



Case Study



Property Owner
AGB Stad Deinze



Main Contractor
STRABAG Belgium



Acoustic Consultant
Daidalos Peutz



Architect
V+ & Trans architectuur

OVERVIEW

The 'Leietheater', Deinze's new cultural centre, opens its doors to the public in September. The new building, designed by the young architect duo V+ & Trans, houses a 450 seat theatre, offices, multifunctional spaces and a cafeteria.

The building is a compact volume with a ground floor in glass and aluminium and a superstructure in white glazed brick. The eye-catcher of the building will be the stage tower rising out above the theatre.

The new cultural centre is located on the corner of the busy Brielstraat and the N35/Tweebruggenlaan, which is why it was feared that there would be noise nuisance inside the building.

Stravibase FacadeFix

- Mass-Spring-Mass system
- A bespoke system which can be designed to accommodate any size or acoustic load and is compatible with any type of construction



SOLUTION

By means of the innovative [Stravibase FacadeFix](#) system, a part of the facade of the cultural centre was disconnected from the rest of the structure, a first in Belgium. This way, the transmission of sound from passing traffic is reduced, guaranteeing peace and quiet in the auditorium.

The decoupling is based on the Stravibase Fix principle using various rubber components in order to obtain a discharge at approximately 20Hz from the "mass spring-mass" system.

Photography: Stijn Bollaert

AT A GLANCE

CHALLENGES

- Situated on the corner of a busy crossroad
- No building base isolation possible, so an alternative yet equally effective solution had to be designed

BENEFITS

- Simple fool proof installation
- Precompression at the factory
- By decoupling the outer shell of the building, noise levels inside are effectively managed

