



Thermaflex®

The #1 Flexible Duct in the World.

S-TL FLEXIBLE AIR DUCT

Thermaflex® S-TL non-insulated flexible air duct is designed for use in all pressure cooling and heating systems.

Thermaflex® is a global leader in the flexible ducting industry for commercial and residential HVAC applications.

Thermaflex® S-TL air duct is used in either supply or return sections: for branch ducts and duct connections to or between mixing units induction units, control or terminal units and diffusion devices, including light troffers.

Thermaflex® S-TL air duct provides economical means for handling misalignment between system components and ducting around obstacles where fabricated and fitted ducts are difficult and costly to install. This duct is equally suitable for new jobs or refit work, and is especially useful when making system extensions or changing conditioned zones now or in the future.

Compliance with NFPA Standards lets you install lengths longer than the limitation applying to connectors.

Thermaflex® S-TL air duct offers further economy of installed cost, for example, as a return duct within conditioned spaces or in any zone where the function of insulated duct is not required.

**Increase productivity and profitability
with innovative products by Thermaflex®.
Contact us today at 1-800-459-4822.**



S-TL Flexible Air Duct

Features and Benefits:

- Underwriters Laboratories listed as Class 1 air duct, UL Standard 181 and CUL S110.
- Reduced total installed cost—fast, economical installation.
- Material will not support mold or mildew growth.
- Long standard lengths help reduce waste—easily cut to exact lengths, or spliced, at the job.
- Easily shaped to fit oval inlets.
- Suitable for all bathroom venting applications.
- All components of are self-extinguishing and will not support flame.
- Complies with NFPA Standards 90A and 90B and most local, state and federal standards or codes.
- Maintenance free under normal conditions—highly resistant to rust and corrosion.
- Strict quality control over all raw materials and completed ducts.
- Will not balloon at recommended operating pressure.
- Suitable for all commercial applications where noninsulated "connector" rated products are not allowed.
- Will not collapse at recommended operating pressure.
- Assists absorbing system vibration transmitted through ductwork.
- Packaged compactly for efficient transporting, storing and handling.
- Available through broad national distribution.

Application & Engineering Data

Nominal Inside Diameter (inches)	2	3	4	5	6	7	8	9	10	12	14	16	18	20
Length (feet)	25	25	25	25	25	25	25	25	25	25	25	15	15	15
Inside Bend Radius (inches)	2	3	4	5	6	7	8	9	10	12	14	16	18	20
Operating Pressure (inches water column)	Positive: 16 inches (2-10in. ID) 10 inches (12-20in. ID) Negative: 1 inch													
Maximum Leakage (cubic ft./min./linear ft./in diameter) At 16" water column	0.015													
Internal Operating Temperature Range (°F)	Minimum: -20							Maximum: 250						
Velocity (ft./minute)	6000													
Surface Burning Characteristics	Max. Flame Spread: 25							Max. Smoke Developed: 50						
Oxygen Index Ratings	Woven and Coated Glass Cloth Fabric: 35.60													

Construction & Materials

The supporting helix of coated spring steel wire is permanently bonded to a coated woven fiberglass cover.

Suggested Specification

Flexible air duct for connections between _____ and _____ shall be Thermaflex S-TL air duct, rated for a maximum pressure of 16" (2-10 in. ID) or 10" (12-20 in. ID) water column positive and 1" water column negative and maximum velocity of 6000 FPM and Listed by Underwriters Laboratories, Inc., under UL Standard 181 and CUL S110 as a Class 1 air duct and complying with NFPA Standards 90A and 90B. Thermaflex S-TL air duct shall be factory made and using a coated spring steel wire helix permanently bonded to a coated woven fiberglass cover.

Warranty Thermaflex warrants that all insulated and non-insulated products will be free from defects in materials and factory workmanship for a period of ten years from the date of manufacture. This warranty covers the flexible duct, materials and labor. This warranty applies only to ducts properly installed in accordance to Thermaflex's written installation instructions and under conditions specified in published performance data. Thermaflex shall not be liable to buyer or any third party for any special, secondary, incidental or consequential damages however arising.

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Coated spring steel wire helix
Special coating prevents corrosion

