



LOSBERGER DE BOER



# Thermal Acoustic System

BY LOSBERGER DE BOER



## LDB Thermal Acoustic System™

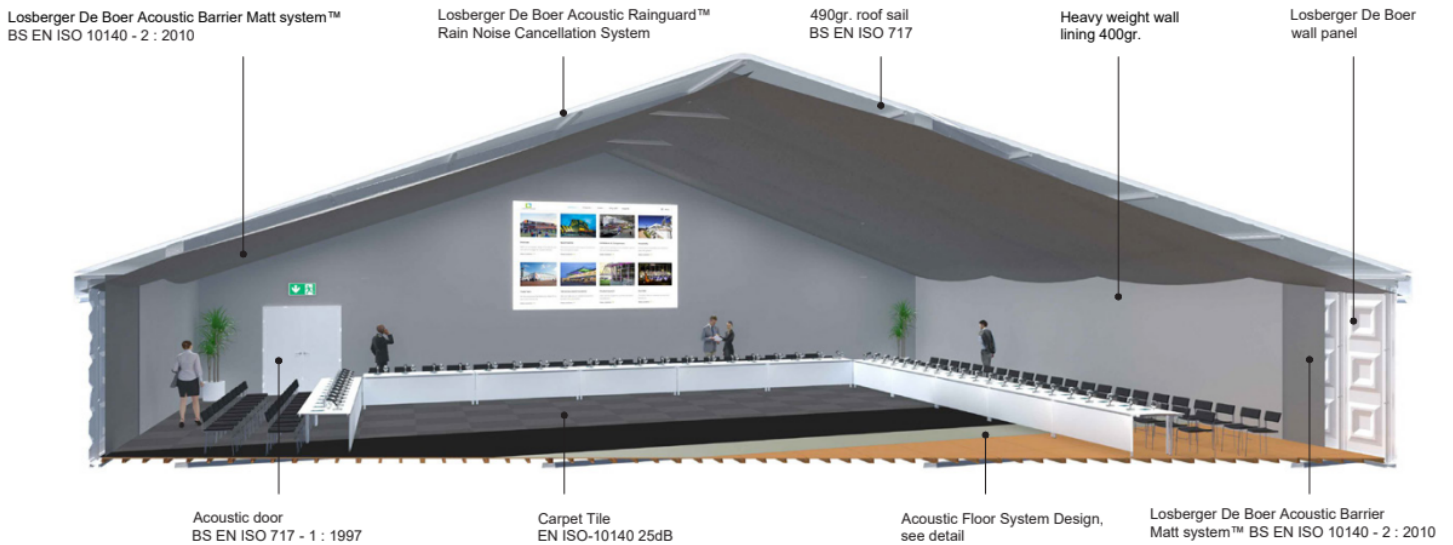
We spent more than 10 years developing a unique acoustic attenuation system for both permanent and semi-permanent buildings. An exclusive feature found only in Losberger De Boer structures.

Some of the key features include:

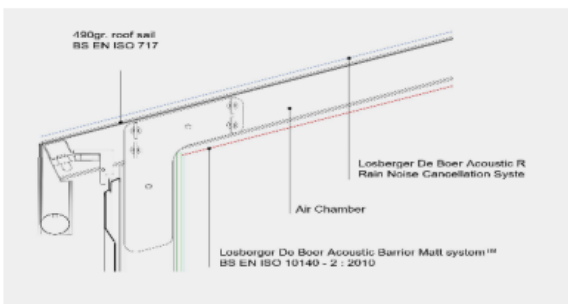
- Sound reduction: 20-50 dB
- Class A sound absorption surfaces
- U-value (Thermal transmittance): <0.4 (*The score for standard structures is around 5*)
- Wall height from 3-12m and apex from 6-15m

Additional features can include rain noise cancellation systems, acoustic doors and specialist interior design.

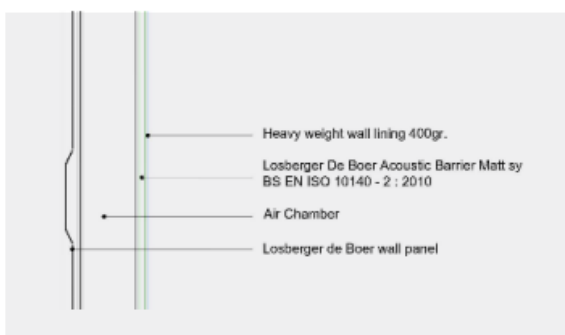
# A-frame design concept:



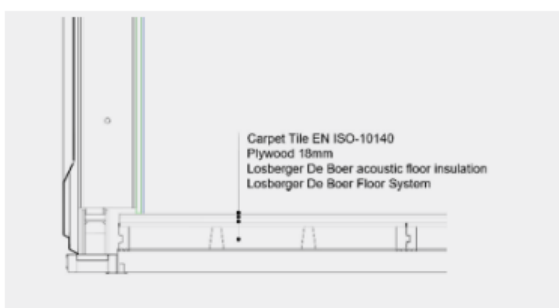
## Acoustic roof detail



## Acoustic wall detail



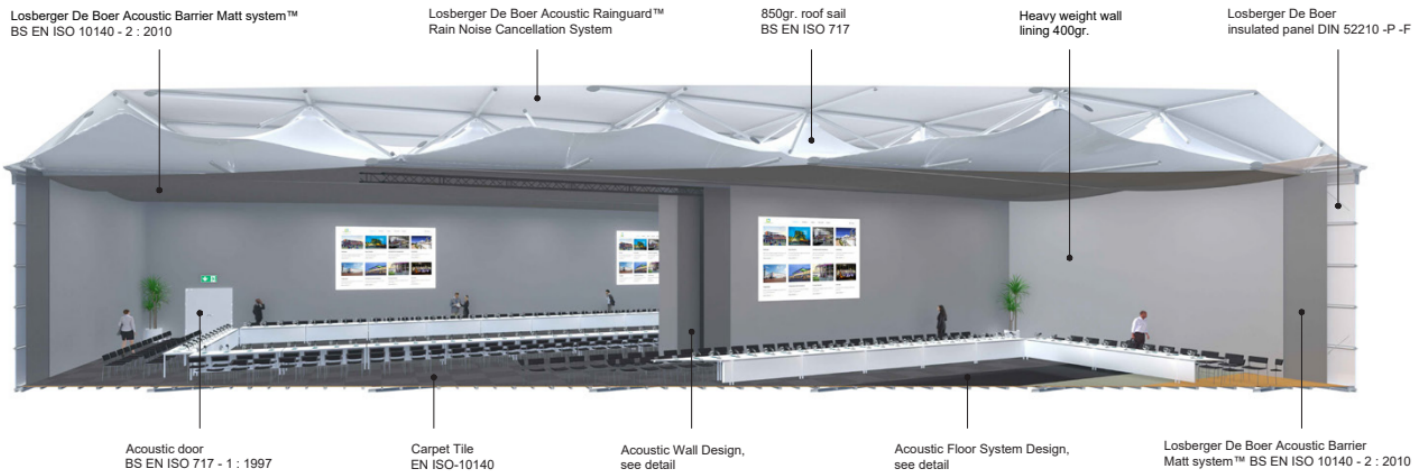
## Acoustic floor detail



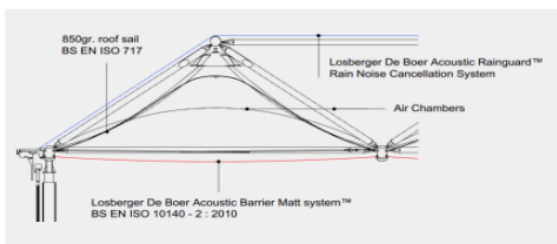
## What makes our system so unique?

- **Sustainable** - Materials are reusable making them perfect for temporary & semi-permanent structures.
- **Fast Installation** - Our Thermal Acoustic Barrier System can be installed without extending the building period.
- **Cost-Efficient** - When using a temporary structure our system allows you to save money on energy thanks to the thermal insulation capability.

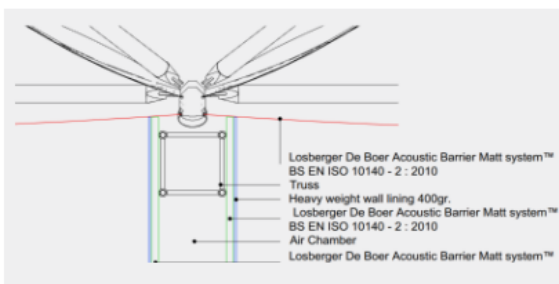
# Space frame design concept:



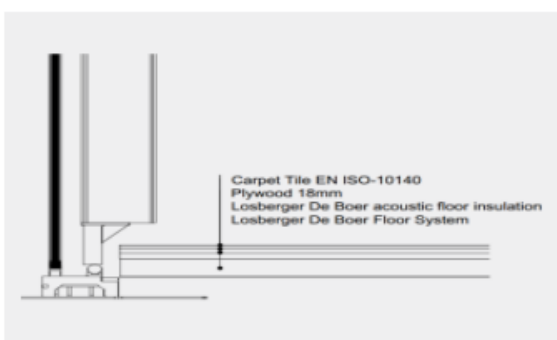
## Acoustic roof detail



## Acoustic wall detail



## Acoustic floor detail



## Thermal Acoustic System in Action

- Educational facilities - Classrooms & auditoria.
- Immersive exhibitions - Art exhibits, shows etc.
- Retail purposes
- Airport terminals
- Automotive showrooms
- Large scale hospitality
- Indoor music venues/festivals
- Corporate events
- Trade shows
- Restaurants & canteens

# Case Studies

COP26



COP26 was arguably the most important event of 2021 and we were honoured to have been a part of it. We delivered around 37,000 m<sup>2</sup> of temporary structures for the UN Climate Change Conference.

This included a variety of structures for the media centre, UNFCCC offices, main entrance, security facilities, large meeting rooms and extensions of the existing venue itself.

This conference was all about sustainability, so it was essential that our structures and services were delivered in line with their values.

These structures featured the LDB Thermal Acoustic System to ensure the ideal acoustics inside the venue and add an extra layer of thermal insulation, important for the sustainability targets of the event.



# Case Studies

## Lytchett Minster School



We built a temporary school facility complete with classrooms & auditorium in a time of need for Lytchett Minster school.

In this case, a lightning strike caused the school to burn down, and it was essential to get a facility built quickly to allow the students to continue their classes. Collaborating with insurance companies, we were able to provide a structure enabling the school to reopen within weeks.

Our specialist space frame structure, The Delta, was chosen and delivered turnkey & ready for use.

The LDB Thermal Acoustic System was installed across the whole structure - It was essential to have acoustics in mind to ensure comfortable & quiet classrooms undisturbed by outside noise, equally important for the auditorium facility.





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## Find out more about our Thermal Acoustic System:



[www.losbergerdeboer.com/uk](http://www.losbergerdeboer.com/uk)



[sales.uk@losbergerdeboer.com](mailto:sales.uk@losbergerdeboer.com)



(+44) 01280 846500