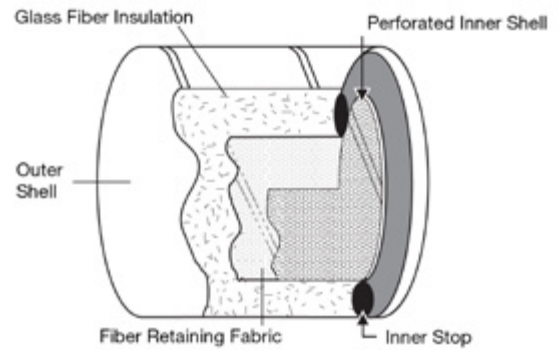


Specification

Material (*) not available in pressed construction

- Galvanized steel conforming to ASTM standards A653 and A924
- Stainless steel type 304L conforming to ASTM standard A240*
- Stainless steel type 316L conforming to ASTM standard A240*
- Aluminum T3003*



Double Wall

- Perforated inner liner will consist of 0.125" perforations on 0.250" staggered centers corresponding to an overall open area of 23%.
- Glass fiber insulation will have a maximum conductivity factor (k) of 0.26 BTU-in/hr x ft² x °F at 75°F mean ambient temperature (R=3.8).
- Retaining fabric will be 0.008" thick, 15.6 lb/ft³ density non-woven polyester fabric with an air permeability rate of 9.2 ft³/ft² x s.
- EnergyX™ insulation stop is constructed of a closed-cell elastomeric foam with a maximum conductivity factor (k) of 0.28 BTU-in/hr x ft² x °F and an operating temperature range of -70°F to +220°F.

Surface Finish

- Galvanized steel (galvanized in accordance with latest SMACNA standards).
- Stainless steel type 304L - Mill Finish
- Stainless steel type 316L - 2B Mill Finish
- Coated with an average thickness of 4 mils (0.004 inch) inside and out. Coating to meet or exceed 1,000 hour Salt Spray Test per ASTM B117-97.
 - PVC option (duct only)
 - Epoxy (duct and/or fittings)
- Antimicrobial - coating containing antimicrobial compound complies with UL standard - not to exceed flame or smoke developed ratings of 25/50.

Thickness

Material thickness constructed from galvanized steel in accordance with the latest SMACNA's HVAC Duct Construction Standards for +10" water gauge pressure.

Construction

- Duct is of spiral lock seam construction with a mechanically formed seam locking indentation evenly spaced along the spiral seam. All spiral duct 8" diameter and larger shall incorporate multiple corrugations between spiral seams. Inner and outer duct will be of spiral lockseam construction.
- Double wall duct and fittings will consist of a perforated or solid inner liner, 1" thick x 1.0 lb/ft³ layer of glass fiber insulation, and a solid outer pressure shell. When a perforated inner liner is specified, a retaining fabric must be wrapped, between the perforated inner and the glass fiber insulation. This is to prevent glass fiber tearing into the airstream and maintains the desired acoustical properties.
- Double wall options: 1" thick insulation (standard); and 2" thick insulation (optional).
 - The outer pressure shell diameter shall be two times the insulation thickness larger than the inner liner.
 - Fittings shall be manufactured using one or more of the following construction methods:
 - Overlapped edges stitch welded along the entire length of the fitting
 - Standing seam gore locked and internally sealed button punched and internally sealed
 - Elbows 3" through 12" diameter will be die stamped and continuously stitch welded

Specifications

CONNECTIONS

Fitting ends shall be sized to slip-fit into spiral duct of the same nominal size.

JOINT SEALING

Fitting ends are equipped with factory installed, triple-lipped gaskets. When installed in spiral duct per manufacturer's installation instructions, the gasket creates a seal against the interior of the spiral duct. The system tightness shall be factory warranted to meet SMACNA's Leakage Class 3 performance.

EnergyX™ is a foam insulation stop and is included on EHG G-3 product only.

If no gasket is used, all joints must be sealed by the installer during the installation process. The type of sealant used as well as the method and level of application should be as directed by the specification and in accordance with the sealant manufacturer's published installation instructions.

GASKET

The gasket shall be EPDM rubber. The gasket is located in a groove at the end of the fitting. In order to achieve optimum sealing for all diameters, different size gaskets shall be used. The gasket shall be classified by Underwriters Laboratories for flame spread and smoke developed in accordance with ASTM E84-91a.

NOTE: For systems under negative pressure, please refer to the Industrial Catalog or an EHG representative.

Fitting Slip Dimension

Our products are designed with a male/female slip connections. For gasket (G-3) connections, refer to the e-dimension listed in the chart on page 11. If flanges are utilized, Add 3" per flange plus flange thickness to the published L (length) dimension as shown elsewhere in this catalog as depicted in the diagram to the right.

Factory-applied Flange	
Collar Length	Make-up Length
3"	3" + flange thickness

