



# HyPrLite™ PCA LAYFLAT DUCT

## HIGH PRESSURE WITH PROVEN PERFORMANCE

- WELDED CONSTRUCTION DUCT FOR AIR MOVEMENT
- HIGH-STRENGTH COATED PVC INNER LINER
- LIGHTWEIGHT DURABILITY WITH BALLISTIC POLYESTER AND URETHANE TOPCOAT OUTER SHELL
- 100% INSULATED NOT JUST LENGTHWISE



### INCREASED PERFORMANCE

The HyPrLite™ design allows for increased air pressure capacity performance with minimal air loss.

### LOWER PCA ENERGY COSTS

The inner tube design lowers airflow resistance relative to what is typically found with PCA ducting. By providing a very smooth surface, and a 2" welded seam that runs parallel to the airflow direction, HyPrLite™ helps lower the coefficient of friction (k-factor), which helps to lower PCA energy costs.

### THERE IS NO OTHER DUCT ON THE MARKET THAT DELIVERS THIS KIND OF THERMAL PROTECTION

100% INSULATED: HyPrLite™ is insulated around the circumference and along the entire body length of the duct. The insulation can easily be increased for high-temperature applications.

### EXCEPTIONAL EXTERIOR PROTECTION

The outer shell fabric is a proved lightweight ballistic polyester, with a urethane topcoat. This fabric delivers exceptional exterior abrasion protection and UV resistance.

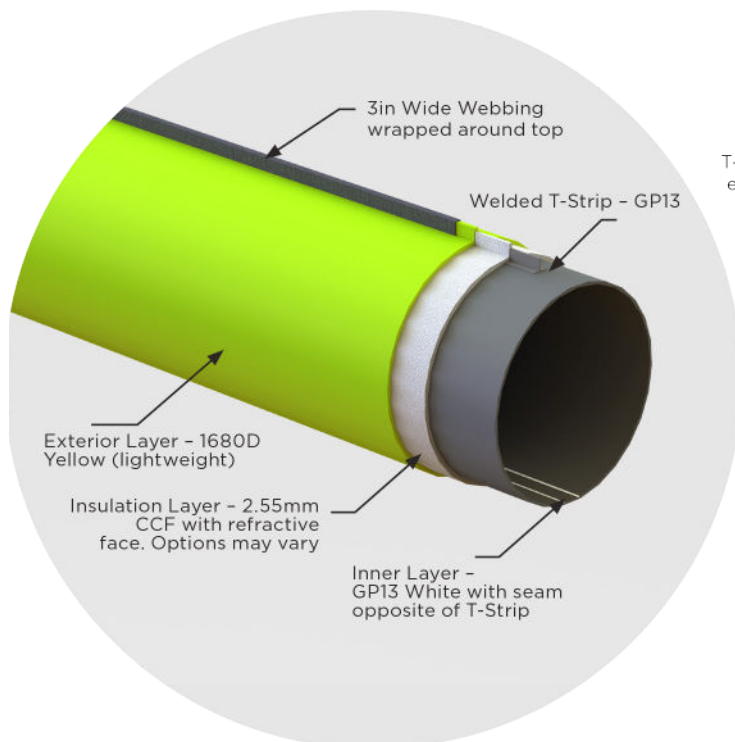
### LIGHTWEIGHT FOR IMPROVED HANDLING

HyPrLite™ is lighter weight than PVC ducting for handling, yet provides exceptional air-flow and pressure capabilities at a commercial price point.

### AVOIDS KINKING

The HyPrLite™ design will help in preventing kinking when the duct is deployed.

*Exterior colors available will include Safety Green and Yellow.*





## Technical Material Specifications: HyPrLite™

	Test Methods	Exterior Layer	Insulation Layer	Interior Tube
Fabric Identification		1680 SG	Foil Faced Foam	GP13
Coating Type		Urethane Topcoat Cover	N/A	Urethane Topcoat Cover
Color – Face/Back		SGreen/SGreen Yellow/Yellow	Foil / White	White/White
Weight		10.00oz/yd <sup>2</sup>	0.10 inches thick	13.30oz/yd <sup>2</sup>
<b>Base Fabric Construction:</b>				
Type		FR Polyester	Foil Faced Foam	FR Polyester
Denier		1680x1680	N/A	1300x1000
Weave – yarns/inch		25x19	N/A	9x9
Strip Tensile - lbf	ASTM D751	631x598	N/A	400x320
Grab Tensile – lbf	ASTM D751	705x587	N/A	
Trapezoid Tear – lbf	ASTM D751	180x120	N/A	85x80
Burst Strength – lbf	ASTM D751-00	361	N/A	4.0 PSI+
Flame Test - Pass		<b>Self-Extinguishing</b>	N/A	<b>Self-Extinguishing</b>
Resistance to Cold – °F		-40	-60	-40
Resistance to Micro-organisms		Rot Proof	N/A	Rot Proof
Taber Abrasion (CS-10 / 500g)	ASTM D3884-09	3000 cycles	N/A	N/A

### Additional Notes:

HyPrLite™ construction consists of an inner tube liner that is built in a straight linear direction. The construction includes a 2-inch wide-weld, down the entire length of the tube, which transfers into a high strength liner that can withhold and sustain high pressure with a very low risk of weld-failure. The inner tube liner is fully encapsulated by a thermal layer with various options available. The outer layer is light-weight, durable, and has good abrasion resistance.



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