



Acoustical Seals

[BUILDING PRODUCTS, COPIERS & TRANSPORTATION]



Lower the Intensity with Schlegel Acoustical Seals

Effectively decreases noise

It's hard to find peace and quiet anymore. As more equipment is employed in everyday life, from computers and servers to printers and copiers to beepers and mobile phones, distractions are common place - affecting work and productivity.

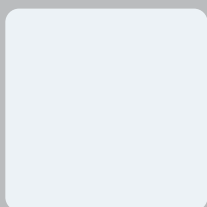
Schlegel Acoustical Seals effectively decrease noise entering and exiting equipment. Using our proven weatherstripping technologies, we've created a seal with a flexible durable polyethylene or vinyl cladding and a soft urethane foam core. These seals block noise transmission, so you can get a little quiet back into your life.

Unique Characteristics

- **Attenuation** Schlegel Acoustical Seals will make equipment quieter and help ensure compliance with noise emission standards mandated by OSHA, VDE and other regulatory bodies.
- **Resiliency** Schlegel Acoustical Seals readily return to their original shape due to their compression recovery characteristics. They'll still block sound transmission long after product has been installed.
- **Flexibility** The combination of flexible film outside and foam inside allows the seal to compensate for irregular surfaces and mating surface tolerance stack up. Because the seals are easily compressible, distortion of covers and panels is not a problem.
- **Durability** The tough yet flexible outer film cladding is UV stabilized, resists damage from abrasion, and won't crack, stiffen, shrink or detach from the foam. It also prevents deterioration of the seal under extreme environmental conditions and continued cycling.
- **Low Friction Coefficient** The cladding surface eases operation of any sliding parts.
- **Stability** The outer cladding resists elongation and gives the seal tensile strength far greater than common unclad foam strips.
- **Visual Appeal** Schlegel Acoustical Seals will enhance the visual appeal of your product. The outer film cladding is available in an assortment of colours with a lightly embossed finish.

Easy to Use

- **Installation** Schlegel System's Acoustical Seals are easily attached to mounting surfaces. We can apply a pressure sensitive adhesive compatible with the mounting surface material which will meet your requirements for peel strength, shear and operating environment. For extra design flexibility some profiles include an extruded plastic insert and can be attached by pressing into a groove or sliding into a T-slot.
- **Finishing** A full service supplier, Schlegel Systems will miter, die cut, or cut length according to your specifications.
- **Selection** A wide range of shapes and sizes are available as standard profiles. Choose from seals which are square, rectangular or asymmetrical in shape. Schlegel Systems also has complete development capabilities if a custom profile is required.

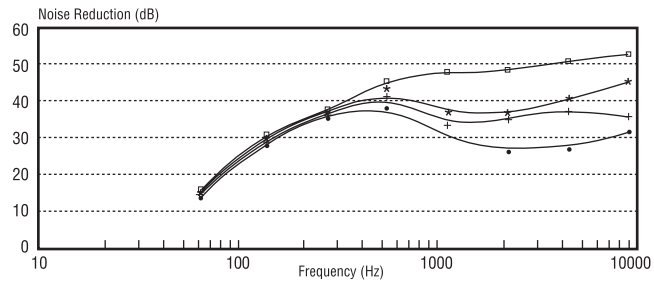


Attenuation Performance Information

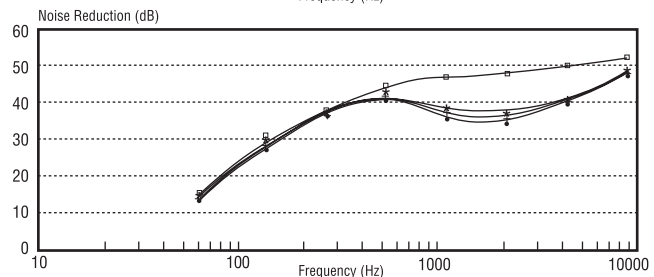
Attenuation approaching 50dB is possible depending on frequency, amount of compression and profile selected. This level of performance will help to alleviate excessive noise emissions.

The charts below show the acoustical attenuation performance of selected Schlegel Systems Acoustical Seal profiles. Tests were performed by an independant lab per the ASTM E596-90 and ASTM E413-87 procedures. The "Dux-Seal" shown on the charts is a clay like substance which was used as a reference.

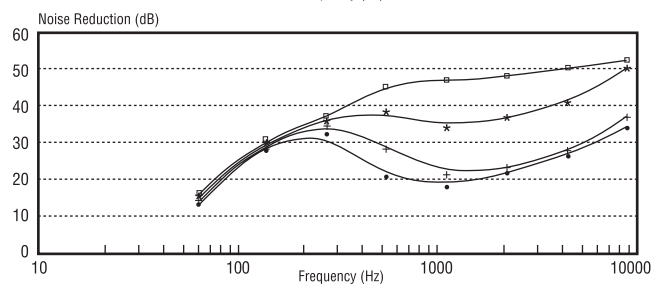
6mm x 6mm



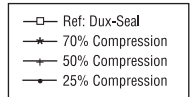
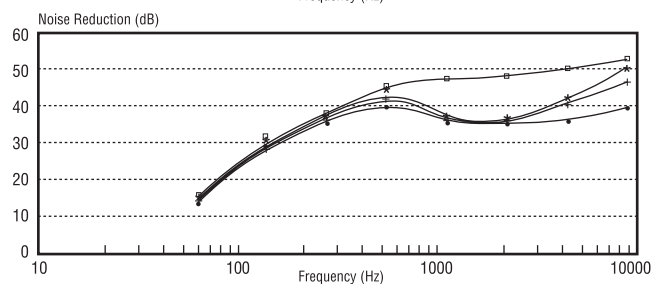
130mm x 190mm



Astragal



1/8 x 1/2



Schlegel Acoustical Seals Specification

MATERIALS:

Urethane foam bonded to an outer covering of polyethylene or vinyl film. Film colors include black, white, bronze and beige. Please contact your SCHLEGEL representative for color availability on standard profiles.

PROFILES:

Widths from 0.190" to 0.827" (4.83mm to 21.01mm), with capability to 1.000" (25.4mm).

Thickness from 0.125" to 0.500" (3.18mm to 12.70mm), with capability to 1.000" (25.4mm).

Over 20 standard profiles.

Angular and asymmetrical profiles available.

Profiles can be cut to length, mitered or formed to finished shape.

Standard Profiles:

These are six of our standard profiles. Over 20 profiles are available and custom designs can be made to your specifications. Most profiles can be ordered with double sided tape for ease of application. Contact your SCHLEGEL Systems representative for more information.

TYPICAL TEST DATA::

1. Compression load deflection at 25% compression
7.0± 2.4 lb/ft at 50% compression 12.0± 3.6 lb/ft.
2. Compression set at 50% deflection
15% max at 78 F (25.6 C)
25% max at 150 F (65.6 C)
3. Service temperature -40 F to 122 F (-40 C to 50 C) in continuous service 158 F (70 C) short term.
4. Low temperature flexibility -40 F (-40 C) no flex cracking.

Properties shown are of a typical urethane foam formulation. Some values may differ depending on profile size, shape and foam formulation.

Test 1,2,3 to ASTM D3574. Test 4 to Schlegel LP 1312. Profiles with optional pressure sensitive tape should be applied to clean, dry surfaces at temperatures above 32 F (0 C).

