

## Aqua Elite Floating Floor Underlay

### Acoustic Predictions: $L_{n,w}$ and AAAC Star Ratings

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

Suspended Ceiling	Cavity Insulation	150mm Concrete	200mm Concrete
		$L_{n,w}$ AAAC Star Rating	$L_{n,w}$ AAAC Star Rating
None	None	61 ★★	57 ★★
100mm cavity with 1 x 13mm plasterboard	None	50 ★★★★	46 ★★★★
	75mm Glasswool	48 ★★★★	44 ★★★★★
200mm cavity with 1 x 13mm plasterboard	None	49 ★★★★	46 ★★★★
	75mm Glasswool	47 ★★★★	43 ★★★★★
200mm cavity with 2 x 13mm plasterboard	None	46 ★★★★	42 ★★★★★
	75mm Glasswool	45 ★★★★★	41 ★★★★★

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

Suspended Ceiling	Cavity Insulation	150mm Concrete	200mm Concrete
		$L_{n,w}$ AAAC Star Rating	$L_{n,w}$ AAAC Star Rating
None	None	60 ★★	56 ★★
100mm cavity with 1 x 13mm plasterboard	None	49 ★★★★	46 ★★★★
	75mm Glasswool	47 ★★★★	43 ★★★★★
200mm cavity with 1 x 13mm plasterboard	None	49 ★★★★	45 ★★★★★
	75mm Glasswool	46 ★★★★	42 ★★★★★
200mm cavity with 2 x 13mm plasterboard	None	45 ★★★★★	41 ★★★★★
	75mm Glasswool	45 ★★★★★	40 ★★★★★

## Aqua Elite Floating Floor Underlay

### Acoustic Predictions: $L_{n,w}$ and AAAC Star Ratings

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

Suspended Ceiling	Cavity Insulation	150mm Concrete	200mm Concrete
		$L_{n,w}$ AAAC Star Rating	$L_{n,w}$ AAAC Star Rating
None	None	62 ★★	57 ★★
100mm cavity with 1 x 13mm plasterboard	None	50 ★★★★	46 ★★★★
	75mm Glasswool	47 ★★★★	43 ★★★★★
200mm cavity with 1 x 13mm plasterboard	None	49 ★★★★	45 ★★★★★
	75mm Glasswool	47 ★★★★	43 ★★★★★
200mm cavity with 2 x 13mm plasterboard	None	46 ★★★★	42 ★★★★★
	75mm Glasswool	45 ★★★★★	41 ★★★★★

Meets NCC requirement

Exceeds NCC requirement

#### 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.com.au](mailto:info@belgotex.com.au).