

## Product Description

Tontine Nova is a flexible insulation blanket manufactured from thermally bonded polyester fibre. Nova provides both thermal and acoustic insulation. Nova has been designed for use with commercial cavity wall construction using steel studs and / or steel furring channels. The products are grey in colour. For more information and material safety data please refer to the Tontine Bonded Polyester Products Material Safety Data Sheet.

## Applications

Tontine Nova has been developed to enhance the thermal rating and low frequency acoustic performance of light weight walls and ceilings used in modern apartments and commercial developments. Refer to the Tontine Acoustic Design Guide to determine which Nova product will provide the best result to meet your requirements. Detailed below are 3 examples of Nova's use in typical commercial wall systems.

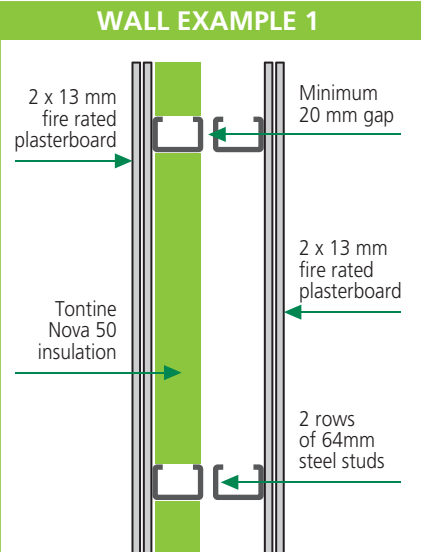
## Standard Sizes and Packaging

Product	Thickness ( mm )	Width ( mm )	Length ( m )	Number Per Pack	M <sup>2</sup> Per Pack
Nova 30	30	610	15	2	18.3
Nova 50	50	610	10	2	12.2
Nova 65	65	610	10	2	12.2
Nova 75	75	610	10	2	12.2
Nova 100	100	610	7	2	8.5

## Acoustic Performance

Rw is the weighted sound reduction index. It is a single number used to rate the effectiveness of a system as a noise barrier. An increase in one Rw unit approximately equals a reduction of one decibel in noise level. Ctr is a correction factor to Rw and puts more emphasis on low frequency noise transmission. Results are based on laboratory tests ( **highlighted in bold** ) and acoustic opinions.

### WALL EXAMPLE 1



2 x 13 mm fire rated plasterboard

Minimum 20 mm gap

2 x 13 mm fire rated plasterboard

Tontine Nova 50 insulation

2 rows of 64mm steel studs

2 layers of 13mm fire rated plasterboard screwed fixed to steel stud frame.

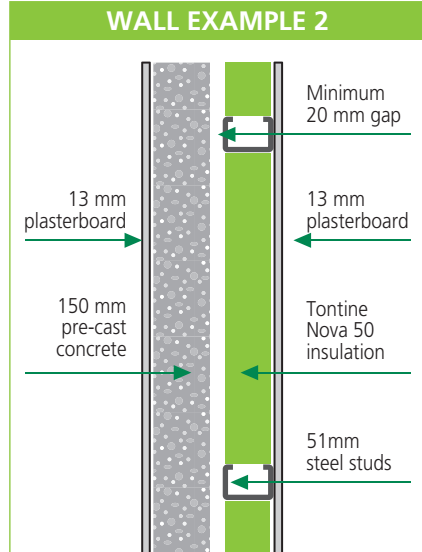
2 rows of 64mm steel studs @ 600mm centres spaced 20mm apart.

1 layer of Tontine Nova 50 in the cavity.

2 layers of 13mm fire rated plasterboard screwed fixed to steel stud frame.

**Rw = 61, Rw + Ctr = 51**

### WALL EXAMPLE 2



Minimum 20 mm gap

13 mm plasterboard

150 mm pre-cast concrete

Tontine Nova 50 insulation

51mm steel studs

1 layer of 13mm medium density plasterboard direct fixed to concrete wall

150mm pre-cast concrete wall

20mm airgap

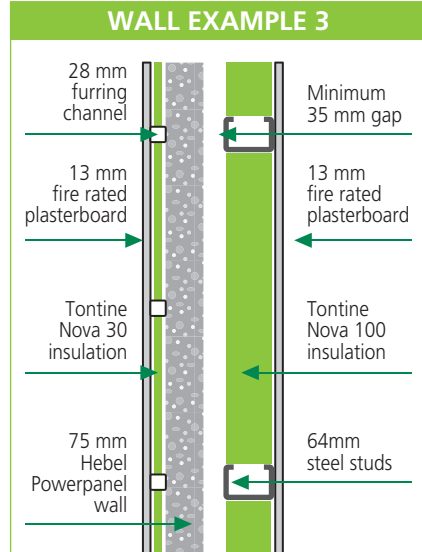
1 row of 51mm steel studs @ 600mm centres

1 layer of Tontine Nova 50 in the stud cavity

1 layer of 13mm medium density plasterboard

Rw = 60, Rw + Ctr = 50

### WALL EXAMPLE 3



28 mm furring channel

Minimum 35 mm gap

13 mm fire rated plasterboard

13 mm fire rated plasterboard

Tontine Nova 30 insulation

Tontine Nova 100 insulation

75 mm Hebel Powerpanel wall

64mm steel studs

1 layer of 13mm fire rated plasterboard screwed fixed to 28mm furring channel

Tontine Nova 30 in the furring channel cavity

75mm Hebel Powerpanel wall, 35mm airgap

1 row of 64mm steel studs @ 600mm centres

1 layer of Tontine Nova 100 in the stud cavity

1 layer of 13mm fire rated plasterboard

Rw = 63, Rw + Ctr = 52



# Nova

## Sound and Thermal Insulation Blanket



### Thermal Performance

Thermal ratings are based on testing in accordance with AS/NZS 4859.1 at 23°C mean temperature.

Product	R-Value
Nova 30	R 0.7
Nova 50	R 1.1
Nova 65	R 1.4
Nova 75	R 1.6
Nova 100	R 2.2

### Fire Resistance

When tested in accordance with AS1530.3 (1999), "Early Fire Hazard Properties of Materials", exhibits the following characteristics:

Ignitability Index	0
Spread of Flame Index	0
Heat Evolved	0
Smoke Developed Index	0 - 3

### Moisture Resistance

Exposure to an atmosphere of 50°C and 95% relative humidity for 4 days results in less than 0.2% by vol moisture absorption.

### Maximum Service Temperature

The maximum service temperature for Nova Sound Insulation Blanket is 150°C. When used with a vapour barrier facing, tolerance of the facing adhesive limits the surface temperature tolerance to 70°C.

### Environmental and Health Benefits

Recycled Fibre Content	80% minimum
Volatile Organic Compounds ( VOC's )	No harmful VOC's
Formaldehyde Content	Nil
Phenol Content	Nil
Ammonia Content	Nil
Ozone Depleting Potential ( ODP )	Nil
Chloride Content	Nil
Total Recyclable Content	100%

### How to Specify

The insulation material shall be Tontine Nova 30, 50, 65, 75, 100 as manufactured by Tontine Insulation. For walls, the product shall be fitted in one piece per stud opening to fill the entire area.

### General Installation Advice

Tontine Nova is safe and easy to install in walls or ceilings. Tontine Nova products are easily torn or cut with a pair of industrial scissors or shears. Offcuts can be used to fill corners, crevices and gaps, eliminating any waste. For walls, the insulation is placed between the wall studs or furring channels before the plasterboard is put in place. If required, lightly staple or tape insulation into position. No special clothing, gloves or masks required for installation. Allow up to one month for products subjected to compression packing to recover to nominal thickness.

### FOR FURTHER INFORMATION OR AN MSDS, CALL 1300 TONTINE OR E-MAIL [customercare@unitedbonded.com.au](mailto:customercare@unitedbonded.com.au)

In most cases product testing has been conducted in laboratory situation under controlled conditions. Site-measured performance may vary due to installation quality and site conditions. Thermal testing has been carried out in accordance with AS/NZS 4859.1, and acoustic testing in accordance with AS1045 or AS1191 in certified reverberation rooms. As these products are subject to constant research and development, we reserve the right to update the contents without notice. Recommendations regarding the use of products are to be taken as a guide only, and the purchaser should independently determine the suitability of a product for the intended application.

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