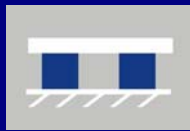


# Pavilions, Swords



## Concrete Floating Floor

CDM-ISO-LAT



**Main Contractor**  
**Architect**  
**Acoustic Consultant**  
**Structural Engineer**  
**Ireland Partner:**  
**Area**

**McGlaughlin & Harvey**  
**OMS Architects**  
**AWN Consulting**  
**Ove Arup & Partners**  
**Rogers & Walsh (AAS)**  
**11 cinemas totalling 1420m<sup>2</sup>**

Phase II of the Pavilions Shopping Centre in Swords, Dublin includes 11 new cinemas on the first floor of the development. AWN specified a 100mm concrete floating floor system on a 50mm void; supported on elastomer bearings with a natural frequency of <math><8\text{Hz}</math>. CDM-UK in partnership with Rogers & Walsh (t/as Architectural Acoustic Solutions) secured the contract with the CDM-ISO-LAT-50 system.

To create the rakes in the floors a double floor was constructed with the 100mm concrete floating floor supporting polystyrene and an additional 100mm reinforced concrete floor. Additional isolation was installed in these areas to take the increased weight.

Due to the large weight of the steel structure supporting the main seating rakes, isolated concrete beams were installed. The movement joints between the isolated beams and the floating floors allowed both systems to meet the acoustic specification.



## CASE STUDY – CDM-ISO-FLOOR

CDM-UK  
 PO Box 7035  
 Melton Mowbray  
 Leics LE13 1WG



noise & vibration control

T: + 44 (0) 1664 482486  
 F: +44 (0) 1664 482487  
 E: info@cdm-uk.co.uk  
 www.cdm-uk.co.uk