

2. The structural steel spring isolation curbs shall bear directly on the roof support structure and be flashed and waterproofed into the roof's membrane waterproofing system.
 - a. The curb shall be capable of being re-flashed without lifting the unit.
3. Equipment manufacturer's or field fabricated curbs shall not be used.
4. Curb sides and ends shall be manufactured from minimum 14 ga. G90 galvanized sheet metal (expanded metal or painted steel is not acceptable), reinforced and cross braced as required.
5. All springs shall provide a minimum of 85% vibration isolation efficiency
 - a. All springs shall be adjustable for leveling.
 - b. Spring assemblies shall contain restraints and snubbers to resist wind and seismic forces.
6. Seismic performance criteria shall be as shown or indicated on the drawings, schedules or in the vibration control specification.
7. The curb shall accept standard 2" roof insulation supplied and installed by the roofing contractor.
8. A resilient weather seal shall be incorporated into the curb design between the isolated top frame and the base curb assembly.
9. Wood nailer and flashing shall be provided and curbs shall be manufactured to NRCA standards.
10. Curb height shall be 24" high minimum or as shown on the drawings.
11. Curbs shall be shipped pre-assembled. **Knocked down kits are not acceptable.**
12. All non-galvanized materials shall be prime paint finished.
13. All duct supports, bracing, flashing and safing as required.
14. Unless otherwise recommended by the RTU manufacturer, all curbs shall be full perimeter type.

B. HUSHCORE™ Model DS-49 Acoustical Panelized Floor

1. There shall be a HUSHCORE™ DS-49 galvanized steel acoustical panelized floor for radiated noise.
 - a. The curb shall have an integrated plenum divider to segregate SA and RA paths.
2. Supply (SA) and Return (RA) openings shall be offset from the RTU openings to attain the required acoustic performance and coordinated with the building ductwork.

2.3 Acoustic Performance

- A. To assure optimized aerodynamic and acoustic performance as well as proper integration and coordination of the final installation, the *Whisper™ "P"* System shall be supplied by the rooftop unit manufacturer as part of a turnkey package.
- B. Scheduled Rooftop Unit Sound Pressure Weighted Levels for the supply and return shall be as listed below at the deck openings in the bottom of the plenum curb.

Hz	<u>63</u>	<u>125</u>	<u>250</u>	<u>500</u>	<u>1K</u>	<u>2K</u>	<u>4K</u>	<u>8K</u>	<u>dBA</u>
Supply	[]	[]	[]	[]	[]	[]	[]	[]	[]
Return	[]	[]	[]	[]	[]	[]	[]	[]	[]

- C. Pressure loss shall not exceed [] w.g. at the building deck openings including all system effects.
- D. The acoustical panelized floor of the plenum curb shall be rated as listed below for Sound Transmission Loss when tested in accordance with procedure ASTM E-90-10.

Freq. (Hz)	<u>80</u>	<u>100</u>	<u>125</u>	<u>160</u>	<u>200</u>	<u>250</u>	<u>315</u>	<u>400</u>	<u>500</u>	<u>630</u>	<u>800</u>	<u>1K</u>
TL (dB)	17	20	25	31	33	39	43	48	51	54	55	59
Freq. (Hz)	<u>1250</u>	<u>1600</u>	<u>2000</u>	<u>2500</u>	<u>3150</u>	<u>4000</u>	<u>5000</u>	<u>6300</u>	<u>8000</u>	<u>10000</u>	<u>STC</u>	
TL (dB)	62	63	62	63	64	67	66	70	74	71	49	

1. A copy of the test report by an accredited lab shall be included in the submittals to document the above performance.

END OF SECTION