

AURALIS

THE ART OF SILENCE

WOODEN DIFFUSER

- DEFECT OF PLANE REFLECTION

If someone enjoy the music in a rectangular hall, the sound he heard is harsh and still. It is sound frequency dyeing

- PRODUCT FEATURE

Wooden diffuser is an anomalous plane design which can bring diffusion while refection. The sound is sonorous. And reverberation is from different direction to the audience. It can greatly improve the acoustic environment in the hall.

- PRINCIPLE OF DIFFUSION

Wooden diffuser wd series is based on QRD diffusion principle. QRD diffusion is quadratic residue theory. The diffusion boards are composed of stops of different depths based on calculations as per the quadratic residue theory. The Sound energy enters steps and is then gradually released at different time. The result is that the peaks and valleys are smoother, forming a more balanced acoustic environment. The diffusion boards are used not only on ceiling but also on the side walls and the walls behind loudspeakers and behind the listening positions. The more the diffusion materials, the more can people feel that the sense of space and the natural and graceful effect of high frequencies in the music places. The details of music can also be shown well.

APPLICATION

Concert halls, home theaters, opera halls, exhibition halls, studios, film and television halls, and other public buildings of indoor ceiling and interior wall decoration.

FEATURES

- Unchanging shape
- High strength
- Elegant color
- Good decorative effect
- Strong three-dimensional effect
- Easy to install

Various kinds of wood diffuser and can be customized



SPECIFICATIONS OF SEVERAL DIFFUSERS

- SNA- D16



SPECIFICATIONS

Name	Solid Wood Acoustic Diffuser
Base materials	Solid wood
Finish	PU Painting
Features	SNA-D16 diffuser can restore sound space feeling and greatly improve sound quality in hall. It can raise sound environment clear satiation and three-dimensional.
Eco-friendly	Formaldehyde emission reaches national standard E1
Common size	W 100* L 2400 *T 27mm

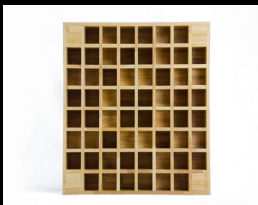
- SNA- D1



- SNA – D2



- SNA – D3



SPECIFICATIONS

Name	QRD Diffuser
Base material	Rubber solid wood/ MDF
Finish	Pu painting/ Melamine/ Veneer
Model	SNA-D1/ SNA-D2/ SNA-D3
Features	D1 D2 D3 diffuser scattered the incidence sound to avoid echo and stationary wave. It makes sound field uniform distribution and improve sound environment. Diffusion frequency range D1(500HZ-2000HZ); D2(615HZ-1229HZ); D3(675HZ-2150HZ)
Eco-friendly	Non-formaldehyde
Common size	W600*L600/1200/1800mm*T100mm

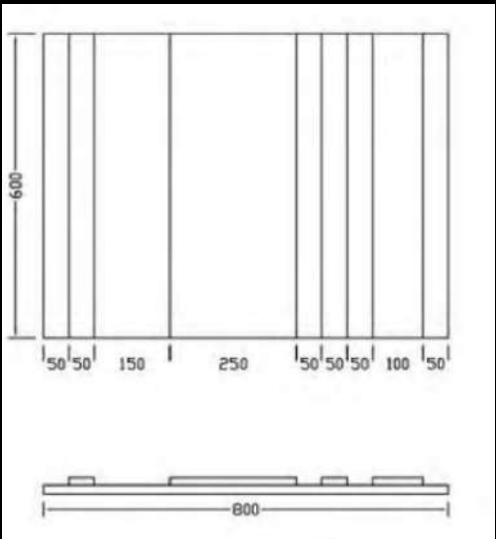
- SNA- D5



SPECIFICATIONS

Name	D5 ORD Diffuser
Base material	Rubber solid wood
Finish	Pu painting/ Melamine/ Veneer
Model	SNA-D5
Features	D5 diffuser can restore sound space feeling and greatly improve sound quality in hall. It can raise sound environment clear satiation and three-dimensional.
Eco-friendly	Non-formaldehyde
Common size	W300*L1800/2400mm*T70mm

- SNA- D8



SPECIFICATIONS

Name	Diffuser
Base material	Rubber solid wood/ Fire-resistant MDF
Finish	Pu painting/ Melamine/ Veneer
Model	SNA-D8
Features	D8 diffuser can reflect sound wave to audience, avoid sound dyeing and diffuser is mainly placed in proscenium opening and two side stationary wave.
Eco-friendly	Non-formaldehyde
Common size	As per customer request

- MELAMINE ACOUSTIC PANEL MA SERIES

13-3



28-4



SPECIFICATIONS

Name	Diffusion Acoustic Panel
Base material	MDF
Finish	Pu painting
Model	13-3/ 28-4
Features	Triangle or cylinder groove in surface, perforated in back with fire-resistant acoustic tissue, painting finish.
Eco-friendly	Formaldehyde Class reach E1
Common size	W128*L2440*T21/25mm

INSTALLATION METHODS

- SOLUTION 1

Shoot nail directly fix to wall or ceiling



- SOLUTION 2

Structural adhesive + double-sided adhesive

- Diffuser board sticky on the back of a few double-sided adhesive, plastic structure hit 4 angles.
- Double-sided adhesive begin to play a role, a few hours later, the structural adhesive completely dry, becoming very strong.



- SOLUTION 3

Use the staggered pendant method.

- Shoot nail to the wood strip on wall, and shoot nail to the wood strip back on diffuser board.
- Put the diffuser board on the wood strip.

