GypSorb

Architectural Sound Management

Perforated Acoustic Gypsum Board For Walls and Ceilings

Mt. Hood Community College Early Childhood Learning Center - Photography by Lincoln Barbour Mahlum Architecture

Sustainable Simplicity in Design

Bellevue High School -
Photography by Benjamin Benschneider
NAC Architecture

Dramatic and Beautiful Architectural Hallmark

Raisbeck Aviation High School -
Photography by Benjamin Benschneider
Bassetti Architects

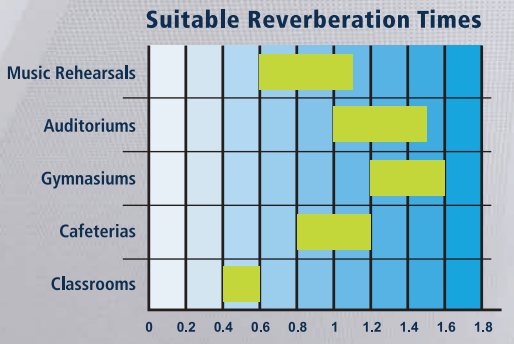
Adaptable Acoustic Performance

When designing public spaces, good acoustics help create a comfortable environment. It is important that low frequencies are well absorbed, so that excessive noise does not distract learning. At the same time, the high consonant frequency range should be well reflected since this is essential for good speech intelligibility.

In restaurants, large glass facades and hard materials on floors and walls amplify noise, therefore it is important, even in lively restaurants, to spread and dampen ambient sound. The degree to which sound is reflected or absorbed is described as "reverberation time", or echo within a room.

The £\w rating, or NRC to a more limited extent, of a product describes how well it absorbs sound and therefore controls the reverberation time.

By installing GypSorb panels, you will not compromise acoustic performance, but enhance it.



*Square pattern 12/25 Q, 65 or 112.5 mm cavity with 2" Rockwool, Polysorb or Fiberglass (min 5.5 pcf densit)

Cleaner Air

Studies show that many people spend up to 90% of their time indoors, so it's very important to maintain the quality of the air in buildings.

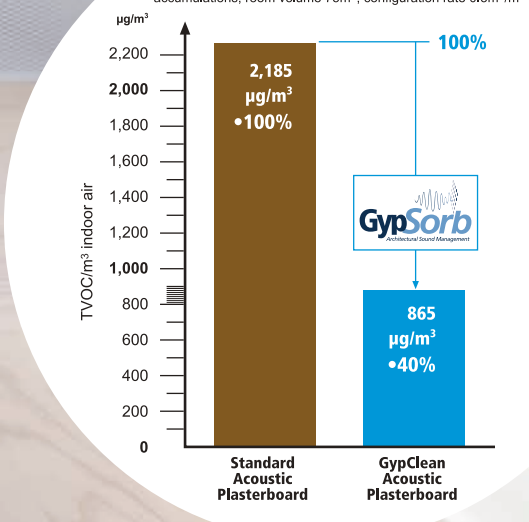
Unfortunately the air in most buildings is heavily contaminated with, dust, toxic compounds and unpleasant odors.

How It Works

Volcanic zeolite absorbs and eliminates a host of environmental air pollutants. As air streams through the perforations in the GypSorb panel, unpleasant pollutants are removed, leaving the air cleaner. And the effect continues to improve air quality long after installation.

With a three dimensional pore system the zeolites help create a gigantic inner surface layer which acts as a naturally occurring 'sieve' capable of capturing and removing gas and liquid impurities from the air.

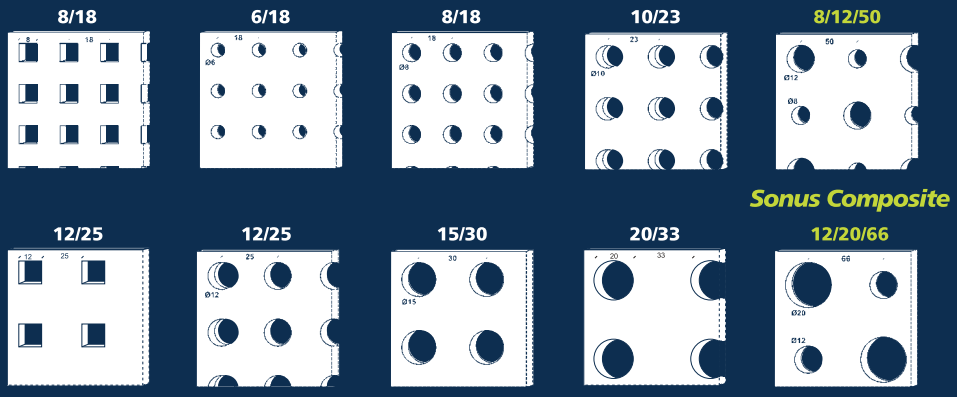
GypSorb products demonstrate a significant reduction in the number of airborne pollutants including tobacco smoke, triethylamine, ammonia, formaldehyde, benzene, aromatic hydrocarbons and chlorinated hydrocarbons.



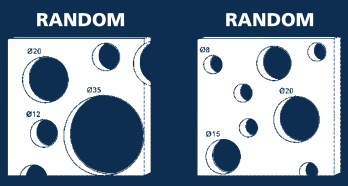
Sonus and Strata panels are high density gypsum boards with continuous sound absorbing perforations for a monolithic appearance. They can be used on ceilings, walls and special applications where noise reduction is critical.

Our panels come in many perforation designs, some with random patterns, some with sequential patterns. The perforated board absorbs and diffuses sound that would otherwise reflect back into the room.

Sonus
multiple perforation styles available



Strata
random perforations



Sonus & Strata
installation

Joints are filled and finished with special compound

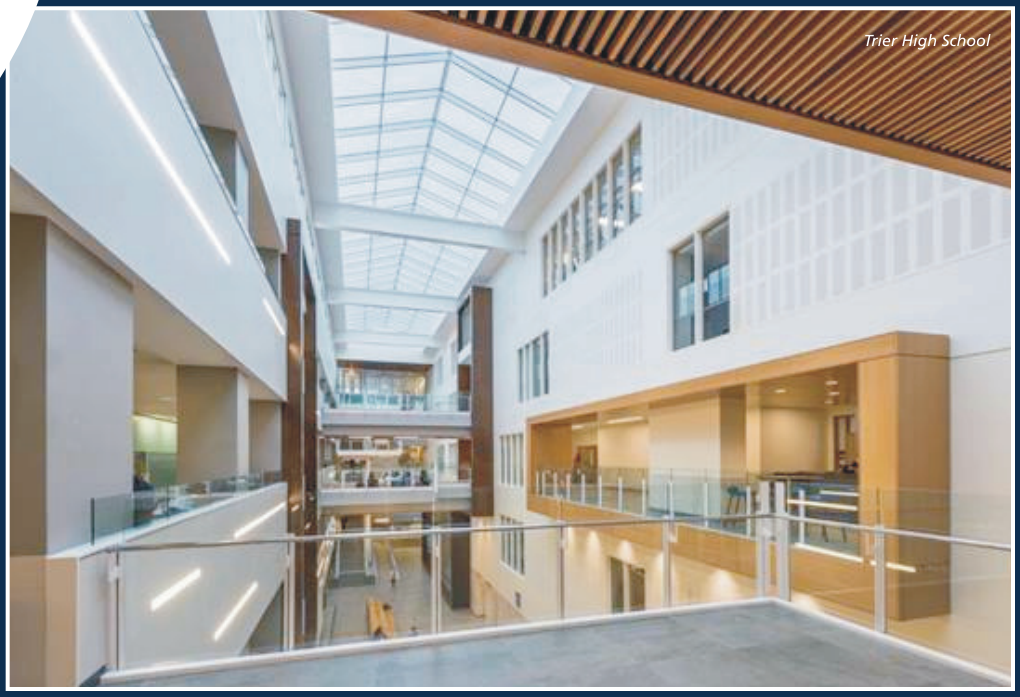
nnovation Freedom of Design

Healthier Environment

Computers, electronic equipment, and everyday substances including paints, glues, cleaning products, perfumes, hair sprays, all create potentially harmful emissions, which have been linked to allergies, asthma and even some cancers.

Even the very materials that building's are made of can release pollutants, from plywood or particleboard to foam insulation and other materials. Silently exhaling a mixture of toxins, including formaldehyde, benzene and trichloroethylene, into the air that we breath. To make things worse, the bid to maximize energy efficiency, makes new buildings effectively airtight cells that trap pollutants, allowing the contaminants to build up.

Most schools suffer from poor indoor air quality, which can impact the concentration and performance of students. The air in hospitals can also be contaminated and despite so much care being taken to keep wards and operating rooms clean, patients can be exposed to health risks from breathing contaminated air.

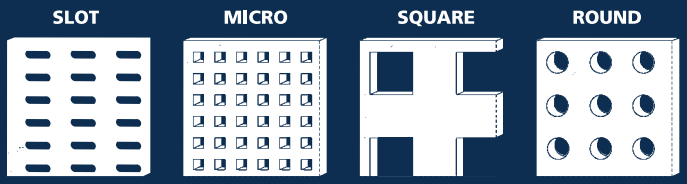

Trier High School

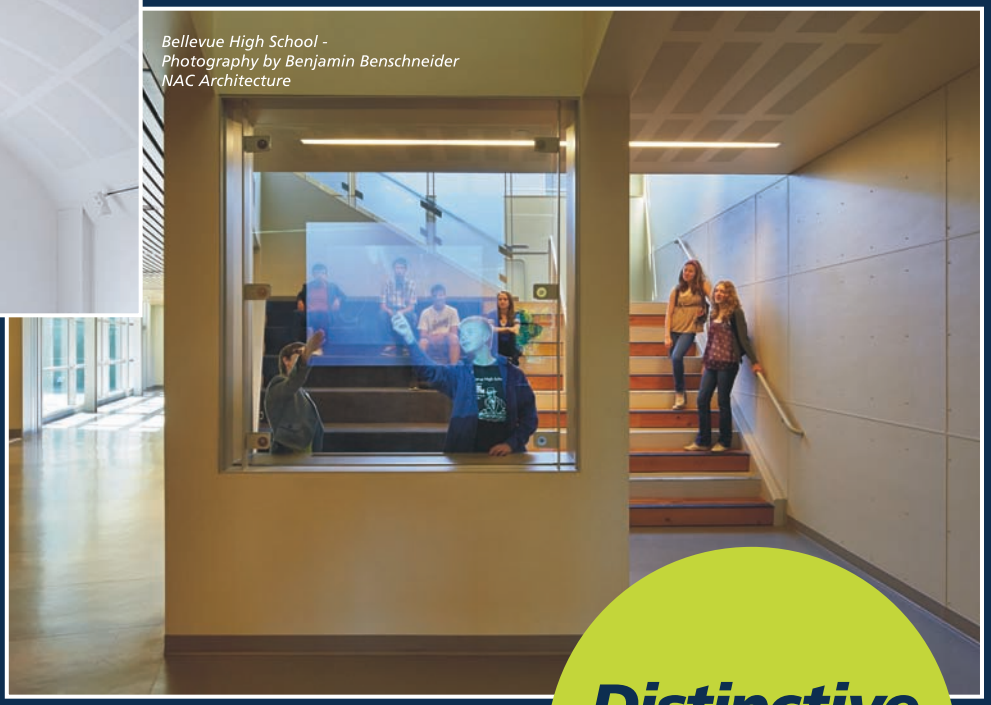
Stratum panels are high density gypsum board in 4 types of perforations. The panel width and border perimeter varies depending on the installation type and desired pattern effect.

Stratum perforations and panel sizes are available in a number of patterns as shown.

Stratum

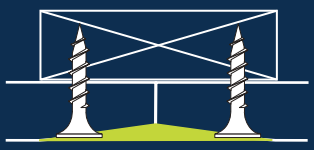
multiple perforation styles available





Bellevue High School -
Photography by Benjamin Benschneider
NAC Architecture

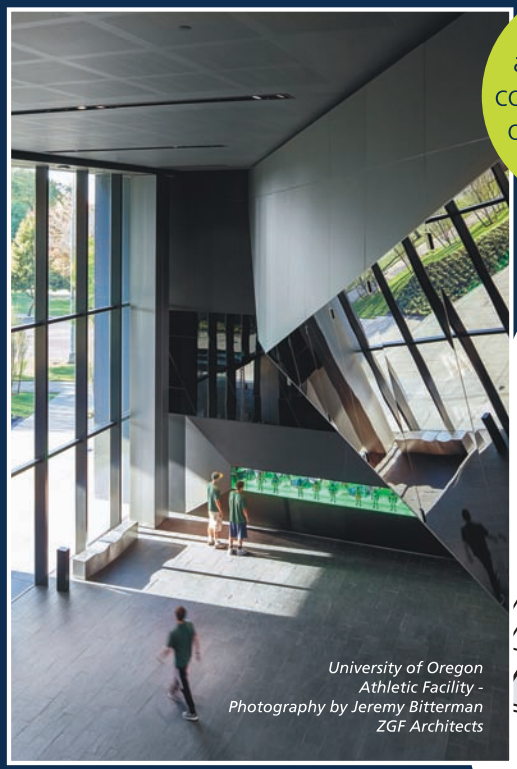
Stratum
installation



Joints are finished and treated like traditional gypsum board.

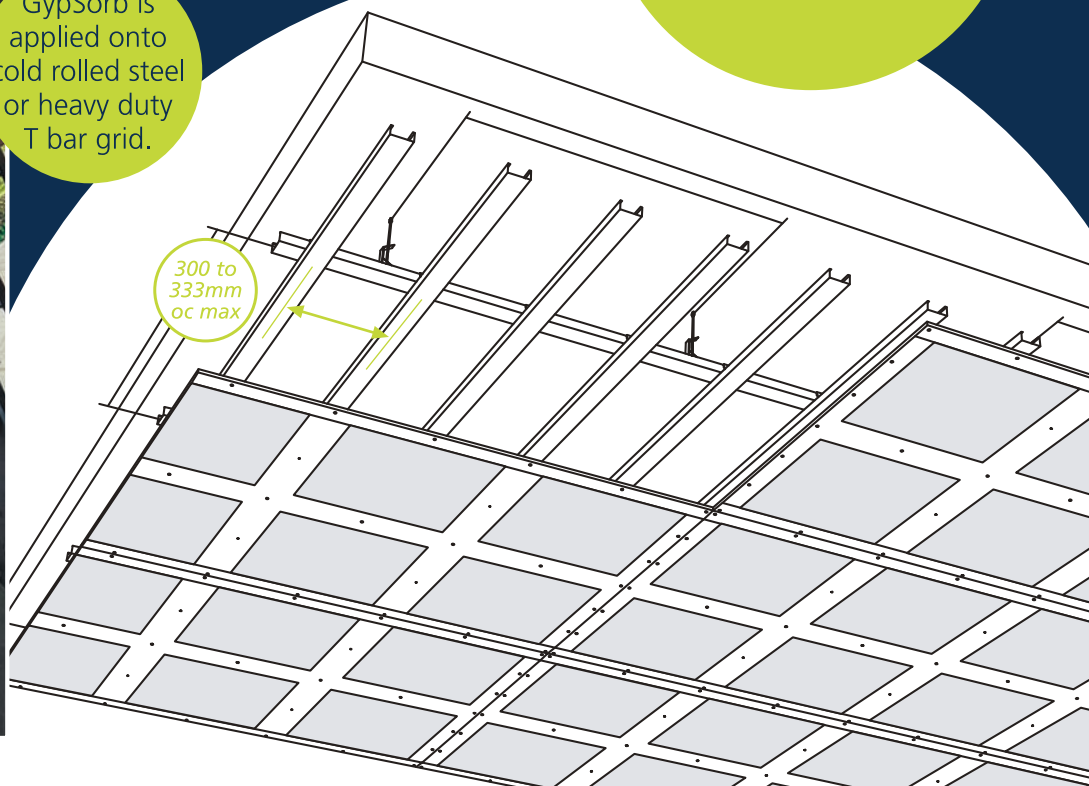
For more detailed technical and installation instructions, refer to www.gypsorb.com/technical-info

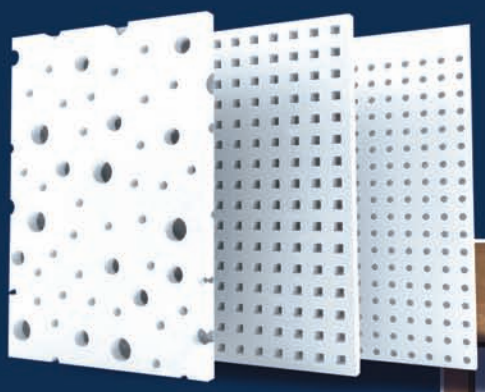
Distinctive Appearance



University of Oregon
Athletic Facility -
Photography by Jeremy Bitterman
ZGF Architects

GypSorb is applied onto cold rolled steel or heavy duty T bar grid.





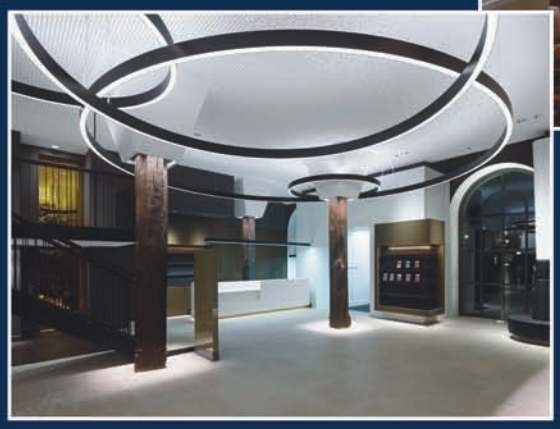
ab·sorp·tion |eb'zôrp sh e; -'sôrp-|
noun
1 the process or action by which one thing absorbs or is absorbed by another
: Shock absorption.
• Physics the process or action by which neutrons are absorbed by the nucleus.
2 the fact or state of being engrossed in something : her absorption in the problems of the Third World.

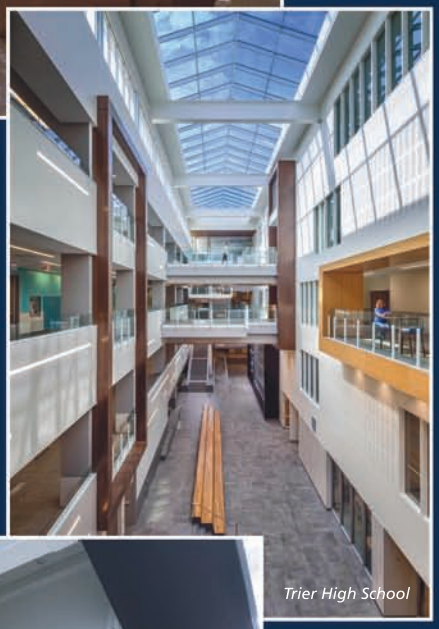
ORIGIN late 16th cent. (in the sense [the swallowing up of something]): from Latin absorptio(n-), from absorbere 'swallow up'.

gyp·sum |'jipsem|
noun
a soft white or gray mineral consisting of hydrated calcium sulfate. It occurs chiefly in sedimentary deposits and is used to make plaster of Paris and fertilizers, and in the building industry.

ORIGIN late Middle English : from Latin, from Greek gupsos.

Amangari Resort




Trier High School

- Combines aesthetics and performance into acoustical perfection
- Different perforations to fit the look and feel you want
- Air purification built in reduces Volatile Organic Compounds (VOC) and improves overall air quality

GypSorb perforated panels offer unique styling while being geared towards maximum acoustical absorption. Our panels provide the acoustical performance you've been looking for.

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Architectural Sound Management