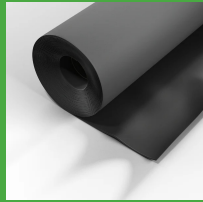


Carpet Underlay

- Sound Absorption
- Eco Friendly
- Extreme Durability
- Impact Isolation
- Comfort Underfoot
- Quick Installation
- Commercial spaces
- Modular/tiny homes
- NCC compliant



The NuWave range is a high density limp mass polymer that takes the energy out of sound waves right across the hearing frequency spectrum. NuWave Carpet Underlay utilises the benefits of NuWave with the foam insulation of a premium carpet underlay. The resulting product is a high performance, flexible and inexpensive way to control unwanted frequency and impact noise in both residential and commercial projects.

When noise and sound transmission needs to be effectively controlled, the NuWave range provides the solution that is highly durable and easy to install that ensures your project meets commercial construction standards and that flooring noise levels are effectively reduced.

Carpet Underlay Specifications

Barrier weight* (KG/M ²)	2	3.3	4
	Enhanced Low-Mass Formulae		
Acoustic Rw/STC rating, CAC, **	24	52 - 56 CAC***	26
Thickness* (mm)	1.3	1.7	2
Nominal Width* (mm)	1370	1370	1370
Usable Width (mm)	1350	1350	1350
Roll Size Linear Meter*	5	3	5
Nominal Roll Weight * (kg)	13.7	13.6	27.4
Intermittent Temp range (°C)	-40 to 120	-40 to 120	-40 to 120
Continuous Temp range (°C)	-40 to 100	-40 to 100	-40 to 100
VOC levels mg/m ² /hr	≤ 0.5	≤ 0.5	≤ 0.5

* All measurements are nominal, with a tolerance of +/- for each grade. ** Independently tested. Other roll lengths on request.

***CAC is a calculation of the total system, including ceiling tile. See full report for ceiling tile detail used to achieve these ratings.

10kg Calculated prediction values based on the Mass Law equation adjusted and compared to real-world data

Carpet Underlay Performance

Test	Description of Sample	STC rating	Rw (C, Ctr)
1	Thermotec NuWave 2kg/m ²	24	24 (-1,-4)
2	Thermotec NuWave 4kg/m ²	26	26 (-1,-3)

"Delivering Australian Made insulation excellence since 1987"

Carpet Underlay

Carpet Underlay Frequency Testing

Frequency (Hz)	2kg/m ² - (dB)	4kg/m ² - (dB)
100	11.5	15
125	12.9	16
160	13.7	13
200	12.9	15
250	13.1	18
315	15.6	17
400	17	20
500	18.9	21
630	21.5	23
800	23.7	25
1000	25.7	26
1250	27.4	28
1600	28.9	29
2000	29.7	31
2500	31	33
3150	32.5	35
4000	34.3	37
5000	35.3	42
Rw/STC	24	26
Rw(C,Ctr)	24(-1,-4)	26(-1,-3)

