

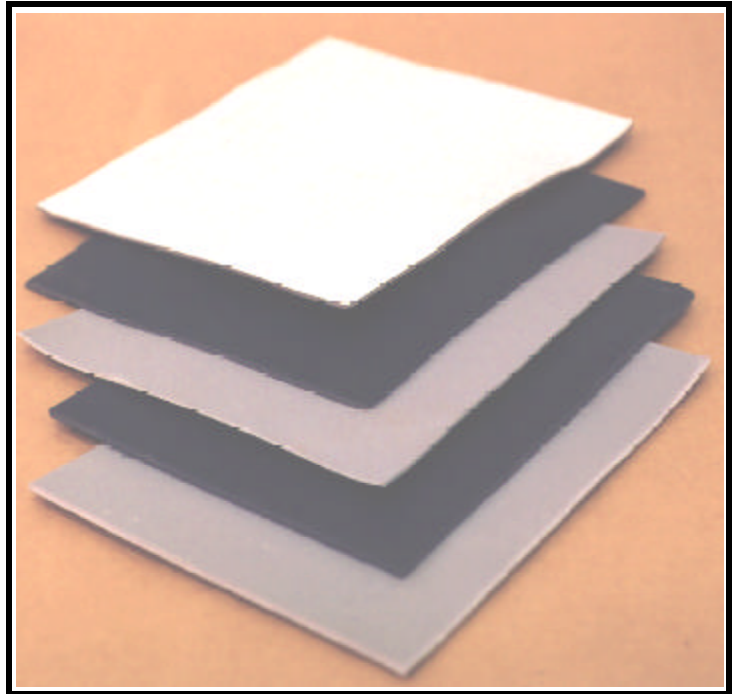


# Model FNB (Flexible Noise Barrier)

Model FNB Flexible Noise Barriers are limp, tough, high mass vinyl loaded with lead free fillers to increase performance. They resist the passage of sound waves and reduce noise transmission.

The barrier material is available in 0.50 and 1.00 pound per square foot densities with acoustical STC ratings of 21 and 27 respectively. Higher STC levels can be achieved by layering the material.

Standard configurations include non-reinforced, reinforced and clearview. Non-reinforced barriers are suitable for non-abusive applications requiring low tensile strength. For more rugged applications, a reinforced barrier offers greater durability and tensile strength. Clearview barriers are tough water-clear material used where visual access must be maintained. FNB materials are available in roll form, cut lengths and custom die cut parts.



## Benefits:

- .. **Durable** - offers oil and chemical resistance. Will not rot, shrink, or cause metal corrosion. Product weathers very well.
- .. **Multiple Styles** - available to meet stringent fire requirements (Class 1).
- .. **Environment Safe** - Lead and asbestos free.
- .. **High Performance** - Sound Transmission Loss (STC) up to 27.
- .. **Custom Designs** - die cut for your applications.
- .. **Maximum Flexibility** - Limp, flexible, formable, moveable and reusable. Products can be field modified and are very versatile.
- .. **Fire Safe** - Low smoke configurations available.
- .. **Specialty Features** - Can be configured into custom jackets, secured in place with velcro type fasteners. Clearview barrier material can be incorporated in the Model QCC curtain systems for viewing windows. Refer to Model QCC Data Sheet.
- .. **Cleanable** - May be cleaned using a mild soap and water solution.
- .. **Wide Temperature Ranges** - from -40 to 225°F

## Applications:

- .. *Pipe and Duct Wrap*
- .. *Wall and Door Septums*
- .. *Rooftop Equipment Barriers*
- .. *O.E.M. Applications*
- .. *Machinery Covers*
- .. *Cross Talk Barriers*
- .. *Curtain Enclosures*
- .. *Engine Housing Liners*
- .. *Custom Die Cut Parts*
- .. *Area Dividers*

*NSTI designs custom noise control solutions for your specific applications.*



**Noise Suppression Technologies, Inc.**  
**Model FNB - Performance Data**

**FNB-50C 1/2 PSF** Clearview barrier material, non-loaded and non-reinforced. Clearview is very limp, tough and water clear. Available in 48" x 20 yard rolls.

**FNB-100C 1 PSF** Clearview barrier material, non-loaded and non reinforced. Clearview is very limp, tough and water clear. Available in 48" x 20 yard rolls.

**FNB-50B 1/2 PSF** limp barrier material, non-reinforced and loaded with barium sulfate. Available in black color, in 54" x 20 yard rolls.

**FNB-100B 1 PSF** limp barrier material non-reinforced and loaded with barium sulfate. Available in black color in 54" x 20 yard rolls.

**FNB-50RB 1/2 PSF** limp barrier material, reinforced with a fiberglass screen, and loaded with barium sulfate. Available in grey color in 54" x 20 yard rolls.

**FNB-100RB 1 PSF** limp barrier material, reinforced with a fiberglass screen, and loaded with barium sulfate. Available in grey color in 54" x 20 yard rolls.



**Model FNB can be configured with velcro type fasteners, grommets and a quilted absorber on one or both sides.**

Sound Transmission Loss, dB

Product	Weight							
	Sq. Ft.	125	250	500	1000	2000	4000	STC
FNB-50C	0.50	11	12	15	20	26	32	21
FNB-50B	0.50	11	12	15	20	26	32	21
FNB-50RB	0.50	11	12	15	20	26	32	21
FNB-100C	1.00	15	19	21	28	33	37	27
FNB-100B	1.00	15	19	21	28	33	37	27
FNB-100RB	1.00	15	19	21	28	33	37	27

Product Properties:

Product	FNB-50C	FNB-50B	FNB-50RB	FNB-100C	FNB-100B	FNB-100RB
Wt.Lbs./Sq. Ft.	0.50	0.50	0.50	1.00	1.00	1.00
Tensile Strength Lbs./In.	210	55	300	400	105	300
Tear Strength	70	10	100	140	20	100
<b>Flammability</b>						
Flameout, Sec.	3	3	3	3	0	0
Afterglow, Sec.	0	0	0	0	0	0
Char Length, In.	0.5	1.7	0.2	0.5	1.7	0.2

**Specifications:** Barrier material shall meet the sound transmission loss and physical properties performance and the flammability standards listed in this brochure.

Barrier material shall have a minimum continuous operating temperature range from -40° to +225°F, be resistant to water, oils, weak acids, alkalis, and fungi, and have excellent weather resistance.

*NSTI believes the information contained herein to be accurate as of the publication date. Actual product performance may vary based on specific application conditions.*

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