

## Aqua Elite Floating Floor Underlay

### Acoustic Predictions: Impact Insulation Class (IIC)

#### 9.2mm European Hardened Timber on Belgotex Aqua Elite

Suspended Ceiling	Cavity Insulation	150mm Concrete	200mm Concrete
		IIC	IIC
None	None	49	53
100mm cavity with 1 x 13mm plasterboard	None	60	63
	75mm Glasswool	62	64
200mm cavity with 1 x 13mm plasterboard	None	61	64
	75mm Glasswool	63	65
200mm cavity with 2 x 13mm plasterboard	None	64	67
	75mm Glasswool	65	68

#### 10mm European Hardened Timber on Belgotex Aqua Elite

Suspended Ceiling	Cavity Insulation	150mm Concrete	200mm Concrete
		IIC	IIC
None	None	50	54
100mm cavity with 1 x 13mm plasterboard	None	61	64
	75mm Glasswool	63	65
200mm cavity with 1 x 13mm plasterboard	None	62	65
	75mm Glasswool	64	66
200mm cavity with 2 x 13mm plasterboard	None	65	68
	75mm Glasswool	66	69

#### 11.3mm European Hardened Timber on Belgotex Aqua Elite

Suspended Ceiling	Cavity Insulation	150mm Concrete	200mm Concrete
		IIC	IIC
None	None	48	53
100mm cavity with 1 x 13mm plasterboard	None	60	64
	75mm Glasswool	63	65
200mm cavity with 1 x 13mm plasterboard	None	61	65
	75mm Glasswool	63	66
200mm cavity with 2 x 13mm plasterboard	None	64	68
	75mm Glasswool	65	69

Fails NZ Building Code requirement

Meets NZ Building Code requirement (within in-situ tolerance)

Exceeds NZ Building Code requirement



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### **Acoustic Predictions: Impact Insulation Class (IIC)**

Note:

These acoustic predictions were prepared by an independent acoustic consultant using the Insul Computer Program and are based on test data from acoustic testing conducted at the University of Auckland – Acoustics Testing Service. These predictions rely on the following assumptions:

- The suspended concrete slab and plasterboard ceiling are perfectly sealed and performing at their optimal acoustical level
- The hard flooring is installed correctly, with no bridging of the Aqua Elite underlay

While the prediction results provide a useful indication of expected performance, these should not be interpreted as a definitive outcome. Actual acoustic performance can only be confirmed through on-site testing.

If you need clarification, please contact your Belgotex Business Development Manager (BDM) or email us at [info@belgotex.co.nz](mailto:info@belgotex.co.nz).