

INFORMATION SHEET

ACOUSTIC PERFORMANCE



The information provided below has been taken from the New Zealand Timber Design Guide 2007, published by the Timber Industry Federation and edited by Professor A H Buchanan. To purchase a copy of the Timber Design Guide, visit www.nztif.co.nz

Minimum levels of noise control for different applications

Acoustic comfort	Rating		Application
	STC IIC	FSTC FIIC	
Multi-unit apartments – Inter-tenancy			
Seldom disturbed	65+	65	Difficult to achieve in practice.
Sometimes disturbed	65	60	At these performance levels, low-frequency noise, such as from home theatres or loud music, requires specific consideration.
At least 80 percent satisfaction	60	55	Careful detailing is required. External noise and services can become limiting factors.
At least 50 percent satisfaction	55	50	Building Code clause G6 minimum requirement for protection of household units within multi-unit apartments. Also recommended for semi-permanent accommodation, such as boarding houses and retirement centres, and for transient accommodation, such as hotels, motels.
Sub-inter-tenancy			
Average	50	45	A minimum level recommended for applications such as transient accommodation buildings.
Low	45	40	Recommended only for internal partitions in commercial buildings or offices, where a limited degree of privacy is required.