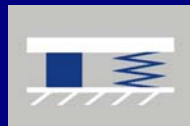


Health & Safety Laboratories



Anechoic Chamber - Box-in-Box CDM-ISO-FLOAT-CHR



Image of completed site



Client	Health & Safety Laboratories
Main Contractor	Shepherd Construction
Architect	DLA Architecture
Partner	Industrial Acoustics Company
Area	100m²

The new Health and Safety Laboratories (HSL) just outside Buxton, Derbyshire, is located in the beautiful and rugged countryside of the Peak District. The new development is on the same site as the existing buildings and will become a world leading test facility for health and safety.



Part of HSL is the well renowned Acoustic Division which deals with all health and safety issues regarding noise and vibration. The new Anechoic Chamber was required to be fully isolated from the supporting structure and a sprung 300mm concrete floating floor was specified with only a 69mm air void beneath the slab creating an overall system thickness of 369mm.



The springs in the channels

CDM-UK used specially designed CDM-ISO-CHR springs with steel plates top and bottom to make the overall height of the springs 85mm before deflection. These springs were mounted into inverted C-channels into which composite metal decking was fixed. Under deflection the springs become 69mm therefore allowing the total system height to be 169mm.



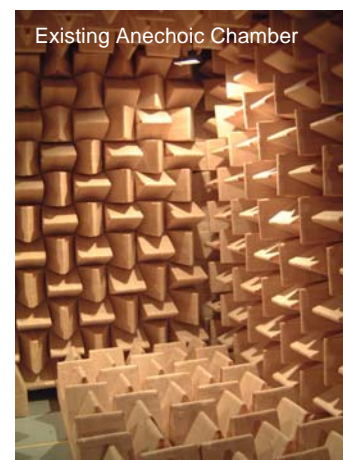
A spring in the channel



With composite decking and mineral fibre



View of building across Peak District



Existing Anechoic Chamber

CASE STUDY – CDM-ISO-BOX

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