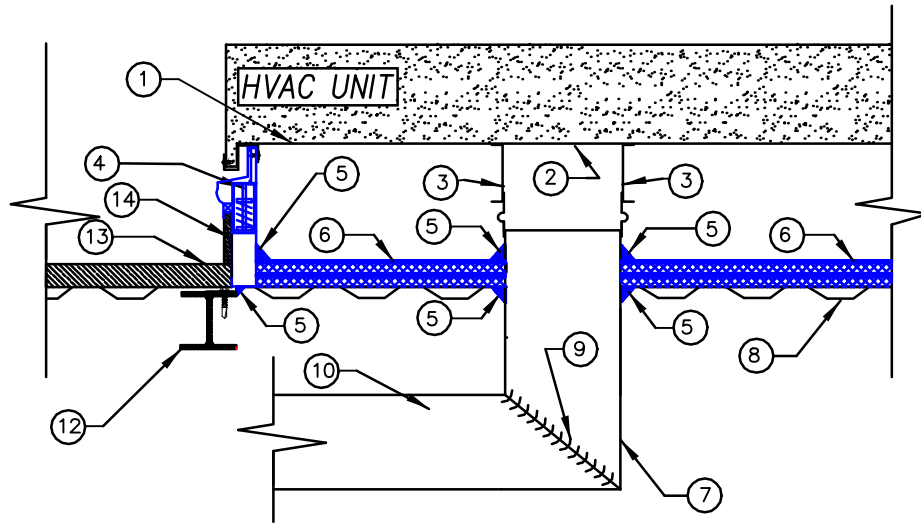


# HUSHCORE™ PLUS™ SYSTEM MODEL HIC-DS-41 INTEGRATED VIBRATION CURB



## BY RTU UNIT MANUFACTURER

1. RTU Base
2. SA/RA Unit Openings

## BY ACOUSTICAL MANUFACTURER

3. Integral Curb Duct Supports
4. 2" Deflection Fully Assembled HUSH CURB™
5. HUSH SEALANT™ Acoustical Caulk at all Duct Drops & Curb Perimeter
6. HUSHCORE™ DS-41 Deck System In-Curb Acoustical Treatment

## BY HVAC CONTRACTOR

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

## BY GENERAL CONTRACTOR

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

**APPLICATION:** Recommended for all Rooftop units 20 tons and larger or where indicated on the RTU schedule/drawings.

## RTU NOISE REDUCTION SYSTEM

HUSHCORE™ PLUS™ System Model HIC-DS-41 shall be a 2" deflection, fully adjustable and fully assembled curb system. The completely isolated top and bottom steel structural frames shall have 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 HSIC-DS-41 incorporates seismic construction. The HUSH CURB™ shall be 24" high and shipped completely assembled. Factory curbs with a secondary vibration rail kit are not acceptable.

The HUSH CURB™ shall have a field installed in-curb DS-41 sound package for radiated noise. Materials shall meet Class "A" per ASTM E84 for flammability. 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™ mode 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 1/4" without contacting the duct wall. Fan noise sound attenuation shall be as scheduled on the drawings or as listed in the specifications. 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. 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. Seismic performance shall be in accordance with the latest IBC code. HUSHCORE™ Model HIC-DS-41 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-41 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)	13	13	18	20	25	40	48	52	56	58	60	58	60	60	61	62	65	69	72	72	74	41