Soundproofing concrete floors

- Up to 50% cost saving
- Permanently bonded and does not become drummy
- Water-based and green-friendly
- Faster and simpler to apply
- Exceeds the acoustic requirements of the Building Code

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Save time and cost soundproofing concrete floors in multilevel buildings using high-quality Australian made and developed mat/adhesive to bond ceramic tiles internally/externally on balconies and wet areas.

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Acoustic Adhesive

FULLY BONDED
WILL NOT BECOME DRUMMY

WATER RESISTANT

Acoustic Underlays

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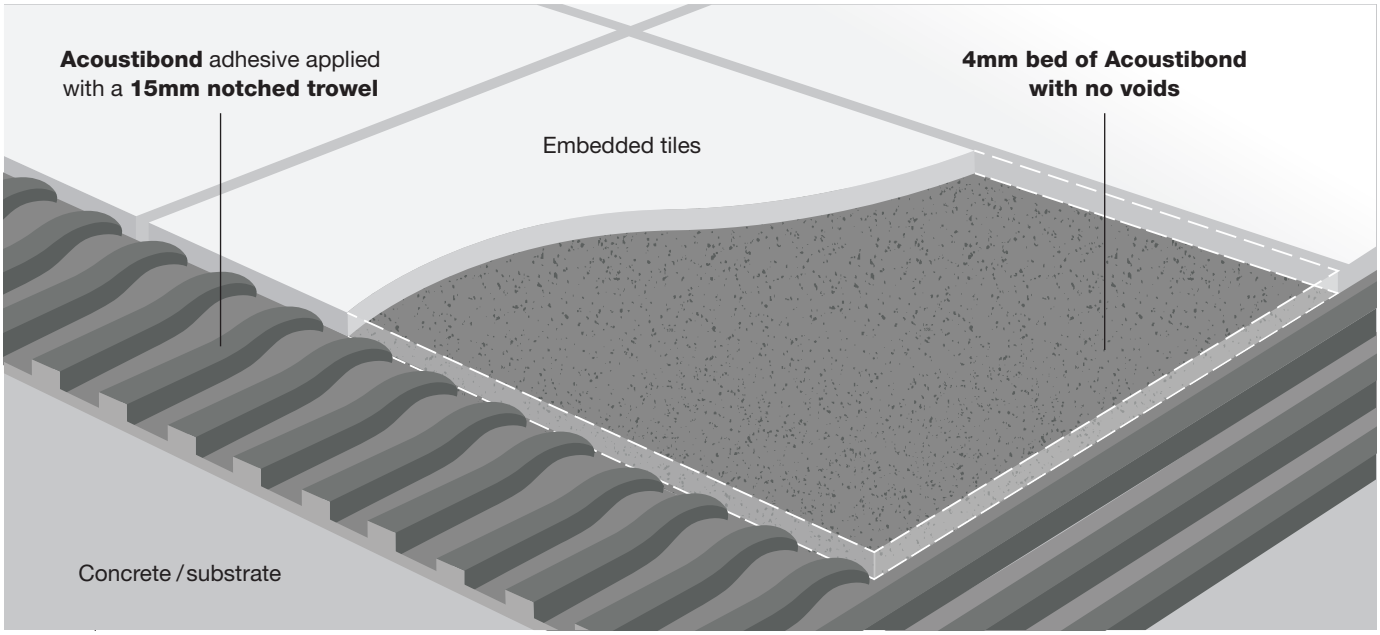
Create a fully-bonded acoustic bed with Acoustibond.

Acoustibond is a water-resistant, acrylic / rubber crumb, ceramic, porcelain and stone tile adhesive with soundproofing properties. Suitable for shower alcoves and balconies. Embedding tiles into the Acoustibond adhesive creates a fully-bonded 4mm acoustic bed with no voids.

Acoustibond

Water-resistant, soundproofing* ceramic, porcelain and stone tile adhesive.

Coverage
2 x 12.5kg powder plus 20L liquid/ 8-10m² using 15mm notched trowel, over a true surface to give a minimum 3mm dry adhesive bed thickness.



Self-level floors with acoustic underlays before tiling.

Acoustiscreed

Soundproofing* ceramic, porcelain and stone tile screed.

Coverage
20 litres of liquid plus 2 x 12.5kg powder covers approximately 5-6m² at 6mm thick using a 6mm Dribond pegged trowel.

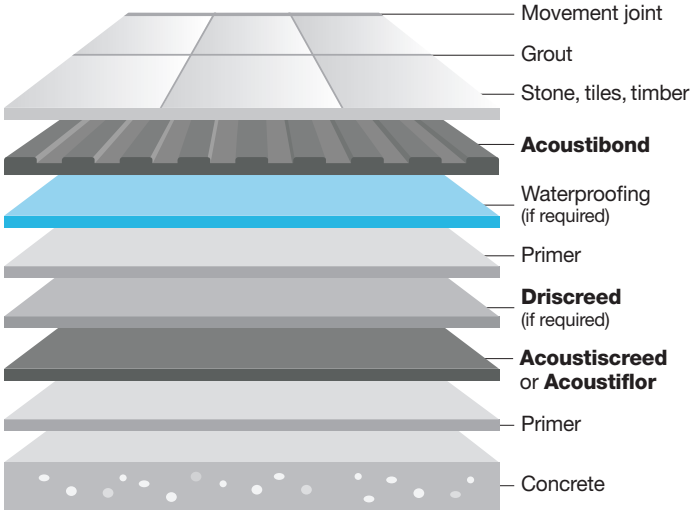
Acoustiflor

Soundproofing* and anti-fracture membrane.

Coverage
20 litres of liquid mixed with 20kg of powder covers 7m² at 6mm thick using a 6mm Dribond pegged trowel.

*Impact noise

Application



Impact noise test results

200mm concrete slab 150mm cavity (no insulation) 13mm plasterboard	**Decibels (dB) L'nT,w**	**Noise reduction**
Bare Floor	60dB	**Changes in sound level** 3dB=Clearly noticeable, 10dB=Half as loud
10mm thick ceramic tiles 3mm **Acoustibond**	48dB	12dB
10mm thick ceramic tiles 3mm **Acoustibond** 6mm **Acoustiscreed**	45dB	15dB
10mm thick ceramic tiles 3mm **Acoustibond** 6mm **Acoustiflor**	44dB	16dB

The L'nT,w rating will vary depending on the building construction (i.e. concrete thickness, strength, use of suspended ceilings, density of tile/stone, and installation details). An accurate test is recommended for specific site performance figures.

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Acoustic Test Results

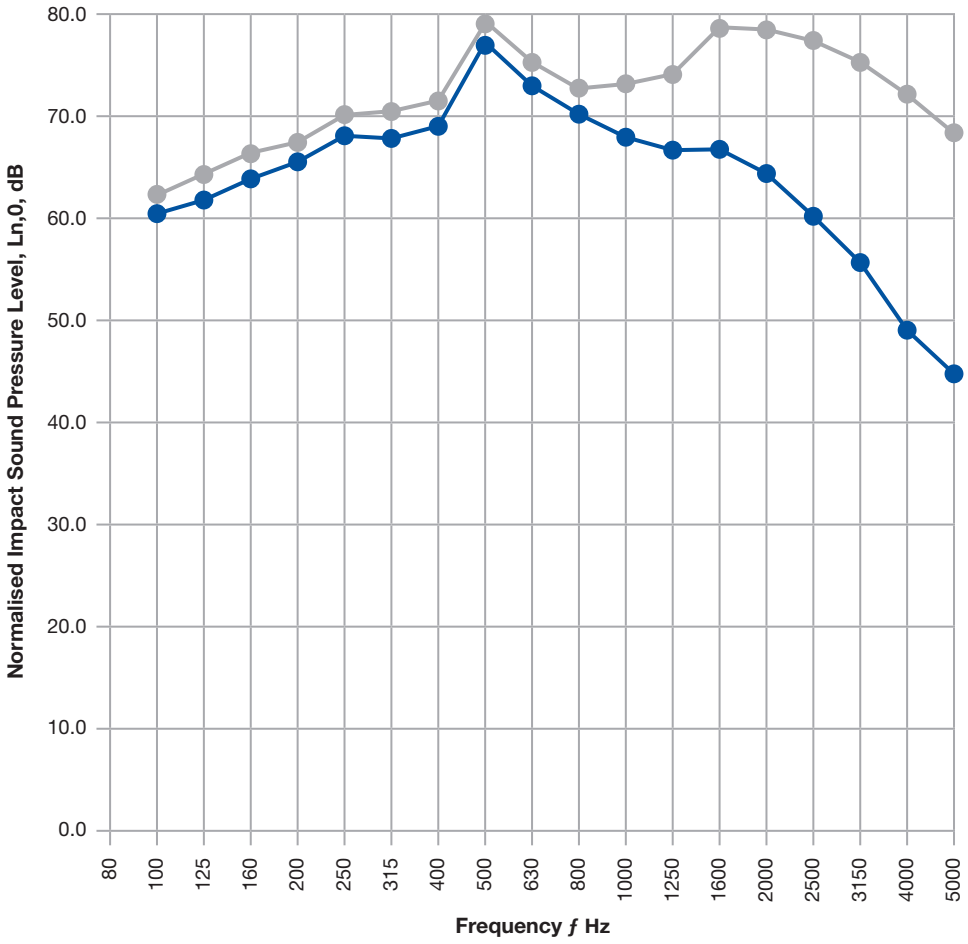
Laboratory measurement of the reduction of transmitted impact sound of porcelain tiles on **Acoustibond** adhesive.

Laboratory Test
University of Auckland
Acoustic Testing Service

Standard
Tested in accordance with ISO 10140-3

Test Date
24 July 2015

Construction
Bare 140mm concrete slab
Layer 1 - 3-5mm layer of **Acoustibond**
Layer 2 - 10mm porcelain tiles



Frequency ƒ Hz	Ln,0 One-third octave dB	ΔL One-third octave dB
100	**62.0**	**0.4**
125	**64.2**	**2.1**
160	**67.0**	**2.4**
200	**68.6**	**0.7**
250	**70.3**	**1.7**
315	**70.5**	**2.5**
400	**71.7**	**2.8**
500	**79.5**	**1.5**
630	**75.7**	**1.9**
800	**72.4**	**2.1**
1000	**72.6**	**3.9**
1250	**73.5**	**6.5**
1600	**78.9**	**11.5**
2000	**78.7**	**14.4**
2500	**77.1**	**16.2**
3150	**75.8**	**19.0**
4000	**72.1**	**22.5**
5000	**68.5**	**23.5**

Bare 140mm concrete slab — **3-5mm of Acoustibond, 10mm porcelain tiles**

Ln,w 72dB — **Ln,w 61dB**

Acoustic Improvement ΔLw **11dB**

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Acoustic Test Results

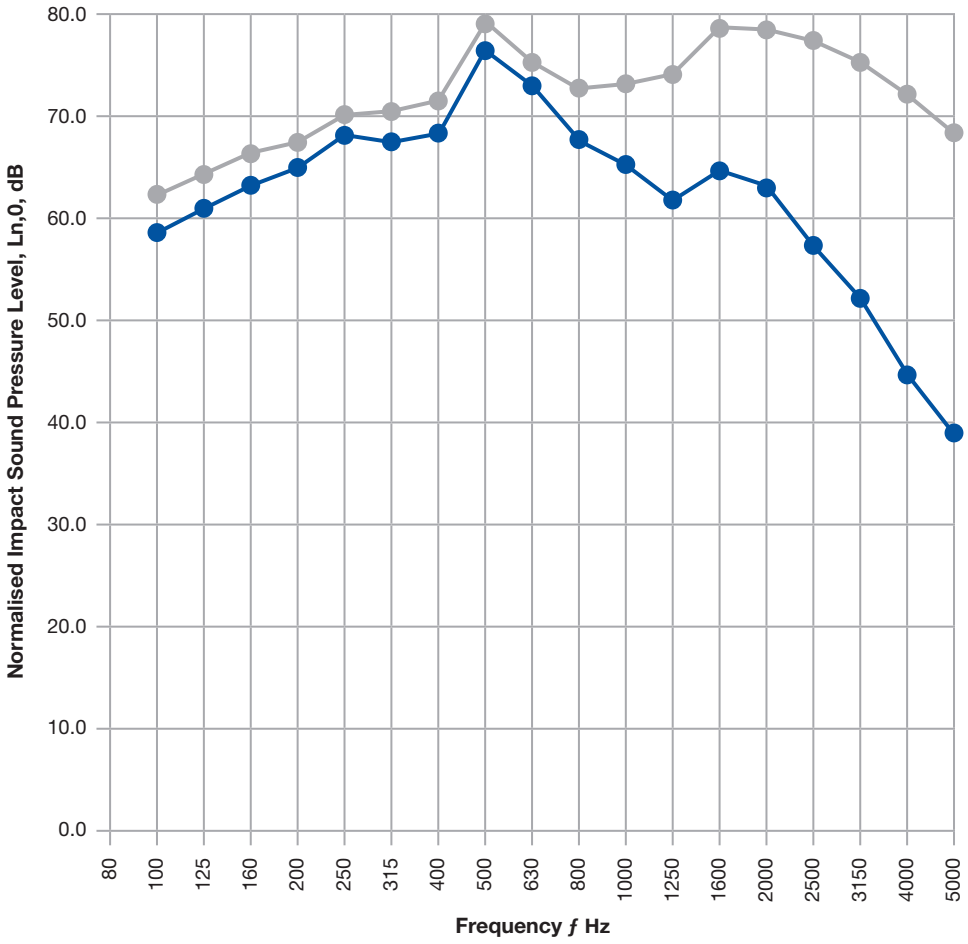
Laboratory measurement of the reduction of transmitted impact sound of porcelain tiles on **Acoustiflor** and **Acoustibond** adhesives.

Laboratory Test
University of Auckland
Acoustic Testing Service

Standard
Tested in accordance with ISO 10140-3

Test Date
21 July 2015

Construction
Bare 140mm concrete slab
Layer 1 - 4.5mm layer of **Acoustiflor**
Layer 2 - 5mm layer of **Acoustibond**
Layer 3 - 10mm porcelain tiles



Frequency ƒ Hz	Ln,0 One-third octave dB	ΔL One-third octave dB
100	**62.0**	**2.5**
125	**64.2**	**2.5**
160	**67.0**	**3.4**
200	**68.6**	**3.0**
250	**70.3**	**0.7**
315	**70.5**	**2.0**
400	**71.7**	**2.1**
500	**79.5**	**1.6**
630	**75.7**	**2.0**
800	**72.4**	**4.0**
1000	**72.6**	**7.6**
1250	**73.5**	**12.0**
1600	**78.9**	**14.1**
2000	**78.7**	**15.4**
2500	**77.1**	**19.2**
3150	**75.8**	**24.0**
4000	**72.1**	**27.2**
5000	**68.5**	**28.8**

Bare 140mm concrete slab — **4.5mm of Acoustiflor, 5mm of Acoustibond, 10mm porcelain tiles**

Ln,w 69dB — **Ln,w 56dB**

Acoustic Improvement ΔLw **13dB**

Acoustic Testing Summary

State	Acoustic Engineer	Location	Underlay	Adhesive	Tile Depth mm	Slab Depth mm	Cavity mm	Bare Slab L'nT,w	L'nT,w	Change in Points
QLD	Dedicated Acoustics	External deck over habitable		Acoustibond	10	200	100	65	56	**9**
QLD	Dedicated Acoustics	Noosa Springs Hutchinsons	6mm Acoustiflor	Acoustibond	10	200	100	69	50	**19**
QLD	Dedicated Acoustics	Noosa Springs Hutchinsons	9mm Acoustiflor	Acoustibond	10	200	100	69	51	**18**
QLD	Alpha Acoustics	34 Picnic Pt Maroochydore	6mm Acoustiflor	Acoustibond	10	200	Nil	74	59	**15**
QLD	Alpha Acoustics	Deception Bay	6mm Acoustiflor	Acoustibond	10	180	Nil	71	61	**10**
QLD	Alpha Acoustics	Deception Bay	9mm Acoustiflor	Acoustibond	10	180	Nil	71	60	**11**
QLD	Alpha Acoustics	Parrearra Apartments		Acoustibond	10	200	Nil	69+Ci	55+Ci	**10**
QLD	Palmer Acoustics	Cutters Landing	9mm Acoustiflor	Acoustibond	10	170	Nil	70	50	**20**
QLD	Acoustic Works	Carmel by the Sea	6mm Acoustiflor	Acoustibond	9	180	Nil	71	62	**9**
QLD	Aecom Acoustics	Grocon	9mm Acoustiflor	Acoustibond	10	200	75	64	50	**14**
WA	Gabriels Environmental	Armagh Street Perth	6mm Acoustiflor			280	Nil	64	40	**24**
SA	Vipac Engineers	Infinity Apartments	5mm Acoustiflor	Acoustibond	10	300	100	49 FIIC	65 FIIC	**16**
SA	Vipac Engineers	Infinity Apartments		Acoustibond	10	300	100	49 FIIC	61 FIIC	**12**
SA	Vipac Engineers	Newport Quays Stage II		Acoustibond	8	200	150	68	56	**12**
WA	Gabriels Environmental	Ceressa Apartments	5mm Acoustiflor	Acoustibond	12	200	Nil	67	58	**9**
WA	Gabriels Environmental	Ceressa Apartments	5mm Acoustiflor	Acoustibond	6	200	Nil	67	55	**12**
WA	Gabriels Environmental	Ceressa Apartments	5mm Acoustiflor	Acoustibond	6	200	Nil	67	56	**11**
WA	Gabriels Environmental	Ceressa Apartments		Acoustibond	6	200	Nil	67	60	**7**
QLD	Palmer Acoustics	Norman Reach Bethany	6mm Acoustiflor	Acoustibond	8	240	117	66	51	**15**
SA	Vipac Engineers	Newport Quays	5mm Acoustiflor	Acoustibond	8	200	100+ins	64	52	**12**
SA	Vipac Engineers	Newport Quays		Acoustibond	8	200	100+ins	64	58	**6**
SA	Vipac Engineers	Newport Quays		Acoustibond	8	200	100+ins	64	57	**7**
WA	Gabriels Environmental	Soho Apartments	5mm Acoustiflor	Acoustibond	10	280	Nil	70	55	**15**
QLD	Ron Rumble	Allisee Apartments	5mm Acoustiflor	Acoustibond	9	200	250	70	50	**20**
QLD	Ron Rumble	Allisee Apartments	5mm Acoustiflor	Acoustibond	9	200	250+ins	69	48	**21**
WA	Gabriels Environmental	Adelaide Tce Perth		Acoustibond	10	200	Nil	70	61	**9**
WA	Gabriels Environmental	Adelaide Tce Perth	5mm Acoustiflor	Acoustibond	10	200	Nil	70	61	**9**
WA	Gabriels Environmental	Stone Street	5mm Acoustiflor	Acoustibond	10	172	Nil	70	58	**12**
QLD	Palmer Acoustics	Verve Broadbeach	5mm Acoustiflor	Acoustibond	10	220	170	66	58	**8**
K/L	Palmer Acoustics	Mont Kiara Damai	5mm Acoustiflor	Acoustibond	10	200	300	66	57	**9**
QLD	Palmer Acoustics	Ephraim Island	5mm Acoustiflor	Acoustibond	10	200	65	67	51	**16**
WA	Gabriels Environmental	Rivervale		Acoustibond	10	175	Nil	71	62	**9**
WA	Gabriels Environmental	Rivervale	5mm Acoustiflor	Acoustibond	10	175	Nil	71	59	**12**
WA	Gabriels Environmental	Rivervale	5mm Acoustiflor	Acoustibond	10	175	Nil	71	62	**9**
QLD	Palmer Acoustics	Riparian Plaza	5mm Acoustiflor	Acoustibond	8	250	65	66	56	**10**
WA	Gabriels Environmental	Delhi Apartments		Acoustibond	8	60 Form + 112 bed	Nil	65	62	**3**
WA	Gabriels Environmental	Delhi Apartments	5mm Acoustiflor	Acoustibond	8	60 Form + 112 bed	Nil	65	56	**9**
WA	Gabriels Environmental	Delhi Apartments		Acoustibond	8	60 Form + 112 bed	Nil	65	56	**9**
QLD	Ron Rumble	Cutters Landing Original	3mm Acoustiflor	Acoustibond	10	170	Nil	72	58	**14**
QLD	Ron Rumble	Cutters Landing Original	5mm Acoustiflor	Acoustibond	10	170	Nil	72	57	**15**
QLD	Ron Rumble	Cutters Landing Original		Acoustibond	10	170	Nil	72	62	**10**
VIC	Marshall Day	Yarra's Edge	5mm Acoustiflor	Acoustibond	8	180	300	43 FIIC	54 FIIC	**11**
QLD	Palmer Acoustics	Aria Apartments	5mm Acoustiflor	Acoustibond	10	220	65	67	51	**16**
WA	Gabriels Environmental	The Moorings		Acoustibond	8	172	100	69	59	**10**
WA	Gabriels Environmental	The Moorings	5mm Acoustiflor	Acoustibond	8	172	100	69	55	**14**
WA	Gabriels Environmental	Upper Eastside Apartments	5mm Acoustiflor			200 Delta +70 bed	200	59	41	**18**
WA	Gabriels Environmental	Panorama Apartments	5mm Acoustiflor			200 + 100 topping	300	65	44	**20**
WA	Gabriels Environmental	Panorama Apartments	5mm Acoustiflor	Acoustibond	8	200 + 100 topping	300	65	56	**9**
WA	Gabriels Environmental	Panorama Apartments	5mm Acoustiflor	Acoustibond	8	200 + 100 topping	300	58	49	**9**
SA	Vipac Engineers	Brewery Apartments	7mm Acoustiflor		10	180	350	41 FIIC	54 FIIC	**13**

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