



**DUAL DUCT TERMINAL UNITS
LINER OPTIONS
TYPE: DUAL DENSITY INSULATION**

DESCRIPTION

Nailor tests and catalogs its sound power levels for dual duct terminal units using Steri-liner insulation as this is the most popular liner on dual duct projects. Correction factors for standard 3/4" (19) dual density insulation are shown below.

Tuf-Skin dual-density fiber glass blankets are the most widely-used insulation for HVAC equipment applications. The combination of high-density skin and low-density core provides high acoustical values in the high and low frequency ranges normally encountered in HVAC equipment.

Application. Tuf-Skin provides effective thermal and acoustical control in air conditioning and heating equipment.

Advantage. The porosity and inherent structure of the flame-attenuated glass fiber blankets are highly effective in reducing thermal transfer.

Tuf-Skin readily withstand damage from mechanical abrasion during assembly and from air erosion in service.

INSULATION CHARACTERISTICS

- Material: Dual density fiberglass, surface treated to prevent erosion.
- Thickness: 3/4" (19).
- Density: 4.0 lb/cu.ft. (64 kg/m³) skin, 1.5 lb/cu.ft. (24 kg/m³) core.
- Thermal Conductance: 0.36 BTU / hr-ft²-°F @ 75°F (2.04 W / m²-°C @ 24°C).
- Thermal Resistance: 2.8 hr-ft²-°F / BTU (0.74 m²-°C / W).
(Effective R-Value)
- Flame Spread: 25
- Smoke Density: 50

MAXIMUM AIR VELOCITY

3,600 FPM (1,097 mpm). Tested at two and one-half times (9,000 fpm) (2,743 mpm) the maximum recommended service velocity. Meets the erosion requirements of UL 181.

STANDARD AND CODE COMPLIANCE

- ASTM E84 and UL 723 and CAN/ULC S102-M88 Flame/Smoke (25/50)
- NFPA 90A and 90B

ACOUSTICAL PERFORMANCE

Correction factors to cataloged sound power level data (steri-liner) are shown below.

Model 3230 • All sizes.

Octave Band	2	3	4	5	6	7	NC Impact
Center Frequency (Hz)	125	250	500	1000	2000	4000	(Average)
Discharge Sound	-4	-4	-6	-10	-12	-13	-5
Radiated Sound	+1	+2	+2	+3	+3	+3	+1

Model 3240 "Blendmaster" • All sizes.

Octave Band	2	3	4	5	6	7	NC Impact
Center Frequency (Hz)	125	250	500	1000	2000	4000	(Average)
Discharge Sound	-4	-4	-6	-10	-12	-13	-5
Radiated Sound	+1	+2	+2	+3	+3	+3	+1

SCHEDULE TYPE				
PROJECT				
ENGINEER	DATE	B SERIES	SUPERSEDES	DRAWING NO.
CONTRACTOR	8 - 19 - 16	VAV.ACC.	8 - 15 - 11	VAV - DDDD