

# Thermotec NuWrap XtraFlex

FLEXIBLE LOW PROFILE ACOUSTIC PIPE INSULATION

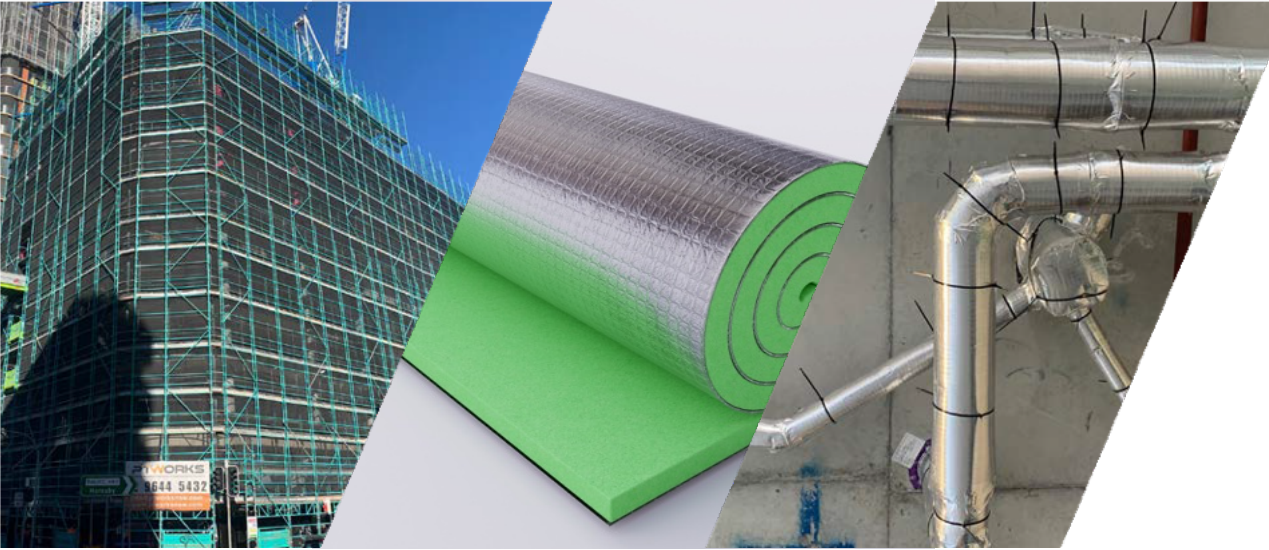


“Highly flexible and faster to install, everything that my team needs while saving me time and money on site!”

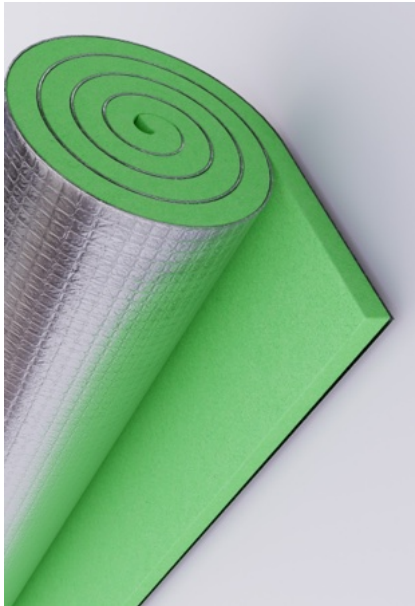
Thermotec customer feedback

- ✓ Exceeds NCC noise reduction requirements
- ✓ Safe fibre free product
- ✓ AS/NZS 1530.3 fire performance compliant
- ✓ Exceptional Flexibility
- ✓ Low Profile
- ✓ Green Star Compliant
- ✓ Ease of application
- ✓ Less material required
- ✓ Reduced carbon footprint





Thermotec NuWrap XtraFlex is a highly flexible acoustic pipe insulation product formulated with the latest visco-elastic polymer technology. It is faced with a reinforced fire resistant aluminium foil and bonded to a high performance acoustic foam. NuWrap XtraFlex is suitable for waste pipes, ductwork and a wide range of applications.



### Applications

- Hospitals & Aged Care Facilities
- Hotel & Entertainment
- Commercial Buildings  
Offices etc.
- Public Service Facilities &  
Buildings
- Shopping Centre Complex
- Multi Level Unit Housing
- Marine
- Mining
- Transport
- Media Room
- Luxury Accommodation  
Buildings

### Thermotec NuWrap XtraFlex meets modern building requirements

NuWrap XtraFlex exceeds the National Construction Code of Australia noise reduction requirements and other Specifier and Building Codes' acoustic requirements.

NuWrap XtraFlex is low profile and uses less material per metre of pipe, making the product lighter to handle, cost effective and easier to work with.

In difficult environments with limited space NuWrap XtraFlex is the perfect solution.

## XtraFlex performance

Exceeds  $R_w+C_{tr}$  40 for habitable rooms

Exceeds  $R_w+C_{tr}$  25 for non-habitable rooms

- Increased vibration dampening effect with improved sound transmission loss
- Reduced material requirements to meet NCC requirements
- Complies with ASNZS 1530.3 fire performance requirements
- Flexible barrier for ease of handling and application



## Comparison of Measured Noise Levels -dBA NCC Acoustic Comparison Test RWDI #2400506

Construction.	L Amax
Bare Pipe with a $R_w+C_{tr}$ 40 wall	<b>43.2</b>
Pipe Lagged with 3.6 kg/m <sup>2</sup> NuWrap XtraFlex with 15 mm foam and a wall thickness of 10mm Plasterboard	<b>42.9</b>

Therefore, based on the comparative noise testing, the treatment of wastewater pipework with NuWrap XtraFlex pipe lagging in combination with 10mm plasterboard ceiling complies with the provisions of section F7F1 of “The National Construction Code” 2022 Volume 1 - Building Code of Australia 1st May 2023.



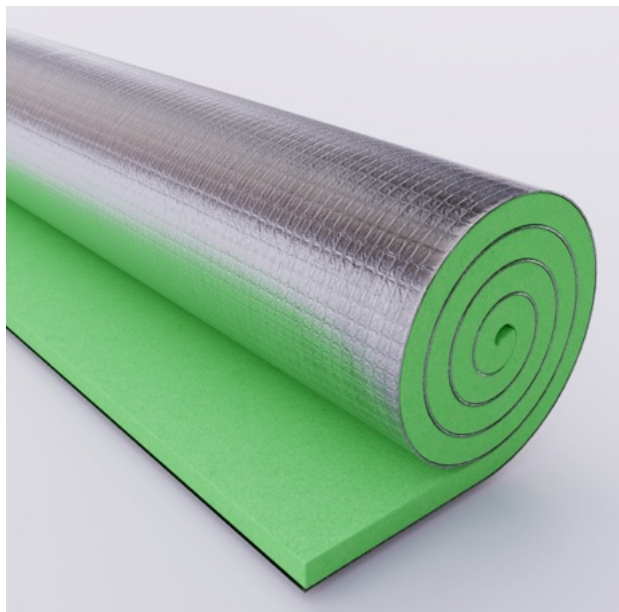
## Green Product

NuWrap complies with GreenStar, Green Building Council & Dubai Municipality, low VOC requirements. Also meets ODPEMI9 “avoids the use of ozone depleting substances used in both the manufacture and product composition”

## Product Construction

Thermotec NuWrap XtraFlex combines Thermotec manufactured barrier with an acoustic foam and foil facing, using the latest lamination technology to create a product that is a unique hybrid composite which provides a high performance, high flexibility acoustic pipe lagging solution.

Performance is the result of combining a flexible 15mm acoustic foam in conjunction with a loaded, high mass, hybrid polymer material that is faced with a reinforced aluminium foil that gives the product additional strength as well as outstanding fire resistance characteristics.



## What to Specify

The acoustic insulation for waste and stormwater pipes will be Thermotec “NuWrap XtraFlex” with a nominal weight of 3.82kg/m<sup>2</sup>.

The NuWrap XtraFlex shall consist of a 15mm open cell hybrid flat acoustic foam, laminated to a visco-elastic barrier and with an outer reinforced aluminium foil facing.

The lagging must demonstrate GreenStar, Green Building Council and Dubai Municipality low VOC requirements and be able to operate continuously at a maximum temperature of 100 degrees Celsius.

## Installation

When installing material should be cut to size and fixed in place, with no gaps, using a self-adhesive aluminium foil faced tape of 72mm width (Thermotec EzyTear/Reinforced Tape)

Straight lengths of pipe must incorporate a minimum 50mm overlap and again be sealed with a 72mm wide foil tape. All material surfaces to be cleaned prior to affixing tape.

Ensure that surface of outer pipe is clean and free of dust etc. Cut insulation to suit either bends or straight lengths. Wrap insulation in place and ensure no gaps and that butt joints are well sealed.

For straight lengths use a minimum 50mm overlap. Use 72mm wide foil face self-adhesive tape ensuring that surface to be taped is clean and dust free.

On straight runs, foil tape should be used as a band approximately every 400mm-500mm wrapped around the insulation.

All longitudinal joints to be overlapped and taped. Joints should be facing downwards to avoid unnecessary weight and strain on the tape. Important to ensure there are absolutely no gaps.

## Testing

Fire Performance	AS/NZS1530.3 - AWTA Australia
Acoustic Testing	RWDI Australia (Wilson Murray)

## Properties

Standard Roll Size	1350mm x 3 metre/ 5 metre 0.675m x 5 metre *other sizes upon request
Weight - nominal	3.82 kg per square metre
Thickness - nominal	15mm Acoustic Foam
Operating Temperature	120 degrees Celsius - continuous
Barrier	Loaded limp mass visco-elastic polymer - foil faced
Manufacturer	Thermotec Australia Pty Ltd