



**It's not magic, it's engineering.®**

Impact and Airborne Sound Control

**ACOUSTIC UNDERLAY**

# GENIEMAT® FFNP

SIMPLE GUIDE FOR USING UNDERLAY IN WET & DRY APPLICATIONS



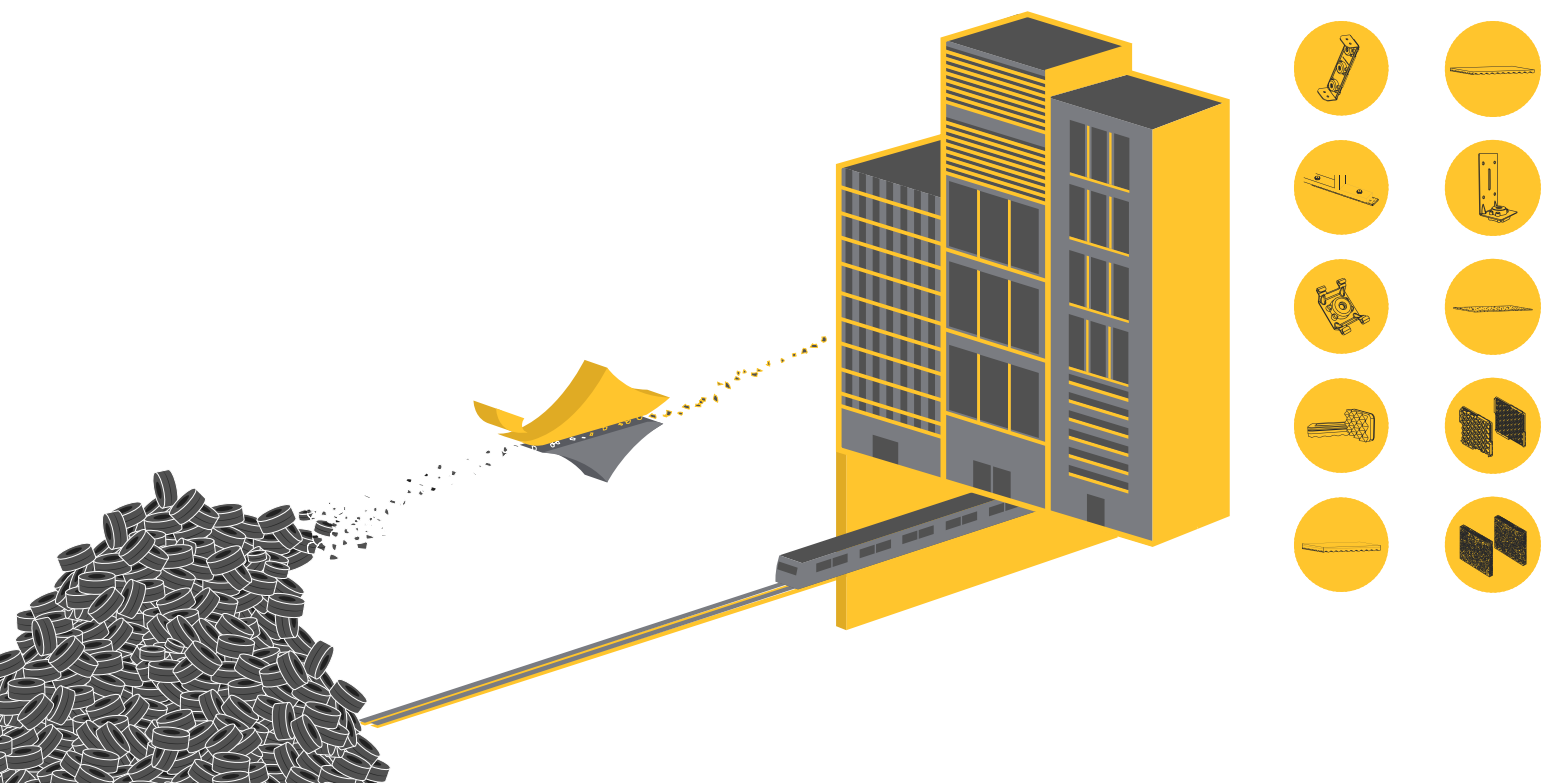
**National  
Construction  
Code**

# ABOUT PLITEQ

Pliteq® is an engineering company and global innovator in recycled building products for commercial sound control. Pliteq is deeply committed to continued engineering research and development of its many products and manufacturing processes. We currently have 5 new inventions under development and patents registered in the United States, Canada and many other countries worldwide. Pliteq has 12 UL listed products as well as numerous additional structural and building certifications. Testing is what sets us apart. Our engineers have completed over 2000 laboratory tests in the last ten years with a commitment to a monthly testing schedule as we consider only recent testing to be relevant for engineering purposes.

Pliteq recycles the equivalent of 5 million tires per year, with over 80 individuals in our 300,000 SF global manufacturing and warehousing facilities. The commitment to engineering and development has led to over 7000 completed commercial projects globally.

Pliteq is on a steady growth trajectory and will continue to be a leading innovator in architectural acoustics, vibration and sound control on a global scale.



# AUSTRALIAN STANDARDS



The NCC's Part F5.4 Sound transmission and insulation stipulates class 2 & 3 buildings must have an impact sound insulation rating of not more than  $L_{n,w}$  62.

\* $L_{n,w}$  IS A MEASUREMENT OF A FLOORING SYSTEM'S EFFECTIVENESS AT PREVENTING IMPACT NOISE FROM TRANSMITTING. THE LOWER THE RATING, THE HIGHER THE IMPACT SOUND REDUCTION PERFORMANCE OF THE SYSTEM.



The AAAC Star Rating ranks the acoustical quality of apartments and will promote better standards of acoustical quality in dwellings.

IMPACT ISOLATION OF FLOORS	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★
Between Tenancies $L_{nT,w} \leq$	65	55	50	45	40
Between All other Spaces & Tenancies $L_{nT,w} \leq$	65	55	50	45	40

\*THE HIGHER THE AAAC STAR RATING, THE BETTER THE IMPACT INSULATION.

# GENIEMAT<sup>®</sup> FFNP

## SOUND CONTROL UNDERLAYMENT

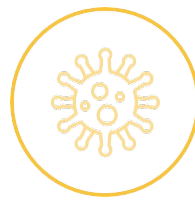
### INNOVATIVE AND RELIABLE SOUND ISOLATION

Robust reduced sound transmission mat made from 94% recycled content. Designed to reduce the transmission of impact sound generated by footfall noise for various types of structures for both residential and commercial use.

Compatible to use directly under various floor finishes such as vinyl, tiles, and wood or to use directly under screed or gypsum concrete in concrete, steel and wood construction.



FLOOR SCORE  
CERTIFIED



MOLD, BACTERIA  
& FUNGI RESISTANT



MADE IN CANADA



MEETS REQUIREMENTS  
FOR VOC



OVER 92%  
RECYCLED CONTENT



# — Timber Flooring



## GENIEMAT® FF03NP

Tested in accordance with ISO 16283-2:2020, AS ISO 717.2-2004.

\*Results based on unbonded floor. Results may slightly vary if floors are installed bonded.

Components		Measurements
Engineered Timber		15 mm
GenieMat® FF03NP		3 mm
Concrete Slab		200 mm
Ceiling Cavity		100 mm
Plasterboard Ceiling		10 mm

L'nTw 44 dB	FIC 66	Complies with NCC Part F5.4 <b>+18</b>
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AAAC Rating:



Other tests available upon request

## Cross-Section



# — Timber Flooring



## GENIEMAT® FF05NP

Tested in accordance with ISO 16283-2:2020, AS ISO 717.2-2004.

\*Results based on unbonded floor. Results may slightly vary if floors are installed bonded.

Components		Measurements
Engineered Timber		15 mm
GenieMat® FF05NP		5 mm
Concrete Slab		200 mm
Ceiling Cavity		100 mm
Plasterboard Ceiling		10 mm

L'nTw 43 dB	FIC 66	Complies with NCC Part F5.4 <b>+19</b>
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AAAC Rating:



Other tests available upon request

## Cross-Section





# — Hybrid Flooring



## GENIEMAT® FF03NP

Tested in accordance with ISO 16283-2:2020, AS ISO 717.2-2004.

\*Results based on unbonded floor. Results may slightly vary if floors are installed bonded.

Components		Measurements
Hybrid		6.5 mm
GenieMat® FF03NP		5 mm
Concrete Slab		200 mm
Ceiling Cavity		100 mm
Plasterboard Ceiling		10 mm

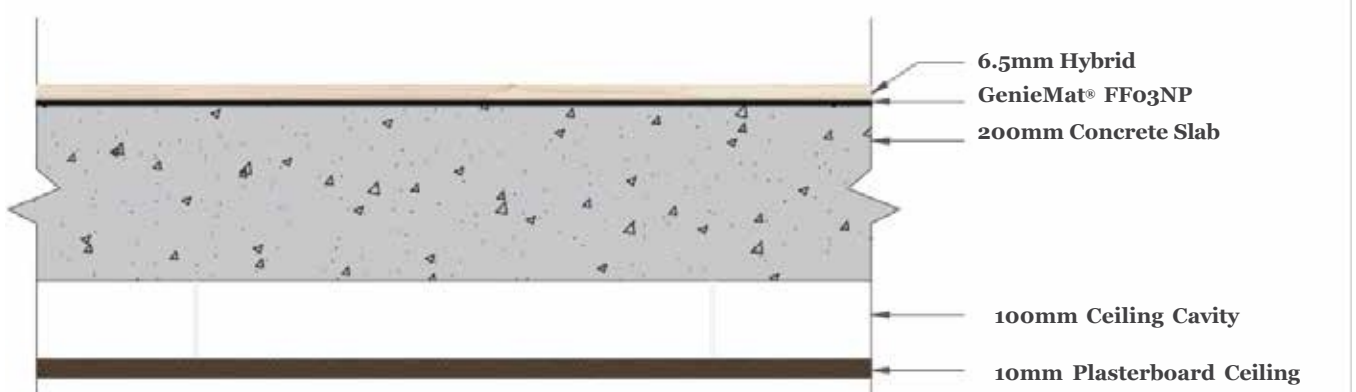
L'nTw 43 dB	FIC 66	Complies with NCC Part F5.4 <b>+19</b>
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AAAC Rating:



Other tests available upon request

## Cross-Section



# Laminate Flooring



## GENIEMAT® FF03NP

Tested in accordance with ISO 16283-2:2020, AS ISO 717.2-2004.

\*Results based on unbonded floor. Results may slightly vary if floors are installed bonded.

Components		Measurements
Laminate		12 mm
GenieMat® FF03NP		3 mm
Concrete Slab		200 mm
Ceiling Cavity		100 mm
Plasterboard Ceiling		10 mm

L'nTw 45 dB	FIIC 65	Complies with NCC Part F5.4
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AAAC Rating:



Other tests available upon request

+17

## Cross-Section





# — Engineered Wood Flooring



## GENIEMAT® FF05NP

Tested in accordance with ISO 16283-2:2020, AS ISO 717.2-2004.

\*Results based on unbonded floor. Results may slightly vary if floors are installed bonded.

Components		Measurements
Engineered Wood		8.35 mm
GenieMat® FF05NP		5 mm
Concrete Slab		200 mm
L'nTw 53 dB	Δ IIC 23	Complies with NCC Part F5.4

AAAC Rating:



Other tests available upon request

+9

## Cross-Section



# Vinyl Flooring



## GENIEMAT® FF05NP

Tested in accordance with ISO 16283-2:2020, AS ISO 717.2-2004.

\*Results based on unbonded floor. Results may slightly vary if floors are installed bonded.

Components		Measurements
Luxury Vinyl Tile		5 mm
GenieMat® FF05NP		5 mm
Concrete Slab		200 mm
L'nTw 51 dB	$\Delta$ IIC 25	Complies with NCC Part F5.4

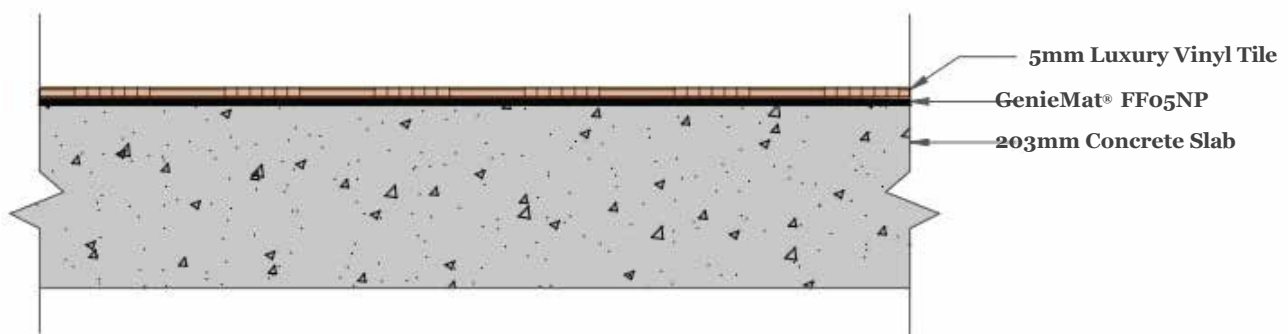
AAAC Rating:



Other tests available upon request

+11

## Cross-Section



# — Ceramic Tile Flooring



## GENIEMAT® FF05NP

Tested in accordance with ISO 16283-2:2020, AS ISO 717.2-2004.

\*Results based on bonded floor using thin set adhesive.

Components		Measurements
Ceramic Tile		8 mm
GenieMat® FF05NP		5 mm
Concrete Slab		200 mm
L'nTw 57 dB	$\Delta$ IIC 20	Complies with NCC Part F5.4

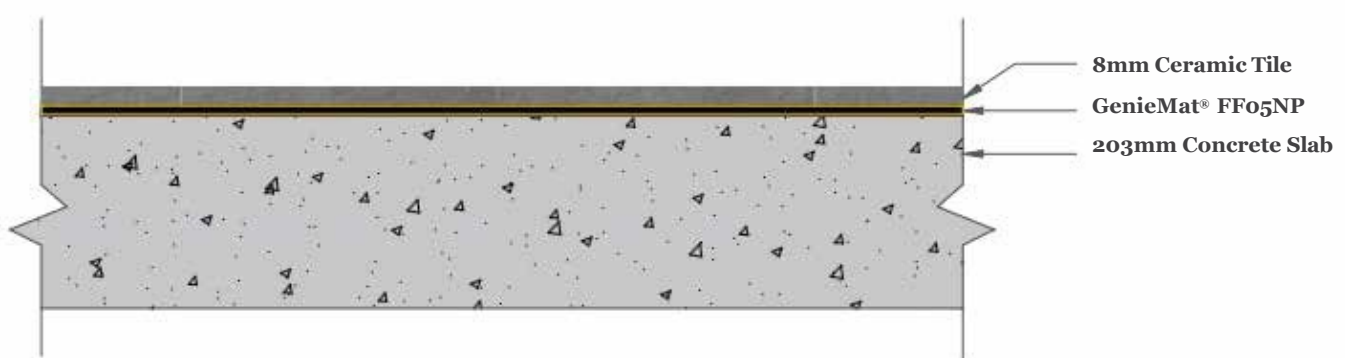
AAAC Rating:



Other tests available upon request

+5

## Cross-Section





# Around The World.

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