

Sken NBR

www.anutone.com/membranes.htm

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Key Attributes

Sken NBR is a high-density, closed-cell, sound-damping foam from Anutone.

Sken NBR is a fire-retardant blend of poly vinyl chloride and nitrile butyl rubber which due to its extended properties is highly adaptable. It is installed on walls and ceilings to prevent induced vibration due to low frequency or impact.

It is very user-friendly. Just unpack, peel the protective film on the self-adhesive back, stick to the surfaces, roll firmly with a roller pin. No framework, no tools, no labour, no time loss, no cost overruns, no hassles!

Typical Applications

Sken NBR is applied on surfaces that require vibration damping.

The vibration may be induced by

- direct impact
- structureborne transmission
- airborne low-frequency propagation

The application of Sken NBR enhances the noise isolation characteristics of the applied surface and alters its natural frequency.

Features

- Density - 110 kgs/m³
- Size - Width 750 mm; Length 1500 mm
- Thickness - 2 / 4 / 6 mm
- Colour - Charcoal grey
- Backing - Self-adhesive
- High damping ratio and low natural frequency
- Low compression ratio and high resilience
- Excellent recovery and long life span
- Healthy - fibre-free, CFC-free, VOC-free
- Can be used with AnutoneSconz foam appliques for additional sound absorption

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Sken NBR is easy to handle and simple to install. No accessories or framework is necessary. Additional mechanical fastening is recommended where Sken NBR is applied inverted horizontal and for very high vibration situations. Mechanical fastening is with Stitch pins.

Logistics

Item (dxmm)	Nos./block	Blk wt (kgs)	Block size (mm)
110x4	60	30	1500x750x500

SKU - 1 block

Site Considerations

Ensure substrate surface is dry, clean and free from oil and grease. A solvent cleaner may be deployed. Sken NBR features a very strong adhesive backing. Once installed, it cannot be repositioned, and if removed, may cause damage to polish, paint, coating, plasterboard or other underlying surface finishes.



Typical damping applications include

- Metal roofing
- Acoustic doors
- Acoustic hoods & booths
- Machinery rooms
- Domestic appliances (white goods)
- HVAC Components
- Lightweight drywalls
- Flooring
- Structural decoupling (acoustical separation)

Aesthetics

Sken NBR boasts the smoothness of foam finish and sharp edge lines made possible by die-cutting from state-of-the-art foaming and finishing machines.

Design Considerations

Sken NBR can be cut to custom sizes at sites but edges may not appear smooth and sharp.

Sken NBR is fire-retardant. However, exposure to flame causes spread, fumes and smoke. Anutone assumes no liability for use or suitability of applications. Sken NBR must not be designed for damp or wet spaces.

Tech Performance

Sken NBR 4mm –

- Shore hardness - 3.9 'A'
- Compression set @ 20% - 29.19%
- Compression strength @ 20% - 0.02525 N/mm²; 0.2572 Kg/cm²
- Surface resistivity - 2.82x10¹⁴ Ohms
- Volume resistivity - 1.295x10¹³ Ohms
- Cell structure by microscope @ 25x - Closed
- Ash Content - 1.7%
- Thermal conductivity for 4mm - 0.045 Kcal/h.m°C
- Operating temperatures - -25°C to +125°C
- Maximum temperature - 150°C
- Softening point - 200 °C
- Melting point - 250 °C
- Sound Absorption - NRC upto 0.20 - ISO 354
- Ignitibility – Class 'P' - BS 476 Part 5
- Flammability - Class HF-1 - UL 94 Clause 12
- Flammability - Pass - IS 15061

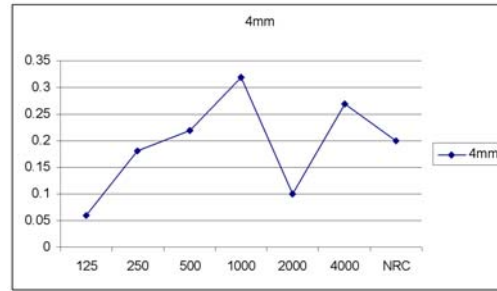
Warranty

5 years Surety - limited warranty - on the assembled system when installed to Anutone's specifications and maintained as per instructions.

Acoustical Parameters

Hz	125	250	500	1000	2000	4000	NRC
4mm	0.06	0.18	0.22	0.32	0.10	0.27	0.20

NOTE - Anutone has the capability, expertise and own infrastructure to perform custom acoustics tests for given design as per ISO 354 at its Scanslab and provide acoustic values of Sken NBR specific to installations.



Installation Guidelines

- Ensure substrate surface is dry, clean and free from oil and grease. Draw marklines with chalkstring or laser leveller as per approved drawings.
- If the Sken NBR needs to be custom cut to site conditions then the cutting operation must be performed prior to the backing film being peeled off.
- The backing film is peeled off from one corner and the sheet edge is lined up edge square to matching the marklines. Then gently peel off completely and press until the entire sheet is installed firmly.
- Apply uniform pressure with a roller to ensure close contact and escape of any trapped air.
- Regardless of the adhesive backing, the use of a mechanical fixing method, i.e. grab pins, is recommended when installed in inverted horizontal position and exposed that is also subjected to high vibration. 9 Stitch pins per square metre of panel installation is recommended.
- Stitch pins consist of a self adhesive base with a pointed spike flower for invisible installation or a self-locking washer arrangement that is visible and slid over the spike after the sheet is installed.

Anutone Sites

For the latest update on our projects list please visit www.anutone.com/projects or contact Squad.

Custom Methodology

The installation of Sken NBR can be custom-designed to suit specific or special project requirements. The methodology includes the entire value-chain - site evaluation, criteria definition, noise spectra capture, design optimisation, system specs, systems engineering & integration, project management, testing & site validation.

Ordering Information

Interior application, Installation application, Type, Surface geometry, Density, Dimensions (incl thickness), Packing



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