

# Anutone Septum

PARTITION SYSTEMS

[www.anutone.com/partitions.htm](http://www.anutone.com/partitions.htm)

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makes you feel good™

## Key Attributes

An Anutone invention, AnutoneSeptum absorb, block *and* cover! The ABC of contemporary office acoustics, AnutoneSeptum are dual-purpose acoustical panels for new-age aesthetics, combined with functional acoustics.

These acoustical panels are uniquely tailored with an acoustic plaster sandwich for versatile thermo-acoustic applications.

## Visual Variants

The visual variants to AnutoneSeptum are realised when the panels with NSS surface are insitu spray painted in a range of bold, contrast or pastel colours.

Other surface options include Burl and Fabrico finishes

## Typical Applications

AnutoneSeptum is used exposed for acoustical false ceilings and wall panellings where both sound absorption and noise isolation is a necessity in offices, call centres, cinema multiplexes, hotel guestrooms, home theatres, AV rooms, discotheques, lounge bars etc.

A typical application is an underdeck insulation to metal roofing to absorb and block rain noise and other external noises from the roof. Added advantage is thermal insulation.

## Features – Acoustical

### 2-way, dual-purpose with Hexaction

- absorbing noise and negating standing sound waves generated by building services in the plenum (Plenum NRC)
- isolating the residual plenum noise of the utilities to the occupants below (Plenum STC)
- isolating the impact noise from the floor above or rain noise from the roof above (Down STC)
- diffusing the sound from masking speakers for uniform distribution (Plenum Diffusion)
- offering airborne sound attenuation between rooms sharing a common ceiling plenum (Up STC)
- absorbing occupancy noises (Occupancy NRC)

## Features – Others

- Density - Varies with thickness
- Sizes - Width - 600mm; Lengths - 1200 / 2400 mm
- Thickness - 10 / 15 / 20 / 25 / 30 / 40 / 50 mm
- Custom sizes - Non-metric 610x1220 mm suits 2'x4' grids; Intermediate lengths 600 / 1800 mm. Flexi / odd sizes suit specific sites and/or applications.
- Base panel conforms to EN 13168 2001.

## Accessibility

AnutoneSeptum in AnutoneProfiles T-system makes it modular and dismantable for plenum access to services in the ceiling void. AnutoneSeptum installed on relevant AnutoneProfiles C-system requires unfastening and refastening of AnutoneStitch. Fastener marks can be camouflaged with AnutoneSeam.



## Aesthetics

For ceilings and walls, AnutoneSeptum Burl with AnutoneSeam applied to butt joints and AnutoneSkim insitu cross-hatched sprayed, camouflages edge joints and renders a smooth, seamless finish.

## Design Considerations

For achieving optimum noise isolation performance (FSTC), design requirements include the entire ecosystem like correct selection and installation of

- AnutoneSeptum on the relevant ASPTM System
  - LF-induced structure-borne vibration management
  - HVAC noise control including SA & RA attenuators
  - Flanking noise transmission
  - Openings treatment that include doors, windows, etc.
- For ceilings, AnutoneSeptum panels must not be laid in AnutoneProfiles T-system for an exposed grid look.

## Framework

- C-system for ceilings, panellings, partitions - concealed

## Tech Variants - Core

Septum - single layer acoustic plaster  
Septum T3 - single layer AnutoneSken T3  
Septum T5 - single layer AnutoneSken T5  
MultiSeptum - dual layer acoustic plaster  
MultiSeptum T3 - dual layer - first acoustic plaster - second AnutoneSken T3  
MultiSeptum T5 - dual layer - first acoustic plaster - second AnutoneSken T5

## Tech Variants - Binder

The Septum series is available in MB and CB.

## Tech Performance

- Non-combustibility - Mass loss 53% @ 750 °C - ISO 1182
- Ignitibility – 'P' - BS 476 Part 5
- Fire Propagation Index – 5.17 - BS 476 Part 6
- Surface Spread – Class I - BS 476 Part 7
- Specific Optical Density of Smoke - Flaming Exposure 26.28 Dm (Corr) - ASTM E662
- Thermal Conductivity – 0.08 Wm/k - IS 3346

## Environmental Impact

AnutoneSeptum is an eco-friendly system and wins GBC's 15 LEED points when used in green buildings, a AnutoneSustain effort from Anutone®.

## Site Considerations

Cartons of AnutoneSeptum must be stored on a flat, dry surface. At no point must panels be allowed to come in contact with water. Installation surfaces must be dry and level.

Proper sealing of all joints is important to the noise isolation performance of AnutoneSeptum. All joints must be tightly sealed (with no air pockets) with AnutoneSeam.

## Economics

AnutoneSeptum 10mm on SoundProfiles C-system is techno-commercially economical for the lifecycle cost of the system.

## Warranty

10 years AnutoneSurety - limited warranty - on the assembled system when installed by Struct's AnutoneScaff to Ekcel's specifications and maintained under the AnutoneSentry AMC programme.

## Acoustical Parameters

### Septum 25 mm

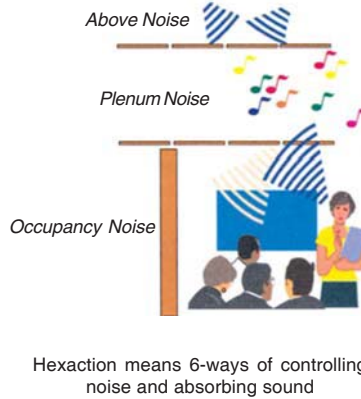
NRC 0.80 for C50 mounting with 24x50mm glasswool.

NRC 0.40 for D50 mounting with 50mm airgap STC 31 with joints sealed and no flanking noise

### Septum 50 mm

| Hz               | NRC  | STC |
|------------------|------|-----|
| 125              | 0.30 | 31  |
| 250              | 0.70 | 34  |
| 500              | 0.64 | 38  |
| 1000             | 0.63 | 43  |
| 2000             | 0.65 | 49  |
| 4000             | 0.70 | 51  |
| NRC 0.66; STC 41 |      |     |

**NOTE** - Anutone's Totel™ has the capability, expertise and own infrastructure to perform custom acoustics tests for given design as per ISO 354 at its AnutoneScans lab and provide acoustic values of AnutoneSeptum specific to installations.



## References

For the latest update on our projects list please visit [www.anutone.com/references.htm](http://www.anutone.com/references.htm)

## Custom Methodology

The installation of AnutoneSeptum can be custom-designed to acoustical needs by Totel™, supplied by Ekcel™ and installed by Struct™ to suit specific or special project requirements. The methodology includes the entire value-chain - site evaluation, criteria definition, noise spectra capture, design optimisation, system specs, systems engineering & integration, project management, acoustic testing & site validation. Anutone® strongly recommends the professional services of AnutoneSeer - qualified and independent acoustical consultants - to decode the Selec programme.

## Ordering Information

Acoustical application, Installation application, Binder type, Surface finish, Core content, Dimensions, Edge Profile, Painting, Framework, Hardware, Acoustical infill, Jointing compound, Packing.



### ANUTONE WALLS & CEILINGS

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