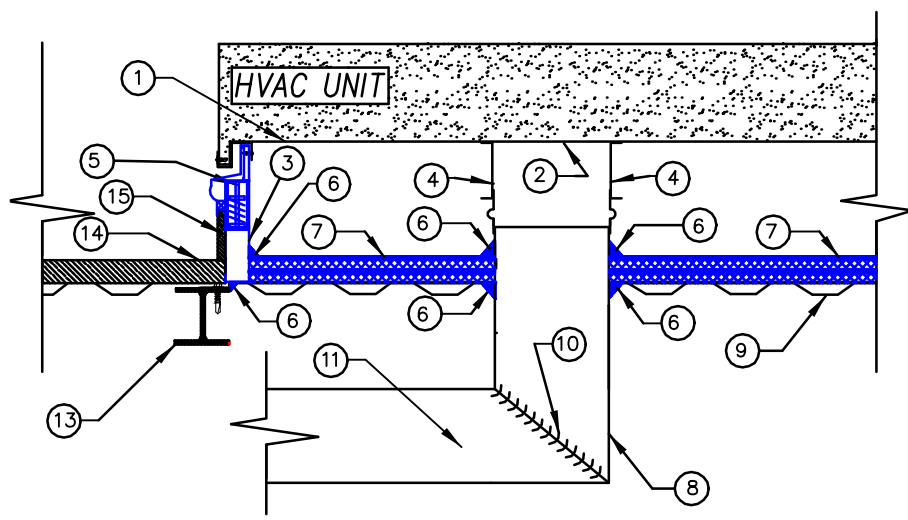


# HUSHCORE™ **STANDARD™** SYSTEM MODEL **HIR-DS-52** FOR ROOFTOP UNITS ON VIBRATION RAIL CURBS SUPPORTED BY SECONDARY FACTORY BASE CURBS



## BY RTU UNIT MANUFACTURER

1. RTU Base
2. SA/RA Unit Openings
3. RTU Manufacturer's Standard Factory Curb

## BY HVAC CONTRACTOR

8. Duct Work
9. Roof Deck Flashing to within  $\frac{1}{4}$ " of all Duct Drops but not in contact with Duct Wall
10. Turning Vane
11. Fan sound attenuation per schedule/specifications
12. Submit Letter of Certification from Acoustical Supplier following Inspection

## BY ACOUSTICAL MANUFACTURER

4. Integral Curb Duct Supports
5. 2" Deflection Fully Assembled HUSH CURB™ RAIL Curb
6. HUSH SEALANT™ Acoustical Caulk at all Duct Drops & Curb Perimeter
7. HUSHCORE™ DS-52 Deck System In-Curb Acoustical Treatment

## BY GENERAL CONTRACTOR

13. Building Steel
14. Built-up Roof or Concrete
15. Insulation and Cant Strip
16. Curb Slope requirements where applicable

**APPLICATION:** Recommended for all 10 to 20 ton Rooftop Units or where indicated on the RTU schedule/drawings.

## RTU NOISE REDUCTION SYSTEM

HUSHCORE™ **STANDARD™** System Model HIR-DS-52 shall be a 2" deflection, fully adjustable and fully assembled curb rail system that sits on top of a factory curb (by others). The curb rail assembly incorporates a continuous flexible weatherseal. The system shall be capable of serving as a blocking device during installation. The springs shall have built-in limit stops to snub out wind resistance. Model HSIR-DS-52 incorporates seismic construction. The HUSH CURB™ shall be shipped completely assembled.

The HUSH CURB™ shall have a field installed in-curb DS-52 sound package for radiated noise. The multi-layer composite system shall have a nominal installed height of 8" with transmission loss ratings as listed below in accordance with ASTM-E-90-10. HUSH SEALANT™ model HSAC-100 acoustical grade caulk shall be used around all curb perimeter edges and around all curb openings as detailed above after decking is flashed to within  $\frac{1}{4}$ " without contacting the duct wall. A letter of certification shall be issued by the acoustical system supplier stating the complete system has been properly installed prior to setting the units. Fan noise sound attenuation shall be as scheduled on the drawings or as listed in the specifications. Products and systems shall be by BRD Noise and Vibration Control, Inc., Wind Gap, PA.

## PERFORMANCE

To assure optimized aerodynamic and acoustic performance as well as proper integration and coordination of the final installation, the HUSHCORE™ System shall be supplied by the rooftop unit manufacturer as part of a turnkey package. The HUSH CURB™ shall provide minimum 85% vibration isolation efficiency. HUSHCORE™ Model HIR-DS-52 In-Curb Acoustical Treatment Performance shall be tested in accordance with procedure ASTM E-90-10. The assembly shall be rated at not less than STC-52 with 1/3 octave performance values as listed below for sound radiation through the deck inside the curb.

HUSHCORE In-Curb Composite - (Transmission Loss) in accordance with ASTM E-90-10																						
Freq. (Hz)	80	100	125	160	200	250	315	400	500	630	800	1K	1.25K	1.6K	2K	2.5K	3.15K	4K	5K	6.3K	8K	STC
Transmission Loss (dB)	26	27	33	32	35	42	45	45	50	56	59	60	62	63	64	65	67	71	74	78	80	52