Brahmslaan
Leiden, NL

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Making your world a quieter place

Case Study

Property Owner
W.u.J. Derix / Sustay

Main Contractor
Adviesbureau Geuijen

Acoustic Consultant
Nieman

OVERVIEW

At Brahmslaan in Leiden, where Gymsport Leiden used to have its home, now stands a wooden residential complex consisting of 25 apartments. Despite cross-laminated timber (CLT) being a more sustainable and emission-free building material, it is still quite rare in modern day construction. Wood also has the advantage of being much lighter than concrete and steel, making it easier to transport and handle on site, which in turn speeds up the building process. CLT walls and modules can also be reused once a building has ended its life cycle. What else stands out is that despite its modest height of only two floors, the building has an elevator. The front doors are all located along the extra-wide gallery that also serves as a balcony, which stimulates social interaction between neighbours.

Straviwood WallBreak-S

- Resilient strip for acoustic decoupling of CLT walls
- Designed to minimize the flanking sound transmissions via CLT walls when continuous load transfer on the slab is required

Stravibase Fix

- Structural elastic fixing system for any type of structure
- Elastic isolation fixation principle which guarantees total vibration decoupling from a non-isolated structure to another isolated structure

SOLUTION

To counteract flanking transmission, the CLT roof floors are placed on Straviwood WallBreak-S polyurethane foam strips. The elastic isolator acoustically decouples the floors and walls, thereby guaranteeing proper noise and vibration isolation.

The screw connection of the roof plate in the wall is also acoustically decoupled using the Stravibase Fix system.

720 pcs
Stravibase Fix

290 rm
Straviwood WallBreak-S

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