



WOOD COUSTICS

warm wood, soft sound

ACOUSTIC — ARCHITECTURAL — AMAZING



Our company's
rich history resonates in
our premium architectural and
acoustically absorbing solutions.

DECOSPAN
Wood Solutions

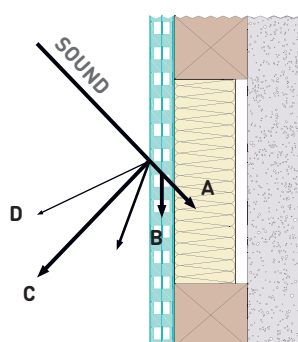
TRIPLACO
LEFEVERE GROUP

ACOUSTIC ARCHITECTURAL AMAZING

Decospan and Triplaco are two family owned Belgian companies with over 150 years of combined experience in wood processing business. They are both committed to develop and produce with Woodcoustics the most efficient, stable and decorative acoustically absorbing solutions based on the Helmholtz Principle for the reduction of human voice reverberation. This way, we contribute to improved acoustic comfort and a healthy interior environment in buildings.

Our range of acoustically absorbing panels has been developed to absorb and reduce any disturbing sounds in a room. This leads to greater acoustic comfort, even in highly frequented rooms with a lot of background noise.

Improved acoustics imply a reduction of sound reflection as well as sound resonance time and level. This improved comfort is achieved by transforming sound into mechanic energy (vibration or heat) in the panel and the underlying wool. Part of the energy of the sound wave which comes into contact with our panel is reflected back into the room. Another part is absorbed by the material and the last part goes through the panel into the underlying insulation layer.



Sound waves coming into contact with our acoustic panels are changed in four different ways and to a different extent by our Helmholtz panels:

- A. Transmission + Absorption (H)
- B. Absorption (Helmholtz) (LM)
- C. Reflection
- D. Diffusion



Helmholtz resonance is one of the most efficient ways to correct the acoustics of the human voice. Our panels are usually installed perpendicular to the speech direction, which provides another benefit.



The core of our panels is standardly made up of black acoustic MDF. This gives an elegant and timeless look to our collection and has a higher quality than brown MDF or chipboard.



Our products can be made to measure. We deliver customised cupboards and sliding doors, provided with hinge holes according to your plan so you can smoothly install them on site. Separate acoustic reports are available for cupboard doors.



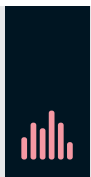
Natural veneer has to be protected from external surface aggression. We recommend to use a qualitative lacquer protection. Woodcoustics can also be delivered in a prefinished multilayer Shinnoki® finish. These panels have a mat and impact proof surface.



The products are finished in a variety of styles according to your taste. The top layer can be chosen from one of the six standard veneers (European oak crown cut, European oak fals quarter cut, Pine Carolina, Birch half rotary cut, American walnut, American maple) or be finished in one of the 16 prefinished veneers of the Shinnoki® range.

WOODCOUSTICS IN PRACTICE

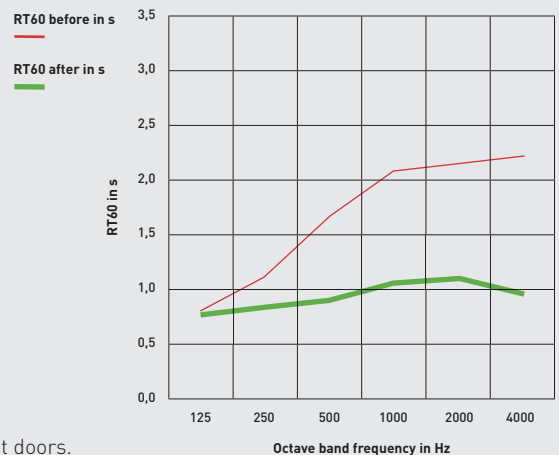
To reduce the resonance and bad acoustics within your project, a sufficient number of square metres of acoustically absorbing material must be installed in relation to the volume of the room. Below you can have a look at several elaborated cases as a guideline. The sound environment has been corrected by means of our acoustically absorbing Helmholtz panels (applied to walls or furniture).



OFFICE / MICRO/NANO

Acoustic comfort is very important for landscape office users. For this reconversion project, the customer opted for Woodcoustics TYPE M, a high-performance absorbing panel applied to walls and cabinets.

Volume	67,2 m ³
Number of m ² TYPE M	22,4 m ²
RT60 reverberation before installation	1,62 seconds
Desired reverberation time	0,5 - 0,8 seconds
RT60 reverberation after installation	0,55 seconds



Installation of 22,4 m² TYPE M acoustic wall panels and customised cabinet doors.

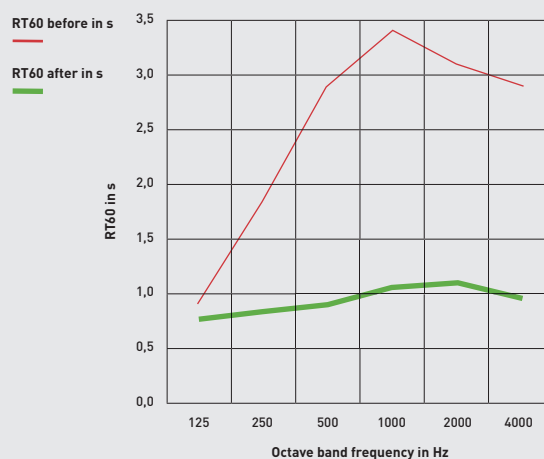


LOBBY / GROOVED

This sober yet classy reception hall was optimised acoustically by means of Woodcoustics TYPE Db (applied to walls and fixed furniture).

Volume	165,75 m ³
Number of m ² TYPE M	26,7 m ²
RT60 reverberation before installation	2,49 seconds
Desired reverberation time	0,6-1 seconds
RT60 reverberation after installation	0,87 seconds

Installation of 26,7 m² TYPE Db acoustic wall panels.

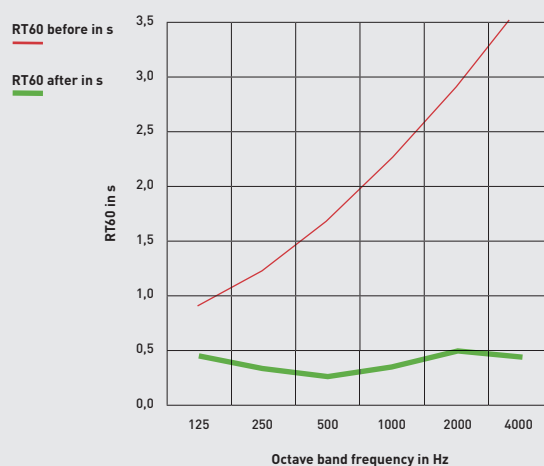


RESTO / GROOVED

In case of a 4-course menu or a reception party, customers always want an optimal acoustic conversation environment. In this restaurant, the very unpleasant acoustics of this stylish room have been addressed with Woodcoustics Type Z.

Volume	187,2 m ³
Number of m ² TYPE M	56,8 m ²
RT60 reverberation before installation	2,09 seconds
Desired reverberation time	0,55 seconds
RT60 reverberation after installation	0,40 seconds

Installation of 56,8 m² TYPE Z acoustic wall panels.

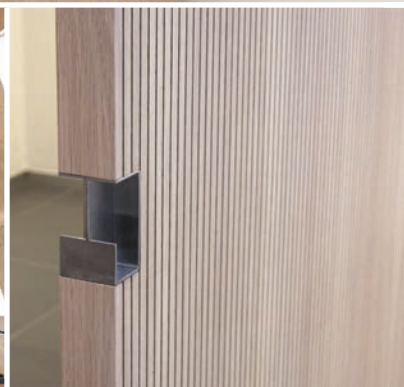
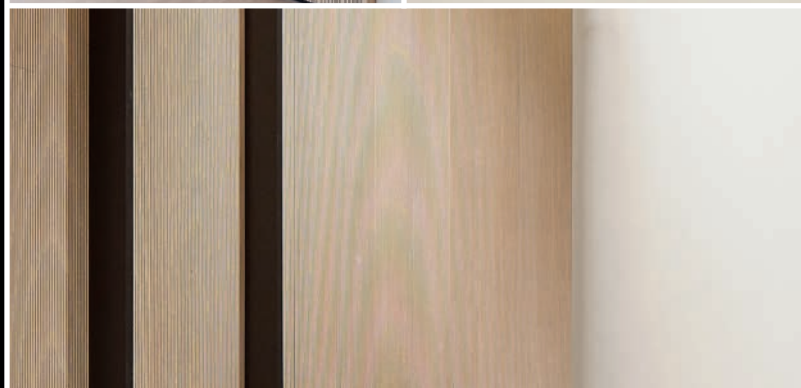
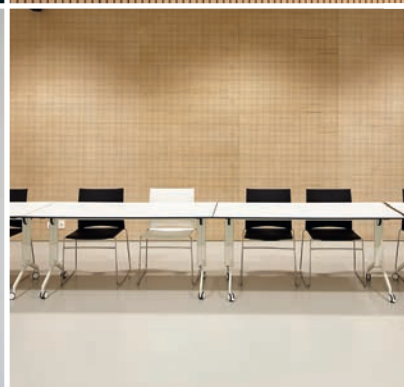
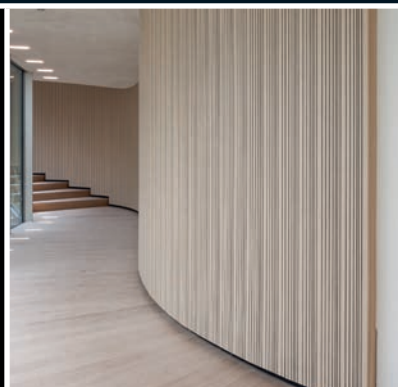
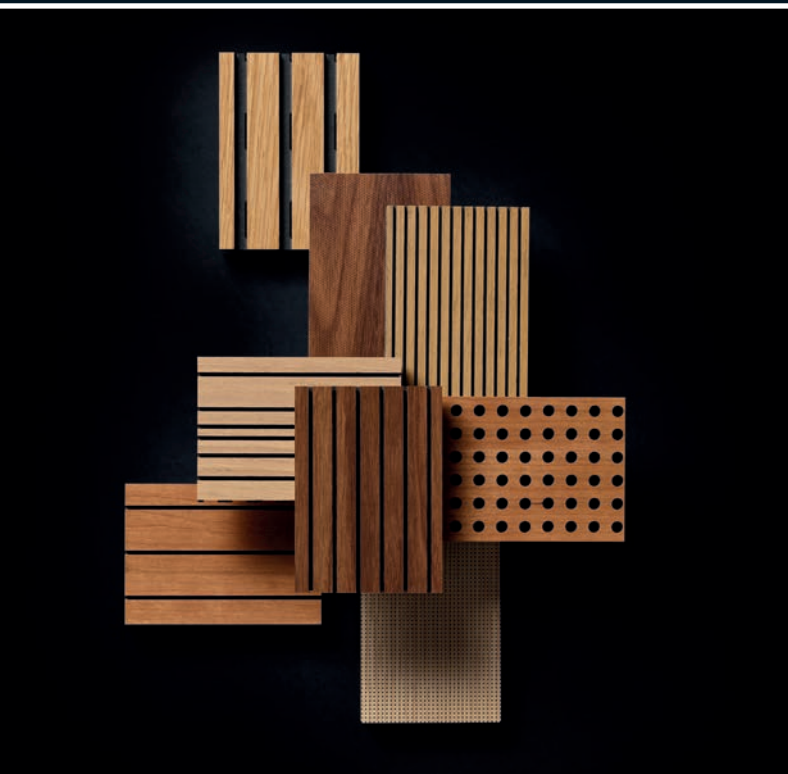


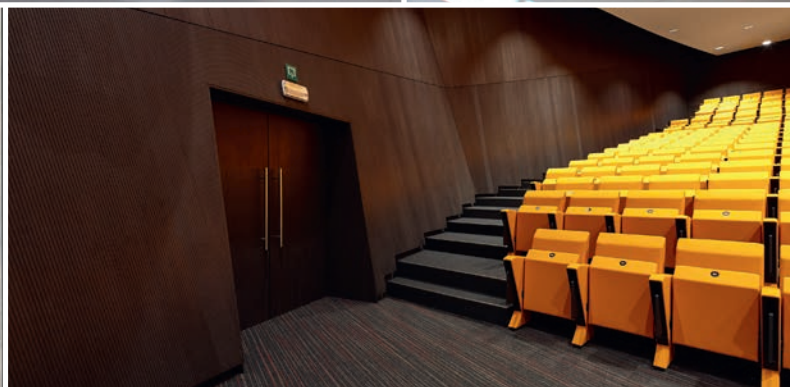
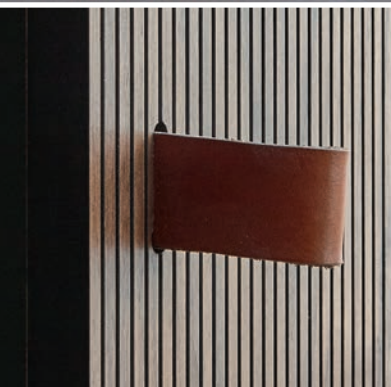
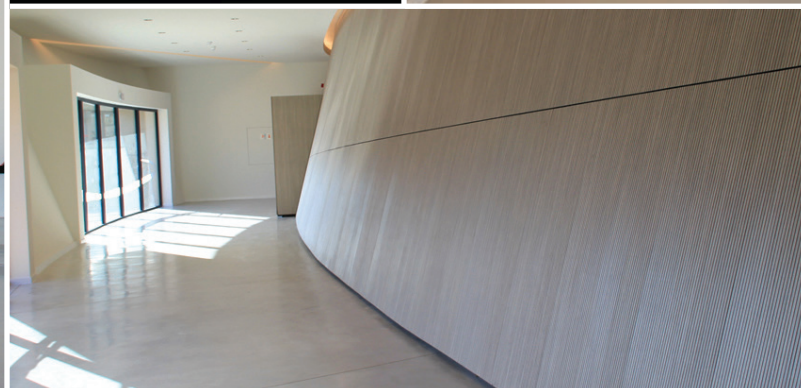
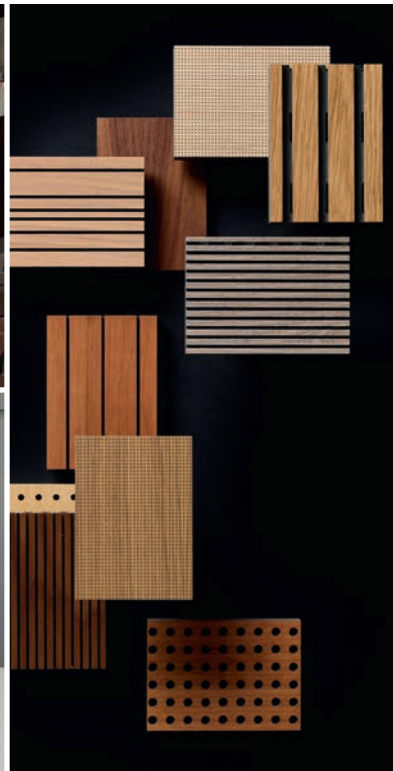
INSPIRATION

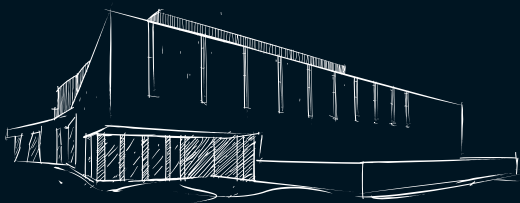
Resonance and bad acoustics in a room are a disturbing factor in many environments. That is why our more than 30 different Helmholtz products are used in a wide range of large and small projects. But we also strive for a perfect integration of the acoustically absorbing plates into your creative design.

That is why you can use our panels for walls, cabinet doors, ceilings, furniture, interior door cladding, etc. and order them in one of the six standard veneers (European oak crown cut, European oak fals quarter cut, Pine Carolina, Birch half rotary cut, American walnut, American maple) or in one of the 16 prefinished veneers of the Shinnoki® range.

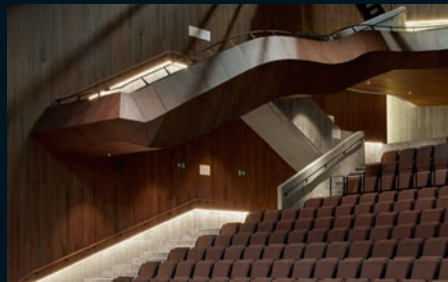
OFFICE ENVIRONMENTS / AUDITORIUMS / MUSEUMS
SPORTS CENTRES / MEETING ROOMS / RESTAURANTS
SCHOOLS / RECEPTION AREAS & HALLS / CONFERENCE CENTRES
RETIREMENT HOMES & HOSPITALS / CONCERT HALLS
WALLS / CUPBOARD DOORS / SLIDING DOORS / FURNITURE / ...



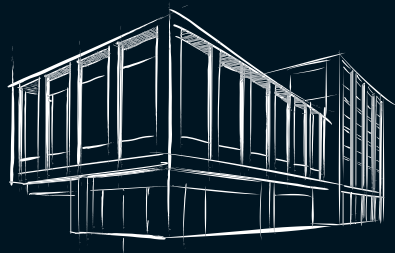




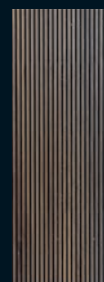
Archiles, EBTCA Architect – Concert Hall



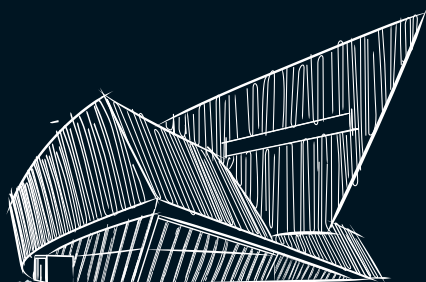
TYPE PS



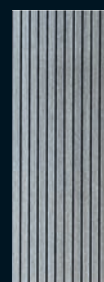
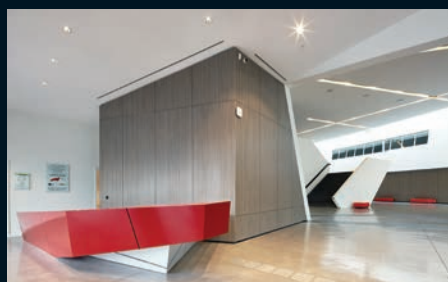
Tony Fretton Architects – Town Hall



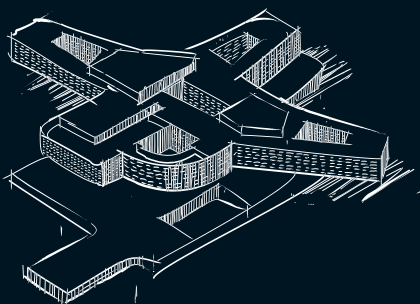
TYPE F



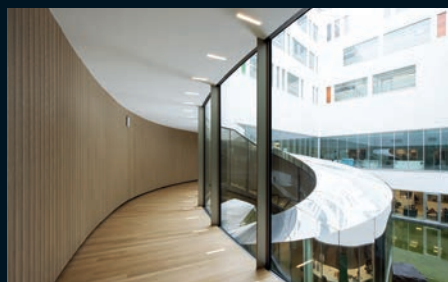
Studio Daniel Libeskind, H2A – Congress Center



TYPE G



AAPROG, BOECKX, B2AI Architects – Hospital



TYPE DR