

8mm Laminate 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 ★★★★★

12mm Laminate 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 ★★	58 ★★
100mm cavity with 1 x 13mm plasterboard	None	51 ★★★	47 ★★★★
	75mm Glasswool	48 ★★★★	44 ★★★★★
200mm cavity with 1 x 13mm plasterboard	None	50 ★★★★	46 ★★★★
	75mm Glasswool	48 ★★★★	42 ★★★★★
200mm cavity with 2 x 13mm plasterboard	None	47 ★★★★	42 ★★★★★
	75mm Glasswool	46 ★★★★	41 ★★★★★

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 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:

The acoustic predictions above 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.