



the pate company®
quality prefabricated roof components

PRODUCT DATA SHEET

Pate Sound Shield (PSS)

The Pate Sound Shield is an acoustic treatment that reduces radiated sound through roof-mounted equipment curbs.

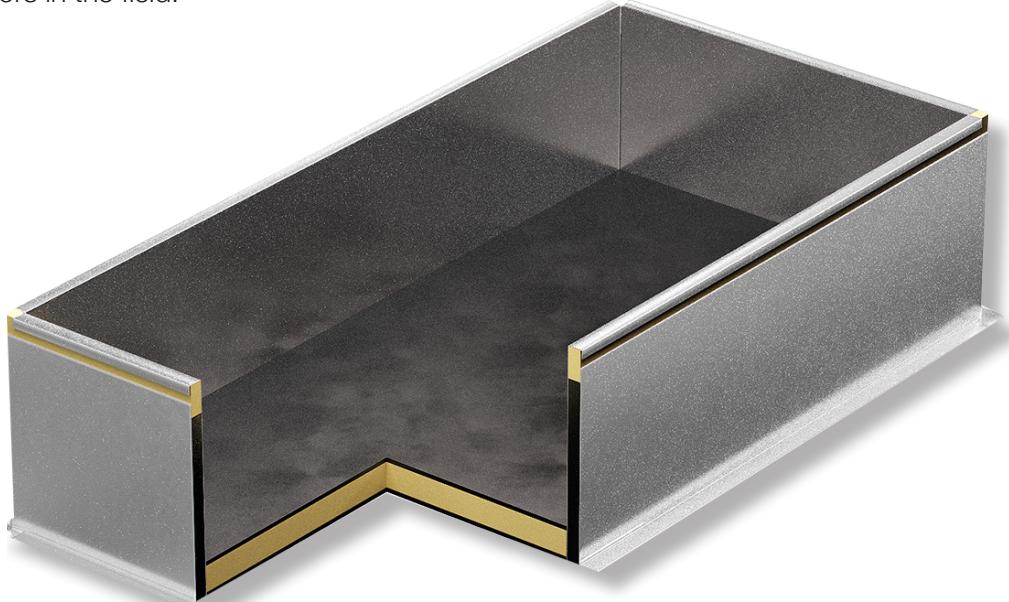
The treatment reduces noise radiated into an occupied space by all sources within rooftop units, including supply and exhaust fans, compressors, and condenser fans. The PSS offers a range of sound reductions from STC27 to STC58, depending on the project need and the design of the acoustic treatment.

The PSS is comprised of an industry-leading batten layer and a flexible acoustic barrier, both of which are fire resistant. The batten layer itself carries an R-value of 8.0, providing additional thermal efficiency.

The Pate Sound Shield is quick and easy to install and requires no acoustic caulk during the installation process. It can be applied inside a variety of Pate curbs, including plenum and non-plenum curbs, and can be installed at the Pate factory or by contractors in the field.

PRODUCT HIGHLIGHTS

- Sound reduction from 10 - 75 dB
- Ratings from STC27 STC58
- Thermally efficient insulation (R-value of 8)
- Fire and water resistant
- Acoustical tape replaces the need for caulking
- Fast, easy installation



PSS Technical Description

The Pate Sound Shield features an acoustical barrier with high specific gravity, allowing for maximum absorption of sound waves. This significantly reduces sound transmission from rooftop equipment to the interior of the building.

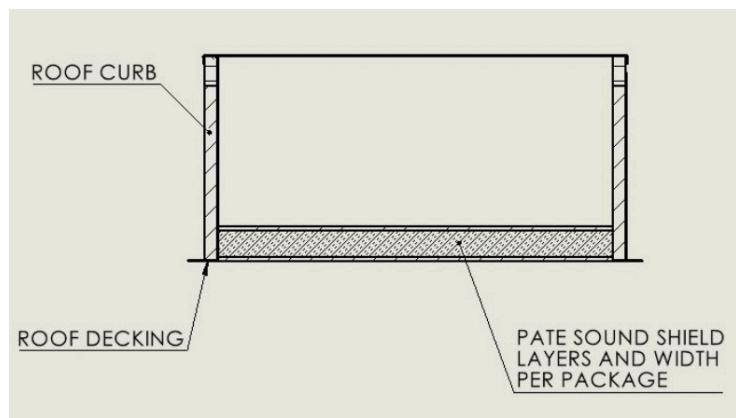
The acoustic treatment is combined with a thermally-efficient batten layer to offer both sound reduction and insulation value. The acoustic and batten materials are layered together in a customized combination to meet the specific sound reduction level (STC) required. The PSS delivers sound reductions of 10 to 75 dB, depending on the application, with ratings from STC27 to STC58.

The materials are both water and fire resistant, and do not require messy caulk for installation. Acoustical tape is provided that creates a secure, water-tight seal.

PSS Layers



Roof Curb With Sound Shield



Sound Curb Performance Testing—available in ratings for STC27 to STC58

NAME	STC	THICKNESS (in)	WEIGHT (lbs./ft ²)	TRANSMISSION LOSS (dB)					
				125 (Hz)	250 (Hz)	125 (Hz)	1000 (Hz)	2000 (Hz)	4000 (Hz)
SC-27	27	2	2.25	13	14	21	31	38	44
SC-34	34	3.5	2.5	10	26	42	53	56	62
SC-44	44	2.25	4.25	20	34	45	57	57	61
SC-53	53	6.25	10.75	29	51	58	67	66	75
SC-58	58	8.25	15	34	50	57	67	66	75

For more information about the Pate Sound Shield, or other Pate products, please visit us at patecurbs.com or email us at sales@patecurbs.com.