

Application	R-Value (m ² K/W)	Thickness (mm)	Dimensions (mm)	Pieces Per Pack	Area Per Pack (m ²)	Bales Per Multi	Product Code
GOLD & GOLD HIGH PERFORMANCE (HP) WALL SEGMENTS							
Wall	R1.8	90	1160 x 580	22	14.8	6	84836
	R2.2	90	1160 x 580	16	10.8	5	84838
	R2.4	90	1160 x 580	10	6.7	5	104734
	R2.6	90	1160 x 580	8	5.4	5	86961
	R2.8	90	1160 x 580	5	3.4	5	118544
	R3.5	140	1160 x 580	10	6.7	5	126862
	R4.0 (HP)	140	1160 x 580	5	3.4	6	125449
GOLD & GOLD HIGH PERFORMANCE (HP) CEILING SEGMENTS							
Ceiling	R1.8 High Density	90	1160 x 430	22	11	6	480025
	R2.7	145	1160 x 430	20	10	5	15237
	R3.3	165	1160 x 430	16	8	5	468023
	R3.6	185	1160 x 430	16	8	5	474662
	R4.0	215	1160 x 430	12	6	5	84834
	R5.2 (HP)	240	1160 x 430	8	4	6	474661
	R6.0 (HP)	260	1160 x 430	6	3	5	79717
	R7.3 (HP)	290	1160 x 430	4	2	6	480049
R7.3 (HP)	290	1160 x 450				Coming Soon	
GOLD GLASSWOOL BLANKET							
	R1.3	60	30m x 1200	1	36	-	15555
	R1.8	80	15m x 1200	1	18	-	62631
	R2.2	90	15m x 1200	1	18	-	85808
	R2.6	120	10m x 1200	1	12	-	60353
	R2.9	115	8m x 1200	1	9.6	-	110112
	R3.3	145	10m x 1200	1	12	-	85807
	R3.6	165	6m x 1200	1	7.2	-	132402
GOLD SKILLION CEILING BLANKET							
Skillion Blanket	R3.2	115	8m x 1200	1	9.6	-	155082
OPTIMO UNDERFLOOR							
Under Floor	R1.6	70	1160 x 415	16	7.7	6	188091
	R1.6	70	1160 x 565	16	10.5	6	188092
	R2.6	90	1160 x 415	8	3.8	5	108742
	R2.6	90	1160 x 565	8	5.2	5	108741
DIY PACK							
DIY Pack	R2.4	90	7m x 580	1	4.06	-	189378
ACOUSTIC GOLD							
Acoustic	R1.8	75	1160 x 580	16	10.8	6	89731
	R2.2	90	1160 x 580	16	10.8	5	118332

Insulation Changes: What you need to know

New regulations mean changes for insulation.

In 2020 the government updated the thermal performance requirements for insulation.

The new standards, called **HI Energy Efficiency Acceptable Solution H1/AS1** apply to new homes and buildings up to 300 m². Requirements for buildings over 300 m² have been combined into the new **Acceptable Solution H1/AS2**.

The new standards are designed to make our buildings warmer, drier and up to 40% more energy efficient. For builders and installers, this means changes to the way insulation is specified and installed.

So what's changed?

1. New Climate Zones

The three climate zones have now been replaced by six new climate zones shown in the map. These new zones allow for a more accurate representation of the temperatures in different parts of New Zealand.



2. New R-Values

R-Values are the thermal resistance rating that determines a material's ability to resist the transfer of heat. There are two types of R-Value:

Construction R-Value (Total R-Value)

Construction R-Values, also called Total R-Values, apply to a complete building element, such as a roof or wall.

Material R-Value

These measure the heat flow resistance of a specific material, such as insulation. The Material R-Value is expressed as the thickness of the material divided by the material's thermal conductivity.

The new standards apply to Construction R-Values, with the changes shown in the chart opposite.

Roofs	Climate Zone 1	Climate Zone 2	Climate Zone 3	Climate Zone 4	Climate Zone 5	Climate Zone 6
4 th Edition		2.9			3.3	
NEW 5TH EDITION						
HI/ASI, HI/VM1			6.6 ¹			

Walls	Climate Zone 1	Climate Zone 2	Climate Zone 3	Climate Zone 4	Climate Zone 5	Climate Zone 6
4 th Edition		1.9			2.0	
NEW 5TH EDITION						
HI/ASI, HI/VM1			2.0			

Floors	Climate Zone 1	Climate Zone 2	Climate Zone 3	Climate Zone 4	Climate Zone 5	Climate Zone 6
4 th Edition		1.9			2.0	
NEW 5TH EDITION						
Slab on ground		1.5			1.6	1.7
Other Floors		2.5		2.8	3.0	



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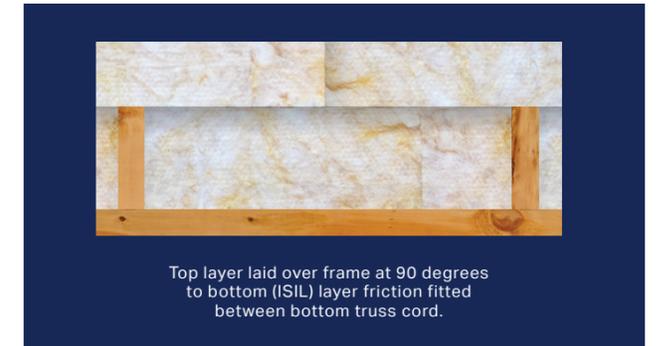
Solutions*

*To achieve construction R-Values in various ceiling construction types under the schedule method

Double Layer

High density **R1.8** product installed in between the joists, then **R5.2** product is laid over the top.

R-VALUE	DESCRIPTION
R1.8	First layer in between ceiling joists
R5.2	Second layer over the top



Single Layer – Over the top

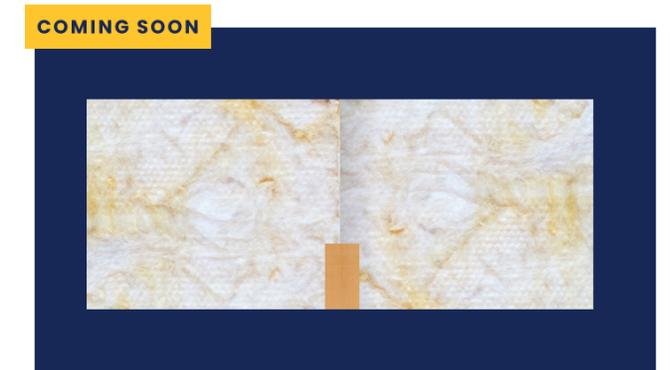
R7.3 product installed over the top of the joists.

R-VALUE	DESCRIPTION
R7.3	Installed over top of the joists

Single Layer – In between

R7.3 product (450mm wide) is installed in-between the joists, then spills over the top to cover the joists.

R-VALUE	DESCRIPTION
R7.3	Installed in between joists



Bradford Sets the Standard

Bradford creates total home comfort with a comprehensive range of BRANZ Appraised insulation products that meet or exceed New Zealand Building Code standards.



Bradford Gold insulation is also Sensitive Choice® certified for people with asthma and allergies. And because Bradford insulation comes with a 70-year warranty, you can have peace of mind that Bradford Gold will last.