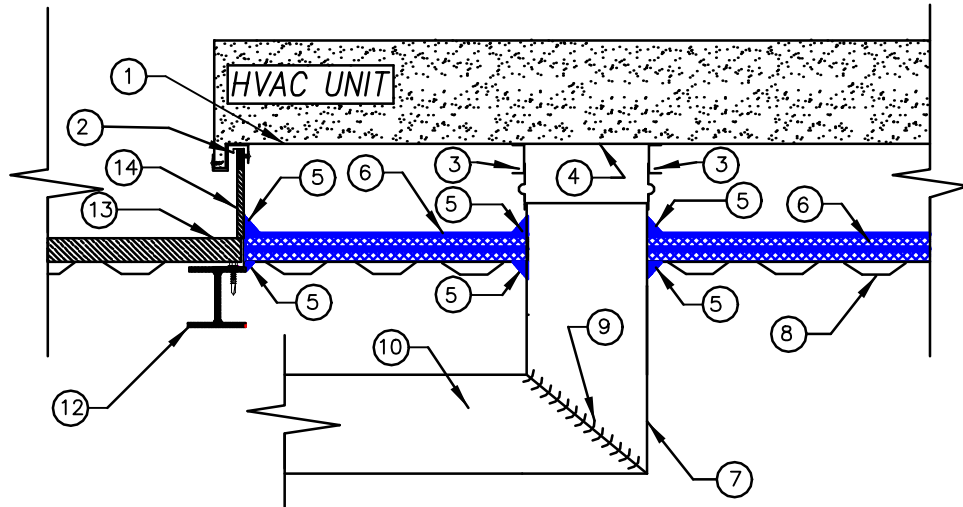


HUSHCORE™ *ECONOMY*™ SYSTEM MODEL *NIC-DS-41* FOR INTERNALLY ISOLATED ROOFTOP UNITS ON NON-ISOLATED FACTORY CURBS



BY RTU UNIT MANUFACTURER

1. RTU with internal isolation
2. Factory Non-Isolated Roof Curb
3. Integral Curb Duct Support
4. SA/RA Unit Openings

BY ACOUSTICAL MANUFACTURER

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 Flashing 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 Rooftop Units 10 tons and smaller located above non-critical buffer space or where indicated on the RTU Schedule/Drawings.

RTU NOISE REDUCTION SYSTEM

HUSHCORE™ *ECONOMY*™ System Model NIC-DS-41 consists of an internally isolated RTU mounted on a non-isolated factory curb. The overall installed thickness shall be 7" for the in-curb composite treatment. The composite panels shall get HUSH SEALANT™ model HSAC-100 acoustical grade caulk at seams and all perimeter edges inside the curb. Decking shall be maintained inside the RTU roof curb to a clearance of 1/4" maximum around all duct drops but never contact the duct. The manufacturer or their local authorized agent shall inspect the in-curb deck system work on site prior to lowering of the units and issue a letter of certification stating that the products have been properly installed and sealed around all ductwork and drops to eliminate air gaps which can compromise performance. 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. HUSHCORE™ Model NIC-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