Cross Talk Silencers

A. General
Furnish and install Price Cross Talk Silencers of the sizes, configuration, and performance as described on plans and / or air distribution schedules.

1. Performance
Silencer performance characteristics, including insertion loss and pressure drop, shall be attained through testing in accordance with the latest ASTM E477 test standard for acoustical duct silencers. Laboratory performance verification in the manufacturer’s test facility may be requested, in which case a comparative test report shall be made available to the engineer.

2. Submittal
Manufacturer’s performance data for dynamic insertion loss, generated noise and pressure drop shall be provided and shall be obtained in accordance with ASTM E477-13. Data for each scheduled silencer shall be provided with the size, configuration, air volume, and air flow direction as it appears on the drawing and / or schedule.

B. Construction
Silencers shall consist of 22 gauge solid steel casings, 26 gauge solid steel internal noses at inlet and outlet, and ¾ inch dual-density absorptive acoustic fiberglass media.

Cross Talk Silencers: XTL, XTZ, XTU

Acceptable methods of fastening include button lock, Pittsburgh lock and welds. In situations where these methods are not feasible, rivets can be used. Screws or other types of mechanical fasteners will not be acceptable.

The silencer perforated liners shall be rigidly fastened to the casing of the silencer on both ends, and attached to the outer casing with a minimum of two stiffeners.

1. Acoustic Media
Acoustic media shall be shot-free inorganic glass fiber with long, resilient fibers, bonded with thermosetting resin. Glass fiber shall be in accordance with erosion requirements of UL 181, and shall conform to the physical properties and requirements of ASTM C 1071. Density shall be consistent with that used to generate cataloged test data.

2. Combustion Ratings
Combustion ratings for acoustic media shall be equal to or less than the combustion ratings noted below when tested in accordance with ASTM E84, UL723 and NFPA255.

Flame Spread Classification: < 25
Smoke Development Rating: < 50