



Case Study



Property Owner

Federação Portuguesa de Futebol (FPF)



Subcontractor

FAPACO



Architect

RISCO



Acoustic Consultant

Engenharia de Acústica e Ambiente, Lda.

Stravifloor Channel

- Isolated steel floor batten system with enhanced stiffness to support the timber floor.

OVERVIEW

Canal 11 (Channel 11 in English) is the subscription television channel of the Portuguese Football Federation. Besides covering live soccer matches of Portuguese teams, the sports channel brings programs about beach soccer and the women's competition. Canal 11 also brings in-depth stories about Portuguese soccer players and live debates.

Constructed south of the new sports pavilion 'Football City' (CF – Cidade do Futebol) in a lush green part of Oeiras, Canal 11 comprises almost 250 m² of recording studios, office spaces, etc.

The geometric configuration of white cubic volumes was partly constructed using prefabricated metal modules, with the biggest cube being approximately 13 meters high. Offices and lounges overlook the training pitches in front of the building complex.



SOLUTION

To isolate the technical equipment room located directly above the main television studio, a [Stravifloor Channel](#) isolated steel floor batten system was installed beneath the timber floating floor made of double layered calcium-sulphate panels.

The Stravifloor Channel system was custom-engineered to cope with different permanent loads (technical equipment) and achieve a natural frequency of 7 to 9 Hz, preventing unwanted noise and vibrations from reaching the television studio below and interfering with the live broadcasts.

Photography: Carolina Delgado

AT A GLANCE

CHALLENGES

- Technical room located directly above a sound sensitive television studio
- Great number of pipes, cables and other utilities on top of the structural floor

BENEFITS

- Provides lower differential deflection resulting from live load or concentrated loads
- Enhanced stiffness
- Increased acoustical performance through optimization of pad loading & fewer contact points

245 m²

Stravifloor
Channel

