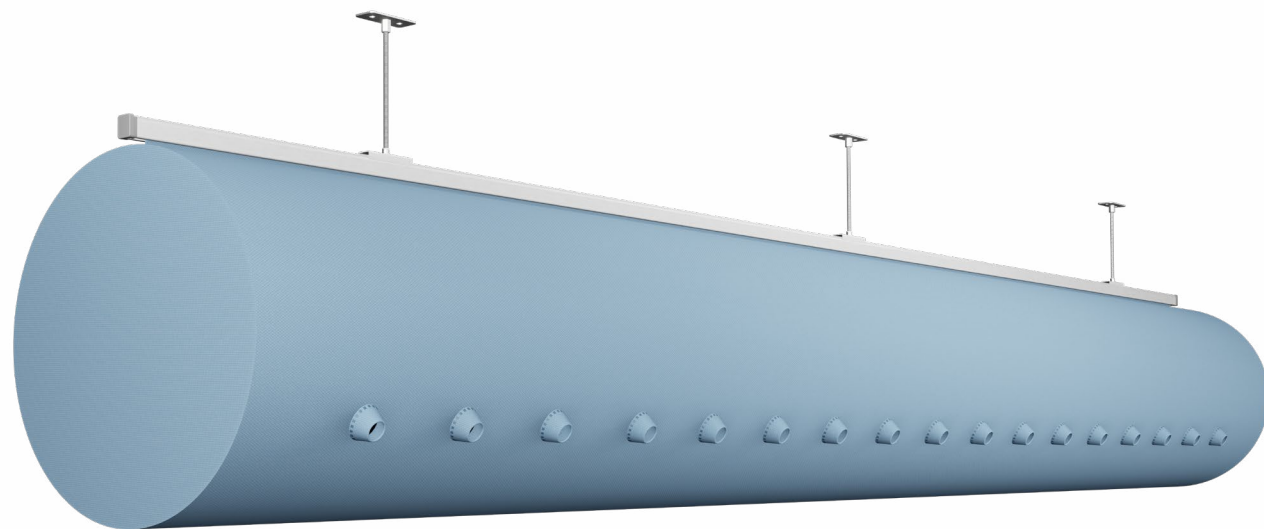
Section 23 37 16



Tailored Air Distribution

## Textile Diffuser System Properties

Prihoda fabrics are not off the shelf, they have been specifically engineered to be the best combination of light weight yet durable to endure 30 years or more of service and provide the following properties:



Diameter Range	4" – 118"
System Weight	2oz (min) - 2.5 lbs. (max) per linear ft
Fabric Weight	6.5 oz/yd <sup>2</sup> - 9 oz/yd <sup>2</sup>
Standard Warranty	10-year
Extended Warranty	20-year with tensioning system
Fire Rating	(Meets NFPA90a, UL 2518, ULC) -75°F to +230°F
Duct Length	16' zippered sections (300'+ total system)
Permeability	~1-2 cfm (condensation prevention method)

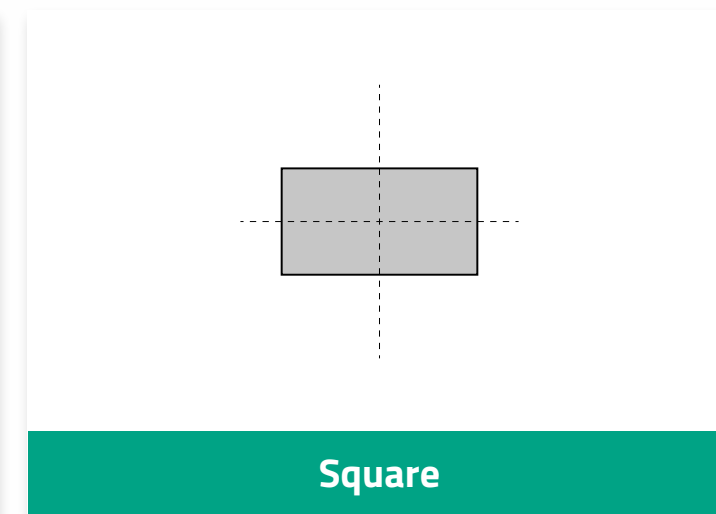
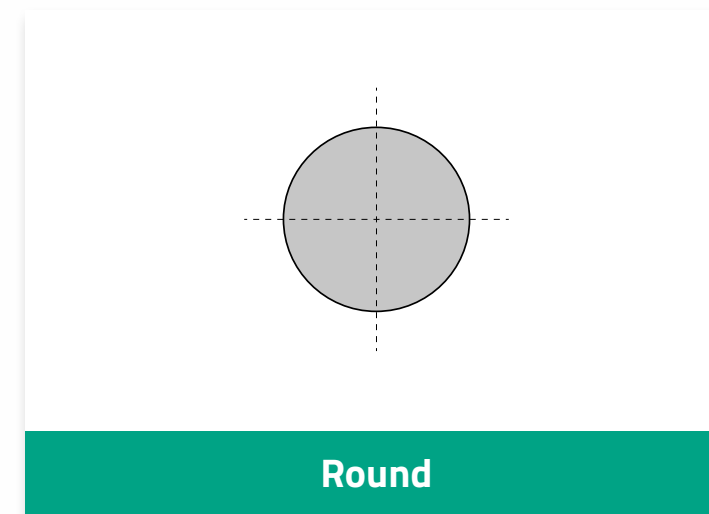
### Available Options

- / Built-in Antimicrobial (ISO 20645)
- / 100% Post-consumer recycled content with EPD and HPD
- / Anti-static material and grounding options for sensitive applications

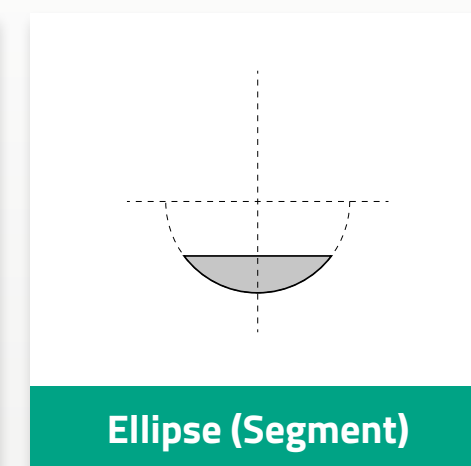
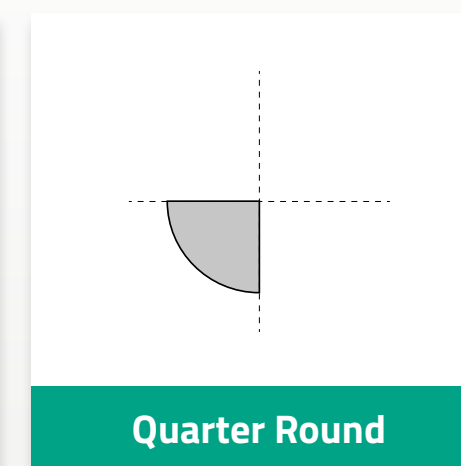
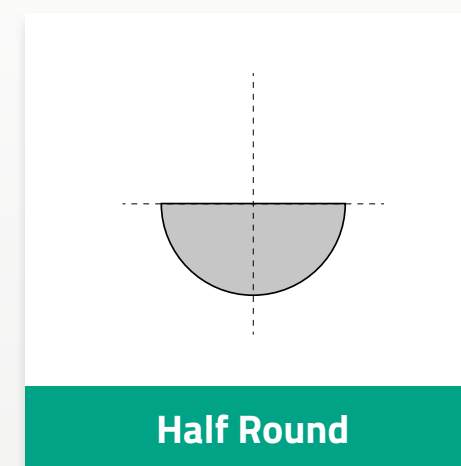
Shapes

## Positive or negative pressure

(with full tensioning)



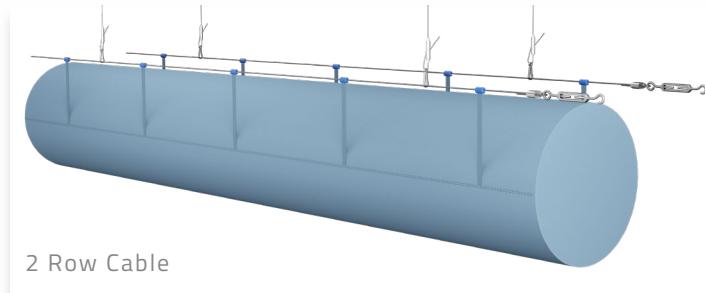
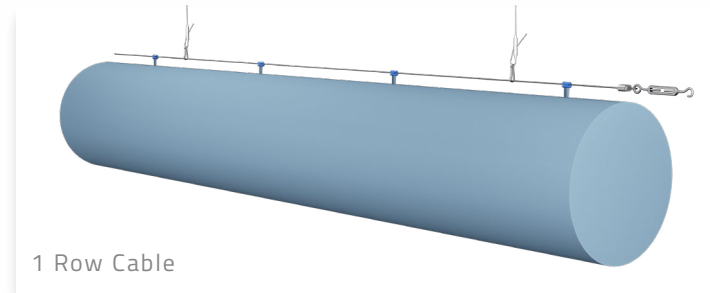
## Positive pressure only



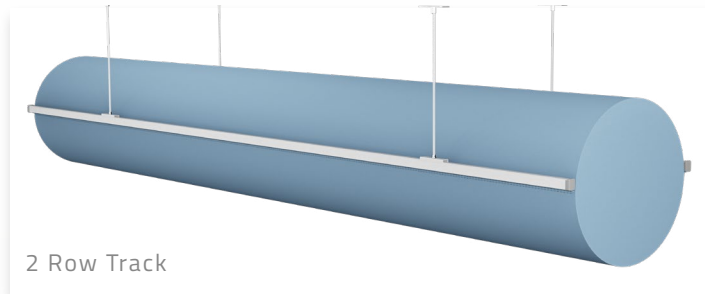
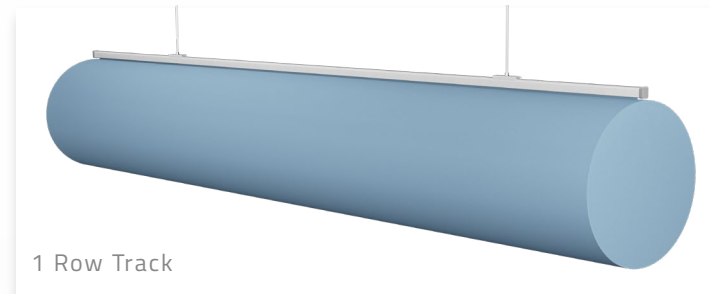
Installation

# Suspension and Tensioning

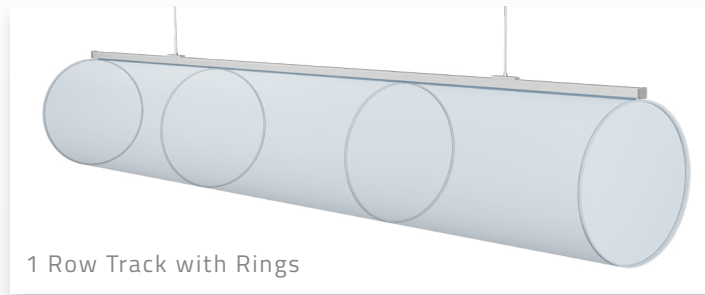
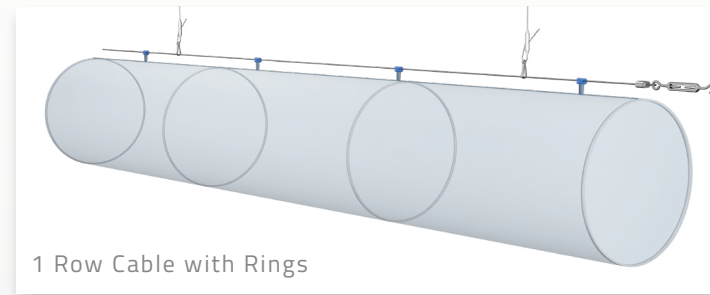
## Cable suspension



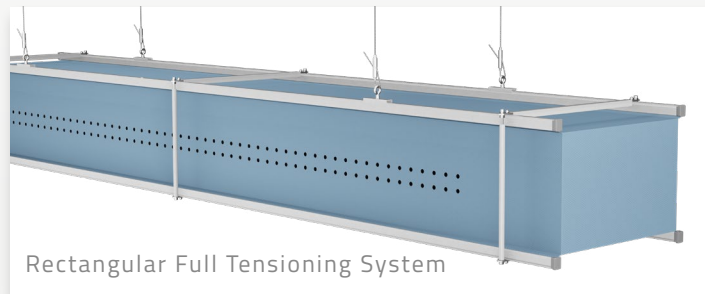
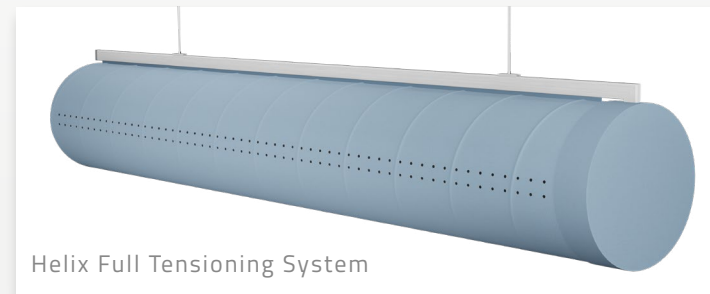
## Anodized aluminium track suspension



## Internal rings

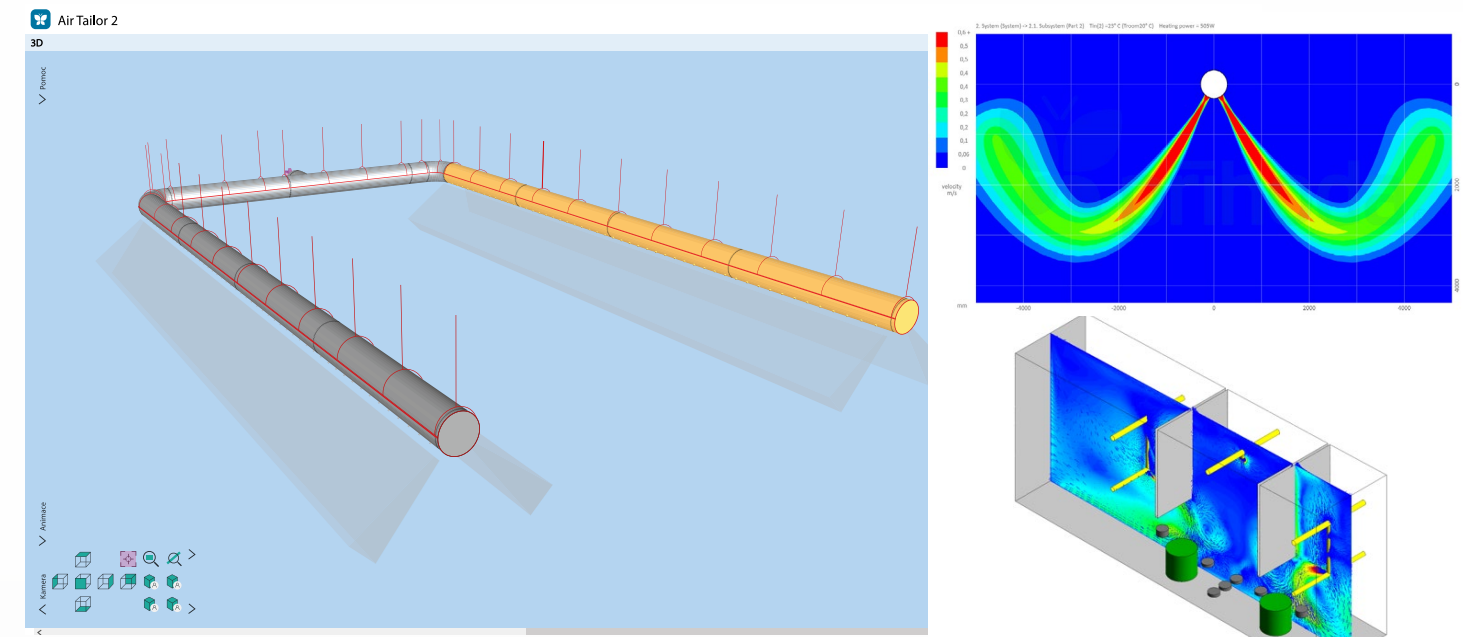


## Full tensioning systems











Custom Design Software

# Precision engineering with Prihoda's Proprietary Air Tailor design software



## Output from Air Tailor

 <p><b>DRAWING</b> 2D and 3D technical drawings showing the necessary details</p>	 <p><b>INSTALLATION TYPE</b> Including a full listing of installation material</p>
 <p><b>DISTRIBUTION</b> Specification of distribution elements</p>	 <p><b>PRESSURE</b> Pressure ratios in the system</p>
 <p><b>GRAPHICAL FLOW PROFILE</b> Direction, distance, velocity of distributed air</p>	 <p><b>SOUND</b> Sound generation analysis</p>
 <p><b>MATERIAL</b> Detailed specification of fabric</p>	 <p><b>DESIGN</b> Colour, pattern, customer logo</p>

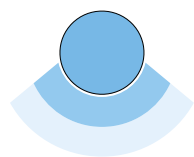


Function of Fabric Ducting

# Dispersion types

### Microperforation

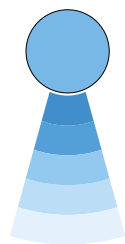
Patented Microperforations are good for introducing large volumes of air at low, laminar velocities. Microperforations can be placed anywhere around the circumference and used in combination with any other dispersion method for total customization.



**0 - 10 FT**  
Flow range

### Small Nozzles

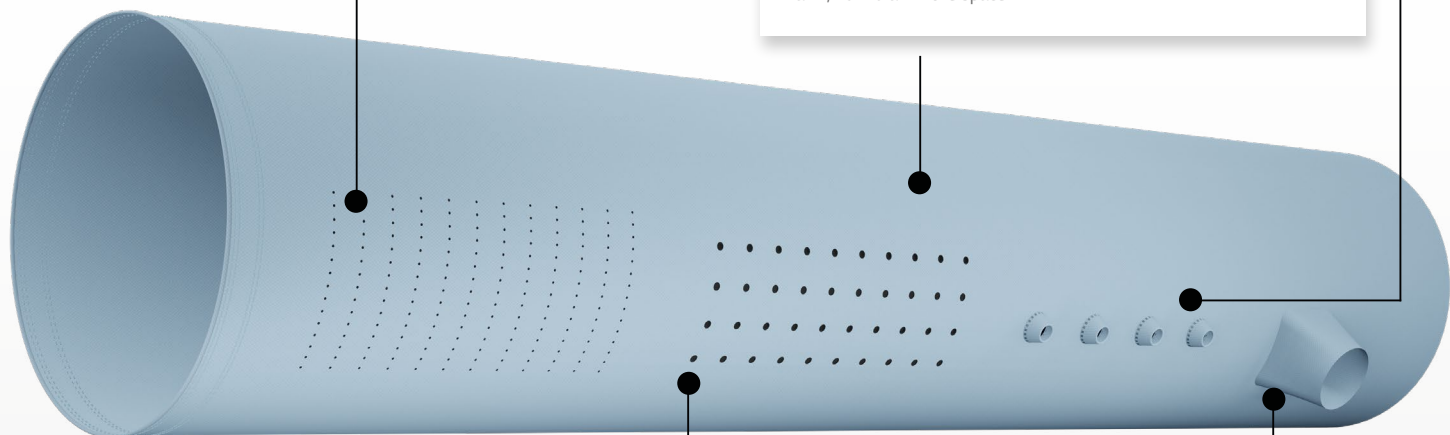
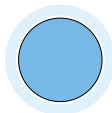
The small nozzles exist in four diameters 3/4", 1", 1.5" and 2.5" and provide about 25% longer airflow reaches than perforation.



**12 - 45 FT**  
Flow range

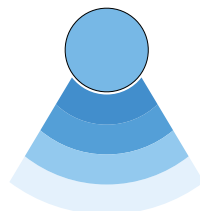
### Permeable Fabric

As little as .8 cfm @.50 in wg per square yd prevents condensation when cooling below dew point when there is a risk of warm, humid air in the space.



### Perforation

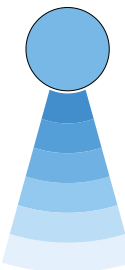
Laser cut orifices can be arranged in any diameter, location, and row pattern to meet throw requirements from 10 to 35 feet (depending on flow and pressure available).



**10 - 40 FT**  
Flow range

### Large Nozzles

Starting at 3" minimum outlet diameter for very long throw applications. Flow dampers and field adjustable flow direction options are available.



**30 - 100 FT**  
Flow range

Ducting as a design element

# Custom aesthetics - Prihoda ART

Prihoda was the first to introduce custom, in-house dye sublimation to the fabric industry which further expands design freedom.



### / special colors

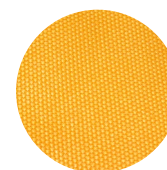
### / logos & patterns

### / photos

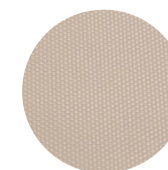
### Standard colors



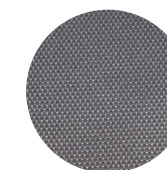
**White**  
RAL 9016



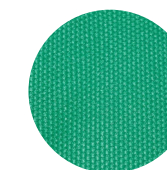
**Yellow**  
Pantone 135  
RAL 1017



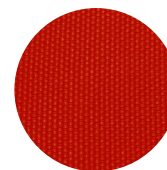
**Light Gray**  
Pantone 420  
RAL 7035



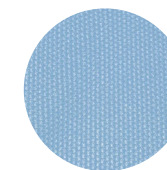
**Dark Gray**  
Pantone 424  
RAL 7037



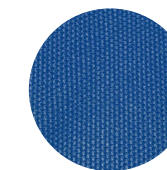
**Green**  
Pantone 341  
RAL 6024



**Red**  
Pantone 187  
RAL 3001



**Light Blue**  
Pantone 187  
RAL 5012



**Dark Blue**  
Pantone 7462  
RAL 5005



**Black**  
Pantone 419  
RAL 9017






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**NORTH AMERICA**

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Tailored Air Distribution

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