

Commercial Under Slab Insulation Product Selection Guide

Designing for NCC 2019



As a leading manufacturer to the Australian building industry, Fletcher Insulation has been at the forefront of insulation technology since the 1930's. With a national distribution footprint, we pride ourselves on providing excellent service to our customers. Our two Australian manufacturing plants in Sydney and Melbourne are supported with research and development, customer service, sales and technical support.

Sustainability is at the heart of what we do. Our strong focus on well-being, comfort and improving quality of life inspires us to design, manufacture and deliver world class insulation solutions for the built environment.

Commercial Under Slab Solutions

Whether you are designing or selecting materials for a commercial or industrial project, you can trust Fletcher Insulation to deliver the best insulation solution for your under slab applications.

The Fletcher Insulation range has been tested to Australian Standards and Australian conditions. Designed to meet the strict requirements of the latest National Construction Code (NCC), our products meet and exceed the NCC's deemed-to-satisfy requirements anywhere in Australia. Our specialist range of commercial under slab solutions ensure your project is covered, with the full backing of our experienced sales and support team.

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Contents

4
6
8
12
12
13
14

2 Fletcher Insulation www.insulation.com.au 3

FLETCHER INSULATION BUILDING SOLUTIONS

Under Slab insulation is a fundamental part of the building envelope to comply with the National Construction Code (NCC) section J for commercial buildings.

Fletcher Insulation offers a range of product solutions to meet your requirements for the underside of underground car park soffits and top floor concrete roofs. The insulation is typically installed with the facing down and mechanically fixed using insulation fasteners and all joins are taped.

Permastop® - Pink Building Blanket with Sisalation® Facing Foil



The Pink® Building blanket glass wool insulation delivers excellent thermal performance and acoustic control. The foil facing provides an effective water and vapour barrier for condensation control in under slab applications.

Permastop® Building Blanket







External Walls Insulation



32kg Semi Rigid Insulation Board



Semi-rigid glass wool insulation board delivers excellent thermal performance and acoustic control in under slab applications

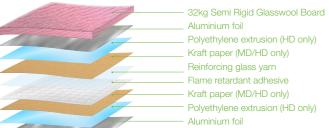
Pink® Thermal Slab











Pink® NoiseSTOP with Durasorb® facing









Applications



Under Slab/ Soffit Concrete Roof Insulation with Facing



Metal Roof Insulation with Facing





Features



Thermal Control



Internal Walls and

Partition Insulation

Acoustic Control



Fire Resistant



Condensation Control

4 Fletcher Insulation www.insulation.com.au 5

A GUIDE TO CHOOSING THE RIGHT INSULATION

Good thermal comfort, daylight, and acoustics - these factors play an important role in creating a healthy, productive workplace. Selecting the right insulation for the climatic conditions, building design and usage can have a significant impact on the comfort and well-being of occupants.

Fletcher Insulation has an extensive range of under slab insulation solutions to suit your project and application.



1: DESIGNING FOR THERMAL PERFORMANCE

The right level of thermal performance can deliver better comfort levels as well as reducing the reliance on air conditioning and mechanical ventilation, which can significantly increase electricity costs for a property. Selecting the right type of insulation can optimise the performance and energy efficiency of a commercial building, resulting in reduced heating and cooling costs.

R Value's can be displayed as either a material value (Rm) or a total R-Value (Rt).

Material R Value (Rm) refers to the thermal resistance value that a product specifically delivers for a specified material such as building blanket. Rm is relative to the insulation thickness.

Total R Value (Rt) refers to all the elements of the overall system, taking into account air space, all materials used in the assembly fabrication of the building and the insulation material.

Most insulation products combine a glasswool blanket with a range of facing materials.

To assist in determining the most suitable product combination for your project's application, it is advised firstly that the blanket thickness be established to satisfy the thermal material R value requirements and secondly to determine the facing foil which will offer the best level of condensation control for your project application.

Fletcher Insulation product complies with AS/NZS 4859.1. The Product Selector (page 8 to 11) will determine the most suitable product to meet National Construction Code 2019 deemed-to-satisfy requirements.



2: DESIGNING FOR ACOUSTIC CONTROL

Minimising noise is an important consideration when designing buildings. For projects located in high noise areas such as overhead traffic, under aircraft flight paths or for projects requiring high levels of acoustic control such as performing arts precincts and concert walls, Fletcher Insulation has a range of insulation and facing options with superior noise reduction properties. These solutions are ideal for noise control behind perforated ceilings by minimising sound transfer from the external roof environment.



3: DESIGNING FOR FIRE RESISTANCE

Fletcher Insulation glasswool products are non-combustible according to Combustibility AS1530.1-1994 (R2016). Sisalation® Building Membranes comply and meet the NCC Flammability Index AS1530.2-1993 (R2016). Compliance with Ignitability, Flame Propagation, Heat Release and Smoke Release AS/NZS1530.3-1999 (R2016). Fletcher Insulation has a range products for fire prone areas and designed to comply with Bushfire Attack Level (BAL) requirements of Low-40 in roof applications and Low-FZ in wall applications (in accordance with AS3959). In applications where the insulation is exposed and acts as the ceiling lining, Fletcher Insulation meets NCC compliance to AS ISO 9705 and AS5637.1 -2015 Fire tests -Full-scale room test for surface products for Group 1 with Thermal Slab, NoiseSTOP and Permastop® light duty blanket products.



4: DESIGNING FOR CONDENSATION CONTROL

Sisalation® Building Membrane products have been developed to distinctively address condensation control in buildings and significantly reduce the likelihood of condensation developing in under slab and concrete soffit applications.

Condensation control is an important consideration when designing commercial buildings in high humidity areas. Fletcher Insulation has a range of faced building blankets and building membrane solutions which provide a superior water and vapour barrier for long term durability against condensation.

Product	Description	Thermal (1)	Acoustic (2)	Fire Resistant (3)	Condensation Control (4) Vapour Classification
Pink® Thermal Slab	Pink® Thermal Slab insulation is engineered for use in commercial soffit applications where thermal properties are pivotal in controlling temperature fluctuations of concrete roofs, floors, soffit and walls. It is resistant to bacteria and micro-organism growth. Available in Heavy Duty facing foil and Medium Duty white film facing.	****	***		Heavy Duty Class 1 Vapour Barrier
Pink® NoiseSTOP	Pink® NoiseSTOP with Durasorb® facing is designed for use in commercial concrete floor, ceiling, wall and applications behind perforated metal requiring thermal performance, acoustic control and where a black aesthetic finish is desired. It is resistant to bacteria and micro-organism growth. Durasorb facing is a black material made from 100% non woven polyester, spun bonded with an embossed pattern.	****	****	All Under Slab products are compliant with AS/NZS 1530.3 - 1999 (R2016) Early Fire Hazard Index.	Vapour Permeable and Non Water Barrier
Permastop® Building Blanket	Permastop® Building Blanket glasswool insulation faced with Sisalation acts as a water and vapour barrier to provide excellent thermal and acoustic control for concrete soffit applications. Available as: Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil	***	***		Heavy Duty- Class 1 Vapour Barrier Medium Duty & Light Duty - Class 2 Vapour Barrier

Applications

Under Slab/ Soffit Concrete Roof Insulation with Facing



Metal Roof Insulation with Facing



Wall Insulation

Features



Thermal Control



Acoustic Control



Fire Resistant



Condensation Control

Star Rating

Superior

Very Good

6 Fletcher Insulation www.insulation.com.au 7

DESIGNING FOR THERMAL PERFORMANCE

Product Selector - National Construction Code 2019

Direction of heatflow



Use the following tables to select the right Fletcher Insulation product for your project. The recommended insulation will provide a Deemed-to-Satisfy solution to meet the requirements of Section J of the National Construction Code 2019 for Class 2 to 9 buildings.

In-Screed Heating or Cooling System

R3.0 100 mm

R3.0 100 mm

Without In-Slab or

In-Screed Heating or Cooling System

R2.0 66 mm

R2.3 75mm

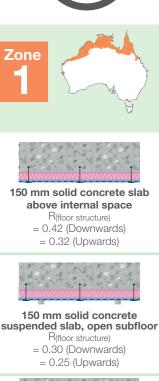
Upwards

Step 1: Identify your climate zone in accordance with the NCC.

Step 2: Identify your floor structure, heat flow direction and heating/cooling conditions.

Step 3: Identify the minimum required material R-value for Deemed-to-Satisfy compliance. Account for thermal bridging in accordance with AS/NZS 4859.2.

Step 4: Select the appropriate Fletcher Insulation product based on the minimum required material R-value.



150 mm solid concrete slab,

enclosed subfloor¹ R(floor structure)

= 0.47 (Downwards) = 0.42 (Upwards)

Timber internal floor, 10mm internal plaster

R(floor structure) = 0.75 (Downwards)

= 0.58 (Upwards)

Timber, suspended ground floor,

open subfloor

Ř(floor structure)

= 0.35 (Downwards)

= 0.30 (Upwards)

Pink® Thermal Slab

Pink® NoiseSTOP with Durasorb®

	Deemed-To-Satisfy Total R-value R _⊤	3.25	2.0
	Minimum material R Value R _m	2.93	1.68
	Permastop® Building Blanket		
	Sisalation® Light Duty (LD) 436 Facing Foil		
	Sisalation® Medium Duty (MD) 430 Facing Foil	R3.0 130 mm	R1.8 75 mm
	Sisalation® Heavy Duty (HD) 450 Facing Foil		
	Pink® Thermal Slab	R3.0 100 mm	R2.0 66 mm
	Pink® NoiseSTOP with Durasorb®	R3.0 100 mm	R2.3 75 mm
	Deemed-To-Satisfy Total R-value R _™	3.25	2.0
	Minimum material R Value R _m	3.00	1.75
	Permastop® Building Blanket		
	Sisalation® Light Duty (LD) 436 Facing Foil		
r	Sisalation® Medium Duty (MD) 430 Facing Foil	R3.0 130 mm	R1.8 75 mm
	Sisalation® Heavy Duty (HD) 450 Facing Foil		
	Pink® Thermal Slab	R3.0 100 mm	R2.0 66 mm
	Pink® NoiseSTOP with Durasorb®	R3.0 100 mm	R2.3 75 mm
	Deemed-To-Satisfy Total R-value R _™	3.25	2.0
	Minimum material R Value R _m	2.83	1.58
	Permastop® Building Blanket		
	Sisalation® Light Duty (LD) 436 Facing Foil		
	Sisalation® Medium Duty (MD) 430 Facing Foil	R3.0 130 mm	R1.8 75 mm
	Sisalation® Heavy Duty (HD) 450 Facing Foil		
	Pink® Thermal Slab	R3.0 100 mm	R2.0 66 mm
	Pink® NoiseSTOP with Durasorb®	R3.0 100 mm	R2.3 75 mm
	Deemed-To-Satisfy Total R-value R _T	3.25	2.0
	Minimum material R Value R _m	2.67	1.42
	Permastop® Building Blanket		
	Sisalation® Light Duty (LD) 436 Facing Foil		
	Sisalation® Medium Duty (MD) 430 Facing Foil	R3.0 130 mm	R1.8 75 mm
	Sisalation® Heavy Duty (HD) 450 Facing Foil		
	Pink® Thermal Slab	R3.0 100 mm	R1.5 50 mm
	Pink® NoiseSTOP with Durasorb®	R3.0 100 mm	R1.5 50mm
	Deemed-To-Satisfy Total R-value R _T	3.25	2.0
	Minimum material R Value R _m	3.0	1.7
	Permastop® Building Blanket		
	Sisalation® Light Duty (LD) 436 Facing Foil		
	Sisalation® Medium Duty (MD) 430 Facing Foil	R3.0 130 mm	R1.8 75 mm
	Sisalation® Heavy Duty (HD) 450 Facing Foil		

1.	R-Value for enclosed subfloor spaces is 0.10 for a Floor Area to Floor Perimeter Ratio of 1.0 m. The R-Value of the structure should
	be increased by 0.05 for every 0.5 m increase in the Ratio of Floor Area to Floor Perimeter. See specification J1.6 of the 2019 NCC.

	£ Å					
Zone Zone 3		In-Screed	-slab or Heating or System	In-Screed	In-Slab or Heating or System	
	Direction of heatflow	Upwards	Downwards	Upwards	Downwards	
	Deemed-To-Satisfy Total R-value R _™	3.25	3.25	2.0	2.0	
	Minimum material R Value R _m	2.93	2.83	1.68	1.58	
	Permastop® Building Blanket					
150 mm colid concrete clob	Sisalation® Light Duty (LD) 436 Facing Foil					
150 mm solid concrete slab above internal space	Sisalation® Medium Duty (MD) 430 Facing Foil	R3.0 1	30 mm	R1.8	75 mm	
R(floor structure)	Sisalation® Heavy Duty (HD) 450 Facing Foil					
= 0.42 (Downwards)	Pink® Thermal Slab	R3 0 1	00 mm	B2 0 6	36 mm	
= 0.32 (Upwards)	Pink® NoiseSTOP with Durasorb®		00 mm		75 mm	
	Deemed-To-Satisfy Total R-value R₁	3.25	3.25	2.0	2.0	
	Minimum material R Value R _m	3.00	2.95	1.75	1.7	
1	Permastop® Building Blanket	0.00	2.50	1.70	1.7	
1	Sisalation® Light Duty (LD) 436 Facing Foil					
150 mm solid concrete	Sisalation® Medium Duty (MD) 430 Facing Foil	D2 0 1	R3.0 130 mm		75 mm	
suspended slab, open subfloor		N3.0 130 IIIII		ni.o	7311111	
R(floor structure) = 0.30 (Downwards)	Sisalation® Heavy Duty (HD) 450 Facing Foil	R3.0 100 mm		D0 0 00		
= 0.25 (Upwards)	Pink® Thermal Slab			R2.0 66 mm		
0.20 (0.00.00)	Pink® NoiseSTOP with Durasorb®	R3.0 100 mm		R2.3 75 mm		
	Deemed-To-Satisfy Total R-value R _⊤		3.25	2.0	2.0	
	Minimum material R Value R _m	2.83	2.78	1.58	2.0 1.53	
	Minimum material R Value R _m Permastop® Building Blanket					
150 mm solid concrete slab,	Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil	2.83	2.78	1.58	1.53	
located over	Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil	2.83		1.58		
located over enclosed subfloor ¹	Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil	2.83 R3.0 1	2.78 30 mm	1.58 R1.87	1.53 75 mm	
located over enclosed subfloor¹ R(floor structure) = 0.47 (Downwards)	Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil	2.83 R3.0 1	2.78	1.58 R1.87	1.53	
located over enclosed subfloor ¹ R(floor structure)	Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb®	2.83 R3.0 1	2.78 30 mm	1.58 R1.8 7	1.53 75 mm	
located over enclosed subfloor¹ R(floor structure) = 0.47 (Downwards)	Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab	2.83 R3.0 1	2.78 30 mm	1.58 R1.8 7	1.53 75 mm	
located over enclosed subfloor¹ R(floor structure) = 0.47 (Downwards)	Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb®	2.83 R3.0 1 R3.0 1	2.78 30 mm 00 mm 00 mm	1.58 R1.8 7 R2.0 6 R2.3 7	1.53 75 mm 66 mm 75 mm	
located over enclosed subfloor¹ R(floor structure) = 0.47 (Downwards)	Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb® Deemed-To-Satisfy Total R-value R _T	2.83 R3.0 1 R3.0 1 R3.0 1	2.78 30 mm 00 mm 00 mm 3.25	R1.8 7 R2.0 6 R2.3 7	1.53 75 mm 66 mm 75 mm 2.0	
located over enclosed subfloor¹ R(floor structure) = 0.47 (Downwards) = 0.42 (Upwards)	Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb® Deemed-To-Satisfy Total R-value R _T Minimum material R Value R _m	2.83 R3.0 1 R3.0 1 R3.0 1	2.78 30 mm 00 mm 00 mm 3.25	R1.8 7 R2.0 6 R2.3 7	1.53 75 mm 66 mm 75 mm 2.0	
located over enclosed subfloor¹ R(floor structure) = 0.47 (Downwards)	Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb® Deemed-To-Satisfy Total R-value R _T Minimum material R Value R _m Permastop® Building Blanket	2.83 R3.0 1 R3.0 1 R3.0 1	2.78 30 mm 00 mm 00 mm 3.25	R1.8 7 R2.0 6 R2.3 7	1.53 75 mm 66 mm 75 mm 2.0	
located over enclosed subfloor¹ R(floor structure) = 0.47 (Downwards) = 0.42 (Upwards) Timber internal floor, 10mm internal plaster R(floor structure)	Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb® Deemed-To-Satisfy Total R-value R _T Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil	2.83 R3.0 1 R3.0 1 R3.0 1 3.25 2.67	2.78 30 mm 00 mm 00 mm 3.25 2.5	R1.8 7 R2.0 6 R2.3 7 2.0 1.42	1.53 75 mm 66 mm 75 mm 2.0 1.25	
located over enclosed subfloor¹ R(floor structure) = 0.47 (Downwards) = 0.42 (Upwards) Timber internal floor, 10mm internal plaster R(floor structure) = 0.75 (Downwards)	Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb® Deemed-To-Satisfy Total R-value R _m Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil	2.83 R3.0 1 R3.0 1 R3.0 1 3.25 2.67	2.78 30 mm 00 mm 00 mm 3.25 2.5	R1.8 75mm	1.53 75 mm 66 mm 75 mm 2.0 1.25	
located over enclosed subfloor¹ R(floor structure) = 0.47 (Downwards) = 0.42 (Upwards) Timber internal floor, 10mm internal plaster R(floor structure)	Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb® Deemed-To-Satisfy Total R-value R _m Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil	2.83 R3.0 1 R3.0 1 R3.0 1 3.25 2.67 R3.0 75mm	2.78 30 mm 00 mm 00 mm 3.25 2.5 R2.5 100mm	1.58 R1.8 75mm R1.5 8	1.53 75 mm 66 mm 75 mm 2.0 1.25 R1.3 55mm	
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located over enclosed subfloor¹ R(floor structure) = 0.47 (Downwards) = 0.42 (Upwards) Timber internal floor, 10mm internal plaster R(floor structure) = 0.75 (Downwards) = 0.58 (Upwards)	Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb® Deemed-To-Satisfy Total R-value R _T Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb® Deemed-To-Satisfy Total R-value R _T Minimum material R Value R _m	2.83 R3.0 1 R3.0 1 R3.0 1 3.25 2.67 R3.0 75mm R3.0 1 R3.0 1 3.25	2.78 30 mm 00 mm 00 mm 3.25 2.5 R2.5 100mm 00 mm 30 mm 3.25	1.58 R1.8 75mm R1.5 8 R1.5 8 R1.5 8	1.53 75 mm 66 mm 75 mm 2.0 1.25 R1.3 55mm 50 mm 50 mm 2.0	
located over enclosed subfloor¹ R(floor structure) = 0.47 (Downwards) = 0.42 (Upwards) Timber internal floor, 10mm internal plaster R(floor structure) = 0.75 (Downwards) = 0.58 (Upwards) Timber, suspended ground floor,	Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb® Deemed-To-Satisfy Total R-value R _T Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb® Deemed-To-Satisfy Total R-value R _T Minimum material R Value R _m Permastop® Building Blanket	2.83 R3.0 1 R3.0 1 R3.0 1 3.25 2.67 R3.0 75mm R3.0 1 R3.0 1 3.25 3.0	2.78 30 mm 00 mm 00 mm 3.25 2.5 R2.5 100mm 00 mm 30 mm 3.25	R1.8 75mm R1.8 75mm R1.5 8 R1.7	1.53 75 mm 66 mm 75 mm 2.0 1.25 R1.3 55mm 50 mm 50 mm 2.0	
located over enclosed subfloor¹ R(floor structure) = 0.47 (Downwards) = 0.42 (Upwards) Timber internal floor, 10mm internal plaster R(floor structure) = 0.75 (Downwards) = 0.58 (Upwards) Timber, suspended ground floor, open subfloor	Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb® Deemed-To-Satisfy Total R-value R _m Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb® Deemed-To-Satisfy Total R-value R _m Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Light Duty (LD) 430 Facing Foil	2.83 R3.0 1 R3.0 1 R3.0 1 3.25 2.67 R3.0 75mm R3.0 1 R3.0 1 3.25 3.0	2.78 30 mm 00 mm 00 mm 3.25 2.5 R2.5 100mm 00 mm 00 mm 3.25 2.90	R1.8 75mm R1.8 75mm R1.5 8 R1.7	1.53 75 mm 66 mm 75 mm 2.0 1.25 R1.3 55mm 50 mm 50 mm 1.65	
located over enclosed subfloor¹ R(floor structure) = 0.47 (Downwards) = 0.42 (Upwards) Timber internal floor, 10mm internal plaster R(floor structure) = 0.75 (Downwards) = 0.58 (Upwards) Timber, suspended ground floor,	Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb® Deemed-To-Satisfy Total R-value R _T Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb® Deemed-To-Satisfy Total R-value R _T Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil	2.83 R3.0 1 R3.0 1 R3.0 1 3.25 2.67 R3.0 75mm R3.0 1 R3.0 1 R3.0 1 R3.0 1	2.78 30 mm 00 mm 00 mm 3.25 2.5 R2.5 100mm 00 mm 00 mm 3.25 2.90	R1.8 75mm R1.5 8 R1.8 75mm R1.5 8 R1.5 8 R1.7	1.53 75 mm 66 mm 75 mm 2.0 1.25 R1.3 55mm 50 mm 50 mm 1.65	

Fletcher Insulation has provided this information as a guide only. Product selections should be based on actual construction R-Value calculations, and discussions with your Fletcher Insulation Representative to ensure the product meets the required application.

R3.0 100 mm

R2.3 75 mm

Pink® NoiseSTOP with Durasorb®

8 Fletcher Insulation www.insulation.com.au 9

= 0.30 (Upwards)

■ DESIGNING FOR THERMAL PERFORMANCE

Product Selector - National Construction Code 2019



Use the following tables to select the right Fletcher Insulation product for your project. The recommended insulation will provide a Deemed-to-Satisfy solution to meet the requirements of Section J of the National Construction Code 2019 for Class 2 to 9 buildings.

Step	1:	Iden	tify	your	climate	zone	in	acco	ordan	се	with	the	NCC	

Step 2: Identify your floor structure, heat flow direction and heating/cooling conditions.

Step 3: Identify the minimum required material R-value for Deemed-to-Satisfy compliance. Account for thermal bridging in accordance with AS/NZS 4859.2.

Step 4: Select the appropriate Fletcher Insulation product based on the minimum required material R-value.

Zone Zone Zone Z	one , , ,		
4 5 6	7	With In-slab or In-Screed Heating or Cooling System	Without In-Slab or In-Screed Heating or Cooling System
	Direction of heatflow	Down	wards
	Deemed-To-Satisfy Total R-value R _T	3,25	2.0
	Minimum material R Value R _m	2.83	1,58
	Permastop® Building Blanket		1100
	Sisalation® Light Duty (LD) 436 Facing Foil		
150 mm solid concrete slab above internal space	Sisalation® Medium Duty (MD) 430 Facing Foil	R3.0 130 mm	R1.8 75 mm
R(floor structure)	Sisalation® Heavy Duty (HD) 450 Facing Foil		
= 0.42 (Downwards)	Pink® Thermal Slab	R3.0 100 mm	R2.0 66 mm
= 0.32 (Upwards)	Pink® NoiseSTOP with Durasorb®	R3.0 100 mm	R2.3 75 mm
	Deemed-To-Satisfy Total R-value R₁	3.25	2.0
	Minimum material R Value R _m	3.00	1.70
	Permastop® Building Blanket		
	Sisalation® Light Duty (LD) 436 Facing Foil		
150 mm solid concrete suspended slab, open subfloor	Sisalation® Medium Duty (MD) 430 Facing Foil	R3.0 130 mm	R1.8 75 mm
R(floor structure)	Sisalation® Heavy Duty (HD) 450 Facing Foil		
= 0.30 (Downwards)	Pink® Thermal Slab	R3.0 100 mm	R2.0 66 mm
= 0.25 (Upwards)	Pink® NoiseSTOP with Durasorb®	R3.0 100 mm	R2.3 75 mm
The Control of the Control	Deemed-To-Satisfy Total R-value R₁	3.25	2.0
	Minimum material R Value R _m	2.78	1.53
THE TRANSPORT OF THE PARTY OF T	IVIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	2.10	1.00
	Permastop® Building Blanket	2.10	1.00
150 mm solid concrete slab.		2.10	1.50
150 mm solid concrete slab,	Permastop® Building Blanket	R3.0 130 mm	R1.8 75 mm
located over enclosed subfloor ¹	Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil		
located over enclosed subfloor ¹ R(floor structure)	Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil		
located over enclosed subfloor ¹	Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil	R3.0 130 mm	R1.8 75 mm
located over enclosed subfloor ¹ R(floor structure) = 0.47 (Downwards)	Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab	R3.0 130 mm R3.0 100 mm	R1.8 75 mm R2.0 66 mm
located over enclosed subfloor ¹ R(floor structure) = 0.47 (Downwards)	Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb®	R3.0 130 mm R3.0 100 mm R3.0 100 mm	R1.8 75 mm R2.0 66 mm R2.3 75 mm
located over enclosed subfloor ¹ R(floor structure) = 0.47 (Downwards)	Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb® Deemed-To-Satisfy Total R-value R _T	R3.0 130 mm R3.0 100 mm R3.0 100 mm 3.25	R1.8 75 mm R2.0 66 mm R2.3 75 mm 2.0
located over enclosed subfloor¹ R(floor structure) = 0.47 (Downwards) = 0.42 (Upwards)	Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb® Deemed-To-Satisfy Total R-value R _T Minimum material R Value R _m	R3.0 130 mm R3.0 100 mm R3.0 100 mm 3.25	R1.8 75 mm R2.0 66 mm R2.3 75 mm 2.0
located over enclosed subfloor ¹ R(floor structure) = 0.47 (Downwards)	Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb® Deemed-To-Satisfy Total R-value R _T Minimum material R Value R _m Permastop® Building Blanket	R3.0 130 mm R3.0 100 mm R3.0 100 mm 3.25	R1.8 75 mm R2.0 66 mm R2.3 75 mm 2.0
located over enclosed subfloor¹ R(floor structure) = 0.47 (Downwards) = 0.42 (Upwards) Timber internal floor, 10mm internal plaster R(floor structure)	Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb® Deemed-To-Satisfy Total R-value R _T Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil	R3.0 130 mm R3.0 100 mm R3.0 100 mm 3.25 2.5	R1.8 75 mm R2.0 66 mm R2.3 75 mm 2.0 1.25
located over enclosed subfloor¹ R(floor structure) = 0.47 (Downwards) = 0.42 (Upwards) Timber internal floor, 10mm internal plaster R(floor structure) = 0.75 (Downwards)	Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb® Deemed-To-Satisfy Total R-value R _T Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil	R3.0 130 mm R3.0 100 mm R3.0 100 mm 3.25 2.5	R1.8 75 mm R2.0 66 mm R2.3 75 mm 2.0 1.25
located over enclosed subfloor¹ R(floor structure) = 0.47 (Downwards) = 0.42 (Upwards) Timber internal floor, 10mm internal plaster R(floor structure)	Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb® Deemed-To-Satisfy Total R-value R _T Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil	R3.0 130 mm R3.0 100 mm R3.0 100 mm 3.25 2.5 R2.5 100 mm	R1.8 75 mm R2.0 66 mm R2.3 75 mm 2.0 1.25 R1.3 55 mm
Iocated over enclosed subfloor¹ R(floor structure) = 0.47 (Downwards) = 0.42 (Upwards) Timber internal floor, 10mm internal plaster R(floor structure) = 0.75 (Downwards)	Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb® Deemed-To-Satisfy Total R-value R _T Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb® Deemed-To-Satisfy Total R-value R _T	R3.0 130 mm R3.0 100 mm R3.0 100 mm 3.25 2.5 R2.5 100 mm R3.0 100 mm R2.5 100 mm 3.25	R1.8 75 mm R2.0 66 mm R2.3 75 mm 2.0 1.25 R1.3 55 mm R1.5 50 mm R1.5 50 mm 2.0
Iocated over enclosed subfloor¹ R(floor structure) = 0.47 (Downwards) = 0.42 (Upwards) Timber internal floor, 10mm internal plaster R(floor structure) = 0.75 (Downwards)	Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb® Deemed-To-Satisfy Total R-value R _T Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb®	R3.0 130 mm R3.0 100 mm R3.0 100 mm 3.25 2.5 R2.5 100 mm R3.0 100 mm R2.5 100 mm	R1.8 75 mm R2.0 66 mm R2.3 75 mm 2.0 1.25 R1.3 55 mm R1.5 50 mm R1.5 50 mm
located over enclosed subfloor¹ R(floor structure) = 0.47 (Downwards) = 0.42 (Upwards) Timber internal floor, 10mm internal plaster R(floor structure) = 0.75 (Downwards) = 0.58 (Upwards)	Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb® Deemed-To-Satisfy Total R-value Rr Minimum material R Value Rm Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb® Deemed-To-Satisfy Total R-value Rr Minimum material R Value Rm Permastop® Building Blanket	R3.0 130 mm R3.0 100 mm R3.0 100 mm 3.25 2.5 R2.5 100 mm R3.0 100 mm R2.5 100 mm 3.25	R1.8 75 mm R2.0 66 mm R2.3 75 mm 2.0 1.25 R1.3 55 mm R1.5 50 mm R1.5 50 mm 2.0
located over enclosed subfloor¹ R(floor structure) = 0.47 (Downwards) = 0.42 (Upwards) Timber internal floor, 10mm internal plaster R(floor structure) = 0.75 (Downwards) = 0.58 (Upwards)	Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb® Deemed-To-Satisfy Total R-value Rr Minimum material R Value Rm Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb® Deemed-To-Satisfy Total R-value Rr Minimum material R Value Rm Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil	R3.0 130 mm R3.0 100 mm R3.0 100 mm 3.25 2.5 R2.5 100 mm R3.0 100 mm R2.5 100 mm 3.25 2.90	R1.8 75 mm R2.0 66 mm R2.3 75 mm 2.0 1.25 R1.3 55 mm R1.5 50 mm R1.5 50 mm 2.0 1.65
located over enclosed subfloor¹ R(floor structure) = 0.47 (Downwards) = 0.42 (Upwards) Timber internal floor, 10mm internal plaster R(floor structure) = 0.75 (Downwards) = 0.58 (Upwards) Timber, suspended ground floor,	Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb® Deemed-To-Satisfy Total R-value Rr Minimum material R Value Rm Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb® Deemed-To-Satisfy Total R-value Rr Minimum material R Value Rm Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil	R3.0 130 mm R3.0 100 mm R3.0 100 mm 3.25 2.5 R2.5 100 mm R3.0 100 mm R2.5 100 mm 3.25	R1.8 75 mm R2.0 66 mm R2.3 75 mm 2.0 1.25 R1.3 55 mm R1.5 50 mm R1.5 50 mm 2.0
located over enclosed subfloor¹ R(floor structure) = 0.47 (Downwards) = 0.42 (Upwards) Timber internal floor, 10mm internal plaster R(floor structure) = 0.75 (Downwards) = 0.58 (Upwards)	Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb® Deemed-To-Satisfy Total R-value R _T Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb® Deemed-To-Satisfy Total R-value R _T Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Heavy Duty (MD) 430 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil	R3.0 130 mm R3.0 100 mm R3.0 100 mm 3.25 2.5 R2.5 100 mm R3.0 100 mm R2.5 100 mm 3.25 2.90	R1.8 75 mm R2.0 66 mm R2.3 75 mm 2.0 1.25 R1.3 55 mm R1.5 50 mm R1.5 50 mm 2.0 1.65
Iocated over enclosed subfloor¹ R(floor structure) = 0.47 (Downwards) = 0.42 (Upwards) Timber internal floor, 10mm internal plaster R(floor structure) = 0.75 (Downwards) = 0.58 (Upwards) Timber, suspended ground floor, open subfloor	Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb® Deemed-To-Satisfy Total R-value Rr Minimum material R Value Rm Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb® Deemed-To-Satisfy Total R-value Rr Minimum material R Value Rm Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil	R3.0 130 mm R3.0 100 mm R3.0 100 mm 3.25 2.5 R2.5 100 mm R3.0 100 mm R2.5 100 mm 3.25 2.90	R1.8 75 mm R2.0 66 mm R2.3 75 mm 2.0 1.25 R1.3 55 mm R1.5 50 mm R1.5 50 mm 2.0 1.65

1.	R-Value for enclosed subfloor spaces is 0.10 for a Floor Area to Floor Perimeter Ratio of 1.0 m. The R-Value of the structure should
	be increased by 0.05 for every 0.5 m increase in the Ratio of Floor Area to Floor Perimeter. See specification J1.6 of the 2019 NCC.

Zone 8		With In-slab or In-Screed Heating or Cooling System	Without In-Slab or In-Screed Heating or Cooling System
	Direction of heatflow	Down	wards
	Deemed-To-Satisfy Total R-value R _⊤	4.75	3.5
	Minimum material R Value R _m	4.33	3.08
	Permastop® Building Blanket		
150 mm solid concrete slab	Sisalation® Light Duty (LD) 436 Facing Foil		
above internal space	Sisalation® Medium Duty (MD) 430 Facing Foil	n/a	R3.2 130mm
R(floor structure)	Sisalation® Heavy Duty (HD) 450 Facing Foil		
= 0.42 (Downwards)	Pink® Thermal Slab	n/a	n/a
= 0.32 (Upwards)	Pink® NoiseSTOP with Durasorb®	n/a	n/a
	Deemed-To-Satisfy Total R-value R _T	4.75	3.5
	Minimum material R Value R _m	4.45	3.2
	Permastop® Building Blanket		
4	Sisalation® Light Duty (LD) 436 Facing Foil		
150 mm solid concrete	Cinalatian® Madisus Dut. (MD) 400 Fasing Fail	n/a	R3.2 130mm
suspended slab, open subfloor R(floor structure)	Sisalation® Heavy Duty (HD) 450 Facing Foil		
= 0.30 (Downwards)	Pink® Thermal Slab	n ₁	/a
= 0.25 (Upwards)	Pink® NoiseSTOP with Durasorb®	n/	
	Deemed-To-Satisfy Total R-value R _T	4.75	3.5
···[······]······	Minimum material R Value R _m	4.28	3.03
450 mm solid consusts clab	Minimum material R Value R _m Permastop® Building Blanket		
150 mm solid concrete slab,	Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil	4.28	3.03
150 mm solid concrete slab, located over enclosed subfloor¹	Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil		
located over enclosed subfloor¹ R(floor structure)	Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil	4.28 n/a	3.03 R3.2 130mm
located over enclosed subfloor¹ R(floor structure) = 0.47 (Downwards)	Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab	4.28 n/a n/a	3.03 R3.2 130mm n/a
located over enclosed subfloor¹ R(floor structure)	Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb®	4.28 n/a n/a	3.03 R3.2 130mm n/a ⁄a
located over enclosed subfloor¹ R(floor structure) = 0.47 (Downwards)	Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb® Deemed-To-Satisfy Total R-value R _T	4.28 n/a n/a n/a 4.75	3.03 R3.2 130mm n/a /a 3.5
located over enclosed subfloor¹ R(floor structure) = 0.47 (Downwards)	Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb® Deemed-To-Satisfy Total R-value R _T Minimum material R Value R _m	4.28 n/a n/a	3.03 R3.2 130mm n/a ⁄a
located over enclosed subfloor¹ R(floor structure) = 0.47 (Downwards) = 0.42 (Upwards)	Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb® Deemed-To-Satisfy Total R-value R _T Minimum material R Value R _m Permastop® Building Blanket	4.28 n/a n/a n/a 4.75	3.03 R3.2 130mm n/a /a 3.5
located over enclosed subfloor¹ R(floor structure) = 0.47 (Downwards) = 0.42 (Upwards) Timber internal floor,	Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb® Deemed-To-Satisfy Total R-value R _T Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil	4.28 n/a n/a n/ 4.75 4.00	3.03 R3.2 130mm n/a /a 3.5 2.75
located over enclosed subfloor¹ R(floor structure) = 0.47 (Downwards) = 0.42 (Upwards) Timber internal floor, 10mm internal plaster	Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb® Deemed-To-Satisfy Total R-value R _T Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil	4.28 n/a n/a n/a 4.75	3.03 R3.2 130mm n/a /a 3.5
located over enclosed subfloor¹ R(floor structure) = 0.47 (Downwards) = 0.42 (Upwards) Timber internal floor,	Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb® Deemed-To-Satisfy Total R-value R _T Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil	4.28 n/a n/a n/a 4.75 4.00	3.03 R3.2 130mm n/a /a 3.5 2.75 R3.0 130mm
located over enclosed subfloor¹ R(floor structure) = 0.47 (Downwards) = 0.42 (Upwards) Timber internal floor, 10mm internal plaster R(floor structure)	Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb® Deemed-To-Satisfy Total R-value R _T Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab	4.28 n/a n/a n/a 4.75 4.00 n/a n/a	3.03 R3.2 130mm n/a /a 3.5 2.75 R3.0 130mm R3.0 130 mm
located over enclosed subfloor¹ R(floor structure) = 0.47 (Downwards) = 0.42 (Upwards) Timber internal floor, 10mm internal plaster R(floor structure) = 0.75 (Downwards)	Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb® Deemed-To-Satisfy Total R-value R _T Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb®	4.28 n/a n/a 4.75 4.00 n/a n/a n/a n/a n/a	3.03 R3.2 130mm n/a /a 3.5 2.75 R3.0 130mm R3.0 130 mm R3.0 100 mm
located over enclosed subfloor¹ R(floor structure) = 0.47 (Downwards) = 0.42 (Upwards) Timber internal floor, 10mm internal plaster R(floor structure) = 0.75 (Downwards)	Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb® Deemed-To-Satisfy Total R-value R _T Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb® Deemed-To-Satisfy Total R-value R _T	4.28 n/a n/a 1.75 4.00 n/a n/a n/a n/a n/a 1.75 4.75	3.03 R3.2 130mm n/a /a 3.5 2.75 R3.0 130mm R3.0 130 mm R3.0 100 mm 3.5
located over enclosed subfloor¹ R(floor structure) = 0.47 (Downwards) = 0.42 (Upwards) Timber internal floor, 10mm internal plaster R(floor structure) = 0.75 (Downwards)	Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb® Deemed-To-Satisfy Total R-value R _T Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb® Deemed-To-Satisfy Total R-value R _T Minimum material R Value R _m	4.28 n/a n/a 4.75 4.00 n/a n/a n/a n/a n/a	3.03 R3.2 130mm n/a /a 3.5 2.75 R3.0 130mm R3.0 130 mm R3.0 100 mm
located over enclosed subfloor¹ R(floor structure) = 0.47 (Downwards) = 0.42 (Upwards) Timber internal floor, 10mm internal plaster R(floor structure) = 0.75 (Downwards) = 0.58 (Upwards)	Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb® Deemed-To-Satisfy Total R-value R _T Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb® Deemed-To-Satisfy Total R-value R _T Minimum material R Value R _m Permastop® Building Blanket	4.28 n/a n/a 1.75 4.00 n/a n/a n/a n/a n/a 1.75 4.75	3.03 R3.2 130mm n/a /a 3.5 2.75 R3.0 130mm R3.0 130 mm R3.0 100 mm 3.5
located over enclosed subfloor¹ R(floor structure) = 0.47 (Downwards) = 0.42 (Upwards) Timber internal floor, 10mm internal plaster R(floor structure) = 0.75 (Downwards) = 0.58 (Upwards)	Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb® Deemed-To-Satisfy Total R-value R _T Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb® Deemed-To-Satisfy Total R-value R _T Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil	4.28 n/a n/a 1.75 4.00 n/a n/a n/a n/a 1.75 4.75 4.40	3.03 R3.2 130mm n/a /a 3.5 2.75 R3.0 130mm R3.0 130 mm R3.0 100 mm 3.5 3.15
located over enclosed subfloor¹ R(floor structure) = 0.47 (Downwards) = 0.42 (Upwards) Timber internal floor, 10mm internal plaster R(floor structure) = 0.75 (Downwards) = 0.58 (Upwards)	Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb® Deemed-To-Satisfy Total R-value R _T Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb® Deemed-To-Satisfy Total R-value R _T Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Light Duty (LD) 430 Facing Foil	4.28 n/a n/a 1.75 4.00 n/a n/a n/a n/a n/a 1.75 4.75	3.03 R3.2 130mm n/a /a 3.5 2.75 R3.0 130mm R3.0 130 mm R3.0 100 mm 3.5
located over enclosed subfloor¹ R(floor structure) = 0.47 (Downwards) = 0.42 (Upwards) Timber internal floor, 10mm internal plaster R(floor structure) = 0.75 (Downwards) = 0.58 (Upwards) Timber, suspended ground floor,	Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Medium Duty (MD) 430 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb® Deemed-To-Satisfy Total R-value R _T Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Sisalation® Heavy Duty (HD) 450 Facing Foil Pink® Thermal Slab Pink® NoiseSTOP with Durasorb® Deemed-To-Satisfy Total R-value R _T Minimum material R Value R _m Permastop® Building Blanket Sisalation® Light Duty (LD) 436 Facing Foil	4.28 n/a n/a 1.75 4.00 n/a n/a n/a n/a 1.75 4.75 4.40	3.03 R3.2 130mm n/a /a 3.5 2.75 R3.0 130mm R3.0 130 mm R3.0 100 mm 3.5 3.15

Fletcher Insulation has provided this information as a guide only. Product selections should be based on actual construction R-Value calculations, and discussions with your Fletcher Insulation Representative to ensure the product meets the required application.

Pink® NoiseSTOP with Durasorb®

10 Fletcher Insulation www.insulation.com.au 11

= 0.30 (Upwards)

DESIGNING FOR THERMAL PERFORMANCE

Material R-Value by Insulation Type



Fletcher Insulation have a range of high thermal performance insulation products which meet or exceed the minimum R-value recommended by the NCC.

Once an insulation type is selected (page 8 to 11), higher thermal performance (R-value) can be achieved by increasing the insulation thickness or combining multiple sheet thicknesses.

	Material Thickness (mm)							
	38	50	55	60	66	75	100	130
Permastop [®] Building Blanket								
Sisalation [®] 436 Facing Foil Light Duty (LD)			R1.3	R1.4		R1.8	R2.3 R2.5	R3.0 R3.2 R3.6
Sisalation [®] 430 Facing Foil Medium Duty (MD)			R1.3	R1.4		R1.8	R2.3 R2.5	R3.0 R3.2 R3.6
Sisalation [®] 450 Facing Foil Heavy Duty (HD)			R1.3	R1.4		R1.8	R2.3 R2.5	R3.0 R3.2 R3.6
Pink [®] Thermal Slab		R1.5			R2.0	R2.3	R3.0	
Pink [®] NoiseSTOP with Durasorb [®] Facing	R1.2	R1.5				R2.3	R3.0	

I DESIGNING FOR FIRE MANAGEMENT



Fletcher Insulation Permastop® bulk insulation blanket products are deemed non – combustible in accordance with AS1530.1-1994 (R2016), allowing you to take comfort in designing roof spaces that are more safe and secure by removing any additional fuel load in roof spaces.

Additionally, Permastop® offers further safeguard from embers in accordance with the BAL guidelines when building in bush fire prone areas.

In applications where the insulation becomes the ceiling lining and is exposed, Fletcher Insulation offer a range of insulation solutions that are in accordance with BCA to ISO 9705-2003 Full room scale test to Group 1, flammability test of materials AS1530.2-1994 (R2016) for facing foils and compliance with AS/NZS 1530.3 1999 (R2016) for combined bulk Glasswool insulation with a building membrane product ranges.

According to the National Construction Code, Volume 1, internal wall and ceiling linings within class 2 to 9 buildings must comply with specific fire hazard properties. The Group Number classification governs if and where the material can be used depending on the building class and application.

Fletcher Insulation Under Slab products achieve either a Group 1 or Group 2 classification (AS 5637.1:2015). For detailed results by insulation type, please refer to the Technical Information on pages 14 and 15.

Please seek a review from a fire engineer for any recommendations prior to installation to ensure suitability to your individual project.

DESIGNING FOR ACOUSTIC CONTROL

Noise Reduction Coefficients



Minimising noise is an important consideration when designing buildings. For projects requiring high levels of acoustic control such as concert halls, studios and auditoriums, Fletcher Insulation has a range of specialty facings to provide higher levels of acoustic control.

The performance of sound absorption for insulation is described by the Noise Reduction Coefficient (NRC). In sound absorption applications, the NRC is used as an acoustic performance measure. The higher the NRC, the greater the sound absorption at the representative frequencies.

Sound Absorption

Pink® Thermal Slab, Pink® NoiseSTOP™ and Permastop® Building Blanket achieves the following sound absorption coefficients when tested in accordance with AS ISO 11654-1997.

The Noise Reduction Coefficient (NRC) is calculated according to ASTMC423-90A and the average result of four frequencies: 250Hz, 500Hz, 1000Hz and 2000Hz.

	Nominal Thickness	r radical edular ribedi publi eduliti ou					NRC	
	mm	125	250	500	1000	2000	4000	
Pink [®] NoiseSTOP™	38	0.15	0.55	1.00	1.00	1.00	0.95	0.95
Pink® Thermal Slab	50	0.35	1.00	0.90	0.45	0.20	0.15	0.70
Pink [®] NoiseSTOP™	50	0.25	0.80	1.00	1.00	1.00	1.00	1.10
Permastop [®] Building Blanket (LD) R1.3	55	0.25	0.80	1.00	0.55	0.25	0.15	0.70
Pink® Thermal Slab	66	0.45	1.00	0.90	0.50	0.25	0.10	0.70
Pink® Thermal Slab	75	0.50	1.00	0.90	0.50	0.25	0.10	0.70
Pink [®] NoiseSTOP™	75	0.35	1.00	1.00	1.00	1.00	0.95	1.10
Permastop® Building Blanket (LD) R1.8	75	0.35	1.00	0.95	0.45	0.25	0.10	0.70
Pink® Thermal Slab	100	0.85	1.00	0.85	0.50	0.25	0.10	0.70
Permastop® Building Blanket (LD) R2.3	100	0.50	1.00	0.90	0.50	0.30	0.10	0.75
Pink [®] NoiseSTOP™	100	0.75	1.00	1.00	1.00	1.00	1.00	1.05
Permastop® Building Blanket (LD) R3.0	130	0.50	1.00	0.85	0.45	0.30	0.15	0.75
Permastop® Building Blanket (LD) R3.2	130	0.6	1.0	0.75	0.45	0.25	0.10	0.65
Permastop® Building Blanket (LD) R3.6	130	0.7	1.0	0.95	0.65	0.25	0.15	0.80

12 Fletcher Insulation www.insulation.com.au 13

TECHNICAL INFORMATION

BUILDING BLANKETS

Product	t	Permastop [®] Building Blanket						
Facing		Sisalation® Light Duty (LD) 436 Facing Foil	Sisalation® Medium Duty (MD) 430 Facing Foil	Sisalation [®] Heavy Duty (HD) 450 Facing Foil				
Applications								
MATERIAL PROPERTIES								
Foil overlap length (mm)		150	150	150				
Alkalinity of glasswool (pH)		9	9	9				
Green Star compliant No Ozone Depleting Posubstances in the man composition		Complies	Complies	Complies				
No harmful levels of Vo Compounds (VOC's)	latile Organic	Complies	Complies	Complies				
THERMAL PROPERTIE	ES							
Max. Operating Temp. (°C)		70°C	70°C	70°C				
Thermal performance (AS/NZS	S 4859.1:2018)	Complies	Complies	Complies				
			Permastop® Building Blanket					
	Thickness (mm)	Sisalation [®] Light Duty (LD) 436 Facing Foil	Sisalation® Medium Duty (MD) 430 Facing Foil	Sisalation [®] Heavy Duty (HD) 450 Facing Foil				
	55	R1.3	R1.3	R1.3				
Material R-Value (m ² K/W)	60	R1.4	R1.4	R1.4				
, ,	75	R1.8	R1.8	R1.8				
	100	R2.3 R2.5	R2.3 R2.5	R2.3 R2.5				
	130	R3.0 R3.2 R3.6	R3.0 R3.2 R3.6	R3.0 R3.2 R3.6				
ACOUSTIC PERFORM	ANCE - Refer to page	e 13						
CONDENSATION CON	TROL							
Building membrane		Water and Vapour Barrier	Water and Vapour Barrier	Water and Vapour Barrier				
FIRE HAZARD PROPE	RTIES							
Combustibility AS1530.1-1994 glasswool component	4 (R2016) of	Non-combustible	Non-combustible	Non-combustible				
NCC 2019 C1.9 Non-combus elements (e) (vi) for foil facing		Complies	Complies	Complies				
Ignitability, Flame Propagation Smoke Release AS1530.3 199								
Ignitability Index			0					
Spread of Flame Index			0					
Heat Evolved Index			0					
Smoke Developed Index			0 - 2					

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32KG SEMI RIGID INSULATION BOARD

Product		Pink [®] Thermal Slab	Pink® NoiseSTOP
Facing		Sisalation [®] Heavy Duty (HD) 450 Facing Foil	Durasorb Facing
Applications			
MATERIAL PROPERTIES			
Foil overlap length (mm)		n/a	n/a
Alkalinity of glasswool (pH)		9	9
Green Star compliant			
No Ozone Depleting Potential (ODP) substances in the manufacture or composition		Complies	Complies
No harmful levels of Volatile Organic Compounds (VOC's)		Complies	Complies
THERMAL PROPERTIE	s		
Max. Operating Temp. (°C)		70°C	70°C
Thermal performance (AS/NZS 4859.1:2018)		Complies	Complies
Material R-Value (m²K/W)	Thickness (mm)	Pink® Thermal Slab	Pink® NoiseSTOP
		Sisalation [®] Heavy Duty (HD) 450 Facing Foil	Durasorb Facing
	38	-	R1.2
	50	R1.5	R1.3
	66	R2.0	-
	70	-	R1.8
	75	R2.3	R2.3
	100	R3.0	R3.0
ACOUSTIC PERFORMA	NCE - Refer to page	e 13	
CONDENSATION CONT	rol		
Building membrane type		Water and Vapour Barrier	Non-water Barrier and Vapour Permeable
FIRE HAZARD PROPER	RTIES		
Combustibility AS1530.1-1994 (R2016) of glasswool component		Non-combustible	Non-combustible
NCC 2019 C1.9 Non-combustible building elements for (e) (vi) foil facing component		Complies	Not applicable
Ignitability, Flame Propagation, Heat Release and Smoke Release AS/NZS 1530.3 (2016)		Sisalation® Heavy Duty	
Ignitability Index		0	0
Spread of Flame Index		0	0
Heat Evolved Index Smoke Developed Index		0	0
·		0 - 2 Group 1	2 Group 1
Full Scale Room Test AS ISO 9705-2003 (R2016)		σιουρ ι	σιουρ ι

14 Fletcher Insulation www.insulation.com.au 15

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