

# Triple Lock<sup>®</sup> Medical Grade

## Acoustic FLEXIBLE DUCTING

### Triple Lock<sup>®</sup> T/L-AMG

This medical grade insulated acoustic air duct is manufactured using a dead soft perforated aluminum strip, spirally wound and mechanically locked without the use of adhesives. The fiberglass blanket is totally isolated from the air stream by a seamless acoustic polyethylene liner, which is draped with thick fiberglass insulation and covered by a flame retardant, scrim foil mylar or polyethylene vapor barrier. Triple Lock<sup>®</sup> (T/L basic) perforated core with an open area of 20% to 25% to completely cushion sounds, such as air movement and duct vibrations. Ideal for use in medical care facilities and should allow for a comparatively noise free environment.

### Suggested Specification

Flexible ducting shall be Triple Lock<sup>®</sup> T/L-AMG by Flexmaster. The acoustic duct shall have a perforated core with 20-25% open area. Spirally wound from dead soft aluminum utilizing a continuous three ply mechanical lock without the use of adhesives. The perforated duct shall be sleeved with a seamless acoustic polyethylene liner, wrapped with minimum R4.2 fiberglass insulation and covered by flame retardant scrim foil or polyethylene vapor barrier. Flexible acoustic duct shall be UL-181 Class 1 Connector.

- **Three ply Triple Lock<sup>®</sup> seam**
- **Manufactured from dead soft pure aluminum**
- Exceptional strength
- Corrosive resistant
- Anti-microbial properties
- Air stream protected by seamless polyethylene liner
- Vibration deadening properties
- Lightweight and self supporting
- Acoustic qualities
- Highly puncture resistant
- Thermal reliability

*Polyethylene vapor barrier also available on request*



### Acoustic Properties for Standard and Acoustic Ducts

Straight duct - insertion loss (db) in forward flow conditions for 10 feet length

Model #	Center Frequency (Hz)	125	250	500	1000	2000	4000
T/L-AMG	0 FPM	6	10	25	31	40	27
	2500 FPM	6	11	25	>32	>38	25

**Material:** Perforated aluminum core (min 20%), polyethylene vapor liner, insulation, mylar or polyethylene vapor barrier

**Thermal Resistance:** R4.2, R6, R8

**Maximum Rated Velocity:** 4000 fpm (20.3 m/s)

**Maximum Positive Pressure:** 6 in. WC (1.5 kPa)

**Maximum Negative Pressure:** 1 in. WC (0.25 kPa)

**Temperature Range:** -40°F to +250°F (-40°C to +121°C)

**Bend Radius:** 1½ x diameter

**Available Sizes:** 6" - 16"

**Standard Lengths:** 10 ft

**UL Listing:** UL181 Class 1 Air Connector

**NOTE:** This UL Class 1 product has a flame spread rating of not over 25 without evidence of continued progressive combustion and a smoke developed rating of not over 50.

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**FLEXMASTER**  
HVAC Products

**US:** 20 Commerce Park North Bedford, NH 03110-6911  
Tel: 603.669.5136 Fax: 888.889.3539 800.654.5600

**CANADA:** 20 East Pearce St. Richmond Hill, ON L4B 1B7  
Tel: 905.73.9411 Fax: 905.731.7086

Email: [sales@z-flex.com](mailto:sales@z-flex.com) Website: [www.z-flex.com](http://www.z-flex.com)