

# Hush Acoustics - Case Study | Residential

## APARTMENT CONVERSION



Hush Acoustics were called to Douglas, the capital of the Isle of Man and home to a beautiful mid terraced property recently converted into 4 spacious apartments over 4 floors.

The apartments are situated very close to the road and after spending time inside, some road traffic as well as public background noise could be heard from inside the property.

It was important to ensure appropriate acoustic measures were carried out when converting this existing property into apartments and that the party walls and/or ceilings met the required standards for conversion under the Building Regulations, Approved Document E.

Working with Andrew Bentley, the architect and Kevin Cretney of Kinrade Construction, we detailed the following specification;

### HD1044 Acoustic Basement System

This system has been created with residential properties in mind and is made up of a combination of materials that offer excellent sound reduction within the specified area.

The basement system is made up of Hush Slab 100 which is tightly packed within the joists, Hush Deep Resilient Bars, which are fixed horizontally to the underneath of the joists and Hush Multi Panel which is fixed to the underside of the bars. 15mm of Fireline Plasterboard is then used to over board the Multi Panel.

### HD1041 Acoustic Wall Lining System

This system has been thoroughly tested to exceed Building Regulations and our competitor's wall lining products. It is made up of Hush Multi Panel, the 15mm Fireline which is then installed over, ensuring joints are staggered. The perimeters are sealed using Hush Isolation Tape, as well as our Acoustic Sealant. These boards are then fixed to the Deep Resilient Bars and Hush Slab 25 is fitted in between. The Bars are then fixed horizontally to the wall.

The benefits of this system are its high standards of airborne sound reduction, can reduce both flanking and direct sound transmission and creates a minimum loss of space.



### HD1038 Hush Acoustic Floor System MF28

This floor system is a highly rated performer and has again been thoroughly tested within areas that require exceptional acoustic control. Made up of Hush Panel 28 which is laid over the chipboard deck and sealed using Hush Seal 20. The Hush MF Ceiling System is then installed to the underside of the joists, to the back of the plasterboard lining. Hush Slab 100 is then installed tightly within the ceiling void. Two layers of plasterboard is then installed to the underside of the MF system and all perimeters sealed with the Hush Acoustic Sealant.

Tests carried out in September 18, showed immediate results which completely exceeded the acoustic requirements for conversion within the Building Regulations and also surpassed New Build standards.

*Our flats passed the sounds test. Thank you for all your help and support. I will be happy to use your products again in future.*

**Andrew Bentley – Chartered Architect**

**If you would like to speak to us about your conversion project, please do not hesitate to contact us on 0151 933 2026 or alternatively you can send information by email [info@hushacoustics.co.uk](mailto:info@hushacoustics.co.uk)**

## FAST FACTS

Client	Andrew Bentley – Chartered Architect
Location	12 Rosemount, Douglas, Isle of Man
Sector	Residential

## PRODUCTS USED

HD1044: Acoustic Basement System

HD1041: Acoustic Wall Lining System

HD1038: Hush Acoustic Floor System MF28

## ACOUSTIC ACHIEVEMENTS

- Acoustic testing carried out after completion of the conversion, showed instant results and exceeded New Build Standards.

## HUSH ACOUSTICS

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