

## Sound Absorption Baffles & Wall Panels



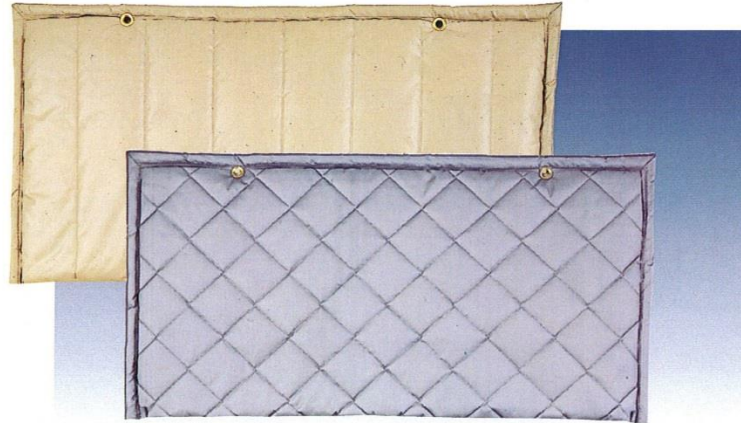
### Features:

- Durable Quilted Fiberglass style
- Economic Polywrapped style
- FDA approved Sanitary Baffle style
- Introduce soft, sound absorption materials into hard reflective environment
- Effective, economic method of reducing reverberation
- Ambient noise reduction up to 10 decibels
- For industrial plants, warehouses, food processing facilities, gymnasiums, auditoriums, commercial and architectural applications
- Light weight and self-supporting with no sharp corners
- May be installed by in-house personnel
- Easily relocated to other areas
- Optional white color reflects light to working areas and increases ambient lighting
- Requires no maintenance, but can be washed or steam cleaned for hygienic or aesthetic reasons
- Can be custom tailored for specific applications

## Quilted Fiberglass Baffles & Wall Panels

dB Engineering's Industrial Division Quilted Fiberglass line of Overhead Baffles & Wall Mounted Sound Absorption Panels feature a durable vinyl-coated-fiberglass-cloth facing quilted to a one-inch or two-inch thick fiberglass. These Class A Flammability Rated baffles, offering high NRC ratings, are available in a number of colors and stitch patterns and can be custom fabricated to any size required.

dB Engineering's "QFA" Baffles are also available with either a decorative fabric facing or nylon ribs top facing. These attractive sound absorbers offer a wide range of colorful options which can be custom tailored for any commercial or architectural application.



### Physical Properties:

- Gray, tan, white or black are standard vinyl-coated-fiberglass-cloth facings
- Meets Class A Flammability Rating (ASTM E-84)
- Flame Spread: 17.66
- Smoke Density: 223.75
- Brass grommets installed for hanging
- Continuous service temp.: -20°F to 180°F
- 2 lb. /cu. Ft. density fiberglass
- Decorative fabric and nylon ribs top facings available in over 60 colors
- Quilted diamond patterns or straight-stitch patterns available
- Custom sizes available

### Acoustical Data:

- Quilted Fiberglass Styles,
  - QFA-4 Baffles: 2' x 4' x 1" thick (nom.)
  - QFA-10 Baffles: 2' x 4' x 2" thick (nom.)

### Sound Absorption Coefficients - Sabin's per Baffle

Style	One-Third Octave Band Center Frequency (Hz)						NRC
	125	250	500	1000	2000	4000	
QFA-4	.59	2.43	7.17	8.66	8.82	6.71	6.75
QFA-10	.91	6.07	8.25	8.88	6.65	5.58	7.45

Test method: ASTM (423-81)



Clearer and easier communication was achieved in this manufacturing plant with QFA-10 Overhead Sound Absorption Baffles and Sound Absorption Wall Panels shown with optional straight-stitch pattern and colored vinyl facing.

## Sanitary Sound Absorption Baffles & Wall Panels

dB Engineering's Industrial Division Sanitary Overhead Baffles & Wall Mounted Sound Absorption Panels are an effective, economic method of reducing reverberant noise in areas where sanitary conditions and USDA or FDA approved products are mandatory. dB Engineering uses the latest in film technology to create economic products that are durable, chemically resistant and dimensionally stable.



These Sanitary Ceilings Baffles and Wall Panels are tough enough to be washed down and maintain high NRC sound absorption values. Two baffle styles are available; Type "A" for standard duty incorporates a 1 1/2" 1.6 lb. /cu. ft density fiberglass core. Type "B" features additional internal reinforcement at each grommet to withstand daily high pressure, hot water wash down in addition to a higher density (3lb. /cu. Ft.) 2" thick fiberglass core for improved acoustical performance.

### Physical Properties

- FDA Approved, USDA listed
- Washable
- Temperature Range: -40°F to 200°F
- Rip resistant facing
- Dimensionally stable
- Stain Resistant
- Meets health and sanitary standards
- Water tight seal on all edges
- Light reflective white facing
- Custom sizes available

### Applications:

- Food processing plants
- Meat packaging plants
- Poultry processing plants
- Pharmaceutical facilities
- Clean room
- Hospitals
- Animal hospitals, kennels
- Bottling plants, canneries
- Cafeterias
- Institutional kitchens
- Swimming pools
- Plus O.E.M. applications

### Acoustical Data:

- Sanitary Baffle,
  - Type "A": 2' x 4' x 1 1/2" thick
  - Type "B": 2' x 4' x 2" thick

### Sound Absorption Coefficients –Sabins per Baffle

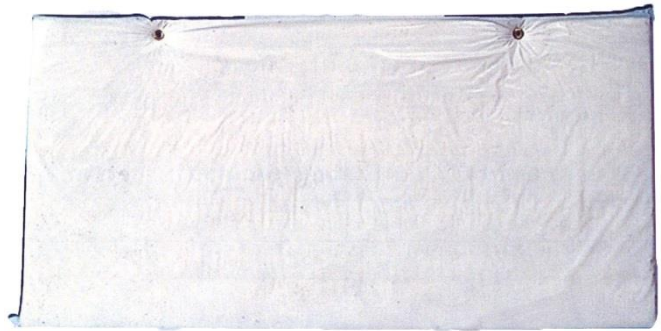
One-Third Octave Band Center Frequency (Hz)							
Sanitary Baffle	125	250	500	1000	2000	4000	NRC
Type "A"	1.15	5.26	8.0	10.9	9.34	5.5	8.4
Type "B"	1.00	8.09	14.65	15.72	12.68	4.93	12.8

Test method: ASTM C423-90a and C423-81



## Polywrapped Baffles

dB Engineering's Industrial Division Polywrapped Baffles are a heat-sealed polyethylene bag encompassing a sound absorptive fiberglass fill. Standard size is 2' x 4' x 1½" thick. Grommets are installed for suspending from wire or cable ties. White or black facings are standard, additional colors are available. These efficient, economic baffles offer a high NRC rating at an extremely low cost.



### Physical Properties:

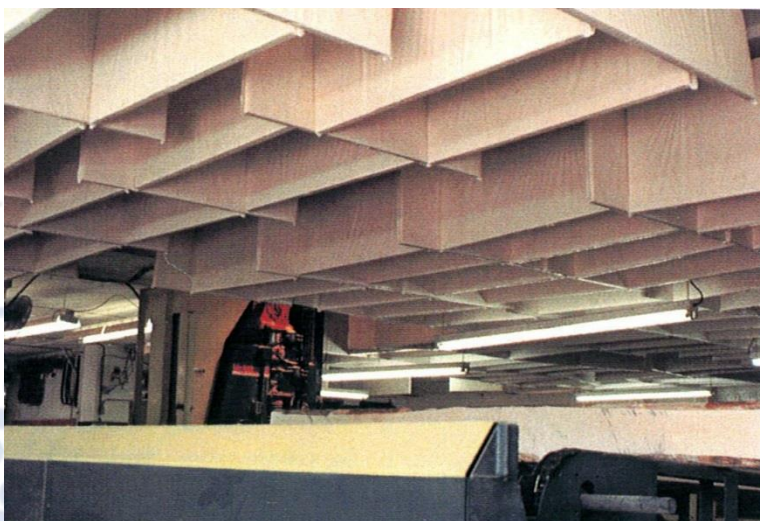
- Class A Flammability Rating (ASTM E-84)
  - Flame Spread: 8
  - Smoke Density: 0
- 1.6 lb/cu. Ft. density, 1½" thick fiberglass core
- Light weight (2 lbs. each)
- Light reflective white poly facing
- Alternate black poly facing
- Standard baffle has two grommets on one 4' side
- Optional spacing or additional brass grommets available

One-Third Octave Band Center Frequency (Hz)							
Style	125	250	500	1000	2000	4000	NRC
Polywrapped	2.1	6.5	10.7	14.1	12.7	8.1	11.0

Test method: ASTM C423-90a and C423-81

### Acoustical Data:

- Polywrapped Baffle, 2' x 4' x 1½" thick



More than 600 Polywrapped Ceiling Baffles reduced overall noise levels by 8 dB(A) in this wood working facility.