

**ELEPHANT**  
Gypsum Board

**Elephant EchoBloc**

Sound Absorption Gypsum Board



**EchoBloc** is the Sound Absorption Gypsum Board, the innovative way of ceiling and wall/partition design with graphic pattern, beauty and modern style. EchoBloc gives a very high performance in absorbing sound and can be harmoniously used with Standard and Technical Boards.

**EchoBloc** is perforated with round hole and square hole. Bonded with "Glass Mat" on the back side, enhancing the sound absorption capability.

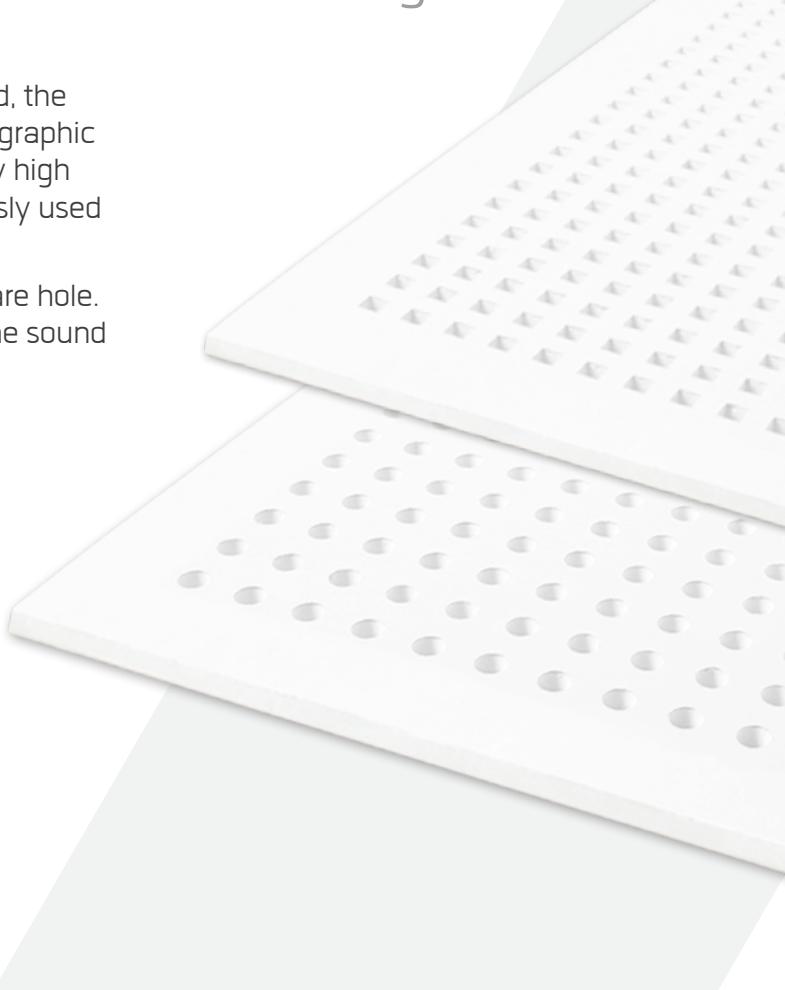
### Properties

- ◆ Provides sound absorption with NRC 0.65–0.80 when install with "Glass Wool" insulation.
- ◆ Modern design with graphic pattern.
- ◆ Can be applied for stepped ceiling.
- ◆ Easy to install (same as regular wall/partition and concealed ceiling system installation).

**Size** : 1200x2400 mm.

**Thickness** : 12 mm.

**Edge** : Tapered Edge



### Recommended Usage Areas

Mainly used in wall and ceiling wherever there is a need to increase sound absorption or achieve desired decorative finish.

#### Music and Movie Rooms



EchoBloc helps to increase better sound quality of watching movie and listening to music as Home Theater, Music Studio, Movie Theater.

#### Noisy Areas



EchoBloc helps to absorb people's voice in crowded area such as Hotel, Shopping Center, Meeting & Seminar Room, Restaurant, Office.

#### Huge Space in Building Area



EchoBloc helps to decrease echo sound in a big hall and wide space such as Library, Computer Center, Hospital, Airport, Dharma Center, Conference & Seminar Center, Exhibition Hall, Theater.

# Available Patterns

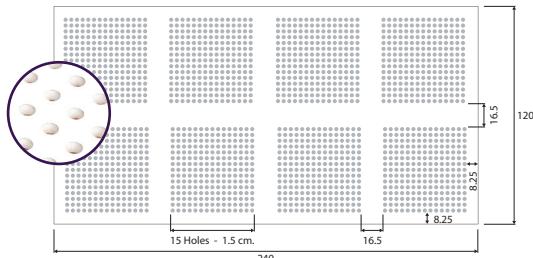
## Board Pattern

## Characteristic

## Sound Absorption (NRC)

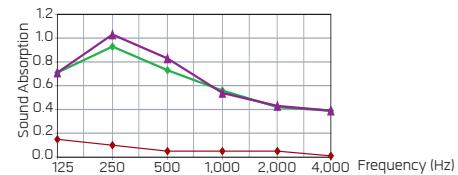
EchoBloc R-8

(Round Hole)



- Size 1200x2400x12 mm.
- Round hole shape punching 8 groups/sheet
- Rate of perforation 11%
- Diameter of punching hole 15 mm.

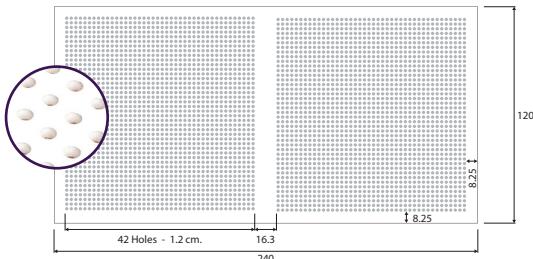
\*NRC 0.65 – 0.70



Frequency (Hz)	125	250	500	1,000	2,000	4,000	
Plenum 10 cm.	0.71	1.03	0.83	0.54	0.43	0.39	NRC = 0.70
Plenum 30 cm.	0.71	0.93	0.73	0.56	0.42	0.39	NRC = 0.65
Standard Board	0.15	0.10	0.05	0.05	0.05	0.01	

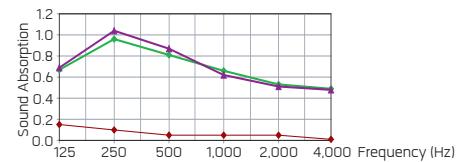
EchoBloc R-2

(Round Hole)



- Size 1200x2400x12 mm.
- Round hole shape punching 2 groups/sheet
- Rate of perforation 13.9%
- Diameter of punching hole 12 mm.

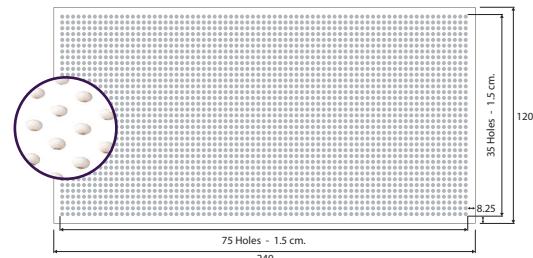
\*NRC 0.75 – 0.80



Frequency (Hz)	125	250	500	1,000	2,000	4,000	
Plenum 10 cm.	0.69	1.04	0.87	0.62	0.51	0.48	NRC = 0.80
Plenum 30 cm.	0.67	0.96	0.81	0.66	0.53	0.49	NRC = 0.75
Standard Board	0.15	0.10	0.05	0.05	0.05	0.01	

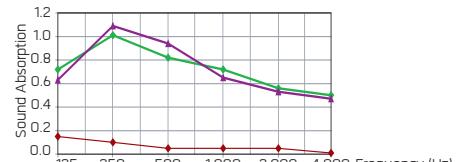
EchoBloc R-1

(Round Hole)



- Size 1200x2400x12 mm.
- Round hole shape punching 1 group/sheet
- Rate of perforation 16.1%
- Diameter of punching hole 15 mm.

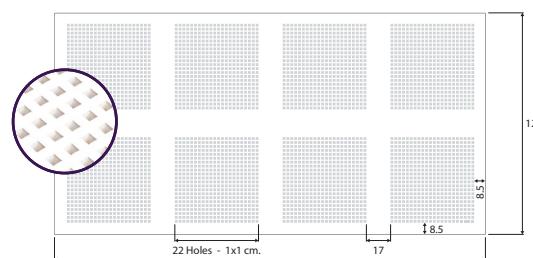
\*NRC 0.80



Frequency (Hz)	125	250	500	1,000	2,000	4,000	
Plenum 10 cm.	0.63	1.09	0.94	0.65	0.53	0.47	NRC = 0.80
Plenum 30 cm.	0.72	1.01	0.82	0.72	0.56	0.50	NRC = 0.80
Standard Board	0.15	0.10	0.05	0.05	0.05	0.01	

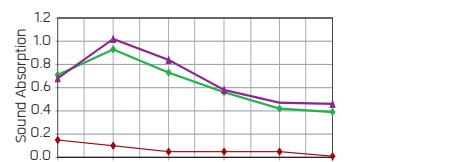
EchoBloc S-8

(Square Hole)



- Size 1200x2400x12 mm.
- Square hole shape punching 8 groups/sheet
- Rate of perforation 13.4%
- Size of a hole 10x10 mm.

\*NRC 0.70–0.75



Frequency (Hz)	125	250	500	1,000	2,000	4,000	
Plenum 10 cm.	0.68	1.02	0.84	0.58	0.47	0.46	NRC = 0.75
Plenum 30 cm.	0.62	0.96	0.72	0.60	0.49	0.46	NRC = 0.70
Standard Board	0.15	0.10	0.05	0.05	0.05	0.01	

- Sound absorption test following NF EN20354 and ISO/DIS 11654
- Applicable with sound insulation "NoizeZoft 50 mm."
- All the above NRC rating are with glass wool insulation.

# Installation Direction

- To increase sound absorption capability, putting insulation at the back side of EchoBloc.
- The installation is as easy as installing the concealed ceiling or general wall/partition.
- To arrange the pattern of EchoBloc, adjust the board by aligning the punctured side with the beam. This will make it be more convenient to screw in.
- EchoBloc can be modified and its plastering joint can be performed smoothly as the same way as standard gypsum board.
- For smooth finishing, the sheet can be sawed and sanded.
- To coat the joint, use Elephant Gypsum Jointing Compound with Cotton Tapes.
- All other gypsum accessories can be installed with EchoBloc.
- The position of lighting system, AC outlet and other accessories should be located in advance so that you can plan the beam and the sheet structure for more appealing pattern.
- EchoBloc can be painted regularly by using the roller. It is not necessary to paint into the punctured hole of the board.



## Specification

### Pattern R-8

- Size 1200x2400x12 mm.
- Round hole shape punching with diameter of 15 mm.
- Rate of perforation 11%
- Glass mat is laminated on the back side of board to achieve NRC rate of 0.65-0.70.
- Install EchoBloc with ProLine Concealed Ceiling Metal Profile, Elephant Brand, 0.52 mm. thickness, size 37x15 mm., 4 m. length, certified by TIS 863-2532. Material made from Hot-dipped Galvanized Steel certified by JIS G3302-1987 along with hanging system from manufacture standard.

### Pattern R-2

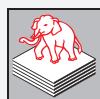
- Size 1200x2400x12 mm.
- Round hole shape punching with diameter of 12 mm.
- Rate of perforation 13.9%
- Glass mat is laminated on the back side of board to achieve NRC rate of 0.75-0.80.
- Install EchoBloc with ProLine Concealed Ceiling Metal Profile, Elephant Brand, 0.52 mm. thickness, size 37x15 mm., 4 m. length, certified by TIS 863-2532. Material made from Hot-dipped Galvanized Steel certified by JIS G3302-1987 along with hanging system from manufacture standard.

### Pattern R-1

- Size 1200x2400x12 mm.
- Round hole shape punching with diameter of 15 mm.
- Rate of perforation 16.1%
- Glass mat is laminated on the back side of board to achieve NRC rate of 0.80.
- Install EchoBloc with ProLine Concealed Ceiling Metal Profile, Elephant Brand, 0.52 mm. thickness, size 37x15 mm., 4 m. length, certified by TIS 863-2532. Material made from Hot-dipped Galvanized Steel certified by JIS G3302-1987 along with hanging system from manufacture standard.

### Pattern S-8

- Size 1200x2400x12 mm.
- Square hole shape punching with 10x10 mm. per hole.
- Rate of perforation 13.4%
- Glass mat is laminated on the back side of board to achieve NRC rate of 0.70-0.75.
- Install EchoBloc with ProLine Concealed Ceiling Metal Profile, Elephant Brand, 0.52 mm. thickness, size 37x15 mm., 4 m. length, certified by TIS 863-2532. Material made from Hot-dipped Galvanized Steel certified by JIS G3302-1987 along with hanging system from manufacture standard.



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**The Siam Gypsum Industry (Saraburi) Co., Ltd.**

Pakin Building, 5<sup>th</sup> floor, 9 Ratchadapisek Road,  
Dindang, Bangkok 10400 Tel. : (+66) 2-555-0000

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