



Section 23 37 16 Textile Air Dispersion Systems

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:

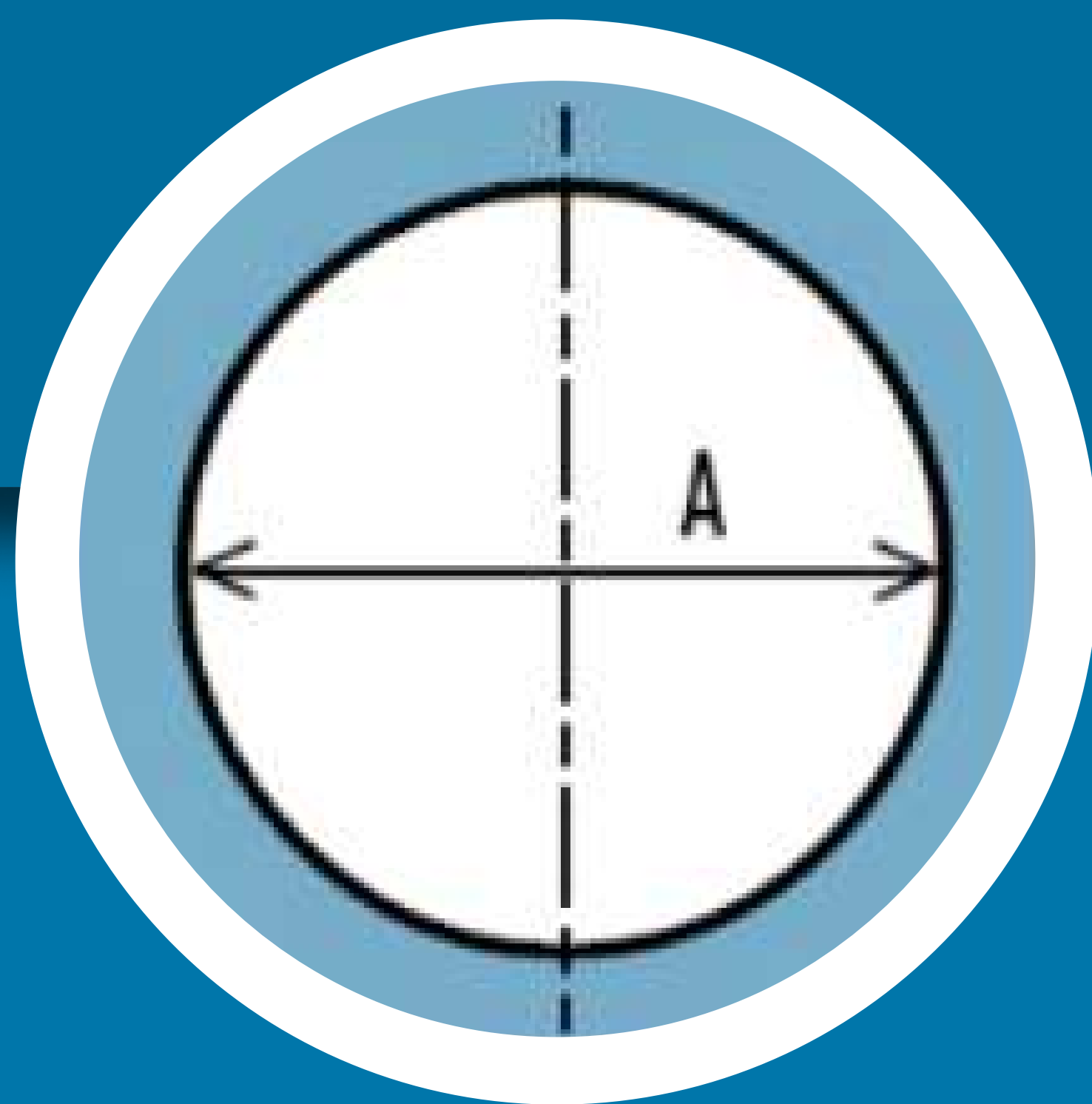
Diameter Range	4" – 118"
System Weight	2oz (min) – 2.5 lbs. (max) per linear ft
Fabric Weight	6.5 oz/yd ² – 9 oz/yd ²
Standard Warranty	10-year
Extended Warranty	20-year with tensioning system
Fire Rating	(Meets NFPA90a, UL 2518, ULC) -75°F to +230°F
Duct Length	16' zippered sections (300'+ total system)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

Available Options:

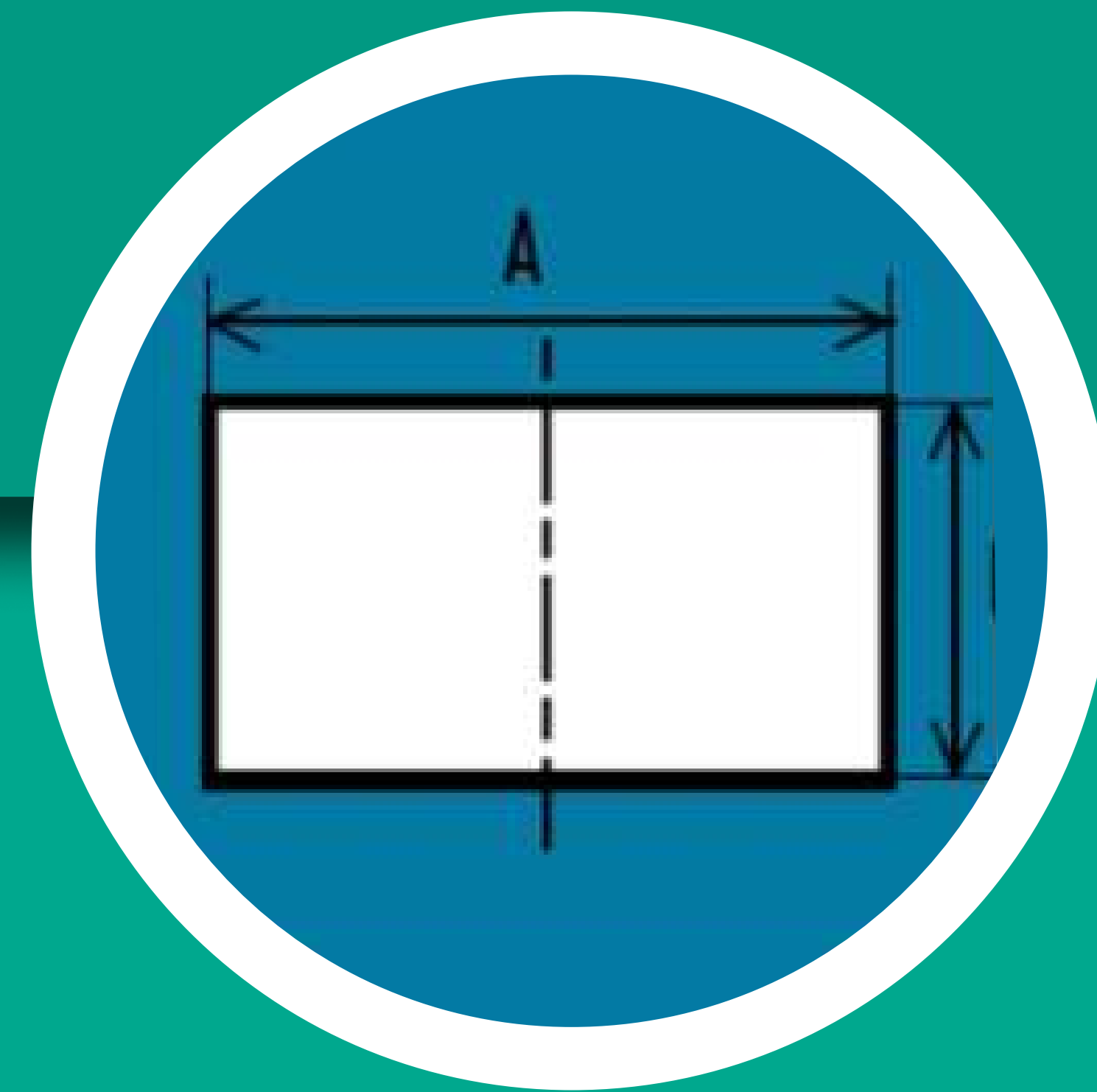
- ➔ Built-in Antimicrobial (ISO 20645)
- ➔ 100% Post-consumer recycled content with EPD and HPD
- ➔ Anti-static material and grounding options for sensitive applications

POSITIVE OR NEGATIVE PRESSURE
(With full tensioning)

Round

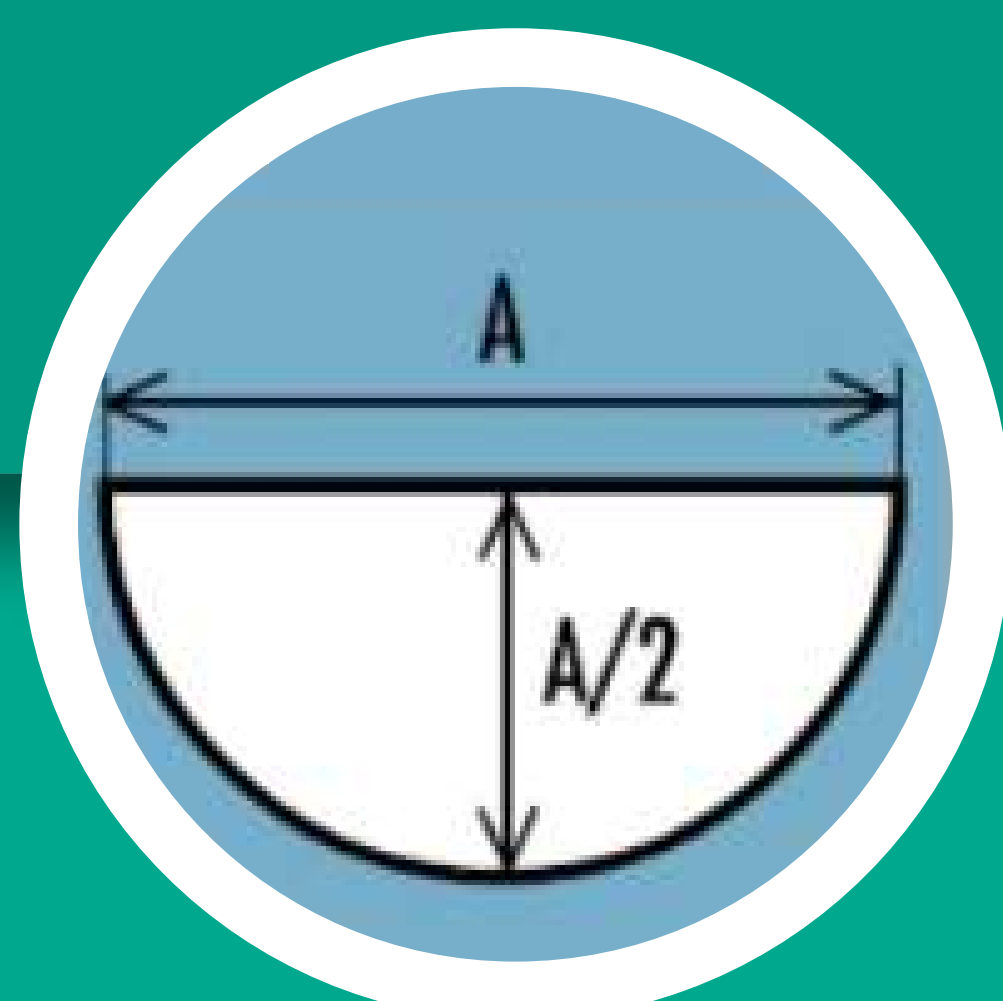


Square

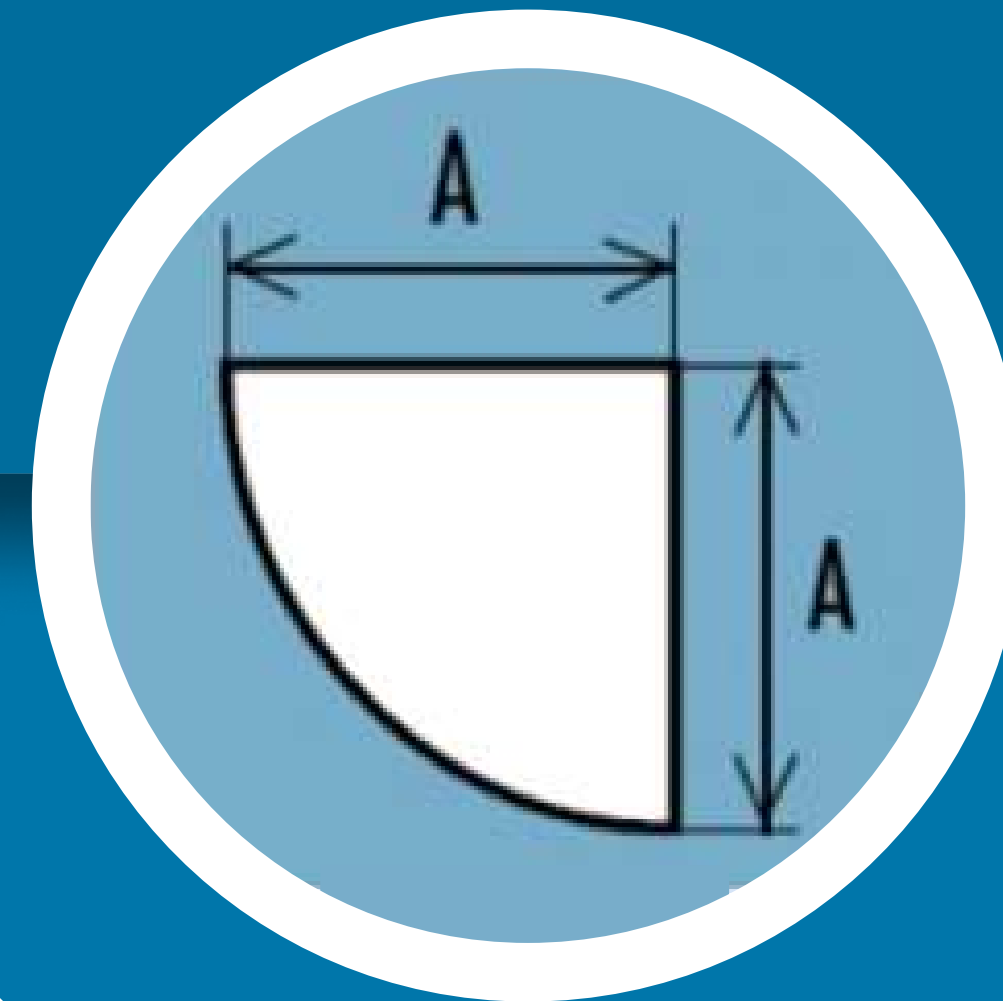


POSITIVE PRESSURE ONLY

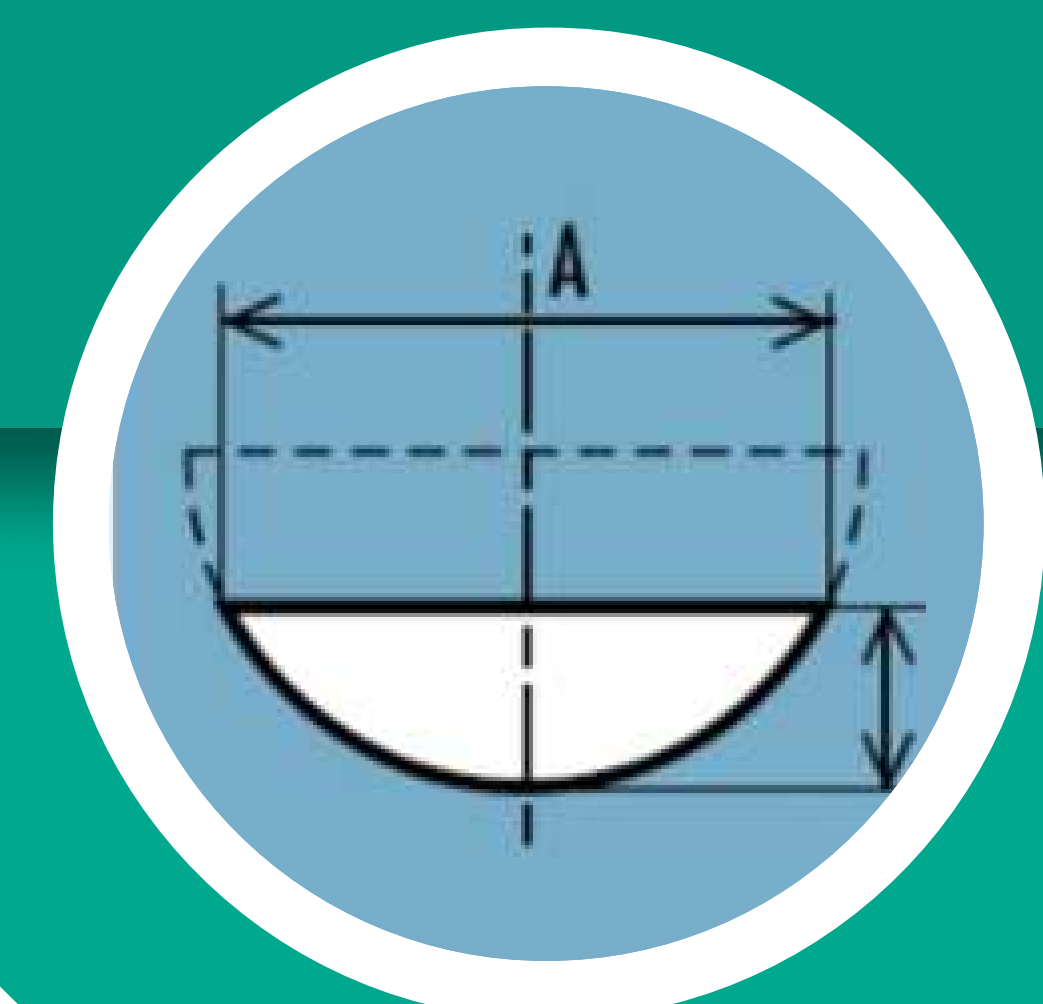
Half Round



Quarter Round

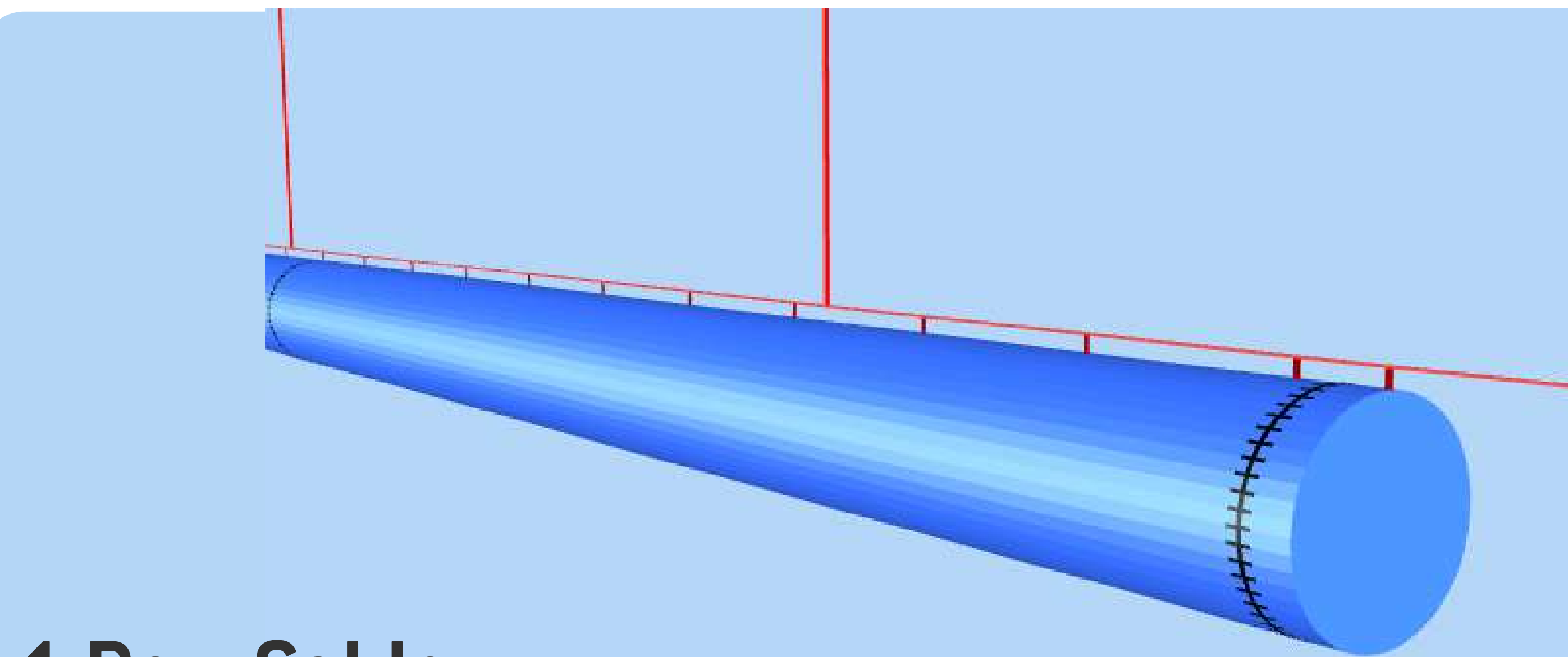


Ellipse (Segment)

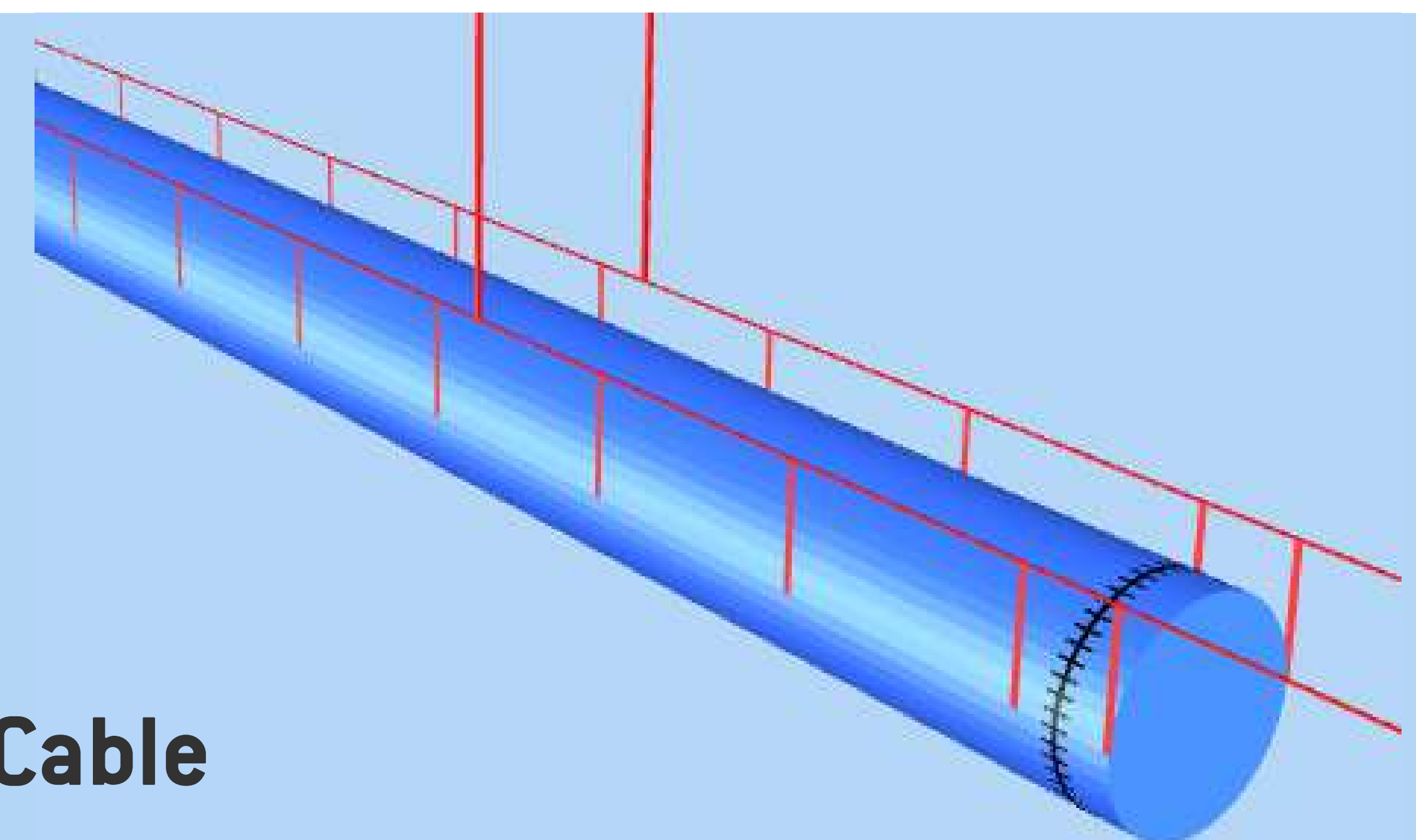


SUSPENSION AND TENSIONING

CABLE SUSPENSION

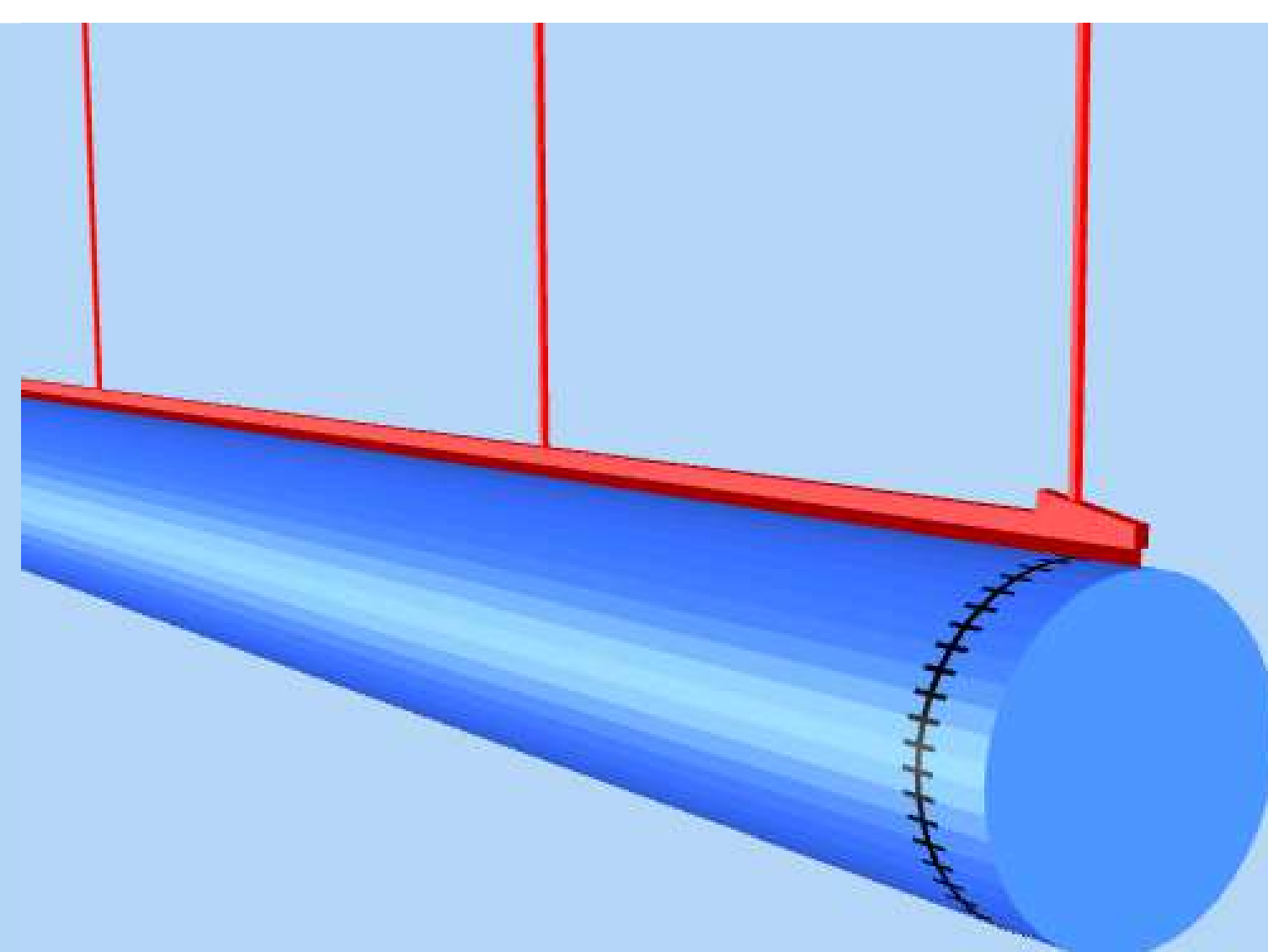


1 Row Cable

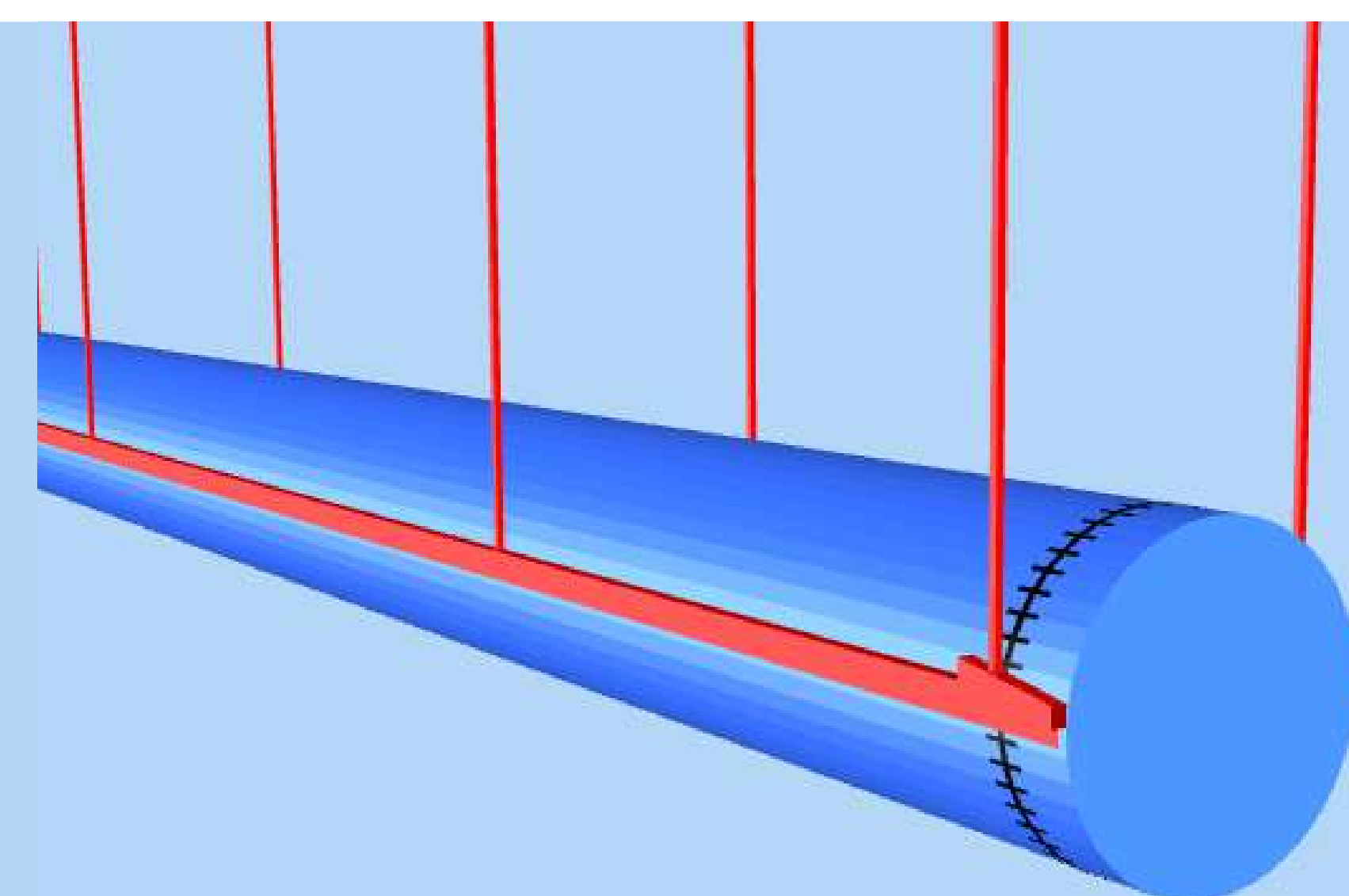


2 Row Cable

ANODIZED ALUMINUM TRACK SUSPENSION

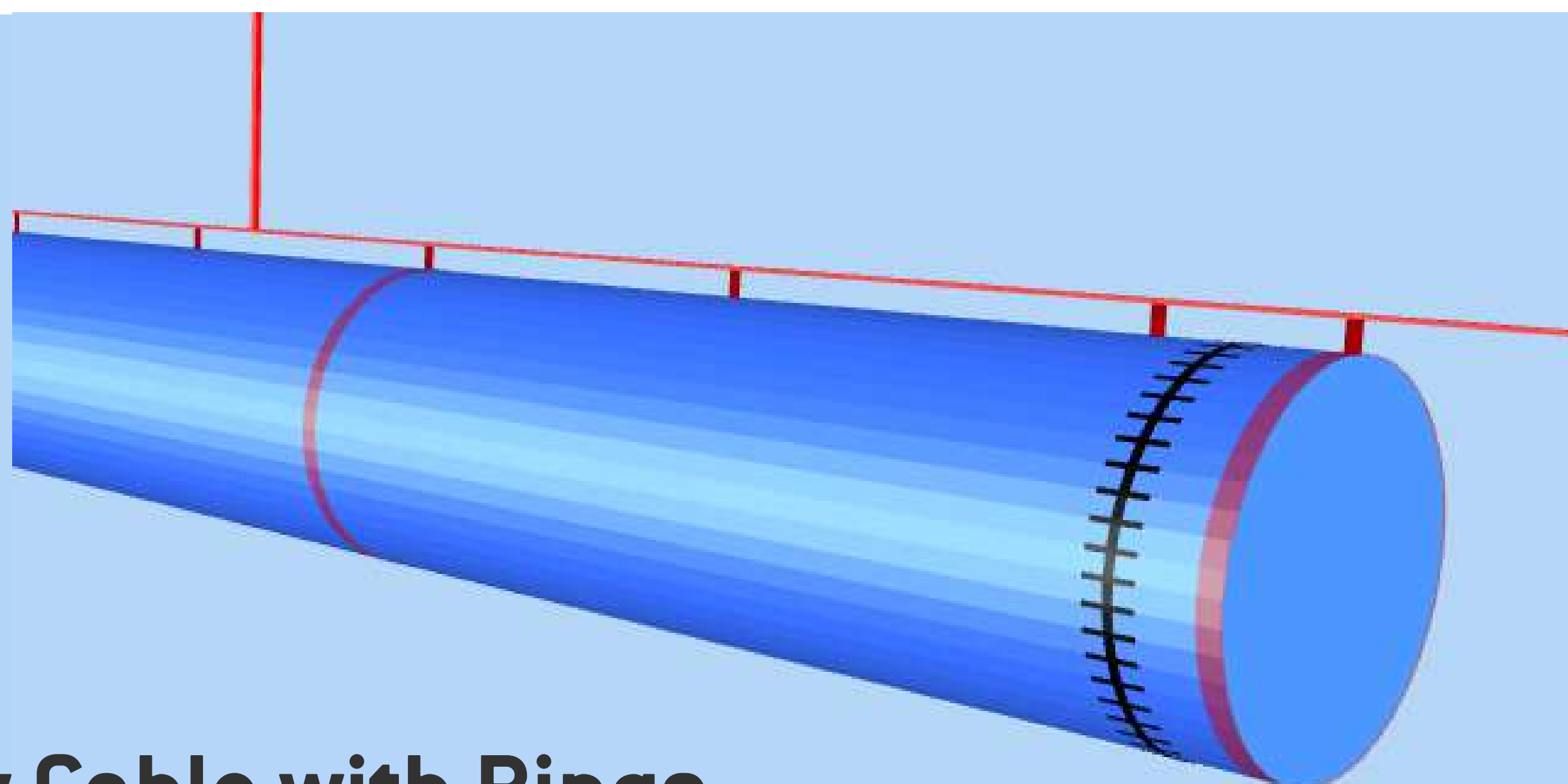


1 Row Track

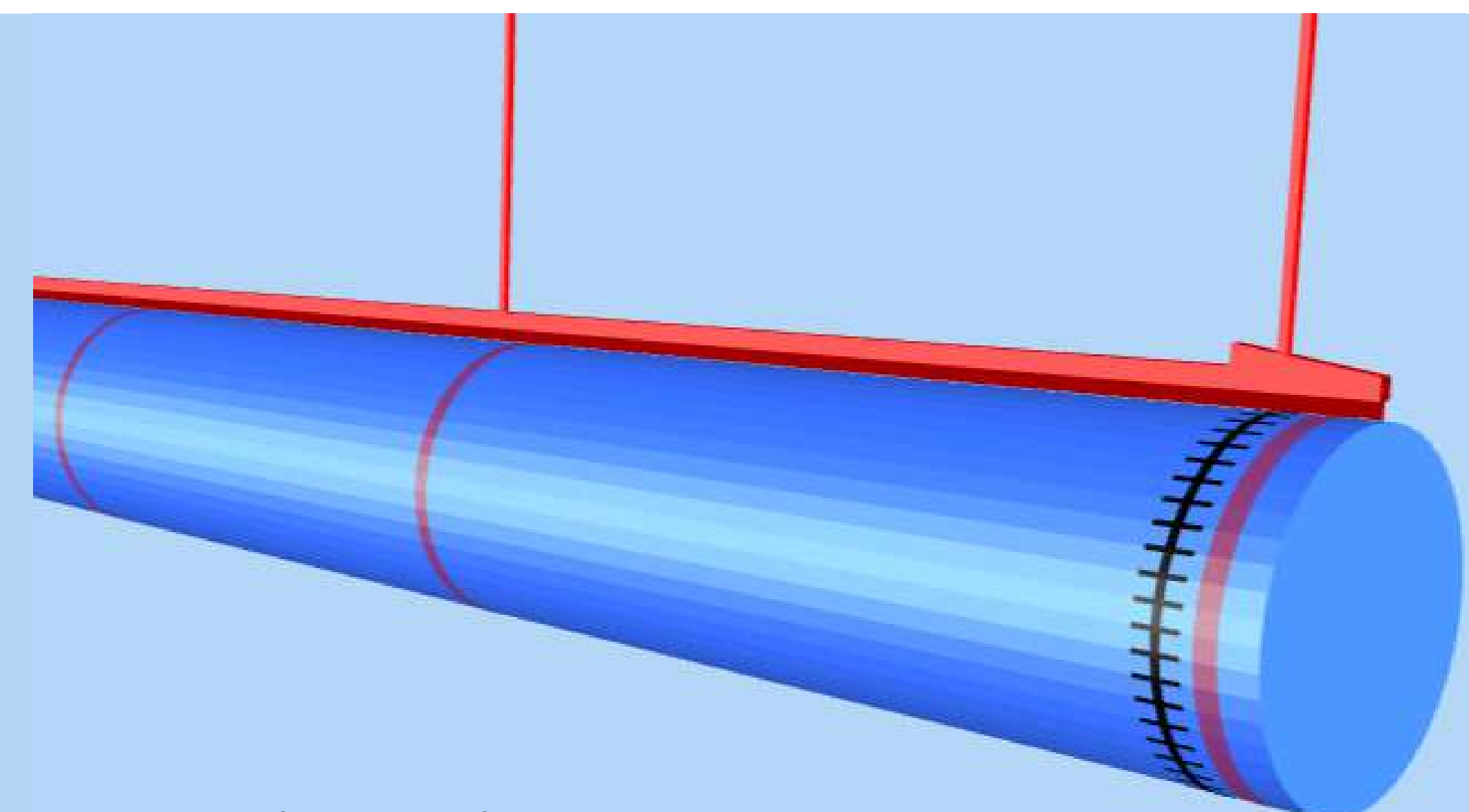


2 Row Track

INTERNAL RINGS

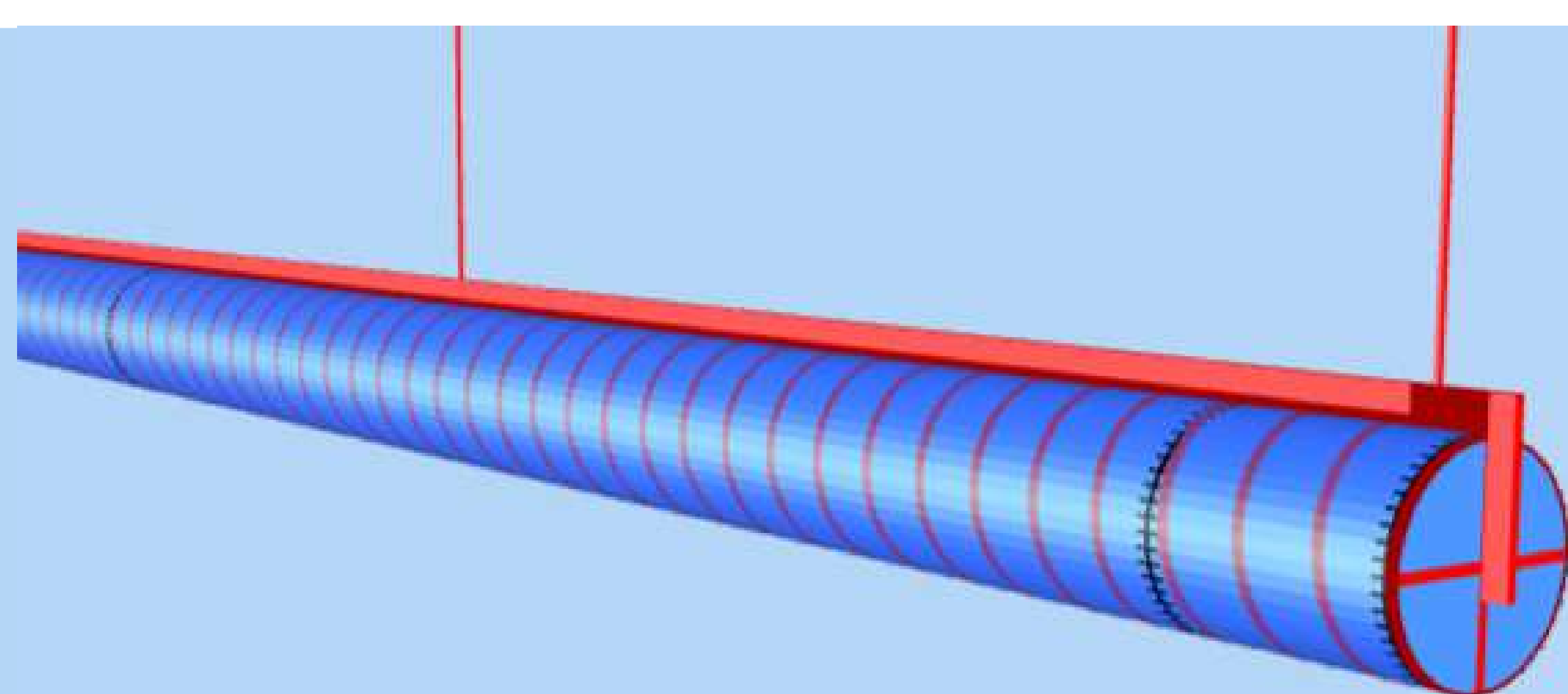


1 Row Cable with Rings

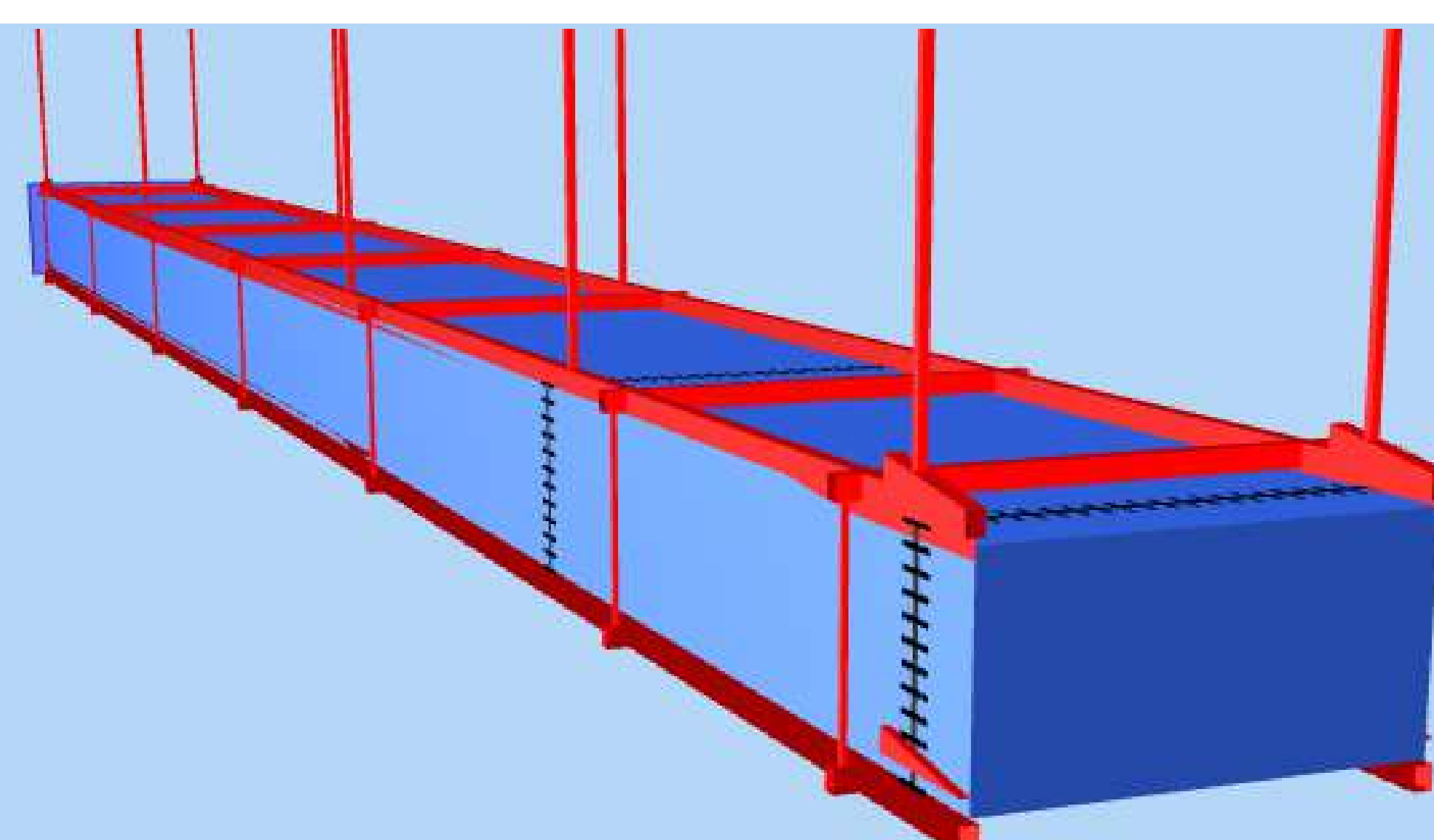


1 Row Track with Rings

FULL TENSIONING SYSTEMS



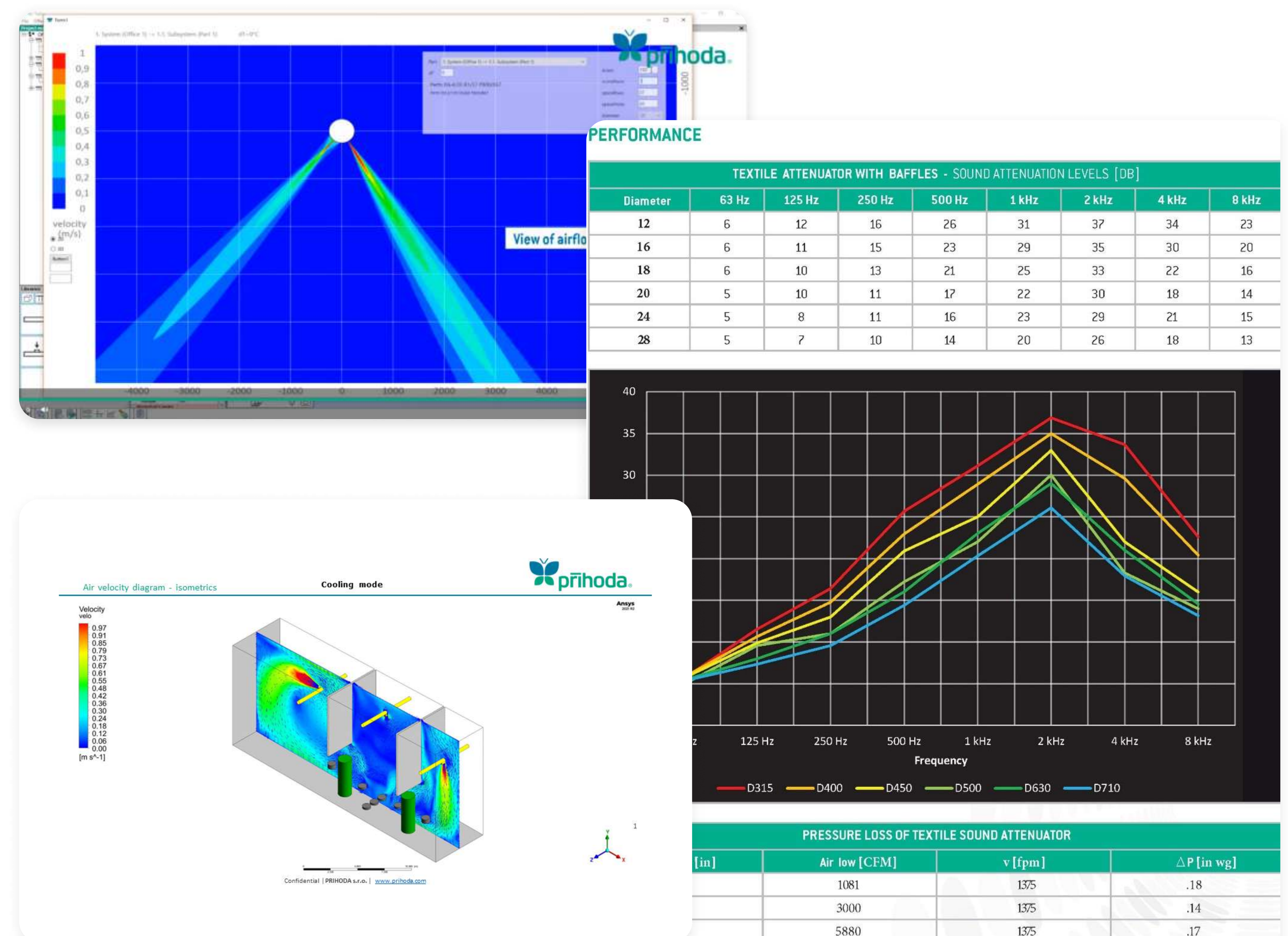
Helix Full Tensioning System



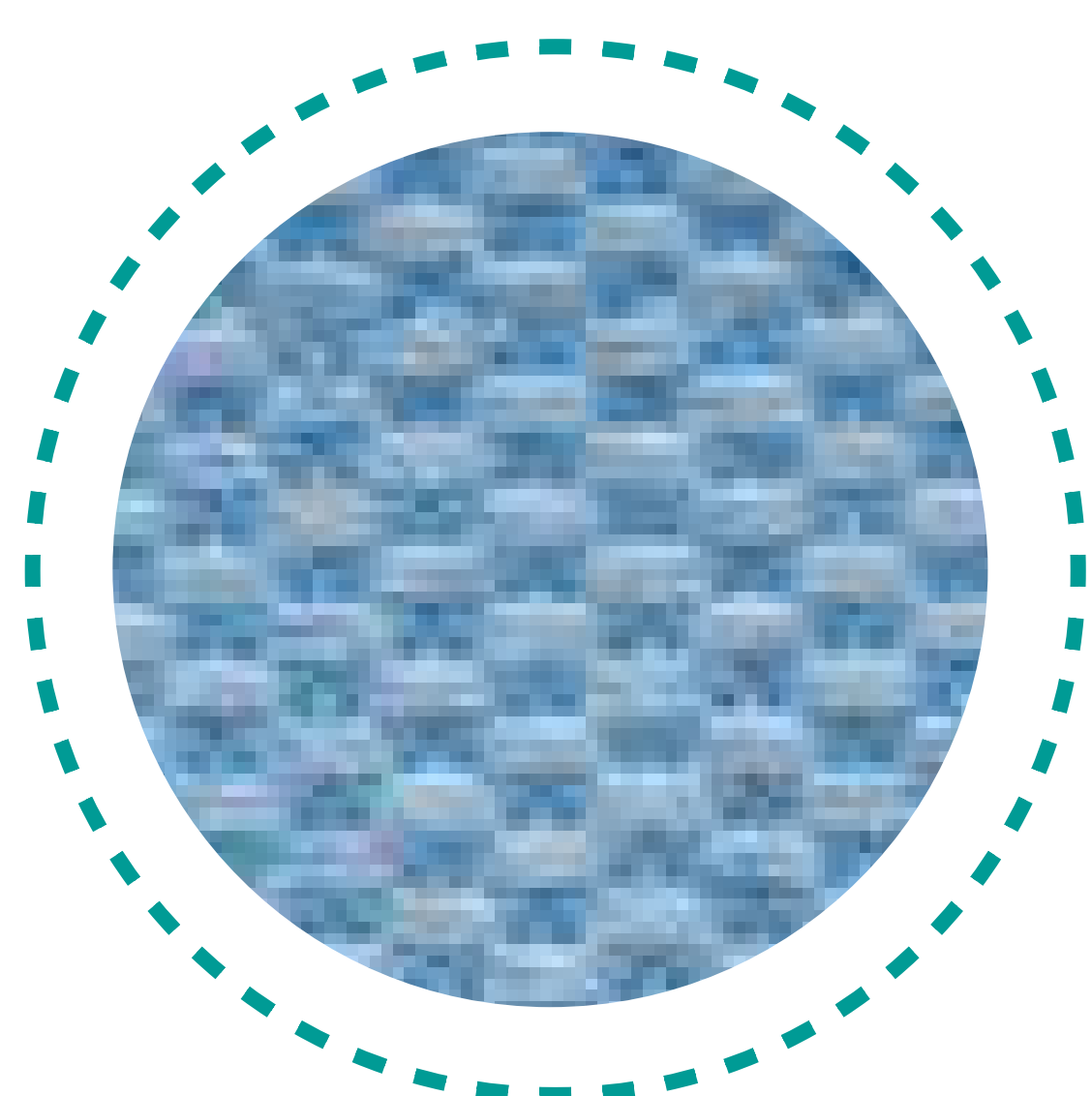
Rectangular Full Tensioning System

PRECISION ENGINEERING WITH PRIHODA'S PROPRIETARY AIR TAILOR DESIGN SOFTWARE

- Comprehensive configuration and analysis of system performance
- Color coded air distribution flow profile to ensure dispersion velocity, direction, and distance.
- Diffuser sound generation analysis
- Optional Ansys CFD modeling for complex, critical applications
- Export layouts in CAD and BIM file formats (.dxf & .ifc)

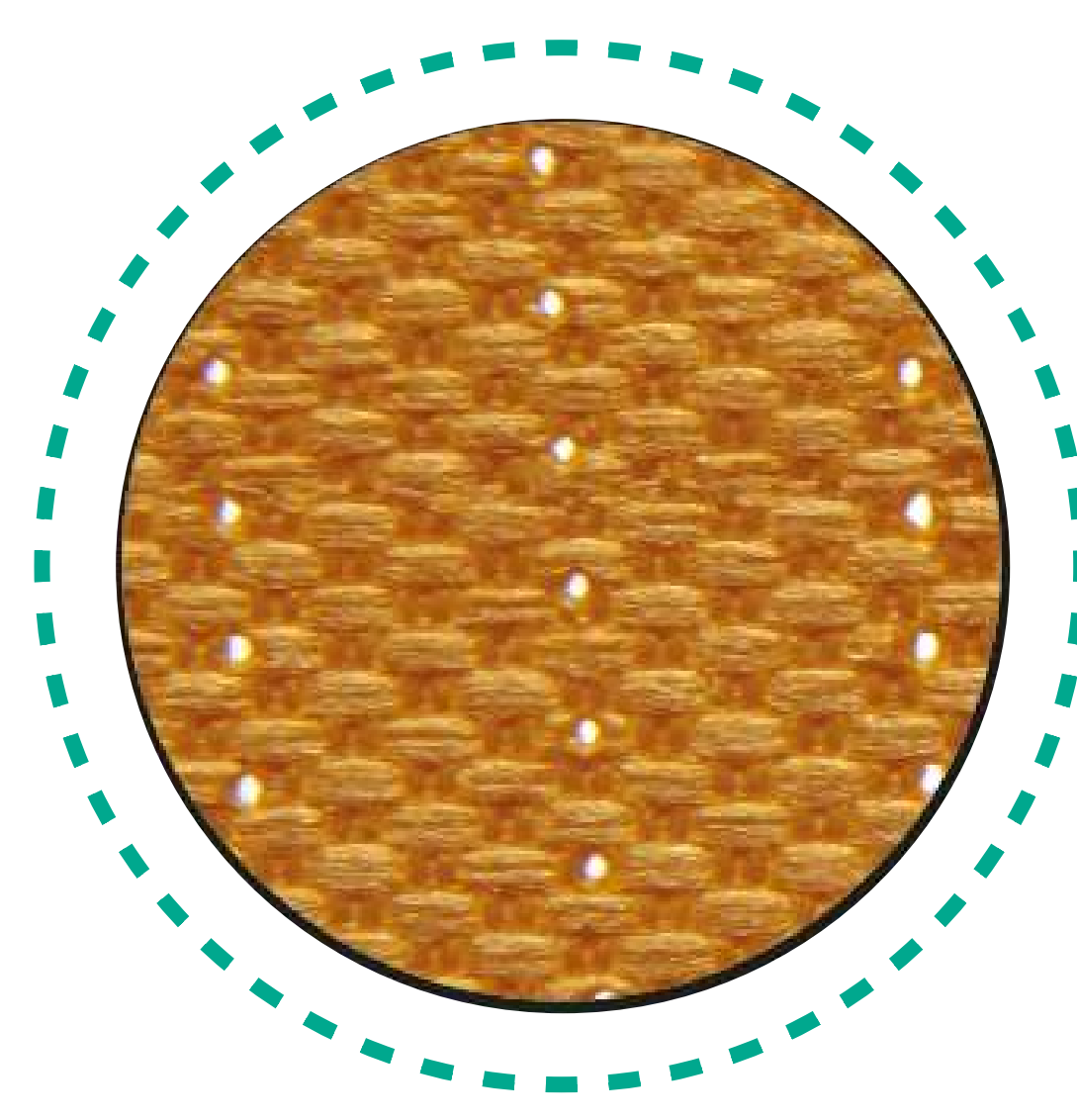


DISPERSION TYPES



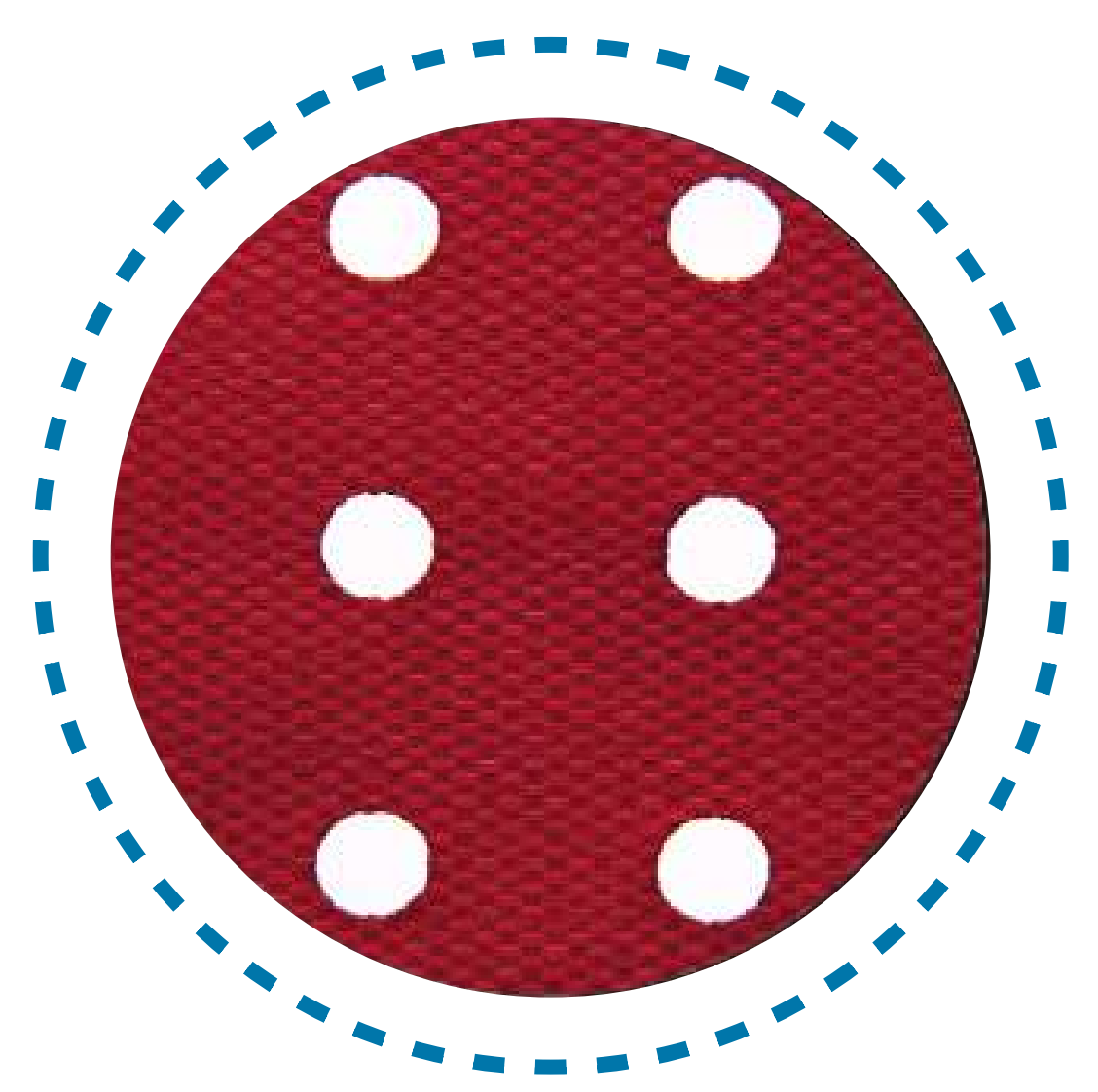
Permeable Fabric

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.



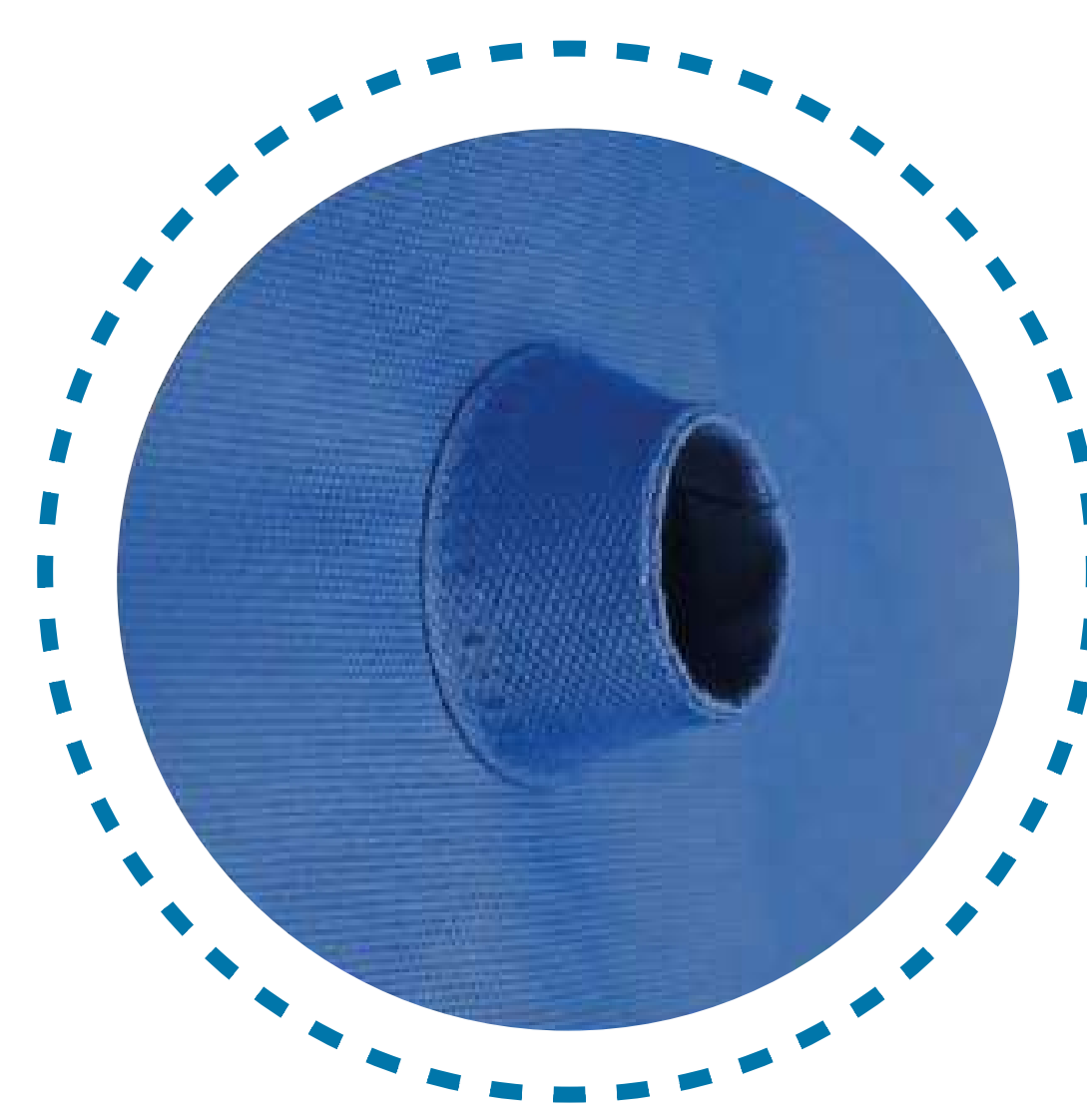
Microperforation

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.



Perforations

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).



Small nozzles

The small nozzles exist in four diameters 20, 30, 40 and 60 mm and provide about 25 % longer airflow reaches than perforation.



Large Nozzles

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



Custom aesthetics - Prihoda Art

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

- Any Image
- Any Pattern
- Any Color (RAL, Pantone, CMYK)

STANDARD COLOR OPTIONS

White

**Pantone 0
Ral 9016**

WH

YELLOW

**Pantone 135
Ral 1017**

YL

Light Gray

**Pantone 420
Ral 7035**

LG

Dark Gray

**Pantone 424
Ral 7037**

DG

Green

**Pantone 341
Ral 6024**

GR

Red

**Pantone 187
Ral 3001**

RD

Light Blue

**Pantone 2915
Ral 5012**

LB

Dark Blue

**Pantone 7462
Ral 5005**

DB

Black

**Pantone 419
Ral 9017**

BK