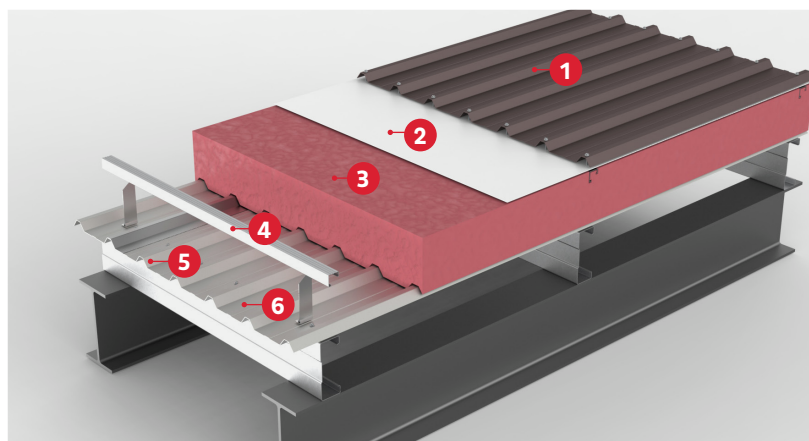


Dimond Advanced Roofing Systems

Advanced Standard System



- 1** Dimond Top Sheet
- 2** Dimond Underlay
- 3** Dimond BIB Insulation
- 4** Dimond Post & Rail System
- 5** Dimond Lap Seal Tape
- 6** Dimond Base Sheet

PRODUCT DESCRIPTION

Advanced Standard System is a composite post and rail warm roof system that provides thermal performance and effectively manages condensation risks.

SCOPE OF USE

- Advanced Standard System is intended to be installed over structural purlins at appropriate spacings to suit both the Dimond Base Sheet and the Dimond Top Sheet fastening requirements. Where timber purlins are used, use minimum 70mm wide purlins.
- Dimond BIB Insulation is available in a range of thicknesses to achieve thermal insulation R values up to R7.
- The control of moisture and condensation is achieved with Dimond Lap Seal Tape on the Dimond Base Sheet and a layer of breathable Dimond Underlay laid over the Dimond BIB Insulation ensuring no build-up of moisture within the system.
- The Dimond Top Sheet covering can be selected from our range of long-run roof profiles and coated metal materials to match performance to the environment. This includes the scope to use site-rolled, clip fastened decking profiles to achieve a continuous roof covering sheet in lengths up to 90m from ridge to gutter.
- Multi-layer skylights can be incorporated to achieve the required balance between natural lighting levels and thermal insulation.

Refer to system separate component manufactures technical and installation data. These can be downloaded online at www.dimond.co.nz.

Limitations:

Not intended for installation over a plywood liner.

Roof pitch meets the minimum required pitch for the selected top sheet product.

COMPLIANCE WITH THE NZ BUILDING CODE

Past history of use of long run metal roofing and cladding products in New Zealand and information available from Pacific Coilcoaters and New Zealand Steel indicate that provided the system design, use and maintenance is in line with the guidelines contained in the current Dimond Roofing technical literature and standards referenced therein, Dimond® Roofing long run metal roofing & wall cladding systems can reasonably be expected to meet the following performance criteria outlined in New Zealand Building Code;

B1 Structure: Performance clauses B1.3.1, B1.3.2, B1.3.3 (a) (b) (c) (g) (h), B1.3.4 (b) (d): Dimond long run roofing and wall cladding has been tested in accordance with the NZMRM code of practice Section 17.1.

B2 Durability: Performance clauses B2.3.1(b): Dimond long run roofing and wall cladding conforms to AS/NZS 2728 as stated in NZMRM code of practice section 17.4.

C3 Fire affecting areas beyond the fire source: Buildings C3.4(a): Testing has been carried out material suppliers in accordance with the relevant standards stated in C3.4(a).

E2 External moisture: Performance E2.3.1, E2.3.2: Is suitable for installation in accordance with Acceptable Solution E2/AS1, NZMRM code of practice, RANZ installation guides and Dimond installation Details/Technical Manual. Installation

details provided by other parties such as architects and engineers may also be suitable.

F2 Hazardous building materials: Performance F2.3.1: The quantities solid particles emitted by Dimond long run roofing and cladding, shall not give rise to harmful concentrations at the surface of the material where the material is exposed, or in the atmosphere.

G6 Airborne and Impact Sound: Performance clause G6.3. Specific design required using Dimond technical literature and Advanced Standard System details to reasonably meet the requires of NZBC clause G6.3

H1 Energy Efficiency: Performance clause H1.3.1 (a). Contributes to meeting this requirement

Relevant Standards

NZBC – E2/AS1 – External Moisture/building performance

NZMRM Cop – NZ Metal Roof and Wall Cladding Code of Practice

AS 1562.1:2018 – Sheet roof and wall cladding

AS 4040.1,2 and 3-1992 – Methods of testing sheet roof and wall cladding resistance to concentrated loads, wind pressure for non-cyclone and cyclone regions

AS/NZS 2728:2013 – Prefinished/prepainted sheet metal products for interior/exterior building applications – Performance requirements

AS/NZS 1530.3:1999 – Methods for fire testing on building materials, components, and structures. Simultaneous determination of ignitability, flame propagation, heat, and smoke release

AS/NZS 4020:2018 – Testing product for use with drinking water

ISO 5660-1:2015 – Reaction to fire tests – Heat release. Smoke production and mass loss rate. Part 1

ISO9223:2012 – Corrosion of metals and alloys – Corrosivity of atmospheres – Classification, determination, and estimation

ISO9705:1993 Fire test- Full scale room test for surface products

Acoustic

Acoustically tested by Marshall Day Acoustics. Contact the Dimond technical team for more information

Fire

Advanced Standard System is a non-combustible warm roof system.

ENVIRONMENTAL PRODUCT DECLARATION

Dimond® Roofing has been implementing green building principles across the industry for a number of years now and has developed a fully realised environmental sustainability pathway to reach our goal of reducing our carbon emissions by 30% by 2030. Dimond® Roofing has met the criteria for “Level A” certification for the Global GreenTag™ GreenRate™ ecolabel and as part of Dimond’s Toitū carbonreduce® accreditation, essential Scope 1 & 2 emissions, are being measured as well as voluntarily measuring Scope 3 emissions.

Dimond® Roofing profiles are accredited with Eco Choice Aotearoa when manufactured from COLORSTEEL®. All manufacturing sites have been Audited by NZ Steel.

Dimond® Roofing recycle all steel scrap waste and offcuts which can then be remelted down and reused in other steel-based products. At the end of its useful life as a roofing profile can be recycled back by remelted down.

Dimond® Roofing has carefully chosen products and suppliers that align with our goals to reduce our carbon footprint. That is why Dimond® believes working with Kingspan/Thermakraft and the Planet Passionate programme we can continue to get better in our environmental journey.

Refer to ColorCote and COLORSTEEL Environmental Product Declaration documents.

SYSTEM COMPONENTS & DESIGN GUIDELINES

3.1 Dimond Base Sheet

Dimond Base Sheet is available in either BB900, DP955, LT7, Hi-Five, Styleline & V-Rib in G550, 0.40mm or 0.55mm BMT coated steel sheet.

Profiles (Steel – G550)	Thickness BTM (mm)	Max. End Span* (mm)	Max. Internal Span* (mm)
BB900 (Max 240mm Dimond Post & Rail Height)	0.40	1500	2200
	0.55	2300	3400
DP 955	0.40	1600	2400
	0.55	2700	4000
LT7 (Max 240mm Dimond Post & Rail Height)	0.40	1200	1800
	0.55	1900	2900
Hi Five	0.40	1000	1600
	0.55	1500	2200
Styleline	0.40	1000	1600
	0.55	1500	2200
V-Rib (Max 240mm Dimond Post & Rail Height)	0.40	1400	1800
	0.55	1700	2500

- Minimum 3° Roof pitch.
- Max purlin spacing as per the profile load span charts.
- Specify coating on steel to match the environment.
- Fix Dimond Base Sheets every 2nd crest into the internal purlin spacings and every crest on sheet ends, using a 12g x 20mm tek (for steel purlins) or a T17x 35mm (for timber purlins).

Refer to manufactures technical and installation data. These can be downloaded online at www.dimond.co.nz.

3.2 Dimond Lap Seal Tape:

Thermakraft Premium Joining Tape

Thermakraft Premium Joining Tape is a multi-layered reinforced synthetic tape with a layer of acrylic adhesive to one side of the tape which bonds to common construction substrates.

Refer to manufactures technical and installation data. These can be downloaded online at www.dimond.co.nz.

3.3 Dimond Post & Rail System:

Ash & Lacy – AshGrid Spacer System

The Ash & Lacy AshGrid Spacer System consists of galvanised bars (AG40 Bar) and supporting brackets (AB40 Bracket up to 240mm high and ABV Bracket from 260mm to 320mm high) which are fixed through the Dimond Base Sheet and into the roof structure.

Refer to manufactures technical and installation data. These can be downloaded online at www.dimond.co.nz.

AG40 LOAD SPAN TABLE - Roof

Bracket Depth AB40/150

No. of Fixings per Bracket: 2

Substrate Thickness 1.5mm (S450)

Type of Fixing: LS

Multi Span Condition

Bar Spacing (m)	Direction of loading	Bracket Centres Along Bar (m)						
		0.30	0.50	0.60	0.75	0.80	0.90	1.00
		Loading in kN/m ²						
0.3	Pressure Suction	43.74 26.68	26.23 16.02	21.85 13.36	16.19 10.69	14.22 10.03	11.23 8.92	9.09 8.03
0.4	Pressure Suction	32.79 20.02	19.66 12.02	16.38 10.03	12.13 8.03	10.66 7.53	8.41 6.69	6.81 6.03
0.5	Pressure Suction	26.23 16.02	15.72 9.63	13.09 8.03	9.70 6.43	8.52 6.03	6.72 5.36	5.44 4.83
0.6	Pressure Suction	21.85 13.36	13.09 8.03	10.90 6.69	8.07 5.36	7.09 5.03	5.59 4.47	4.52 4.03
0.7	Pressure Suction	18.72 11.45	11.22 6.88	9.34 5.74	6.91 4.60	6.07 4.31	4.79 3.84	3.87 3.46
0.8	Pressure Suction	16.38 10.03	9.81 6.03	8.17 5.03	6.04 4.03	5.31 3.78	4.19 3.36	3.38 3.03
0.9	Pressure Suction	14.55 8.92	8.71 5.36	7.25 4.47	5.37 3.58	4.71 3.36	3.72 2.99	3.00 2.70
1.0	Pressure Suction	13.09 8.03	7.84 4.83	6.52 4.03	4.83 3.23	4.24 3.03	3.34 2.70	2.70 2.43
1.1	Pressure Suction	11.90 7.30	7.12 4.39	5.93 3.67	4.38 2.94	3.85 2.76	3.03 2.45	2.45 2.21
1.2	Pressure Suction	10.90 6.69	6.52 4.03	5.43 3.36	4.02 2.70	3.52 2.53	2.78 2.25	2.24 2.03
1.3	Pressure Suction	10.06 6.18	6.02 3.72	5.01 3.11	3.70 2.49	3.25 2.34	2.56 2.08	2.07 1.88
1.4	Pressure Suction	9.34 5.74	5.59 3.46	4.65 2.89	3.44 2.32	3.02 2.17	2.37 1.93	1.91 1.74
1.5	Pressure Suction	8.71 5.36	5.21 3.23	4.34 2.70	3.20 2.16	2.81 2.03	2.21 1.81	1.78 1.63
1.6	Pressure Suction	8.17 5.03	4.88 3.03	4.06 2.53	3.00 2.03	2.63 1.90	2.07 1.70	1.67 1.53
1.7	Pressure Suction	7.68 4.73	4.59 2.85	3.82 2.38	2.82 1.91	2.48 1.79	1.95 1.60	1.57 1.44
1.8	Pressure Suction	7.25 4.47	4.34 2.70	3.61 2.25	2.66 1.81	2.34 1.70	1.84 1.51	1.48 1.36
1.9	Pressure Suction	6.87 4.24	4.11 2.56	3.41 2.14	2.52 1.71	2.21 1.61	1.74 1.43	1.40 1.29
2.0	Pressure Suction	6.52 4.03	3.90 2.43	3.24 2.03	2.39 1.63	2.10 1.53	1.65 1.36	1.33 1.23

Notes:

- All loads are working wind loads
- Load table is developed based on testing and calculation referred to BS EN 5427:2016 and BS EN 1993-1-3:2024
- Material: S450GD+Z275 for AG40 bar and AB40 bracket, and DX51D+Z275 for ABV bracket referred BS EN 10346:2015
- Deflection ratio = span/200
- Roof sheet weight: 0.066kN/m²
- Snow load = 0 kN/m² and sloar panel load = 0 kN/m²

Working loads in the table are limited by

- Design resistnace of uplifting: 3.96kN
- Design resistance of bracket compression 6.50kN
- Design resiatnace of fixing pull out from substrate: 5.05kN

AG40 LOAD SPAN TABLE - Roof

Bracket Depth AB40/230

No. of Fixings per Bracket: 2

Substrate Thickness 1.5mm (S450)

Type of Fixing: LS

Multi Span Condition

Bar Spacing (m)	Direction of loading	Bracket Centres Along Bar (m)						
		0.30	0.50	0.60	0.75	0.80	0.90	1.00
		Loading in kN/m²						
0.3	Pressure Suction	23.72 26.68	14.22 16.02	11.84 13.36	9.46 10.69	8.87 10.03	7.88 8.92	7.09 8.03
0.4	Pressure Suction	17.78 20.02	10.65 12.02	8.87 10.03	7.09 8.03	6.64 7.53	5.90 6.69	5.31 6.03
0.5	Pressure Suction	14.22 16.02	8.51 9.63	7.09 8.03	5.66 6.43	5.31 6.03	4.71 5.36	4.24 4.83
0.6	Pressure Suction	11.84 13.36	7.09 8.03	5.90 6.69	4.71 5.36	4.41 5.03	3.92 4.47	3.52 4.03
0.7	Pressure Suction	10.14 11.45	6.07 6.88	5.05 5.74	4.03 4.60	3.78 4.31	3.35 3.84	3.01 3.46
0.8	Pressure Suction	8.87 10.03	5.31 6.03	4.41 5.03	3.52 4.03	3.30 3.78	2.93 3.36	2.63 3.03
0.9	Pressure Suction	7.88 8.92	4.71 5.36	3.92 4.47	3.13 3.58	2.93 3.36	2.60 2.99	2.33 2.70
1.0	Pressure Suction	7.09 8.03	4.24 4.83	3.52 4.03	2.81 3.23	2.63 3.03	2.33 2.70	2.10 2.43
1.1	Pressure Suction	6.44 7.30	3.85 4.39	3.20 3.67	2.55 2.94	2.39 2.76	2.12 2.45	1.90 2.21
1.2	Pressure Suction	5.90 6.69	3.52 4.03	2.93 3.36	2.33 2.70	2.19 2.53	1.94 2.25	1.74 2.03
1.3	Pressure Suction	5.44 6.18	3.25 3.72	2.70 3.11	2.15 2.49	2.01 2.34	1.79 2.08	1.60 1.88
1.4	Pressure Suction	5.05 5.74	3.01 3.46	2.50 2.89	2.00 2.32	1.87 2.17	1.66 1.93	1.49 1.74
1.5	Pressure Suction	4.71 5.36	2.81 3.23	2.33 2.70	1.86 2.16	1.74 2.03	1.54 1.81	1.38 1.63
1.6	Pressure Suction	4.41 5.03	2.63 3.03	2.19 2.53	1.74 2.03	1.63 1.90	1.44 1.70	1.30 1.53
1.7	Pressure Suction	4.15 4.73	2.47 2.85	2.06 2.38	1.64 1.91	1.53 1.79	1.36 1.60	1.22 1.44
1.8	Pressure Suction	3.92 4.47	2.33 2.70	1.94 2.25	1.54 1.81	1.44 1.70	1.28 1.51	1.15 1.36
1.9	Pressure Suction	3.71 4.24	2.21 2.56	1.83 2.14	1.46 1.71	1.37 1.61	1.21 1.43	1.08 1.29
2.0	Pressure Suction	3.52 4.03	2.10 2.43	1.74 2.03	1.38 1.63	1.30 1.53	1.15 1.36	1.03 1.23

- Notes:
- All loads are working wind loads
 - Load table is developed based on testing and calculation referred to BS EN 5427:2016 and BS EN 1993-1-3:2024
 - Material: S450GD+Z275 for AG40 bar and AB40 bracket, and DX51D+Z275 for ABV bracket referred BS EN 10346:2015
 - Deflection ratio = span/200
 - Roof sheet weight: 0.066kN/m²
 - Snow load = 0 kN/m² and sloar panel load = 0 kN/m²

- Working loads in the table are limited by
- Design resistnace of uplifting: 3.96kN
 - Design resistnace of bracket compression 3.53kN
 - Design resiatnace of fixing pull out from substrate: 5.05kN

AG40 LOAD SPAN TABLE - Roof

Bracket Depth ABV/260

No. of Fixings per Bracket: 4

Substrate Thickness 1.5mm (S450)

Type of Fixing: LS

Multi Span Condition

Bar Spacing (m)	Direction of loading	Bracket Centres Along Bar (m)						
		0.30	0.50	0.60	0.75	0.80	0.90	1.00
		Loading in kN/m ²						
0.3	Pressure Suction	75.04 34.92	36.48 20.96	25.32 17.47	16.19 13.99	14.22 13.11	11.23 11.30	9.09 9.16
0.4	Pressure Suction	56.27 26.19	27.35 15.73	18.98 13.11	12.13 10.50	10.66 9.84	8.41 8.48	6.81 6.88
0.5	Pressure Suction	45.01 20.96	21.87 12.59	15.17 10.50	9.70 8.40	8.52 7.88	6.72 6.79	5.44 5.51
0.6	Pressure Suction	37.50 17.47	18.22 10.50	12.64 8.75	8.07 7.01	7.09 6.57	5.59 5.67	4.52 4.60
0.7	Pressure Suction	32.14 14.98	15.61 9.00	10.83 7.51	6.91 6.01	6.07 5.64	4.79 4.86	3.87 3.94
0.8	Pressure Suction	28.11 13.11	13.65 7.88	9.47 6.57	6.04 5.26	5.31 4.94	4.19 4.26	3.38 3.45
0.9	Pressure Suction	24.99 11.66	12.13 7.01	8.41 5.85	5.37 4.68	4.71 4.39	3.72 3.79	3.00 3.07
1.0	Pressure Suction	22.48 10.50	10.91 6.31	7.57 5.26	4.83 4.22	4.24 3.96	3.34 3.41	2.70 2.77
1.1	Pressure Suction	20.44 9.55	9.92 5.74	6.87 4.79	4.38 3.84	3.85 3.60	3.03 3.11	2.45 2.52
1.2	Pressure Suction	18.73 8.75	9.09 5.26	6.30 4.39	4.02 3.52	3.52 3.30	2.78 2.85	2.24 2.31
1.3	Pressure Suction	17.29 8.08	8.39 4.86	5.81 4.06	3.70 3.25	3.25 3.05	2.56 2.63	2.07 2.14
1.4	Pressure Suction	16.05 7.51	7.78 4.52	5.39 3.77	3.44 3.02	3.02 2.83	2.37 2.45	1.91 1.99
1.5	Pressure Suction	14.98 7.01	7.26 4.22	5.03 3.52	3.20 2.82	2.81 2.65	2.21 2.29	1.78 1.86
1.6	Pressure Suction	14.04 6.57	6.81 3.96	4.71 3.30	3.00 2.65	2.63 2.48	2.07 2.14	1.67 1.74
1.7	Pressure Suction	13.21 6.19	6.40 3.72	4.43 3.11	2.82 2.49	2.48 2.34	1.95 2.02	1.57 1.64
1.8	Pressure Suction	12.47 5.85	6.04 3.52	4.19 2.94	2.66 2.36	2.34 2.21	1.84 1.91	1.48 1.55
1.9	Pressure Suction	11.81 5.54	5.72 3.34	3.96 2.79	2.52 2.23	2.21 2.10	1.74 1.81	1.40 1.47
2.0	Pressure Suction	11.22 5.26	5.44 3.17	3.76 2.65	2.39 2.12	2.10 1.99	1.65 1.72	1.33 1.40

Notes:

- All loads are working wind loads
- Load table is developed based on testing and calculation referred to BS EN 5427:2016 and BS EN 1993-1-3:2024
- Material: S450GD+Z275 for AG40 bar and AB40 bracket, and DX51D+Z275 for ABV bracket referred BS EN 10346:2015
- Deflection ratio = span/200
- Roof sheet weight: 0.066kN/m²
- Snow load = 0 kN/m² and sloar panel load = 0 kN/m²

Working loads in the table are limited by

- Design resistnace of uplifting: 5.18kN
- Design resistnace of bracket compression 11.15kN
- Design resiatnace of fixing pull out from substrate: 10.11kN

AG40 LOAD SPAN TABLE - Roof

Bracket Depth ABV/320

No. of Fixings per Bracket: 4

Substrate Thickness 1.5mm (S450)

Type of Fixing: LS

Multi Span Condition

Bar Spacing (m)	Direction of loading	Bracket Centres Along Bar (m)						
		0.30	0.50	0.60	0.75	0.80	0.90	1.00
		Loading in kN/m ²						
0.3	Pressure Suction	75.04 34.92	36.48 20.96	25.32 17.47	16.19 13.99	14.22 13.11	11.23 11.30	9.09 9.16
0.4	Pressure Suction	56.27 26.19	27.35 15.73	18.98 13.11	12.13 10.50	10.66 9.84	8.41 8.48	6.81 6.88
0.5	Pressure Suction	45.01 20.96	21.87 12.59	15.17 10.50	9.70 8.40	8.52 7.88	6.72 6.79	5.44 5.51
0.6	Pressure Suction	37.50 17.47	18.22 10.50	12.64 8.75	8.07 7.01	7.09 6.57	5.59 5.67	4.52 4.60
0.7	Pressure Suction	32.14 14.98	15.61 9.00	10.83 7.51	6.91 6.01	6.07 5.64	4.79 4.86	3.87 3.94
0.8	Pressure Suction	28.11 13.11	13.65 7.88	9.47 6.57	6.04 5.26	5.31 4.94	4.19 4.26	3.38 3.45
0.9	Pressure Suction	24.99 11.66	12.13 7.01	8.41 5.85	5.37 4.68	4.71 4.39	3.72 3.79	3.00 3.07
1.0	Pressure Suction	22.48 10.50	10.91 6.31	7.57 5.26	4.83 4.22	4.24 3.96	3.34 3.41	2.70 2.77
1.1	Pressure Suction	20.44 9.55	9.92 5.74	6.87 4.79	4.38 3.84	3.85 3.60	3.03 3.11	2.45 2.52
1.2	Pressure Suction	18.73 8.75	9.09 5.26	6.30 4.39	4.02 3.52	3.52 3.30	2.78 2.85	2.24 2.31
1.3	Pressure Suction	17.29 8.08	8.39 4.86	5.81 4.06	3.70 3.25	3.25 3.05	2.56 2.63	2.07 2.14
1.4	Pressure Suction	16.05 7.51	7.78 4.52	5.39 3.77	3.44 3.02	3.02 2.83	2.37 2.45	1.91 1.99
1.5	Pressure Suction	14.98 7.01	7.26 4.22	5.03 3.52	3.20 2.82	2.81 2.65	2.21 2.29	1.78 1.86
1.6	Pressure Suction	14.04 6.57	6.81 3.96	4.71 3.30	3.00 2.65	2.63 2.48	2.07 2.14	1.67 1.74
1.7	Pressure Suction	13.21 6.19	6.40 3.72	4.43 3.11	2.82 2.49	2.48 2.34	1.95 2.02	1.57 1.64
1.8	Pressure Suction	12.47 5.85	6.04 3.52	4.19 2.94	2.66 2.36	2.34 2.21	1.84 1.91	1.48 1.55
1.9	Pressure Suction	11.81 5.54	5.72 3.34	3.96 2.79	2.52 2.23	2.21 2.10	1.74 1.81	1.40 1.47
2.0	Pressure Suction	11.22 5.26	5.44 3.17	3.76 2.65	2.39 2.12	2.10 1.99	1.65 1.72	1.33 1.40

Notes:

- All loads are working wind loads
- Load table is developed based on testing and calculation referred to BS EN 5427:2016 and BS EN 1993-1-3:2024
- Material: S450GD+Z275 for AG40 bar and AB40 bracket, and DX51D+Z275 for ABV bracket referred BS EN 10346:2015
- Deflection ratio = span/200
- Roof sheet weight: 0.066kN/m²
- Snow load = 0 kN/m² and sloar panel load = 0 kN/m²

Working loads in the table are limited by

- Design resistnace of uplifting: 5.18kN
- Design resistnace of bracket compression 11.15kN
- Design resiatnace of fixing pull out from substrate: 10.11kN

3.4 Dimond BIB Insulation:

Pink® Batts® Building Insulation Blanket

Pink® Batts® Building Insulation Blanket, is a lightweight flexible glass wool insulation product.

Refer to manufactures technical and installation data. These can be downloaded online at www.dimond.co.nz.

Product Glass Wool range	Product code	Size (mm)	Nominal Stabilised Thickness (mm)	Nominal Total Area per Bale (m3)	Approx. coverage per Bale (m3)	Eco Choice Aotearoa (Environmental Choice)	Environmental Product Declaration	Branz Appraisal Number
Roof - Building Insulation Blanket (BIB)								
R1.2 Pink® Batts® BIB	7250501	24000 X 1200	50	28.8	N/A	✓	✓	238
R1.8 Pink® Batts® BIB	7270501	20000 X 1200	75	24	N/A	✓	✓	238
R2.4 Pink® Batts® BIB	7290501	16000 X 1200	95	19.2	N/A	✓	✓	238
R2.6 Pink® Batts® BIB	7200501	14000 X 1200	105	16.8	N/A	✓	✓	238
R3.2 Pink® Batts® BIB	7200502	12000 X 1200	125	14.4	N/A	✓	✓	238
R3.6 Pink® Batts® BIB	7200503	10000 X 1200	140	12	N/A	✓	✓	238

ROCKWOOL®:

ROCKWOOL® stone wool insulation is a thermal and acoustic insulating material made from natural stone fibers.

Refer to manufactures technical and installation data. These can be downloaded online at www.dimond.co.nz.

ROCKWOOL® Cool 'n' Comfort:

Cool'n' Comfort RL920

R-Value m²K/W	Thickness (mm)	Width (mm)	Length (mm)	# Pieces per pack	Area per pack (m²)
1.45	50	1200	5000	1	6
2.15	75	1200	4000	1	4.8
2.85	100	1200	4000	1	4.8

ROCKWOOL® Hardrock:

Hardrock 80

R-Value m²K/W	Thickness (mm)	Width (mm)	Length (mm)	# Pieces per pack	Area per pack (m²)
0.70	25	600	1200	8	5.76
1.35	50	600	1200	4	2.88
2.70	100	600	1200	2	1.44

3.5 Dimond Underlay:

Thermakraft Covertex 407

Heavy duty self-supporting roof and wall underlay

Refer to manufactures technical and installation data. These can be downloaded online at www.dimond.co.nz.

Thermakraft Covertex 407						
NZBC E2/AS1 Table 23 (NZS2295) Roof Underlay Properties	Absorbency	Vapour Resistance	pH of Extract	Shrinkage	Water Resistance	Air Resistance
Property Performance Requirement	≥ 150gsm	≤ 7 MN.s/g	≥ 5.5 and ≤ 8	≤ 0.5%	≥ 100mm	≥ 0.1 MN. s/m ³
Property Performance	Pass	Pass	Pass	Pass	Pass	Pass*

Pro Clima Solitex Mento 1000 connect

Pro Clima Solitex Mento 1000 connect is a roofing underlay, with self-adhesive strips

Refer to manufactures technical and installation data. These can be downloaded online at www.dimond.co.nz.

Pro Clima Solitex Mento 1000 connect						
NZBC E2/AS1 Table 23 (NZS2295) Roof Underlay Properties	Absorbency	Vapour Resistance	pH of Extract	Shrinkage	Water Resistance	Air Resistance
Property Performance Requirement	≥ 150gsm	≤ 7 MN.s/g	≥ 5.5 and ≤ 8	≤ 0.5%	≥ 100mm	≥ 0.1 MN. s/m ³
Property Performance	Pass	Pass	Pass	Pass	Pass	Pass*

3.6 Dimond Top Sheet

All Dimond roof profiles can be used as a Dimond Top Sheet and are manufactured out of Pacific Coil Coaters ColorCote or New Zealand Steel COLORSTEEL product.

Product Variations (Thickness, Shape, and General Product Variables)

Refer to Table 2.1A, of the Dimond Technical Manual, which summarises the general base and top Sheet material options available.

Manufactured using different coatings available from Pacific Coilcoaters or New Zealand Steel depending on the durability required for the environment the roof or wall will be installed in, in accordance with AS/NZS 2728. For more information refer to Table 2.1C of the Dimond Technical Manual downloaded online at www.dimond.co.nz.

Refer to environmental literature available from Pacific Coilcoaters or New Zealand Steel or contact Dimond® Roofing on 0800 766 377. Duraclad® is recommended for use in special areas such as fertiliser works or very severe marine.

3.7 Fixings

Fix **Dimond Base Sheets** every 2nd crest into the internal purlin spacings and every crest on sheet ends, using a 12g x 20mm tek (for steel purlins) or a T17x 35mm (for timber purlins).

Fixings for **Dimond Post & Rail System** are either, 12g x 20mm tek (for steel purlins) or a T17x 35mm (for timber purlins) to secure the post to the substructure.

Fix the **Dimond Top Sheet** using the appropriate length and fixing patten of 12g or 14g screw through the **Dimond Top Sheet** and into the **Dimond Post & Rail System** as per the dimond technical manual.

Fixings must match or surpass the durability of the material they secure. Additionally, their metal or coating should be compatible with the cladding material if they come into contact. For pre-painted steel products, it's imperative that fasteners are factory colour-matched prior to installation.

Screw fasteners need to have adequate length to ensure they penetrate the supporting structure properly. Generally, for screws into timber, a minimum embedment of 30mm is recommended, while screws into steel should engage at least three threads. In severe environments, a minimum Class 4 rating is necessary, whereas very severe environments call for a Class 5 rating.

Warranty Statement:

All components in Dimond Advanced Roofing Systems are warranted by their individual manufacturer for use in Dimond Advanced Roofing Systems. Component warranties are subject to the terms and conditions set out by the individual manufacturer. Dimond Advanced Roofing Components must be installed, used, and maintained in accordance with the individual manufacturer's guidelines.

Contact us

Dimond® Roofing

Ph. 0800 Roofspeak (0800 766 377)
or 0800 DIMOND

dimond.co.nz