



Transwall

ACOUSTIC DOME

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Engineered to control sound without restricting airflow

A simple, passive acoustic canopy designed to reduce sound transfer through return air grilles.

Acoustic Dome is a simple, passive solution designed to reduce sound transfer through return air grilles in open plenum environments. Installed directly above the grille, it helps contain airborne sound before it spreads between adjacent spaces—improving speech privacy without disrupting airflow or ceiling design.

Designed to integrate seamlessly with Transwall systems, Acoustic Dome supports a cohesive architectural approach while delivering reliable, low-maintenance acoustic performance. The acoustic dome works well in:

- Private offices
- Conference rooms
- Healthcare environments
- Education spaces
- Open office retrofits

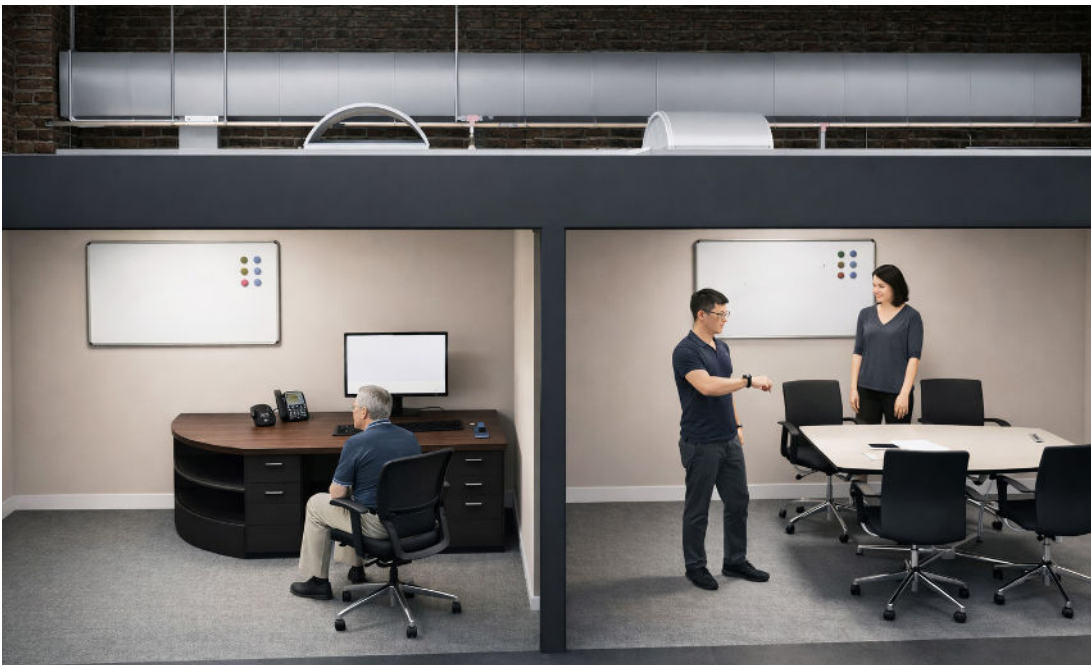
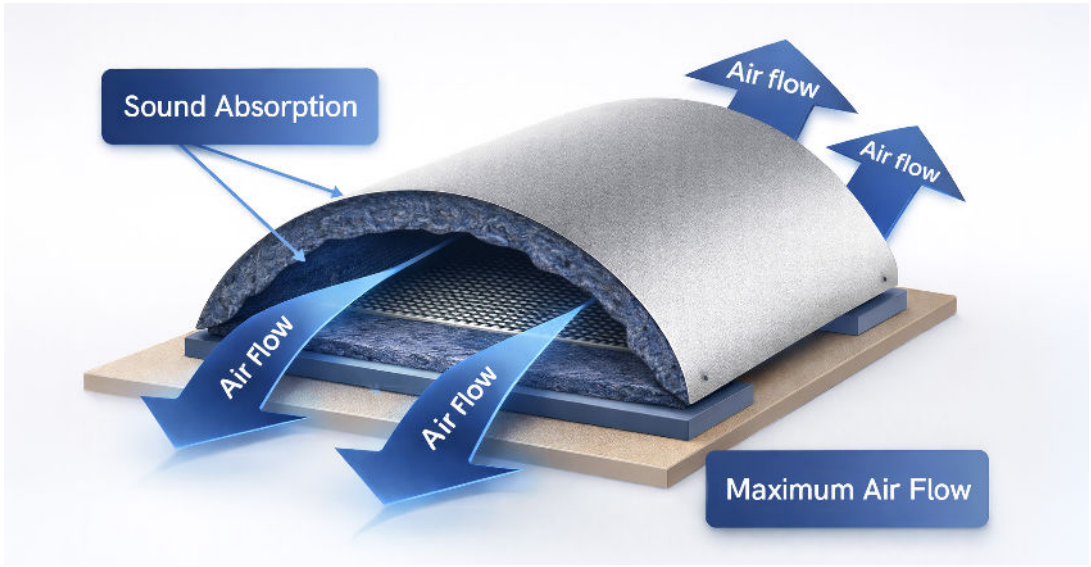


THE PROBLEM: Airborne sound doesn’t stay contained

In open plenum ceilings, sound travels freely through return air grilles—moving between private offices and open spaces. This results in distractions, reduced speech privacy, and inconsistent acoustic performance throughout the workspace.

THE SOLUTION: Stop sound at the source, without impacting HVAC performance.

Acoustic Dome is designed to absorb airborne sound directly above the return air grille—before it enters the plenum and spreads to adjacent spaces. By combining a formed metal canopy with recycled cotton acoustic material, the system reduces sound transmission while maintaining proper airflow.



Proven to improve acoustic performance

Independent testing demonstrates that installing Acoustic Dome over return air grilles improves ceiling attenuation and reduces sound transfer between spaces. By addressing one of the primary pathways for airborne sound, the system enhances speech privacy and overall workplace comfort.

- Designed to reduce sound transmission
- Improves speech privacy between spaces
- Absorbs sound at the source
- Compact, efficient installation

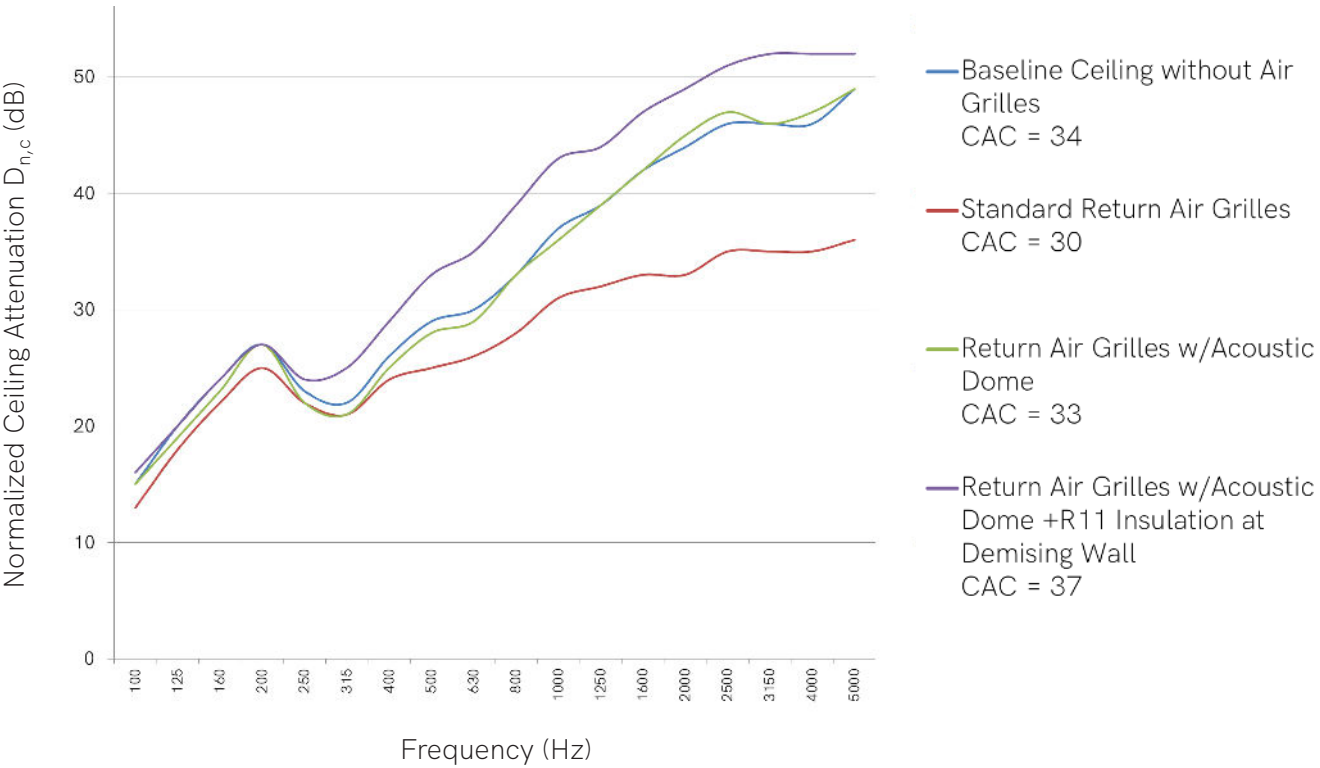
Ceiling Attenuation Class (CAC)

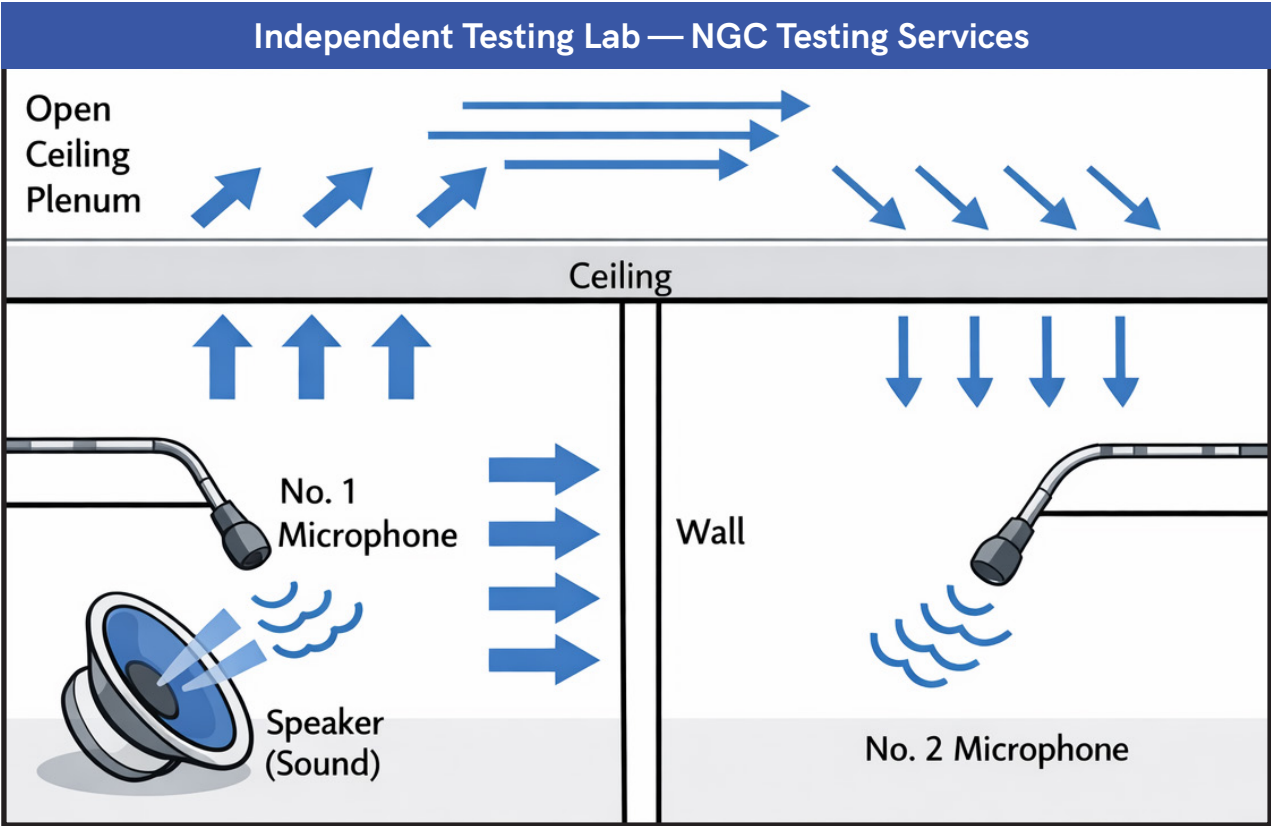
Determines sound transmission loss through a ceiling between rooms with a common plenum.

An independent test lab performed four CAC test with the following results:

Test	Conditions	CAC
1	Ceiling only (baseline)	34
2	Ceiling with return air grilles	30
3	Ceiling with Acoustic Domes installed onto return air grilles	33
4	Ceiling with Acoustic Domes installed onto return air grilles & single row of R11 insulation on each side of the demising wall	37

Ceiling Attenuation Class — Consolidated Test Results





Recycled Cotton Acoustic Material Specs		
• Excellent Noise Absorption • Class A Fire Rating • Reduces Heat Loss/Gain • No Formaldehyde • Resists Microbial Growth • Low Air Resistance • No Itch or Skin Irritation		
Properties	Performance	Test Method
Operating Limits Temperature Velocity	Maximum 250° (121°C) 5000 fpm	ASTM C 411 ASTM C 1071
Surface Burning Characteristics (Fire Hazard Classification)	Flame Spread Max: 25 Smoke Developed Max: 25 Class A / Class 1	ASTM E 84 UL 723 NFPA 255
Corrosion Resistance	Pass - No Growth	ASTM G 21 ASTM C 1338 ASTM C 739
Bacteria Resistance	Pass - No Growth	ASTM G 22
Water Vapor Absorption	Less than 1% by Weight	ASTM C 1104

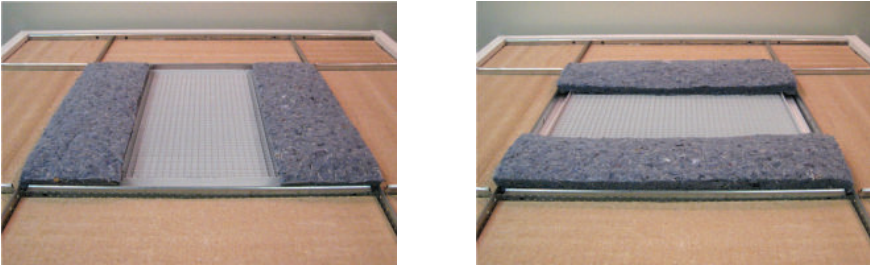
Designed for sound control—not sound masking

- Passive, low-tech solution
- Easy to install and reposition
- Compatible with new and retrofit applications
- Maintains proper airflow
- Environmentally responsible materials
- No moving parts or maintenance required

How to Install the Acoustic Dome

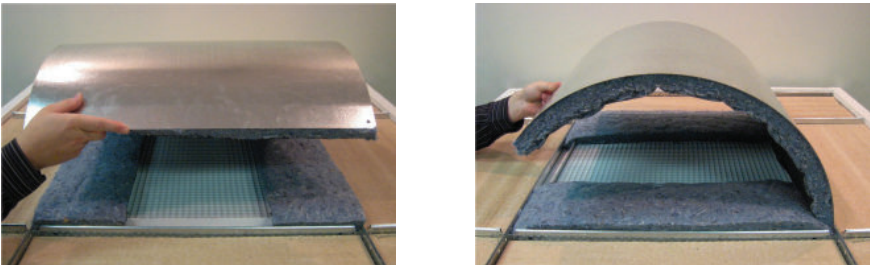
Step 1

Cut liner strips to size and lay on sides of grid/grille with fabric/black side down



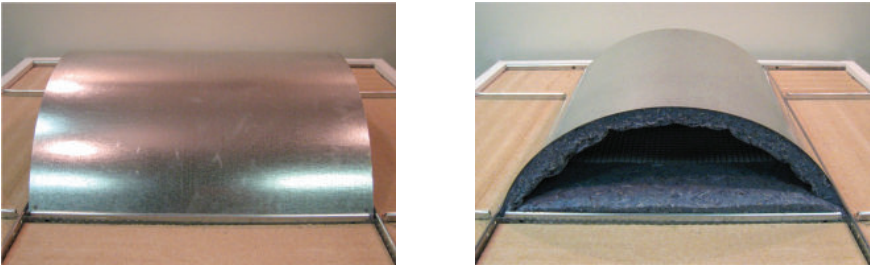
Step 2

Install Acoustic Dome with arced edge parallel to liner strips



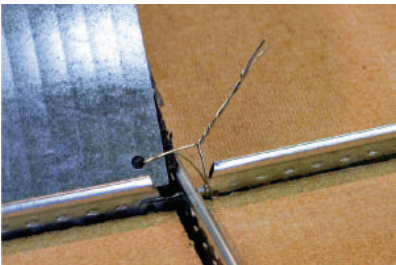
Step 3

Tuck Acoustic Dome edges into lip of grid/grille



Step 4 (Optional)

Acoustic Dome can be secured with wire ties to avoid ceiling bounce



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SPECIFY ACOUSTIC CONTROL WITH CONFIDENCE.

Acoustic Dome provides a direct, passive approach to controlling sound transfer in open plenum environments—without compromising airflow, aesthetics, or system performance.

Designed for seamless integration and reliable results, it offers architects and designers a practical way to improve speech privacy across a wide range of applications. Contact us to discuss your project.