

# Music Wharf Church

## Rotterdam, NL



## Case Study



### Main Contractor

Nico de Bont



### Acoustic Consultant

Peutz



### Architect

Powerhouse Company



### Local Partner

Delta-L

## OVERVIEW

The post-war Mennonite church in Rotterdam (1951) is transformed into the Music Wharf.

The church is being converted into the Netherlands' first permanent practice and concert location, specifically intended for children and young people.

The Muziekwerf will be a hotspot in the center of Rotterdam for making music where young musicians can rehearse and perform.

Completion of the transformed building is expected in early 2024.

## Stravifloor Deck

- Low-profile floating floor system using a proprietary dovetailed metal deck for thin concrete pours
- This system provides a high-performance floating floor system for excellent structure-borne and airborne noise isolation, while minimizing any impact on the available floor-ceiling height.



## SOLUTION

Delta-L installed the [Stravifloor Deck](#) on the first floor. The Stravifloor Deck is a floating floor system that offers high acoustic performance.

The system consists of metal stud floor rails in which natural rubber supports from CDM Stravitec are clamped, on top of which is a steel plate with high bending stiffness.

The system can be used with a small concrete thickness, which limits the installation height. This makes the system very suitable for applications in parking garages, supermarkets and department stores, as well as renovation projects where the existing structure can carry limited loads.

Delta-L can take care of the complete design, delivery and installation. As a result, the school is not only modern and renovated, but also acoustically optimized to guarantee a better learning and working environment for students and staff.

## AT A GLANCE

### CHALLENGES

- Preserve the characteristic features of the building, when increasing impact are airborne noise isolation

### BENEFITS

- Using a dovetailed metal decking, light gauge galvanized steel reinforcement sheets, the system has high bending stiffness allowing for high performance floating floor with reduced build-up height
- Easy to install
- Solution lighter than massive concrete systems due the deck sheet shape used as formwork, a metal deck, moisture resistant, light and easy to handle and free of autochthonous parasites or other harmful organisms

**107 m<sup>2</sup>**  
Stravifloor  
Deck

