ROOFLOGIC

Ultratherm Xtreme

FIBERTITE SYSTEM DATASHEETS

Insulation and Roof Boards

- RL BaseDeck
- RL Vapour Control
- RL PIR Board
- RL Stonewool
- RL PIR - Tapered
- RL Roof Board HDP
- RL Roof Board LW
- RL Polystyrene

Membranes

- RL Fibertite Membrane - FB
- RL Fibertite Membrane - SM
- RL Fiberclad

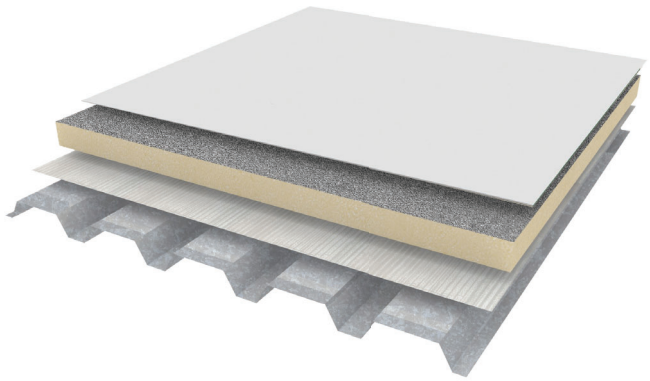
Adhesives and Walkway

- Armac 190KEE
- Armac 220 Fast Bond
- Armac 320 SA Primer
- Armac 400U Fleece Bond
- Armac 490U Roll-On
- RL FTR 490E
- Armac 600U Board Bond
- RL PU Primer
- Armac 600U Two Part
- RL Smart Bar
- RL Walkway Tile
- RL Walkway Pad

RL BASEDECK

For Ultratherm Xtreme Systems

RL Structural BaseDeck has been designed and engineered to provide a structural steel substrate for the subsequent installation of the RoofLogic Ultratherm Xtreme roof system.



RL BaseDeck

DESCRIPTION

The RL Structural BaseDeck is purpose-built, designed to serve as a structural steel substrate for the installation of the RoofLogic Ultratherm Xtreme roof system.

BENEFITS

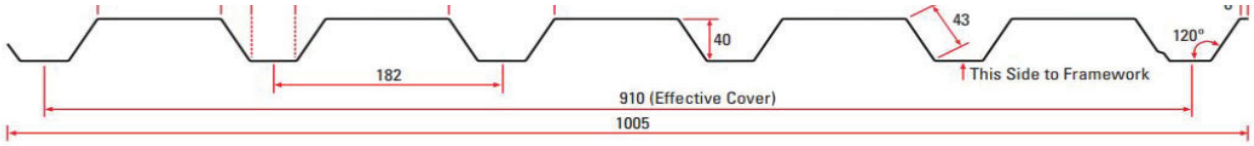
When properly installed according to RoofLogic specifications, the RL Structural Base Deck offers several important benefi ts:

- Wind Uplift Resistance: The RL Structural BaseDeck is engineered to resist wind uplift forces, ensuring it can withstand strong winds and adverse weather conditions.
- Deflection Limits Compliance: When used as a substrate for the RoofLogic Xtreme system, the RL Structural BaseDeck meets the maximum defl ection limits set for structural steel base decks.
- Fastener Withdrawal Resistance: The RL BaseDeck serves as the attachment point for mechanical fasteners in the RoofLogic Xtreme system, ensuring that the fasteners remain securely in place.

MATERIAL AND FINISH

The standard finish for RL BaseDeck is a ZINCALUME, zincaluminium coating applied to 0.75 BMT steel.

When the RL BaseDeck is left exposed inside the building, designers can choose a colour coating for the underside of the BaseDeck. The standard colour for RL BaseDeck is Colorsteel Titania, with other colors available upon request (minimum order quantity applies).



RL BaseDeck installed

INSTALLATION

The RL Structural BaseDeck can be installed over timber or steel purlins. The deck is to be secured at every purlin and through each pan of the base deck profile. Stitch laps at 300 mm centres.

The below table are the fixings to be used when fixing RL BaseDeck to purlins:-

Timber Purlins	12- 11x40 Class 4 Type 17 Timbertites with neos
Steel Purlins up to 1.5 mm	12- 14x20 Class 4 Steeltites with Neos
Steel Purlins 1.5 mm - 4.5 mm	12- 14x20 Steeltites with Neos
Steel Purlins 4.5 mm - 12 mm	12- 24x32 Class 4 Steeltites, Series 500 with Neos

INSTALLATION LIMITATIONS

It is important to establish compatibility of the BaseDeck with the purlin material or other structural elements that it may be installed over. Please contact RoofLogic if it is necessary to confirm material compatibility and / or refer to material compatibility matrix in NZ Metal Roofing code of practice.

RL BaseDeck exposed with Skylights

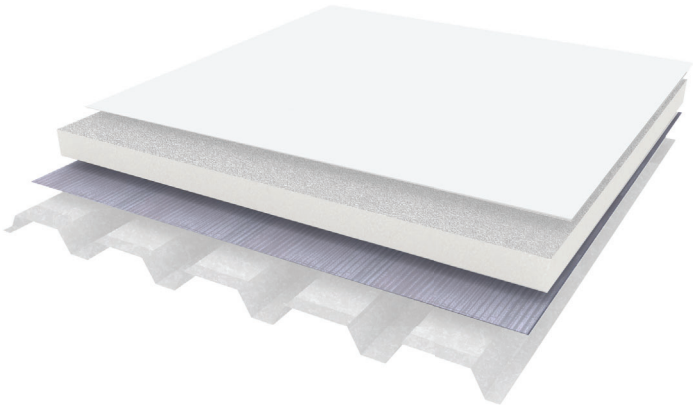
ROOFLOGIC

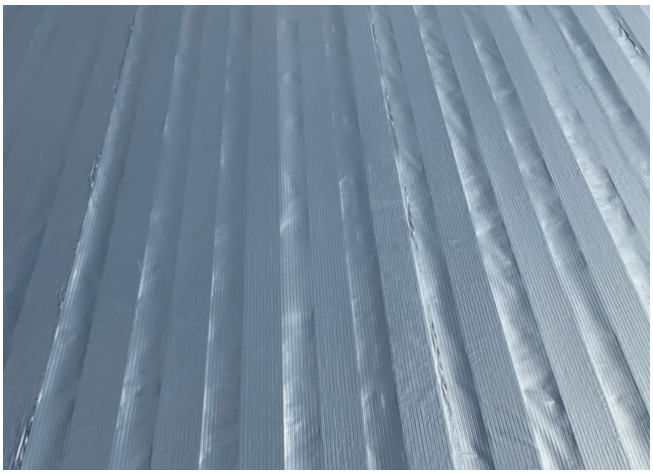
TECHNICAL DATASHEET

RL VAPOUR CONTROL LAYER (VCL)

For RL Ultratherm Xtreme systems

RL Vapour Control Layer is a self-adhesive SBS modified vapour control layer for use in RoofLogic roofing systems.





Vapour Control Layer over RL LinerDeck

DESCRIPTION

RL Vapour Control Layer (VCL) is a self-adhesive SBS (Styrene, Butadiene, Styrene) modified vapour control layer, 0.5 mm thick. It prevents moisture-laden air and water vapour from infiltrating the structural elements and insulation, where it can cause condensation and potential damage.

The RL Vapour Control Layer (VCL) is a critical component installed on the warm side of a building's insulation. By regulating vapour flow, the VCL maintains stable indoor conditions, mitigates condensation and prevents mould growth.

Additionally, the RL Vapour Control Layer offers temporary on-site protection for up to three months.

BENEFITS

- Efficient application due to cold self-adhesion.
- The robust connections at side and end laps ensure heightened weather resistance and superior vapour control.
- RL Vapour Control Layer can be used in both new and renovation projects.
- It can be applied to various substrates, including steel LinerDeck, steel base deck, plywood/timber, and concrete. Consult RoofLogic for guidance on other substrates.

MATERIAL AND FINISH

Comprised of a top layer of special foil with integrated web reinforcement, a coating of elastomeric bitumen, and a bottom layer of self-adhesive elastomeric bitumen and detachable foil.

RL Vapour Control Layer is manufactured to the highest quality according to DIN EN 13707 (*Flexible sheets for waterproofing*) with all technical values in exceedance of

TECHNICAL DATA

Characteristics	Test Method	Performance
Protection of the top side	-	Aluminium foil
Protection of the bottom side	-	self-adhesive binder / anti-adhesion film
Length, m	EN 1848-1	≥ 50.0m
Width, m	EN 1848-1	≥ 1.08m
Straightness	EN 1848-1	≤ 10 mm / 5 m
Mass per unit area, kg/m²	EN 1849-1	0.5kg/m^2 ± 0.1
Thickness, mm	EN 1849-1	0.5 mm
Type of carrier	-	glass net
Tensile properties: maximum tensile force L / T*, N/50 mm	EN 12311-1	600±120 / 600±120
Tensile properties: elongation L / T*, %	ASTM D5147	≥ 2.0 / ≥ 2.0
Determination of shear resistance of joints, kN/m	EN 12317-1	≥ 1.5kN/m
Peel resistance of joints: overlap to aluminium foil, N/50 mm	EN 12316-1	≥ 50
Water vapour transmission (Sd), m	EN 1931	≥ 1225
Dangerous substances	Does not contain dangerous substances	

** L / T – Longitudinal / Transverse*

INSTALLATION

- Install RL Vapour Control Layer directly over RL BaseDeck or other approved substrate.
- Ensure substrate is dust and residue free. Do not install the RL Vapour Control Layer during rain or while the BaseDeck has any moisture present on the top flange or in the trough.
- The steel base (BaseDeck) does not require priming for mechanically fixed systems. Concrete substrates can be lightly primed with RL 320 to improve adhesion. Plywood substrates can also be primed where required to seal the substrate and improve adhesion of the vapour control layer.
- The RL Vapour Control Layer should be installed in the same orientation as the BaseDeck, with laps falling on the flange to ensure a proper seal.
- Install RL Vapour Control Layer with 100 mm side laps and minimum 100 mm end laps.

Efficient application is feasible thanks to the cold self-adhesion property. It is possible to fully cover the substrate with the RL Vapour Control Layer without the need for a gas flame.

In cold conditions, RL Vapour Control Layer can be installed with assistance of an added heat source (hot air/light gas torch.). This can be used to heat the substrate and heat the overlap joint. Only use light heat and do not melt the bitumen adhesive.

STORAGE

RL Vapour Control Layer should be stored vertically and protected from moisture, UV light and heat. In winter care should be taken not to expose the rolls to frost on site prior to application.

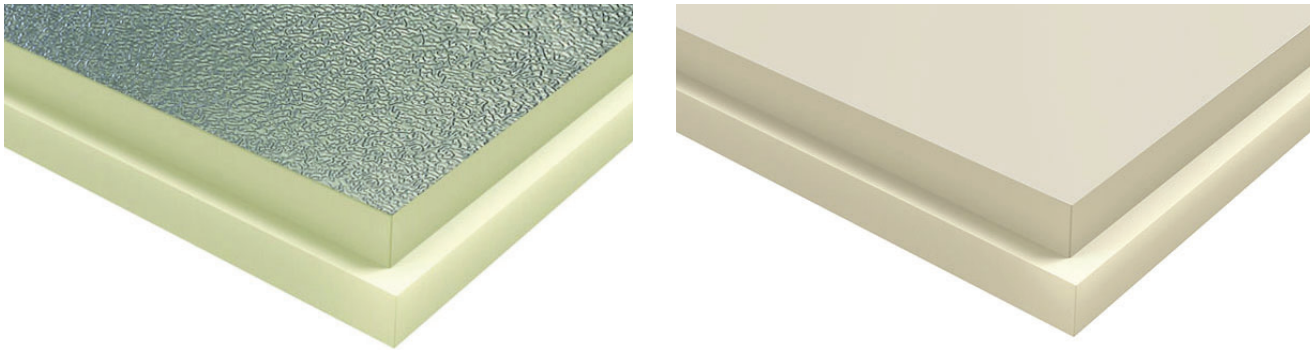
ROOFLOGIC

TECHNICAL DATASHEET

RL PIR BOARD

For Ultratherm Xtreme Systems

RL PIR Board is a Polyisocyanurate (PIR) rigid foam panel.



PIR Board with Foil Facer and Coated Fibreglass Facer

DESCRIPTION

RL PIR Board is a Polyisocyanurate (PIR) closed-cell foam panel. It creates the rigid insulation layer providing high thermal performance in RoofLogic Ultratherm Xtreme membrane systems.

RL PIR Board provides excellent thermal and fire performance and has high compressive strength for a rigid thermoset insulation board.

BENEFITS

- Lightweight panels with excellent rigidity and dimensional stability
- Excellent fire performance. RL PIR Board satisfies the requirements of AS 1366.2-1992: Combustibility of foamed plastics. When incorporated within a properly designed RoofLogic system a Group 1S rating is achieved with the RL PIR insulation core (AS ISO 9705-2003; ISO 9705:1993)
- Closed cell foam: Practically no absorption of water due to capillary action. The PIR must remain dry during both site storage and installation; cover with membrane on the same day it is installed.
- High compressive strength
- High thermal value relative to thickness. Boards can be supplied with L-Shape or tongue and groove edge to further reduce thermal bridging.
- Easy to manipulate and cut during installation
- CFC/HCFC free with zero ozone depletion potential (ODP)
- Two facer options dependent on specific system and application
- Rot-proof
- Contains zero Volatile Organic Compounds (VOCs)

MATERIAL AND FINISH

Available in RL PIR (FF) faced on both sides with a multi-layered aluminium lining or RL PIR (CF) both sides with coated fiberglass facer that membrane can be directly adhered to.

RL PIR board is supplied in thicknesses from 40 mm - 160 mm and a range of corresponding R-Values. They are produced as 1195 x 2285 mm boards.

THERMAL PROPERTIES-(R-VALUE)

PIR Thickness	40 mm	50 mm	60 mm	80 mm	100 mm	120 mm	140 mm	150 mm	160 mm
Thermal (FF- Foil Facer)	R 1.8	R 2.3	R 2.7	R 3.6	R 4.5	R 5.5	R 6.4	R 6.8	R 7.3
Thermal (CF-Coated Facer)	R 1.5	R 1.9	R 2.2	R 3.2	R 4	R 4.8	R 5.6	R 6	R 6.4

Contact RoofLogic for project specific thermal calculations in relation to specific assemblies. System R-values can differ from the R-value of the PIR insulation alone. When ceiling tiles or internal insulation are suspended below a warm roof system, the R-Value of this can be added to the R-Value of the roof system to achieve thermal performance.

INSTALLATION LIMITATIONS

When high R-Value ceiling assemblies or internal thermal/ acoustic insulation is incorporated in the design it is important to model the roof/ceiling system to ensure that condensation risk is managed.

TECHNICAL PROPERTIES

Properties	Class acc. EN 13165	Standard	Unit	Specified Values
Declared thermal conductivity coefficient	λD, 10°C	EN 12667	W/m·K	0.022 (aluminium facer) 0.027 (coated glass facer)< 80 mm 0.025 (coated glass facer)> 80 mm
Compressive strength mm 25-49	CS(10/Y)175	EN 826	kPa	≥175kPa
Compressive strength mm 50-160	CS(10/Y)200	EN 826	kPa	≥200kPa
Dimensional stability 48h, 70°C, 90 %hr	DS(70,90)3	EN 1604	%	Δ εl, Δεb ≤2 $\Delta\varepsilon_d \leq 6$
Water absorption	WL(T)1	EN 12087	%	≤1
Thickness	-	EN 823	mm	30-150
Reaction to fire of the product[1]	-	EN 13501-1	-	Euroclass F (FF) Euroclass F (CF)
		AS 1366.2-1992		PASS
Reaction to fire of the product in end use (RL PIR Board over steel decking.)	-	AS ISO 9705-2003[1] ISO 9705 -1993[2]	-	Group 1-S Classificaton

[1] AS ISO 9705-2003. Group Number Classification and SMORGA

[2] ISO 9705 -1993. Group Number Classification and Smoke Production Rate

INSTALLATION

- RL PIR Board can be either mechanically attached to the substrate or adhesive bonded (refer to project structural design).
- Wherever possible run RL PIR Board at right angles across the profile of the BaseDeck.
- Butt ends and edges tightly together.

Keep RL PIR Board dry before, and during installation. RL PIR Board should not be installed during rain, heavy fog and any other conditions that deposit moisture on the surface of the board. Apply only as much RL PIR Board that can be covered by roof membrane system in the same day.

INSTALLATION LIMITATIONS

RL PIR Boards are engineered to perform within a properly designed roof system.

When applying solvent-based adhesives or primers, allow sufficient time for the solvent to evapourate to avoid damage to roofing components.

STORAGE

RL PIR Boards are supplied in polythene packs which are designed for short term protection. For longer term protection on site, product should be stored indoors, or under cover off the ground. Boards should not be left permanently exposed to the elements.

ROOFLOGIC

TECHNICAL DATASHEET

RL STONEWOOL

For Ultratherm Xtreme Roof Systems

RL Stonewool is a high density insulation slab that can be used in RoofLogic membrane roof systems.

RL Stonewool

DESCRIPTION

RL Stonewool is manufactured from a volcanic rock, to which selected recycled materials are added. The material is melted and spun into wool, which is then bonded using a small amount of binder.

Because RL Stonewool's insulating qualities rely purely on entrapped air, not environmentally harmful blowing agents, It does not contain gases with harmful ozone depleting or global warming potential. Furthermore its thermal performance remains constant, without altering or subsiding over time. Being made from rock, RL Stonewool products are dimensionally stable under a wide range of temperatures, RL Stonewool is non-combustible with melting point in excess of 1000°C.

RL Stonewool is compatible with most materials used in commercial and industrial building applications.

BENEFITS

- In Ultratherm Xtreme roof systems, RL Stonewool enhances acoustic performance (100 mm Stonewool in Ultratherm MSR system has a STC/Rw of 32)
- Classified as Euroclass A1, RL Stonewool slabs are non-combustible.
- RL Stonewool slabs are odourless, rot-proof, and resistant to vermin, mould, and bacteria.
- RL Stonewool slabs are non-wicking when tested to BC 2972:1989 Section 12. When exposed to 90% relative humidity at 200°C, RL Stonewool will absorb less than 0.004% moisture.
- The vapour resistivity of RL Stonewool is negligible and usually considered to be the same as that of air (typically 5.9 MNs/gm). RL Stonewool products can therefore be used to reduce the risk of condensation and allow natural drying out of the construction due to their ability to 'breathe'.
- RL Stonewool presents no known threat to the environment
- RL Stonewool is compatible with most materials used in commercial and industrial building applications.

MATERIAL AND FINISH

RL Stonewool is offered in various densities to match the required compressive strength for different applications. Min 50 kPa is required under membrane applications on Ultratherm Xtreme roofs.

The densities vary between 110 - 180 kg/m³ depending on product thickness . Contact RoofLogic for specific densities and weights.

Various panel sizes are available.

THERMAL PROPERTIES

Thickness (mm)	50	60	70	80	90	100	120	140	160	180	200
R-Value- 50 kPa	R 1.4	R 1.6	R 1.9	R 2.2	R 2.4	R 2.7	R 3.2	R 3.8	R 4.3	R 4.9	R 5.4
Climate Zone								Zone 1	Zone 2	Zone 2	Zone 4

For Thermal Performance to meet Climate Zones 4, 5 & 6 requirements, please contact RoofLogic for options.

TECHNICAL PROPERTIES

Property	**50kPa**
Compression strength at 10% deformation, kPa, not less than	50 kPa
Point load, N,	800N
Flammability grade	Non-flammable
Reaction to fire	Euroclass A1 EN 13501-1
λ at 10°C,	0.037 W/mK
Vapour permeability, μ,	>1
Humidity by weight, %, no more than	0.5%
Water absorption by volume, %, no more than	1.5%
Content of organic substances, %, no more than	4.5%
Density	110-180 kg/m^3
	Density is correlated with compressive strength and is dependent on the thickness of the product
Length	1200 mm
Width	600 mm
Thickness (with increments of 10 mm),	40 - 200 mm

INSTALLATION

RL Stonewool slabs are easy to handle, install and cut to size. RL Stonewool slabs are supplied in polythene packs which are designed for short term protection only. For longer term protection on site, product should be stored indoors, or under cover off the ground.

The RL Stonewool must remain dry during both site storage and installation. Install only as much RL Stonewool that can be covered by final roof system in the same day.

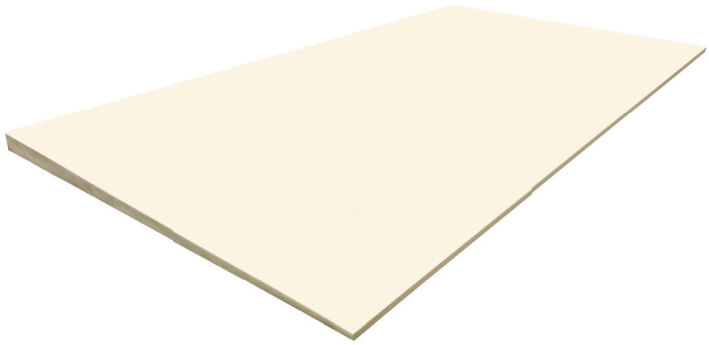
ROOFLOGIC

TECHNICAL DATASHEET

RL PIR - TAPERED

Creates falls for Ultratherm Xtreme Roofs

Rigid insulation layer to create falls , providing high thermal performance in RoofLogic Ultratherm Xtreme systems.



RL Tapered PIR Board

DESCRIPTION

RL PIR Board - Tapered is a Polyisocyanurate (PIR) rigid foam panel for direct bonded membrane applications.

RL Tapered PIR is used for the insulation of flat roofs for new construction, it provides a perfect 1:60 (1 degree) or 1:30 (2 degree) fall to gutters on flat roofs. It can be installed over timber, concrete or steel deck substrates.

On Recover projects, it allows for a roof to be repitched. Building a fall with RL PIR -Tapered is more effective that using other methods, which can add considerable weight, cost and time.

RoofLogic will assist with the specific design and layout of the Tapered PIR boards to achieve required falls and insulation values.

BENEFITS

- Superior thermal insulation
- High compressive strength
- Lightweight, rigid, and dimensionally stable panels
- Practically no water absorption; closed cell foam structure prevents capillary action. (PIR - Tapered must be covered by membrane the same day it is installed)
- Rot proof
- Excellent fire performance. Satisfies AS 1366.2-1992: Combustibility of foamed plastics. Group 1S rating with RL PIR insulation core (AS ISO 9705-2003; ISO 9705:1993)
- Efficient drainage
- Cost-effective in the long run
- Zero ozone depletion potential (ODP)
- Suitable for new construction and recovery projects

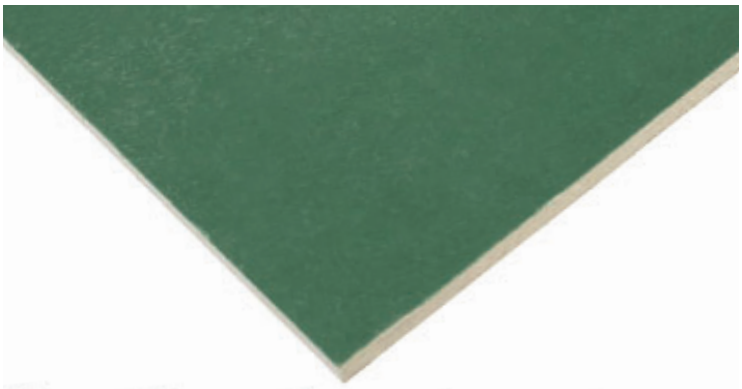
MATERIAL AND FINISH

RL Tapered PIR Board is a Polyisocyanurate (PIR) rigid foam panel faced on both sides with a coated glass facer (CF). Tapered PIR Boards are 30mm thick at their thinnest point and are manufactured in-house to custom design layouts. They are available with a 1:60 and 1:30 slope.

RL ROOF BOARD HDP

For Ultratherm Xtreme Membrane Systems

RL Roof Board HDP is typically used as a cover board over insulation.



RL Roof Board HDP

DESCRIPTION

RL Roof Board HDP is a high performance roof board for use in membrane roofing systems. It is suitable for various commercial roof systems and offers enhanced acoustic attenuation, along with excellent fire resistance, moisture resistance, trafficability, and wind uplift resistance.

RL Roof Board HDP is typically used as a cover board over insulation in fully adhered single ply thermoplastic and two layer modified bitumen membrane applications. It is compatible with water-borne, polyurethane and solvent based bonding adhesives.

RL Roof Board HDP provides high compressive strength, low moisture absorption and mould resistance.

RL Roof Board HDP is designed for exterior application and complies with the requirements of ASTM C1177 (*Standard Specification for Glass Mat Gypsum Substrate for Use as Sheathing*).

BENEFITS

- Membrane systems: Suitable for a range of membranes including single ply and modified bitumen. Refer to project specification, technical data sheets or contact RoofLogic for advice.
- Acoustic attenuation: Provides significant acoustic improvement in respect to STC rating and rain noise attenuation. Standard 12.5 mm RL Roof Board HDP will achieve STC 38 when incorporated within a standard RoofLogic Ultratherm system.
- Trafficability: Improves resistance to foot traffic and hail damage
- Moisture: Uniform water- resistant core ensures excellent moisture resistance. Maximum water absorption 3%.
- Fire performance: a non-combustible core when tested in accordance with AS/NZS1530.1.

MATERIAL AND FINISH

RL Roof Board HDP is a high-density board with a treated gypsum core combined with a high-density fiberglass facer to the face and the back offering exceptional water resistance.

RL Roof Board HDP standard thickness is 12.5 mm. Other thicknesses available on request (MOQ applies).

TECHNICAL PROPERTIES

Board Thickness	12.5 mm
Width, standard	1200 mm
Length, standard	2200 mm
Pieces per pallet for 1200 x 2200 sheets	35
Weight, nominal	11 kg/m^2
Average Hardness (Core)	307N
Average Nail Pull Resistance	507N
Average Flexural Strength; Bearing Edges Parallel, Face Up	418N
Permeance	0.59MNs-g
Water Absorption, %max, (per ASTM C473)	3%
Combustibility (per AS/NZS1530.1)	Non-combustible
Fire Performance (per AS/NZS1530.3)	Ignitability: 0, Spread of Flame: 0, Heat Evolved: 0, Smoke Developed: 3

INSTALLATION

- RL Roof Board HDP can be either mechanically attached to the substrate or adhesive bonded (refer to project structural design).
- Wherever possible run Roof Board HDP at right angles across the profile of the LinerDeck.
- Butt ends and edges tightly together.
- Quick score and snap, with no sawing or special tools required.

Keep RL Roof Board HDP panels dry before, and during installation. RL Roof Board HDP should not be installed during rain, heavy fog and any other conditions that deposit moisture on the surface of the board. Apply only as much RL Roof Board HDP that can be covered by roof membrane system in the same day. When re-roofing, ensure that the existing assembly is dry prior to installation of RL Roof Board HDP and other new components.

RL Roof Board HDP should be stored flat and off the ground with protection from the weather. If stored outdoors, a waterproof covering should be used.

INSTALLATION LIMITATIONS

RL Roof Board HDP is engineered to perform within a properly designed roof system.

When applying solvent-based adhesives or primers, allow sufficient time for the solvent to evapourate to avoid damage to roofing components.

ROOFLOGIC

TECHNICAL DATASHEET

RL ROOF BOARD LW

For Ultratherm Xtreme Membrane Systems

A lightweight Polyisocyanurate rigid foam panel.

RL Roof Board LW with Coated Glass Facer for membrane applications.

DESCRIPTION

RL Roof Board LW is a lightweight and versatile Polyisocyanurate (PIR) rigid foam panel with a coated glass facer on both sides, making it ideal for direct bonded membrane roofing applications. It is well-suited for Recover projects where minimal additional weight is recommended on the existing structure.

RL Roof Board LW has high compressive strength, excellent fire performance, minimal water absorption, and resistance to rot. Environmentally friendly and easy to cut and install, the board contributes minimal weight to existing roof systems and is available in a standard thickness of 10 mm.

BENEFITS

- RL Roof Board LW has higher compressive strength than typical rigid thermoset insulation boards.
- Meets AS1366 fire performance requirements for foamed plastics.
- Achieves Group 1S fire rating in a RoofLogic system (ASISO9705-2003; ISO9705:1993).
- Minimal water absorption for long-term durability and moisture protection.
- Easy to cut and install.
- Resistant to capillary water uptake and rot-proof.
- CFC/HCFC-free composition and zero ozone depletion potential (ODP), RL Roof Board LW is environmentally friendly.

MATERIAL AND FINISH

RL Roof Board LW IS A Polyisocyanurate rigid foam panel. It features a coated glass facer on both sides of the board.

TECHNICAL DATA

	Standard	Unit	Specified Values
Thickness		mm	10
Compressive strength at 10% deformation	EN 826	kPa	≥500
Tensile strength perpendicular to faces	EN 1607	kPa	≥300
Dimensional stability 48h, 70°C, 90 %HR	EN 1604	%	Δl, Δb. ≤1 Δd ≤4
Water absorption	EN 12087	%	≤ 3
Reaction to fire. Euroclass	EN 13501-1	-	E
Thermal Resistance		R	R 0.65
Weight		kg/m²	1.18

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RL POLYSTYRENE

For Ultratherm Xtreme and Recover Roof Systems

Expanded Polystyrene (EPS) slabs

Tapered Polystyrene

DESCRIPTION

RL Polystyrene is a lightweight, durable insulation material made from expanded polystyrene (EPS) beads fused into rigid panels, providing thermal resistance and enhancing energy efficiency in buildings.

Polystyrene has two main applications within the Ultratherm Xtreme roof systems: Tapered Polystyrene and trough fillers.

RL Tapered Polystyrene slabs provide a trafficable solution to create slope and redirect water on flat roofs, guiding water to drainage points.

Trough fillers are used in the RoofLogic Recover system, where a new roof is installed over an existing metal roof. The polystyrene is factory cut into fillets to fit the existing roof profile, ensuring proper alignment and support for the new Recover roofing system.

BENEFITS

- Affordable solution with excellent performance
- Provides thermal resistance, reducing heat transfer and improving energy efficiency.
- Lightweight, easy to handle and install, minimising roof structure load.
- Rigid composition ensures durability and long-lasting performance.
- Closed-cell structure prevents moisture absorption, maintaining thermal properties.
- Retains shape and dimensions over time for consistent insulation.
- Custom manufacture available. RL Polystyrene can be cut and shaped to fit various roof designs.

MATERIAL AND FINISH

RL Polystyrene is made from expanded polystyrene (EPS) beads fused into rigid panels,

THERMAL PROPERTIES-(R-VALUE) ACCORDING TO ASTM C518-04

Thickness (mm)	40	50	60	80	100	120	150	200
RL Polystyrene	R 1.1	R 1.4	R 1.7	R 2.2	R 2.8	R 3.3	R 4.7	R 6.3

Note: System R-values will often be different to the stated R-Value of the polystyrene only. Contact RoofLogic for project specific thermal calculations in relation to specific assemblies.

TECHNICAL PROPERTIES

Properties	Standard	Unit	Values
Density		kg/m^3	24
Compressive Resistance	AS 2498.3	kPa at 1%	64
Compressive Resistance	AS 2498.3	kPa at 2%	108
Compressive Resistance	AS 2498.3	kPa at 5%	133
Compressive Resistance	AS 2498.3	kPa at 10%	146
Youngs Modulus		MPa	6.2
Cross Breaking strength	AS 2498.4	kPa	260
Determination of flame propogation surface ignition • Medium flare duration • Eighth value	AS 2122.1:1993	sec	2 3
Fire behaviour - • Spread of Flame Index • Smoke Developed Index	AS/NZS 1530.3: 1999	(0-10)	0 5
Rate of water vapour transmission (max) measured parallel to rise at 23°C	AS 2498.5	mg/m^2s	460
Long term water absorption by immersion	ASTM C272	% v/v	-

RoofLogic offers custom tapered designs tailored to meet specific fall requirements. Contact RoofLogic to discuss specific project requirements and receive a customised tapered design. Must be used with RL Roof Board or PIR Board.

STORAGE

RL Polystyrene should be stored covered and off the ground to ensure it is not exposed to moisture. For longer term storage, the product should be kept inside and undercover.

ROOFLOGIC

TECHNICAL DATASHEET

RL FIBERTITE MEMBRANE-FB

For Ultratherm Xtreme FiberTite Membrane System

FiberTite Membranes are the result of Seaman Corporation's 75 years of applied fabric engineering and coating technology.

RL FiberTite Membrane - FB installed at
Tākina Wellington Convention & Exhibition Centre

DESCRIPTION

The FiberTite Membrane is the result of Seaman Corporation's 75 years of applied fabric engineering and coating technology.

Seaman Corporation has complete control over the manufacturing process, from yarn selection to engineering, knitting, weaving, and final coating, Seaman Corporation brings you the culmination of 75 years of fabric engineering and coating technology.

Each FiberTite Roofing Membrane is crafted using high tenacity/heavy weight yarns, creating a robust base fabric reinforcement that imparts outstanding properties, including superior puncture, tensile, and tear resistance. The base polyester fabrics are primed with a unique adhesive coat, forming a strong bond that maximises seam strength and overall membrane performance.

FiberTite's formulation offers unparalleled benefits, such as superior hot air welding characteristics, extreme UV resistance, broad chemical resistance, and long-term flexibility and separability for the installed roofing membrane system.

Field seaming of the membrane is achieved by fusing the thermoplastic membrane using conventional hot air welding equipment, ensuring secure and reliable connections.

Available in 1.82 metre by 24.40 metre roll dimensions.

ADVANTAGES

The FiberTite FB membrane features a weft-reinforced polyester knit fabric with an 18 x 19 / 840 x 1,000 denier,. It is coated with a proprietary compound that utilises DuPont™ Elvaloy® Ketone Ethylene Ester (KEE) as the primary polymer in its hybrid alloy coating, ensuring enhanced flexibility, chemical resistance, and long-term performance.

The FiberTite FB membrane incorporates 120gm/m^2 non-woven polyester felt, heat bonded to the back side of the membrane with a 75 mm selvedge edge for field welding.

FiberTite FB exceeds the minimum physical property requirements enumerated in ASTM D6754-02 Standard Specification for Ketone Ethylene Ester (KEE) Based Sheet Roofing. It exceeds the physical properties and performance characteristics of all competitor products at 1.5 mm thickness.

FiberTite FB is manufactured in conventional 1.82 metre by 24.40 metre roll dimensions.

RoofLogic Fleece-Backed Membrane installed over Nelson Airport.

Adhesive Compatibility			
Substrate	Primer	Adhesive	Coverage
Plywood	Primer or two coat application	400u 490u 490e 220(double side)	160m^2 40m^2 60m^2 80m^2
Concrete			
RL Roof-board HDP/LW	N/A		
RL PIR CF			

(refer to adhesive data sheets for substrate options/conditions, coverage rates, environmental conditions)

For specific installation recommendations and requirements, refer to RoofLogic specifications. For project specifications and technical assistance please contact RoofLogic.

Slate Grey CR Grey

PHYSICAL PROPERTIES

ASTM D6754-02	Minimum Requirements	fibertite FB Typical
Thickness, mm ASTM D 751	0.79	0.91
Thickness over Fiber, mm Optical method	0.18	0.23
Breaking Strength, N ASTM D 751 proc. B – strip	1499	1557
Elongation at Break, % ASTM D 751 – strip	18	18
Tear Strength, N ASTM D 751 Proc. B. Tongue Tear	338	445
Linear Dimensional Change ASTM D 1204 max (%)	1.3	0.63
Fabric Adhesion, N/m ASTM D 751	225	No Peel
Retention of Properties after Heat Aging ASTM D 3045 – 80oC/56 days Breaking Strength, strip, % original Elongation at Break, strip, % original	 90 90	 90 90
Low Temperature Bend after Heat Aging	-30	-30
Low Temperature Bend ASTM D 2136 (oC)	-30	-30
Change in Weight after Exposure to Water D 471 70oC, 166 h, one side only, max (%)	0.0,+6.0	0.0,+3.7
Factory Seam Strength, N ASTM D 751 Gram Method	1955	> Fabric Break
Hydrostatic Resistance, Mpa ASTM D 751	4.1	4.8
Static Puncture Resistance ASTM D 5602	pass	pass
Dynamic Puncture Resistance (J) ASTM D 5635	10	20
Accelerated Weathering Practice G 155 / xenon	5000hr	>10000hr
Cracking (7x magnification)	none	none
Crazing (7x magnification)	none	none
Accelerated Weathering Practice 154 / UVA	5000hr	>10000hr
Cracking (7x magnification)	none	none
Crazing (7x magnification)	none	none
Fungi Resistance Practice G 2, 28 days Sustained Growth Discolouration	 no growth none	 no growth none
Abrasion Test, cycles D 3389 H-18 wheel / 1000 g load	1500	1500+

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PHYSICAL PROPERTIES

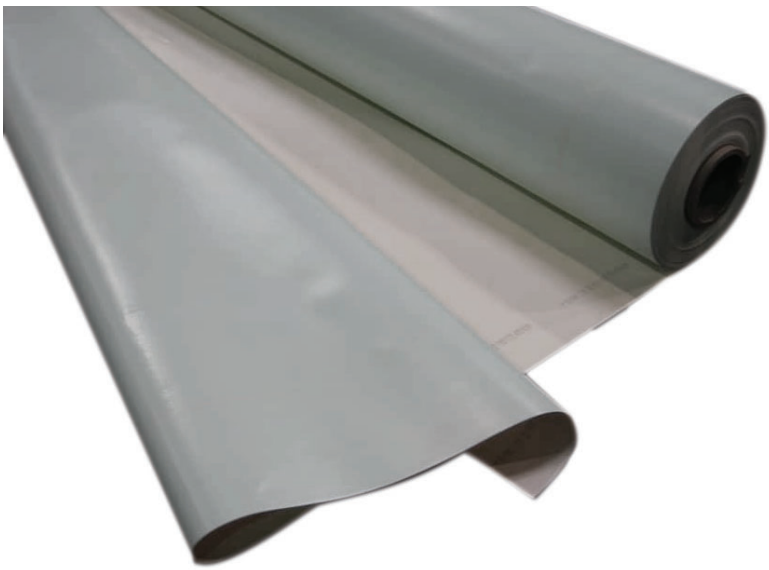
Additional Physical Properties	
Tensile Strength ASTM D882	586 Bar
Breaking Strength ASTM D751, Grab Method	2000N
Puncture Resistance ASTM D751, Bursting Strength	1550N
Water Vapour Transmission ASTM E96 proc. A (gm/m2/24hrs)	1.3
Shore A Hardness ASTM D2240	87
Flame Resistance MIL-C-20696C / Type II Class 2	pass
Test for Flammability of Materials AS1530.2-1993	Flammability Index 1
Oil Resistance, MIL-C-20696C No swelling, cracking or leaking	none
Hydrocarbon Resistance, MIL-C-20696C No swelling, cracking or leaking	none
High Temperature Dead Load ASTM D 751 (23kg/70oC/4hrs)	pass

Energy Attributes	
Initial Solar Reflectance ASTM C1549	0.69
Solar Reflectance (3 yr aged) ASTM C1549	.61
Initial Thermal Emittance ASTM C1371	0.89
Thermal Emittance (3 yr aged) ASTM C1371	.89
Solar Reflective Index (SRI) ASTM E1980	84
Solar Reflective Index (SRI) (3 yr aged) ASTM E1980	73
Energy Star	YES
LEED v4 - Heat Island Reduction SS Credit	1 Credit

RL FIBERTITE MEMBRANE-SM

For Ultratherm Xtreme FiberTite Membrane System

Use the FiberTite -SM Membrane on up-stands and around corners.



FiberTite Membrane SM

DESCRIPTION

The FiberTite Membrane is the result of Seaman Corporation's 75 years of applied fabric engineering and coating technology.

Each FiberTite Roofing Membrane is crafted using high tenacity/heavy weight yarns, creating a robust base fabric reinforcement that imparts outstanding properties, including superior puncture, tensile, and tear resistance. The base polyester fabrics are primed with a unique adhesive coat, forming a strong bond that maximises seam strength and overall membrane performance.

FiberTite SM features Seaman Corporation's original "KEE" formulation, coating the face of the membrane. This special formulation offers unparalleled benefits, such as superior hot air welding characteristics, extreme UV resistance, broad chemical resistance, and long-term flexibility and separability for the installed roofing membrane system.

Field seaming of the membrane is achieved by fusing the thermoplastic membrane using conventional hot air welding equipment, ensuring secure and reliable connections.

Available in 1.88m x 30.48m rolls.

COMPOSITION

FiberTite SM features an 18 x 19 / 840 x 1,000 denier weft reinforced polyester knit fabric, coated with a proprietary compound, utilising DuPont's TM Elvaloy® Ketone Ethylene Ester (KEE) as the principle polymer in the hybrid alloy coating.

FiberTite SM not only meets or exceeds the minimum physical property requirements enumerated in ASTM D6754-02 Standard Specification for Ketone Ethylene Ester (KEE) Based Sheet Roofing, it also exceeds the physical properties and performance characteristics of all 1.5 mm thick competitive products.

Seaman Corporation is vertically integrated, which allows complete control over the manufacturing process from the selection of the yarns, to the engineering, knitting and weaving of the base fabrics to the final coating process. Today, FiberTite Roofing Membranes are the result of Seaman Corporation's 75 years of applied fabric engineering and coating technology.

APPLICATION

FiberTite SM should be used for detailing timber plinths, internal sumps, and circle patches.

FiberTite SM membranes can be fully adhered or mechanically attached. FiberTite SM is adhered using RL Adhesive on properly prepared, load bearing substrates that provide sufficient wind uplift for the building type and location.

Refer to RoofLogic specifications for correct installation processes and contact RoofLogic for technical assistance.

FiberTite SM membranes can also be mechanically attached utilising a range of mechanical fixing components supplied by RoofLogic. Contact RoofLogic for specific fixing plans to ensure that the fixing design and substrate will achieve the required wind uplift resistance.

RoofLogic FiberTite SM being adhered to plywood canopy.

Adhesive Compatibility			
Substrate	Primer	Adhesive	Coverage
Plywood	190e Primer/or two coat application	220/190 KEE	220 (50m²) 190KEE (25m²)
Concrete			
RL Roof-board HDP/LW	N/A		
RL PIR CF			

Slate Grey CR Grey

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PHYSICAL PROPERTIES

ASTM D6754-02	Minimum Requirements	FiberTite SM Typical
Thickness, mm ASTM D 751	0.79	0.91
Thickness over Fiber, mm Optical method	0.18	0.23
Breaking Strength, N ASTM D 751 proc. B – strip	1499	1557
Elongation at Break, % ASTM D 751 – strip	15	18
Tear Strength, N ASTM D 751 Proc. B. Tongue Tear	338	445
Linear Dimensional Change ASTM D 1204 max (%)	1.3	0.63
Fabric Adhesion, N/m ASTM D 751	3330	no peel
Retention of Properties after Heat Aging ASTM D 3045 – 80oC/56 days Breaking Strength, strip, % original Elongation at Break, strip, % original	 90 90	 90 90
Low Temperature Bend after Heat Aging	-30	-30
Low Temperature Bend ASTM D 2136 (°)	-30	-30
Change in Weight after Exposure to Water D 471 70oC, 166 h, one side only, max (%)	0.0,+6.0	0.0, +3.7
Factory Seam Strength, N ASTM D 751 Gram Method	1955	>Fabric Break
Hydrostatic Resistance, MPa ASTM D 751	4.1	4.8
Static Puncture Resistance ASTM D 5602	pass	pass
Dynamic Puncture Resistance (J) ASTM D 5635	10	20
Accelerated Weathering Practice G 155 / xenon	5000 hr	>10000 hr
Cracking (7x magnification)	none	none
Crazing (7x magnification)	none	none

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PHYSICAL PROPERTIES

ASTM D6754-02	Minimum Requirements	FiberTite SM Typical
Accelerated Weathering Practice 154 / UVA	5000 hr	>10000 hr
Cracking (7x magnification)	none	none
Crazing (7x magnification)	none	none
Fungi Resistance Practice G 2, 28 days Sustained Growth Discolouration	no growth none	no growth none
Abrasion Test, cycles D 3389 H-18 wheel / 1000 g load	1,500	2,000+

Additional Physical Properties	
Tensile Strength ASTM D882 (psi)	8500
Breaking Strength ASTM D751, Grab Method	2000 N
Puncture Resistance ASTM D751, Bursting Strength	1550 N
Water Vapour Transmission ASTM E96 proc. A (gm/m2/24hrs)	1.3
Shore A Hardness ASTM D2240	87
Test for Flammability of Materials AS1530.2-1993	Flammability Index 1
Flame Resistance MIL-C-20696C / Type II Class 2	pass
Oil Resistance, MIL-C-20696C No swelling, cracking or leaking	none
Hydrocarbon Resistance, MIL-C-20696C No swelling, cracking or leaking	none
High Temperature Dead Load ASTM D 751 (23kg/70oC/4hrs)	pass

Energy Attributes	
Initial Solar Reflectance ASTM C1549	0.69
Solar Reflectance (3 yr aged) ASTM C1549	.61
Initial Thermal Emittance ASTM C1371	0.89
Thermal Emittance (3 yr aged) ASTM C1371	.89
Solar Reflective Index (SRI) ASTM E1980	84
Solar Reflective Index (SRI) (3 yr aged) ASTM E1980	73
Energy Star	YES
LEED v4 - Heat Island Reduction SS Credit	1 Credit

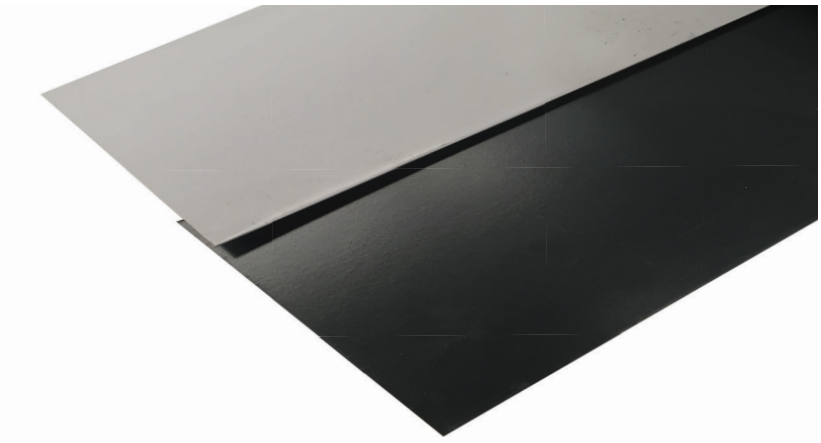
ROOFLOGIC

TECHNICAL DATASHEET

RL FIBERCLAD

For Ultratherm Xtreme FiberTite Membrane Systems

RL FiberClad is a sheet metal flashing with a Polymeric coating.



FiberClad

DESCRIPTION

FiberClad is a sheet metal flashing that is compatible with all FiberTite Roofing Systems and can be heat welded. It features a polymeric coating that serves multiple purposes in conjunction with the membrane roofing system.

The polymeric coating extends the seamless nature of the roofing membrane to the metal flashing profiles. Additionally, the coating provides a hot air weldable surface on the metal flashing, allowing for secure and reliable connections.

The polymeric coating serves as a protective layer for the underlying steel or aluminum sheet metal, safeguarding it against environmental elements and enhancing its durability and contributes to the overall aesthetic appeal of the finished roof system.

FiberClad is available in sheet form, measuring 3m x 1.2 m, or it can be customised into various standard or bespoke flashings by RoofLogic, providing flexibility to meet specific project requirements.

FiberClad is constructed using aluminum as standard, also available with G-90 steel as the base metal.

APPLICATION

FiberClad metal flashing profiles are fastened according to project requirements and RoofLogic Guide Specifications. They are sealed by hot air welding FiberTite membrane to both the metal profile and the membrane roof system/ flashings.

PROPERTIES

1 mm 3003H14 Aluminium	
Film Thickness	0.50 mm polymer
Sheet Dimensions	1.2 m x 3.0 m
Colours	CR Gray, Slate Gray

24 ga. Hot dipped G-90 Steel	
Film Thickness	0.50 mm polymer
Sheet Dimensions	1.2 m x 3.0 m
Colours	CR Gray, Slate Gray

ARMAC 190KEE

For Ultratherm Xtreme FiberTite Membrane (KEE) and Ultraflex TPO Systems

Armac 190KEE is an adhesive with exceptional bonding strength and flexibility, along with high heat resistance.

Armac 190 KEE Adhesive

DESCRIPTION

Armac 190KEE is a high-performance contact adhesive specifically designed for bonding KEE and TPO single-ply membranes to approved substrates, including wood, concrete, and more, in both horizontal and vertical applications.

Bonding KEE and TPO membranes can be challenging due to plasticizer migration over time, which can weaken the bond if the adhesive chemistry is not suitable. However, Armac 190KEE Adhesive overcomes this issue by offering exceptional bonding strength and flexibility, along with high heat resistance.

With its instant grabbing capability, Armac 190KEE Adhesive is particularly suitable for vertical applications, providing instant grab for up-stands and detail work, simplifying the installation process.

In summary, Armac 190KEE Adhesive is a reliable and high-performance solution for bonding KEE and TPO roofing membranes. Its exceptional bond strength, flexibility, and strength ensure secure and durable adhesion, even in challenging conditions.

BENEFITS

- High heat resistance
- Roller applied for simple application
- Strong, permanent, polymeric bond
- Excellent resistance to aging

APPLICATION BENEFITS

Armac 190KEE Adhesive is simply applied using either a brush or lamb's wool roller - quick and simple application. Due to the high tack properties of the adhesive it is suitable for vertical applications.

The low viscosity of the formulation creates the perfect consistency for application and also produces an exceptional coverage rate per litre and, as a result, reduces contractor task time when installing the membrane.

PROPERTIES

Chemical Base	Synthetic Rubber
Solids Content	37-41%
Specific Gravity	0.84-0.88 @ 20 °C
Viscosity	1200-1600cps @ 20 °C
Chemical Resistance	Resistant to water, dilute acids, alkalis and aliphatic oils
Application Temp.	5-30 °C
Open time	1-30 mins
Coverage Rate per Litre	2-3 m²
Colour	Colourless

APPLICATION GUIDELINES

- Ambient and substrate temperatures must be at minimum 5°C.
- Remove the lid from the packaging then stir the adhesive thoroughly before and during use.
- Ensure that adhesive is not applied over areas that will later be spliced or seamed to another sheet or flashing. We recommend marking these areas out prior to application.
- When installing to plywood or concrete substrates, apply Armac 190 Primer to seal substrate.
- Using solvent resistant roller apply the adhesive to both the underside of the membrane sheet and the substrate to allow approximately the same drying time. Ensure adhesive coat is even, avoiding any puddles and clumps of adhesive.
- Allow the adhesive to dry, touch adhesive with a clean gloved finger and push forward to ensure the adhesive does not string - guaranteeing the adhesive is ready throughout the coat. If the adhesive is shown to be stringy the adhesive needs longer to dry.
- Ensure the substrate is dry, do not apply if there is any standing water or condensation, take care to ensure the roof is free from loose, sharp and foreign materials including oil/grease and other contaminates. Ensure substrate is under the required moisture content.
- Drying times can differ and are dependent on the prevailing conditions such as temperature and humidity.
- Once adhesive is ready for bonding, start at the fold and carefully roll the previously coated portion of the sheet into the coated substrate slowly and evenly to minimise any wrinkles on the membrane. To ensure appropriate adhesion, compress and apply pressure to the bonded area of membrane to the substrate with a broom or weighted roller.

Adhesive Application		
Membrane	Substrates	Application
FiberTite Membrane (SM)	Concrete, Plywood (Use 190 Primer to seal), RoofLogic PIR Board (CF), RL Roof board HDP, RL Roof board LW	Double sided (Exposed bottom side of the membrane and mirrored area of the substrate)

ROOFLOGIC

TECHNICAL DATASHEET

ARMAC 220 FAST BOND

For Ultratherm Xtreme Single Ply Systems

Armac 220 Fast Bond is a specially developed adhesive designed for bonding KEE and TPO single ply membranes for flat roofing applications for both horizontal and vertical applications.

Armac 220 Fast Bond Canister

DESCRIPTION

Armac 220 Fast-Bond adhesive is a contact adhesive designed for bonding KEE and TPO single ply membranes in flat roofing applications, both horizontally and vertically. It is applied using a hose and spray gun system, ensuring clean and efficient application and enabling rapid membrane installation.

This adhesive is suitable for bonding fleece and bare-backed single ply membranes to various substrates, including timber, metals, concrete, and a range of insulation boards such as PIR, some foil faced, and tissue faced. It is not suitable for un-faced XPS and EPS insulation boards due to their solvent content. Conducting a compatibility test in a small area is recommended before proceeding with the full application.

Armac 220 Fast-Bond adhesive is ideal for achieving permanent bonds, offering excellent initial bond strength for vertical applications and detail work. It exhibits high temperature resistance and, when protected from contamination.

BENEFITS

- High temperatures resistance
- Rapid and accurate application
- High solids content
- Rapid drying with long open time
- Suitable for vertical applications
- Strong, permanent polymeric bond

APPLICATION BENEFITS

Armac 220 Fast-Bond Adhesive is applied using a spray gun or hand gun, allowing for easy, precise and rapid installation. The spray gun ensures a consistent spray pattern when applied to the deck and membrane, reducing wastage and ensuring accurate and secure installation. The Hand Gun is used for small areas where there is a requirement to have more control.

The hose from the canisters allows for maximum manoeuvrability whilst working. The lightweight long spray gun minimises the need for contractors to repeatedly bend over throughout the installation reducing the risk of back-ache and discomfort. As a contact adhesive, Armac 220 Fast-Bond adhesive has instant adhesion making it ideal for up-stands and detail work where vertical grab is essential.

PROPERTIES

Chemical Base	Synthetic Rubber
Solids Content	35 - 40%
Spray Pattern	Web Spray
Chemical Resistance	Resistant to water, dilute acids, alkalis and aliphatic oils
Application temp	8 - 30 °C
Service temp	-20 - + 120 °C
Coverage rate	Up to 80 m²
Open time	5-60 minutes

CANISTER SETUP

- Attach one end of the hose to the spray gun and use a spanner to tighten the nut securely.
- Shake the canister for approximately 30 seconds before proceeding.
- Remove the black cap from the canister valve and attach the hose to the valve, tightening the nut with a spanner.
- Ensure that both nuts are securely tightened, and then open the valve on the top of the canister.
- During normal use, do not close the canister valve unless the adhesive will not be used for 5 days or more. Ensure line is clean prior to closing. Closing the valve prematurely may cause adhesive to block in the hose.
- When you have finished your work and wish to close the canister, turn the valve clockwise until it is fully closed.
- Clean the end of the spray tip with Armac Spray Cleaner and wire brush to ensure that the tip is clean.
- When finished, flush the hose with Armac cleaning solvent to ensure that no adhesive remains.
- Once the canister is empty, ensure that the line is cleaned out. If required, remove the hose from the canister valve and attach it to a fresh canister.
- To begin spraying adhesive, pull the trigger on the spray gun. You can adjust the spray width by turning the valve on the spray gun.

APPLICATION GUIDELINES

- Ensure the roof area to be bonded is solid, dry, clean and under the required moisture content.
- Prepare the canister for application as above. Ensure membrane is cut to size and prepared for bonding to begin, protecting any edges or seams that are to be welded to prevent contamination with adhesive.
- Do not apply if rain is imminent.
- Apply adhesive with the spray gun at 90° to the surface and apply a uniform generous coat of adhesive, ensuring 80% minimum coverage of two even coats of adhesive to both substrates. Ensure each two-metre pass takes a minimum of 10 seconds. Do not allow the adhesive to puddle.
- Once the solvent has evapourated and the adhesive is tacky to the touch, lay the membrane into position, applying pressure to the surface to ensure full contact into the adhesive with broom or weighted roller. Drying time will be dependent on atmospheric conditions.
- Do not store adhesives on roof overnight. Adhesives should be kept warm and elevated from substrate.

To ensure the integrity of the adhesive, store the canister in a controlled environment with a temperature above 5 degrees Celsius. If the temperature drops below this threshold, there is a potential risk of the adhesive freezing and losing its effectiveness. In case of colder conditions, canister warmers are available as a precautionary measure.
Do not leave adhesive canisters on the roof overnight.

Adhesive Application		
Membrane	Substrates	Application
FiberTite SM	Plywood, Concrete, RoofLogic PIR Board (CF), RL Roof board HDP, RL Roof board LW	Double sided (Exposed bottom side of the membrane and mirrored area of the substrate)
FiberTite Fleece-backed		

ARMAC 320 SA PRIMER

For Fully-Adhered Ultratherm Xtreme Systems

Armac 320 SA Primer is a high-performance solvent-based primer for increasing the bonding strength of a variety of self-adhered membranes and vapour control layers to a variety of substrates.

Armac Spraybond SA Primer Canister

DESCRIPTION

Armac 320 SA Primer is a high-performance solvent-based primer specifically developed for bonding self-adhered membranes and vapour control layers to a wide range of substrates. It serves as a substrate and inter-laminar primer and bond enhancer, enhancing the adhesion and bond strength between different layers and substrates in various applications.

This primer is applied prior to the installation of vapour control layers and waterproofing membranes. By priming the substrates, it creates an optimal surface for the subsequent bonding process, improving the overall adhesion and bond strength between the membrane and substrate.

Spraybond SA Primer is designed to offer high adhesive and cohesive strength, ensuring a durable and reliable bond. It provides an excellent bond interface, preventing issues such as de-lamination or poor bonding that could compromise the integrity of the application.

Additionally, this primer exhibits good flexibility, allowing for movement and expansion of the membrane without compromising the bond. This flexibility ensures the longevity and performance of the bonded assembly.

BENEFITS

- Performance at high and low temperatures
- Rapid and accurate application
- Exceptional coverage rate
- Simple application
- Excellent resistance to aging
- Strong, permanent polymeric bond

APPLICATION BENEFITS

Spraybond SA Primer is spray applied to the substrate, ensuring a uniform and accurate coat of primer. Due to the extended spray gun and hose, it reduces the need for the installer to bend down repeatedly, and the substantial coverage rate produced due to the spray application allows for rapid.

Spraybond SA Primer has been formulated to have high tack properties making it suitable for up-stands and vertical applications. The instant grab of the primer secures the membrane for a watertight seal once cured.

PROPERTIES

Chemical Base	Synthetic Rubber
Solids Content	35-40%
Flammability	Non-flammable adhesive
Chemical Resistance	Resistant to water, dilute acids, alkalis and aliphatic oils
Application Temp.	8 - 30°C
Service Temp.	-20 - +120°C
Coverage Rate	Up to 300m^2
Colour	Black

CANISTER SETUP

- Attach the one end of the hose to the spray gun and tighten the nut with a spanner.
- Shake canister for 30 seconds before proceeding.
- Remove the black cap on the canister valve and attached the hose to the valve, and tighten the nut with a spanner.
- Once both nuts are tightened and secure, open the valve on the top of the canister.
- During normal use, do not close the canister valve unless the adhesive will not be used for 5 days or more. Closing the valve prematurely may cause adhesive to block in the hose.
- When work is complete,turn the valve clockwise until fully closed. Clean the end of the spray gun with Armac Spray Cleaner ensuring that the tip is clean. Once the canister is empty the hose to the canister valve can be removed and attached to a fresh canister.
- Begin spraying adhesive by pulling the trigger on the spray gun, adjust the spray width by turning the black valve on the spray gun.

APPLICATION GUIDELINES

- Ensure the roof area to be bonded is solid, dry, clean and free from ponded water. Ensure substrate is under the required moisture content.
- Prepare the canister for application as above.
- Do not apply if rain is imminent.
- Apply primer with the spray gun at 90° to the surface and apply a uniform generous coat, ensuring 80 coverage. Move the gun in parallel to the surface, paying particular attention to the edges. Do not allow the primer to puddle. On porous surfaces, it may be necessary to apply a second coat.
- Allow primer to dry. The primer is ready to bond when it feels dry to the touch and does not transfer to gloved finger tips. This time will vary depending on temperature and climate conditions.
- Once the Spraybond SA Primer has dried completely, it is ready for the application of adhesive and subsequent layers. Ensure no debris is present or has blown onto applied primer coat.
- Do not store adhesives on roof overnight. Adhesives should be kept warm and elevated from substrate.

To ensure the integrity of the adhesive, store the canister in a controlled environment with a temperature above 5 degrees Celsius. If the temperature drops below this threshold, there is a potential risk of the adhesive freezing and losing its effectiveness. In case of colder conditions, canister warmers are available as a precautionary measure.

Primer Application	
Substrates	Application
Plywood, Concrete, RL Base Deck, Vapour Control Layer	80% coverage on substrate and Top Face of RL Vapour Control Layer

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ROOFLOGIC

TECHNICAL DATASHEET

ARMAC 400U FLEECEBOND

For Ultratherm Xtreme Single Ply Systems

Armac 400u Fleecebond is a single component, moisture curing polyurethane adhesive for adhering fleece-backed single ply membranes to substrates.

Armac 400U Fleecebond Canister

DESCRIPTION

Armac 400u Fleecebond is a single-component, moisture-curing polyurethane adhesive designed for bonding fleece-backed single ply membranes to substrates. Its application through a canister system ensures precise and rapid installation, significantly reducing overall installation time.

The development of Armac 400u Fleecebond focuses on simplifying on-site application while reducing both application and cure times typically associated with roller applied single-component polyurethanes. The adhesive's highly polymeric nature allows for movement over time, ensuring long-term durability and flexibility.

Armac 400u Fleecebond effectively adheres fleece-backed membranes, including KEE, TPO, and PVC, to some foil and tissue-faced insulation boards, as well as various substrates co mmonly encountered in flat roofing applications such as timber, concrete, and metal.

To maintain an aesthetically pleasing finish, the adhesive is formulated to be low foaming. The professional spray applied system provides exceptional coverage, with a substantial rate of up to 160m² per canister. This allows for efficient coverage of large areas within a short time-frame.

BENEFITS

- Precise application through spray gun
- Strong, permanent bond
- Low foaming for aesthetically pleasing finish
- Extremely polymeric, remains flexible
- Low global warming potential propellants
- Rapid installation
- Reduces waste

APPLICATION BENEFITS

The application of Armac 400U Fleecebond Adhesive is made effortless and efficient thanks to the use of a spray gun. This innovative application method enables easy handling, precise placement, and rapid installation of the adhesive. The spray gun allows for controlled and uniform distribution of the adhesive, ensuring proper coverage and consistent adhesion throughout the roof system.

By utilizing the spray gun, contractors can achieve accurate and consistent application of the adhesive, saving time and reducing the risk of uneven bonding. The convenience of the spray gun enables installers to navigate various areas of the roof, including corners and edges, with ease and precision, ensuring a reliable bond across the entire surface.

Chemical Base	Polyurethane
Non-Volatile Content	85-95%
Flammability	Non-flammable adhesive & propellant
Chemical Resistance	Resistant to water, dilute acids, alkalis and aliphatic oils
Application Temp.	8 - 30 °C
Service Temp.	-20 - +120 °C
Coverage Rate	160 m^2 per 22 L
Cure time	30 minutes | Full cure 24 hours

CANISTER SETUP

- Attach one end of the hose to the spray gun and tighten the nut with a spanner. Use an 8002 spray tip for optimal application.
- Shake the canister for 30 seconds before proceeding.
- Remove the black cap on the canister valve and attach a cleaning adapter to the canister. Then, attach the hose to the cleaning adapter valve and tighten both nuts securely with a spanner.
- Once all nuts are tightened and secure, open the valve on the top of the canister.
- During normal use, do not close the canister valve unless the adhesive will not be used for 5 days or more. Closing the valve prematurely may cause adhesive to block in the hose.
- When your work is complete, turn the valve on the spray gun clockwise until it is fully closed.
- Clean the end of the spray gun with Spraybond Cleaning solvent and a wire brush, ensuring that the tip is clean.
- Once the canister is empty, the hose can be removed and attached to a fresh canister. If work is not going to continue for 5 days or a new canister will not be connected, thoroughly clean the hose and gun. Refer to the cleaning and disposal document for detailed instructions.
- Begin spraying the adhesive by pulling the trigger on the spray gun. Adjust the spray width and pattern by turning the valve on the spray gun.

APPLICATION GUIDELINES

- Ensure the roof area to be bonded is solid, dry, clean and free from ponded water and debris. Ensure roof is under the required moisture content.
- Do not apply if rain is imminent.
- Prepare the canister for application as above. Ensure membrane is cut to size and prepared for bonding to begin, protecting the edges from adhesive contamination that are to be welded or joined later in the installation.
- Apply adhesive with the spray gun in ‘splatter’ pattern directly to the substrate.
- Allow the adhesive to form body for 1-3 minutes (depending on temperature and humidity) and roll fleece backed membrane into the wet adhesive.
- Once membrane is laid into the wet adhesive, ensure the bond is consolidated with the use of a broom and weighted roller.
- Do not store adhesives on roof overnight. Adhesives should be kept warm and elevated from substrate.

To ensure the integrity of the adhesive, store the canister in a controlled environment with a temperature above 5 degrees Celsius. If the temperature drops below this threshold, there is a potential risk of the adhesive freezing and losing its effectiveness. In case of colder conditions, canister warmers are available as a precautionary measure.

Do not leave adhesive canisters on the roof overnight.

Adhesive Application		
Membrane	Substrates	Application
FiberTite Fleece-backed	Plywood, Concrete, RoofLogic PIR Board (CF), RL Roof board HDP, RL Roof board LW	Substrate only
PVC Fleece-backed		
Ultraflex TPO Fleece-backed		

ROOFLOGIC

TECHNICAL DATASHEET

ARMAC 490U ROLL - ON

For Ultratherm Xtreme Single Ply Systems

Armac 490u adhesive is a single component, moisture curing polyurethane adhesive for adhering fleece-backed single ply membranes to substrates.

Armac 400U Fleecebond Canister

DESCRIPTION

Armac 490U Fleece-Back adhesive is a single component, moisture curing polyurethane adhesive for adhering fleecebacked single ply membranes. Application is simple as it's roller applied, removing the need for additional application equipment. RL 490u FleeceBack Adhesive is a one-way stick product applied directly to the substrate, thereby offering economical coverage rates.

BENEFITS

- Strong, permanent bond
- Low foaming for aesthetically pleasing finish
- Extremely polymeric, remains flexible
- Low global warming potential propellants
- Rapid installation
- Reduces waste

APPLICATION BENEFITS

The application of Armac 400U Fleecebond Adhesive is 490u Adhesive should be applied by roller, brush, or beads from the perforated tin to the roof at a coverage rate of 100 to 150 g/sqm (7-10 sqm per/kilo for bead application). Ridges approximately 5 mm in width is generally sufficient. Increase the amount of adhesive at the edges and in corners of roof. The roofing membrane should be laid into the wet adhesive within 5 to 15 minutes, depending on the ambient conditions, and rolled within the next 10 to 20 minutes. Initial setting at 20 degrees centigrade and 40 to 70 % relative humidity is about 30 minutes; final setting takes around 4 hours.

Misting with a water vapour spray can accelerate setting, especially on non-porous substrates.

Chemical Base	Polyurethane
Solids Content	100%
Flammability	No flash point
Chemical Resistance	Resistant to water, dilute acids, alkalis and aliphatic oils
Application Temp.	8 - 30°C
Service Temp.	-20 - + 120 °C
Coverage Rate	40 m^2 per 10 kg
Cure Rate	30 minutes | Full cure 24 hours
Colour	Brown Mobile Liquid

APPLICATION GUIDELINES

- Ensure the roof area to be bonded is solid, dry, clean and free from ponded water and debris. Ensure roof is under the required moisture content.
- Do not apply if rain is imminent.
- Ensure membrane is cut to size and prepared for bonding to begin, protecting the edges from adhesive contamination that are to be welded or joined later in the installation.
- Apply adhesivewith a rolle or brush
- Roll fleece backed membrane into the wet adhesive.
- Once membrane is laid into the wet adhesive, ensure the bond is consolidated with the use of a broom and weighted roller. Do not apply more adhesive than can be covered in 15 minutes. Press insulation material into the adhesive while it is still fluid and regularly check that the adhesive transfers to the insulation material by lifting an insulation plate or area. This is particularly important on uneven surfaces

To ensure safe storage of ARMAC 490u adhesive containers should be well sealed to prevent formation of skin on the surface. The product must be stored at a temperature above freezing. A temperature of 10 – 25 °C for not more than 9 months is recommended. Higher temperatures will affect quality and cause the formation of crusts and skins, especially if the containers are not tightly closed or subjected to direct sunlight for long periods.

Adhesive Application		
Membrane	Substrates	Application
FiberTite Fleece-backed	Plywood, Concrete, RoofLogic PIR Board (CF), RL Roof board HDP, RL Roof board LW	Substrate only
PVC Fleece-backed		
Ultraflex TPO Fleece-backed		

RL FTR 490E

For Ultratherm Xtreme FiberTite Systems

RL FTR 490 is a high performance, polymeric water borne adhesive especially engineered for adhering FiberTite FB (Fleece Back) membranes.

FTR 490E

DECRIPTION

RL FTR 490 is a high-performance, polymeric water-borne adhesive specifically formulated for bonding FiberTite FB (Fleece Back) membranes.

This adhesive is designed to be applied to the substrate only, making it a single surface adhesive. It is VOC compliant and environmentally safe, meeting industry standards for safety and sustainability.

One of the key advantages of RL FTR 490E is its exceptional initial tack strength, which sets it apart from many other water-borne adhesives. This high initial tack ensures strong and reliable adhesion between the membranes and substrates right from the start.

INSTALLATION

The RL FTR 490 adhesive is applied using a roller. The coverage rates may vary depending on the membranes being bonded and the porosity and smoothness of the surface. The theoretical coverage rate for RL FTR 490e is 3m² per liter of adhesive.

To apply the adhesive, roll a smooth and even coating over the prepared substrate. Roll the FiberTite-FB membrane into the wet adhesive. Use a broom to ensure proper placement of the membranes, and then apply firm pressure using a weighted roller.

Note:
Please refer to the RoofLogic project and substrate-specific specifications for detailed application guidelines, design parameters, and material precautions. These specifications will provide specific instructions tailored to your project's requirements.

PROPERTIES

Physical Properties	
Appearance	White
Viscosity	10,000 cps
Solid Weight	50%
Coverage FB Membrane	3 m²/litre
Coverage SM Membrane	2.5 m²/litre
V.O.C	153 g/L
Application	Brush or Roller
Open/Cure time	10-30 minutes depending on weather conditions
Storage	Closed Container. Between 10-26 ˚C
Weight	19 kg/19 L container
Working temperature Range	4.5 ˚C and rising to 32 ˚C

Adhesive Application		
Membrane	Substrates	Application
FiberTiteFleece-backed	Plywood, Concrete, RoofLogic PIR Board (CF), RL Roof board HDP, RL Roof board LW	Substrate Only

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ARMAC 600U BOARD BOND

For Ultratherm Xtreme Systems

Armac 600u Board Bond is a single-component, moisture-curing polyurethane adhesive specifically designed for the Ultratherm Xtreme fully adhered systems

Armac 600U Board Bond Canister

DESCRIPTION

Armac 600u Board Bond Adhesive is a single-component, moisture-curing polyurethane adhesive that is conveniently applied from a 22L canister. It provides a simple, uniform, and accurate application method, reducing both application and cure time compared to traditional bead-applied single-component polyurethanes. The adhesive is VOC-free and uses non-flammable propellants, minimising risks associated with pressurised canisters and simplifying storage requirements for the adhesive, distinguishing it from other products in the market.

The adhesive is designed to adhere to a wide variety of insulation materials commonly used in warm roof construction including XPS, EPS, PIR, PUR, some foil faced, tissue faced, and Stonewool. These materials can be securely adhered to diverse substrates such as concrete, OSB, plywood, existing asphalt, and metal and bituminous systems.

The adhesive expands and foams to compensate for any undulations or laps in vapour control layers on the roof deck, ensuring a strong, permanent, and polymeric bond.

The professional spray applied system offers an impressive coverage rate of up to 240m² per canister, enabling swift coverage of large roof areas. Additionally, it features a quick cure time of 15 minutes at 20°C, further contributing to efficient installation.

BENEFITS

- Rapid installation
- Precise application through spray gun
- No release of VOCs to the atmosphere
- Foaming adhesive for uneven surfaces
- Polymeric, remains flexible
- Boards secure within 15 minutes
- Strong, permanent bond
- Reduces waste

APPLICATION BENEFITS

The application of RL 600u Board Bond Adhesive is effortless and efficient thanks to the use of a spray gun. This innovative application method enables easy handling, precise placement, and rapid installation of the adhesive. The spray gun allows for controlled and uniform distribution of the adhesive, ensuring proper coverage and consistent adhesion throughout the roof system.

By utilising the spray gun, contractors can achieve accurate and consistent application of the adhesive, saving time and reducing the risk of uneven bonding.

PROPERTIES

Chemical Base	Polyurethane
Non-Volatile Content	100%
Solvents	None
Flammability	No Flash Point
Chemical Resistance	Resistant to water, dilute acids, alkalis and aliphatic oils
Application Temp.	8 - 30 °C
Service Temp.	-20 - +120 °C
Coverage Rate	Up to 240 m² per 22 L
Cure Rate	15 minutes @ 20 °C

CANISTER SETUP

- Attach the one end of the hose to the spray gun and tighten the nut with a spanner.
- Remove the black cap on the canister valve and attached the hose to the valve, and tighten the nut with a spanner.
- Once both nuts are tightened and secure, open the valve on the top of the canister.
- During normal use, do not close the canister valve unless the adhesive will not be used for 5 days or more. Closing the valve prematurely may cause adhesive to block in the hose.
- When your work is complete, turn the valve on the spray gun clockwise until it is fully closed.
- Clean the end of the spray tip with Spraybond Cleaning solvent and a wire brush, ensuring that the tip is clean.
- Once the canister is empty, the hose can be removed and attached to a fresh canister. If work is not going to continue for 5 days or a new canister will not be connected, thoroughly clean the hose and gun. Refer to the cleaning and disposal document for detailed instructions.
- Begin spraying the adhesive by pulling the trigger on the spray gun, adjust the bead size by turning the valve on the spray gun - until a bead size of approx. 30-50 mm is achieved.
- The use of a cleaning adapter is required to allow for simple hose & gun cleaning, please see cleaning & disposal document for further information.

APPLICATION GUIDELINES

- Ensure the roof area to be bonded is solid, dry, clean and free from ponded water and debris. Ensure substrate is under the required moisture content.
- Do not apply if rain is imminent.
- Prepare the canister for application as above. Eject first bit of foam into a suitable waste container to ensure applying correctly - if foam is amber/dark yellow continue to eject foam until applying light yellow/off-white in colour.
- Apply adhesive in 30 mm wide beads of adhesive at 100 mm centres for RL PIR and RL Roof Board/HD. Increased coverage rate is required for bonding RL Stonewool insulation - apply beads at 50 mm width.
- Place insulation boards directly into wet adhesive, applying pressure to ensure full contact into the adhesive.
- Avoid walking over insulation boards whilst the adhesive cures for the first 15 - 30 minutes.
- Do not store adhesives on roof overnight. Adhesives should be kept warm and elevated from substrate.

To ensure the integrity of the adhesive, store the canister in a controlled environment with a temperature above 8 degrees Celsius. If the temperature drops below this threshold, there is a potential risk of the adhesive freezing and losing its effectiveness. In case of colder conditions, canister warmers are available as a precautionary measure.

Adhesive Application		
Insulation	**Centres**	**Application**
RoofLogic PIR	100 mm Centres	30 mm
RoofLogic Stonewool	100 mm Centres	50 mm

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RL PU PRIMER

For Ultratherm Xtreme Membrane

high-performance penetrating polyurethane based primer sealer for preparing substrates for bonding.

RL PU Primer

DESCRIPTION

RL PU Primer is high-performance penetrating polyurethane-based primer sealer for preparing substrates for bonding or coating. It is suitable for use on concrete, asphalt, timber (plywood, OSB etc.). It is also compatible with polyester, polyurethane, acrylic and bituminous coatings and adhesives.

BENEFITS

- Brush or roller applied
- Exceptional coverage rate
- Wide range of applications
- Rapid drying formulation
- Excellent resistance to aging
- Wide range of applications

APPLICATION GUIDELINES

RL PU Primer is packed into 20L containers for simple and convenient application.

- Ensure the substrate is dry - do not apply if there is any standing water or condensation.
- Ambient and substrate temperatures must be at minimum 5°C.
- Use either a brush or a solvent resistant roller and roll the primer into the substrate.
- Drying time can differ and is dependent on the current conditions such as temperature and humidity. But in normal conditions will dry in 2 - 6 hours.
- After application, the substrate should have a slight glaze.
- Please read material safety data sheet prior to use.

Chemical Base	Polyurethane
Solids Content	32 - 36%
Flammability	Flash Point Below 25°C
Viscosity	Free flowing liquid
Drying Time	2 - 6 hours at 20 - 25°C
Application Temp.	5 - 25°C
Storage Temperature	5 - 25°C
Coverage Rate per Litre	8 - 12m2
Colour	Amber / Brown

ROOFLOGIC

TECHNICAL DATASHEET

ARMAC 600U (TWO PART)

For Ultratherm Xtreme Systems

Armac 600u (Two Part) is a two-component Polyurethane Adhesive for bonding insulation boards to a wide range of substrates

Armac 600U (Two Part) cartridge, mixer tube, and applicator gun

DESCRIPTION

Armac 600u (Two Part) is a foaming two-component polyurethane adhesive for bonding rigid insulation and roof boards. It contains no harmful solvents and is manufactured with up to 40% bio-renewable materials.

Once mixed, this adhesive foams to allow for undulations in the substrate to ensure optimum performance when bonding insulation. Due to its crosslinked cure and polymeric properties it is capable of withstanding both extremely low or high temperatures when in service.

Armac 600u (Two Part) allows for easy on-site application. It has been designed to enable swift coverage of large roof areas. Armac 600u (Two Part) ensures optimal performance for the lifespan of the roof.

Available in 1500ml cartridges, Armac 600U (Two Part) features a quick cure time of 15 minutes at 20°C, further contributing to efficient installation.

BENEFITS

- Cold applied
- No harmful solvents
- Propellent free packaging
- Foams for uneven surfaces
- Consistent mixing everytime
- Polymeric, remains flexible

APPLICATION BENEFITS

RL 600u (Two Part) adhesive is applied with a battery applicator gun. This application method enables easy handling, precise placement, and rapid installation of the adhesive.

PROPERTIES

Chemical Base	Polyurethane
Solids Content	100%
Flammability	No Flash Point
Viscosity:	Part A: 8000 - 1100cps @ 20°C Part B: 1800 - 2800cps @ 20°C
Chemical Resistance	Resistant to water, dilute acids, alkalis and aliphatic oils
Application Temp.	0 - 30°C
Service Temp.	-20 - +120°C
Cure Rate:	10 minutes @20°C
Coverage Rate	Up to 14m²
Colour	Part A : Blue Part B: Yellow Mixed colour: Green

CARTRIDGE SETUP

- Unscrew the plastic cover from the cartridge head and remove the red insert - if you plan on reusing the cartridge, clean the tips to prevent cross contamination when reinserted in the cartridge head.
- Screw on the plastic mixer tube ensuring it is tightly secured.
- Place the cartridge in the applicator gun.
- Dispense a small amount of adhesive until a consistent green colour is achieved

APPLICATION GUIDELINES

- Ensure the roof area to be bonded is solid, dry, clean and free from ponding water and debris. Ensure substrate is under the required moisture content.
- Do not apply if rain is imminent.
- Prepare the cartridge for application as above. Apply the adhesive in parallel beads. Beads should be at 100 mm centers.
- The insulation boards should be placed immediately into the wet adhesive. The boards will be bonded within 10 minutes and work can continue.
- If the mixed adhesive is left standing in the plastic mixer tube for more than 20 seconds it will thicken and a new mixer tube will be required.

To ensure the integrity of the adhesive, store the cartridge in a controlled environment with a temperature above 5°C. If the temperature drops below this threshold, there is a potential risk of the adhesive freezing and losing its effectiveness. Do not leave adhesive cartridges on the roof overnight.

COMPATIBLE INSULATION

- Glass tissue faced PIR / PUR
- Foil faced PIR / PUR
- Stonewool insulation
- Cellular glass
- Extruded Polystyrene
- Expanded Polystyrene
- VIP Panels
- Suitable for foil to foil bonds

COMPATIBLE SUBSTRATES

- Foil faced VCL
- Calcium Silicate Boards
- Concrete
- Masonry
- Various metals
- Fiber cement sheet
- SBS Bituminous Membranes
- Mastic Asphalt
- Plywood
- Timber

ROOFLOGIC

TECHNICAL DATASHEET

RL SMART BAR

A fixing plinth for membrane roofs

The RL Smart Bar is a weathertight plinth for fixing mechanical plant and equipment to membrane roofs

DESCRIPTION

The RL Smart Bar is designed to secure mechanical plant and equipment to membrane roofs. Designed for mechanical and electrical components such as pipework, cable trays and solar PV systems. The RL Smart Bar is mechanically attached to the substrate and detailed to be waterproof. It provides an exposed aluminium plinth to which the rooftop components are fixed.

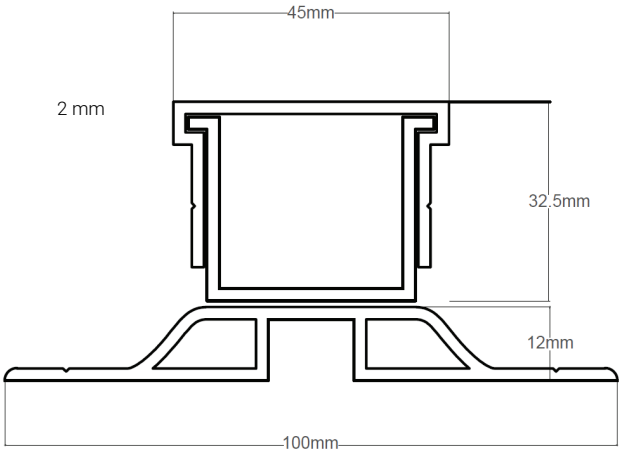
BENEFITS

- The RL Smart Bar allows for installation for rooftop componentry without penetrating the main membrane.
- The RoofLogic Smart Bar creates the interface between the membrane and systems mounted onto the roof.
- Its design ensures that the roof remains completely waterproof.
- A bib is welded to the primary membrane after the base section has been mechanically fixed to the substrate.

MATERIAL AND FINISH

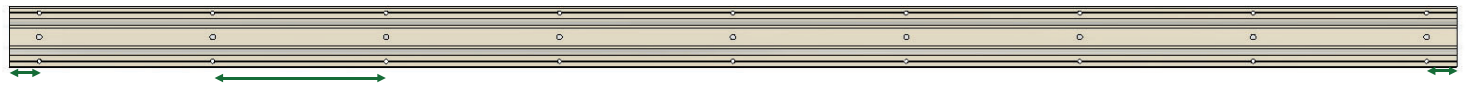
Constructed from mill finished extruded 6063 aluminum, the RL Smart Bar includes a membrane bib to match the roof membrane.

Standard lengths: 600 mm, 1200 mm and 2400 mm.

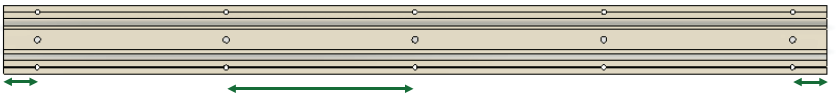


RL SMART BAR FIXING SPACING

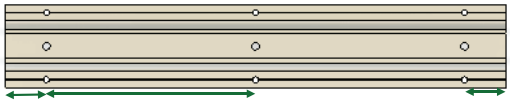
2400mm (finished length)

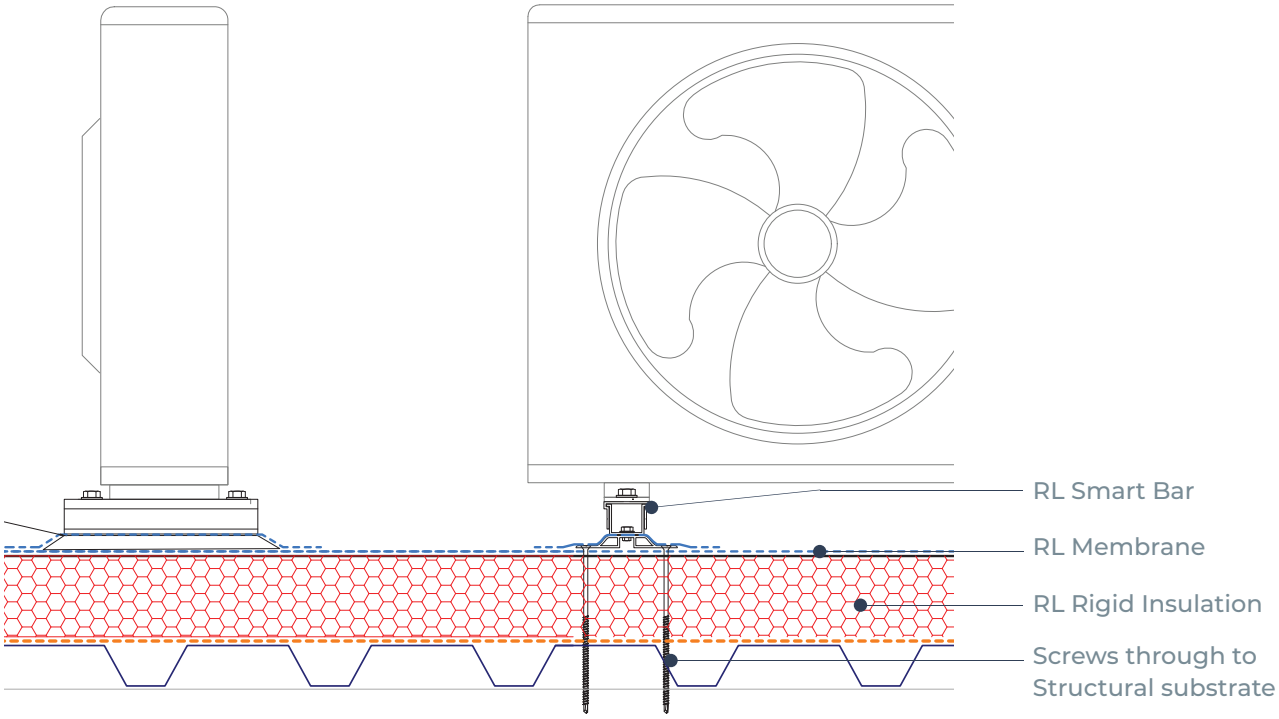


1200mm (finished length)



600mm (finished length)





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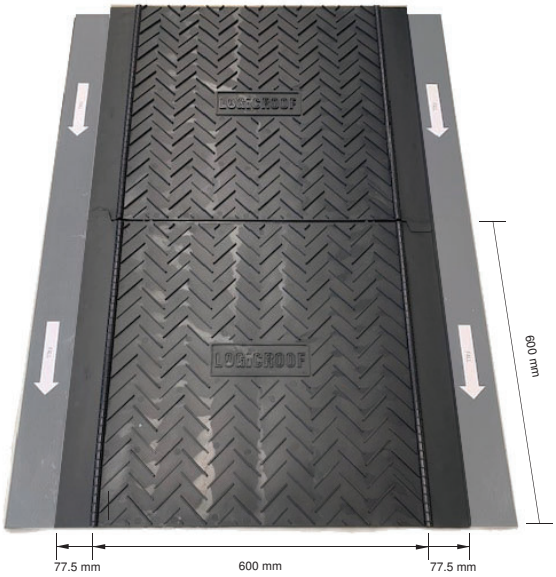
ROOFLOGIC

TECHNICAL DATASHEET

RL WALKWAY TILE

For Ultratherm Xtreme Single Ply Membrane Systems

Walkway and protective materials are employed to establish clear paths that aid in the movement of people and equipment on rooftops during routine servicing, maintenance, and repair activities.



RL Walkway Tiles can be installed both vertically (down the roof) and horizontally (across the roof). When installing the walkways across the roof slope, it is recommended to leave a 50 mm gap between the tiles. This gap ensures that water can drain freely.

DESCRIPTION

RL Walkway Tiles (600x755 mm) are specifically designed to enhance slip resistance, ensure secure footing, and safeguard against potential harm resulting from accidental tool drops or mishandled equipment.

APPLICATION

RL Walkway Pads and protective materials are strategically maintained in designated zones surrounding roof access points such as ladders, hatches, doorways, etc. They are also utilised around mechanical equipment that requires regular maintenance and serve as a reliable walkway system on roof areas that experience frequent foot traffic.

Welding tabs are securely attached using various methods, including manual hot air welding machines and pressure rollers, or automated hot air welding machines equipped with precise temperature control for the hot air.

PHYSICAL PROPERTIES

Characteristics	Test Method	Result
Material basis		PVC
Length, mm	EN 1848-2	600 (+ 3 /- 3)
Width, mm		600 (+ 3/- 3) without welding tabs
Thickness, mm		9.3 (+ 0.1 /- 0.1)
Mass per unit, kg/ pad		2.3
Reaction to fire, freely suspended	EN 13501-1	Class E
UV resistance	EN 1297	Pass
Resistance to impact (rigid sub.), mm	EN 12691	≥ 1000
Static indentation, kg	EN 12730	≥ 25

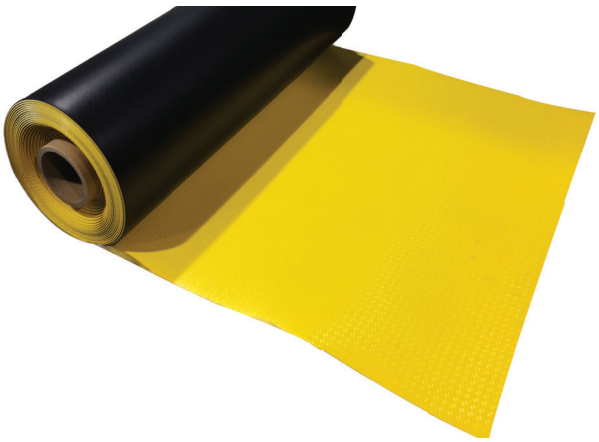
ROOFLOGIC

TECHNICAL DATASHEET

RL WALKWAY PAD

For Ultratherm Xtreme Single Ply Membrane Systems

Walkway and protective materials are employed to establish clear paths that aid in the movement of people and equipment on rooftops during routine servicing, maintenance, and repair activities.



RL Walkway Pad: Close-up (left) and installed (right)

DESCRIPTION

The RL Walkway Pad (HD Yellow) is a versatile solution designed to enhance rooftop safety and durability. It is conveniently available in a roll format, measuring 13.1 meters in length, allowing for easy installation on membrane roofs.

The Walkway Pad material incorporates a robust construction, featuring a 46 x 44/1,000 x 1,000 denier woven polyester fabric reinforcement. This reinforcement adds strength and stability to the pad, ensuring its ability to withstand the rigors of regular rooftop traffic.

To provide optimal protection against environmental elements, the Walkway Pad is coated with a specially formulated yellow KEE (Ketone Ethylene Ester) coating. This coating enhances the material's resistance to UV rays, chemicals, and other potential sources of damage, extending its lifespan and ensuring long-lasting performance. It is embossed with a low profile diamond plate pattern, to enhance traction and grip.

Overall, the RL Walkway Pad (HD Yellow) combines durability, protection, and aesthetics to create an efficient and reliable walkway solution for rooftops. Walkway and protection materials are designed to improve slip resistance, promote positive traction and offer protection from potential damage caused by dropped tools or mishandled equipment.

APPLICATION

RL Walkway Pad (HD Yellow) protection material: Rolls of walkway and/or protection material can easily be cut to various shapes or sizes to facilitate most applications. The RL Walkway Pad is designed to be continuously hot-air welded directly to the FiberTite Roof membrane.

Characteristics	
Thickness	.91 mm
Dimensions	71 0 mm x 13.1 m
Breaking Strength	544.31KG
Dimensional Stability	0.5 MD / .5 XMD
Elongation	15%
Tear Strength	158.75 kg
Puncture Resistance	385.55 kg