

PRACTICE NOTE 9/2015



INTERPRETATION OF THE SHOTOVER COUNTRY ACOUSTIC INSULATION RULE

INTRODUCTION

This practice note confirms Council's practice with regard to the acoustic insulation requirements for activities sensitive to aircraft noise in the Shotover Country Special Zone.

BACKGROUND

The relevant rule states:

Rule 12.30.5.2 Zone Standards
(viii) Airport Noise – Queenstown Airport

- a) *On any site located within the zone, any building or part of a building used for an Activity Sensitive to Aircraft Noise shall be insulated from aircraft noise so as to meet an indoor design level of 40 dBA Ldn, except for non-critical listening environments where no special sound insulation is required. This control shall be met in either of the following two ways:*

EITHER:

- (i) *By providing a certificate from a recognised acoustic engineer stating that the proposed construction will achieve the internal design noise level.*

OR:

- (ii) *The building shall be constructed and finished in accordance with the provisions of Table 4.*

TABLE 4

TABLE 4: SOUND INSULATION REQUIREMENTS – ACCEPTABLE CONSTRUCTIONS.

Building Element	Minimum Construction	
External Walls	Exterior Lining:	Brick or concrete block or concrete, or 20mm timber or 6mm fibre cement
	Insulation:	Not required for acoustical purposes
	Frame:	One layer of 9mm gypsum or plasterboard (or an equivalent combination of exterior and interior wall mass)
Windows / Glazed Doors	4mm glazing with effective compression seals or for double glazing 6mm-6mm airgap-6mm	
Pitched Roof	Cladding:	0.5mm profiled steel or masonry tiles or 6mm corrugated fibre cement
	Insulation:	100mm thermal insulation blanket/batts
	Ceiling:	1 layer 9mm gypsum or plaster board
Skillion Roof	Cladding:	0.5mm profiled steel or 6mm fibre cement
	Sarking:	None Required
	Insulation:	100mm thermal insulation blanket/batts
Ceiling:	1 layer 9mm gypsum or plasterboard	
External Door	Solid core door (min 24kg/m ²) with weather seals	

NOTE: The specified constructions in this table are the minimum required to meet the acoustic standards. Alternatives with greater mass or larger thicknesses of insulation will be acceptable. Any additional construction requirements to meet other applicable standards not covered by this rule (e.g. fire, Building Code etc) would also need to be implemented

INTERPRETATION

Council has received and had peer reviewed an acoustic certificate that confirms that any newly constructed residential dwelling that complies with the Building Code will achieve an indoor design level of 40 dBA Ldn.

Council's interpretation and administration of this rule going forward is that for any new residential dwelling being constructed in Shotover Country, no additional acoustic certificate or use of the specific materials listed in Table 4 will be required to show compliance with Zone Standard 12.30.5.2.

This Practice Note is limited to residential dwellings and excludes buildings for non-residential activities such as day care centres.

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