## **Acoustic Performance**

Acoustic performance is becoming more important as builders are needing to meet more stringent standards set by local certifiers in all aspects of the building. For this report, some of the acoustic related standards we have worked with include:

## Impact Sound Insulation

Measured to: ISO 717.2 - Rating of sound insulation in buildings and of building elements. Rated to: AS/NZS ISO 140.7 - Measurement of sound insulation in buildings and of building elements - Field measurements of impact sound insulation of floors.

## Impact Isolation Class

Measured to: ISO 717.2 - Rating of sound insulation in buildings and of building elements. Rated to: AS/NZS ISO 140.7 - Measurement of sound insulation in buildings and of building elements - Field measurements of impact sound insulation of floors. Calculated according to: ASTM E492-90 and ASTM E989-06.

It is challenging to provide acoustic information because every building provides unique results and there are a number of ways that a subfloor and ceiling can be constructed, which will each contribute more or less to the overall acoustic performance of the flooring system.

To provide as much information as possible, Godfrey Hirst has partnered with an acoustic engineering firm to perform real-world site testing and then to use their expert opinion and modelling software to provide estimates of what many of the most common construction methods should achieve. This is to help the client understand how our product performs in order to make the best decisions possible as they select materials for their project. In situ/ on site testing may still be required as this is the only way the actual acoustic rating of a specific installation can be determined. As a guide to interpreting the results shown in the following table, the lower the LnTw figure, the better the performance and for AIIC, the higher the better.

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This document provides acoustic results for a range of Godfrey Hirst hard flooring products in various commercial and multi-residential applications. These acoustic values are indicative only. Each project should be assessed by the project's acoustic engineer to make sure your chosen product is suitable for the application.

Laminate Legac Hybrid Apollo Hybrid Apollo Hardv Hybrid Metro	or Classic, Belle XL, acy 2 illo 4 illo XL, Apollo 4 dwood, Apollo Stone	2.0mm IXPE 2.0mm IXPE Attached in manufacturing Attached in manufacturing		51 53 51 52 51	55 49 55 48	50 54 50	47 55	49 55	49 55	6968-2.17
LaminateAmor LegadHybridApolloHybridApolloHybridMetro	or Classic, Belle XL, acy 2 illo 4 illo XL, Apollo 4 dwood, Apollo Stone	2.0mm IXPE 2.0mm IXPE Attached in manufacturing Attached in manufacturing	AllC Ln'T,w AllC Ln'T,w AllC	53 51 52	49 55	54	55			6968-2.17
Laminate Legac Hybrid Apollo Hybrid Apollo Hardv Hybrid Metro	acy Allo Allo Allo Allo Allo Allo Allo All	2.0mm IXPE Attached in manufacturing Attached in manufacturing	AIIC Ln'T,w AIIC	52		50				6968-2.17
Hybrid Apollo Hardv Hybrid Metro	illo XL, Apollo dwood, Apollo Stone	Attached in manufacturing	Ln'T,w AllC	51	-+U	53	47 54	49 54	49 54	6968-2.18
Hybrid Hardv Hybrid Metro	dwood, Apollo Stone	Attached in manufacturing		52	55 48	50 53	47 54	49 54	49 54	6968-2.9
Hybrid Metro			AIIC	50 53	54 49	49 54	46 55	48 55	48	6968-2.11
Vinyl Plank Olymp		Attached in manufacturing	Ln'T,w AllC	51 53	54 49	49 54	46 55	48 55	48 55	6968-2.20
	mpus DS	Nil	Ln'T,w AllC	66 37	70 33	65 38	62 39	64 39	64 39	6968-2.1
Vinyl Plank Reger	ent DS	Nil	Ln'T,w	65	69 33	64 38	61 39	63 39	63 39	6968-2.2
Vinyl Plank Modu	duleo M	Nil	Ln'T,w AllC	65 37	69 33	64 38	61 39	63 39	63 39	6968-2.3
Vinyl Plank Reger	ent DS Plus	Nil	Ln'T,w AllC	63 40	67 36	62 41	59 42	61 42	61	6968-2.4
	ila DS Plus, dic Oak	Nil	Ln'T,w AllC	65 38	69 34	64 39	61 40	63 40	63 40	6968-2.5
		2mm Bubber	Ln'T,w AllC	54 49	58 45	53 50	50 51	52 51	52	6968-2.1
Vinyl Plank Reger	ent DS 2	2mm Rubber	Ln'T,w AllC	49 54 49	45 58 45	53 50	50 51	52 51	50	6968-2.2
Vinyl Plank Modu	duleo 2	2mm Rubber		54 50	58 46	53 51	50 52	52 52	52 52	6968-2.3
Vinyl Plank Reger	ent DS Plus 2	2mm Bubber	Ln'T,w AllC	53 50	57 46	52 51	49 52	51 52	51	6968-2.4
VINVI Plank	ila DS Plus, dic Oak	2mm Rubber	Ln'T,w AllC	53 50	57 46	52 51	49 52	51 52	51 52	6968-2.5
		2.0mm IXPE	Ln'T,w AllC	52 51	56 47	51 52	48 53	50 53	50	6968-2.6
Engineered Timber Pione	neer 2	2 0mm IXPE	Ln'T,w AllC	53 50	57 46	52 51	49 52	51 52	51 52	6968-2.7
Engineered Timber Corsid	sica Oak 2	2mm Rubber	Ln'T,w AllC	53 50	57 46	52 51	49 52	51 52	51	6968-2.6
Engineered Timber Pione	neer 2	2mm Bubber		55	59	54	51	53	53	

