

# RL LINER DECK

## FOR RL FIBERTHERM MSR SYSTEMS

### DESCRIPTION

RL Liner Deck has been designed and engineered to provide a steel liner for the subsequent installation of the RoofLogic Fiberterm MSR roofing system.

When installed in accordance with RoofLogic specifications it will provide a profiled steel liner that will support the system components and resist the point loads to which the liner is exposed during system installation.

RL Liner Deck is a zinc aluminium coated trapezoidal profile. RL Liner Deck is manufactured in either 0.40, 0.55 and 0.75BMT.

BMT is dependent on specified purlin centres.



RL LINER DECK DURING INSTALLATION PROCESS

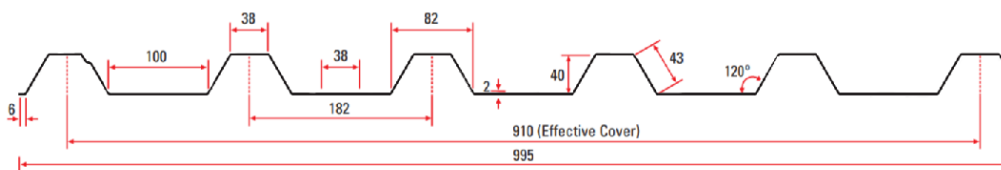
### MATERIAL AND FINISH

The standard finish for RL Liner Deck is a plain Zinalume aluminium coating. Where the RL Liner Deck is to be left exposed on the underside the designer has the option of selecting a colour coating to enhance the internal aesthetic.

Standard colour for RL Liner Deck is Colorsteel Titania with other colours available on request.

Perforated Liner available on request. Contact Rooflogic for information.

### LINER DECK



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## BENEFITS

The RL liner deck can be efficiently installed directly to purlin to provide:-

1. Continuous Insulation. The RL Liner deck provides continuous support with minimum deflection to allow for correct installation of insulation layer.
2. Vapour Control. The RL Liner Deck is detailed to provide a continuous vapour control layer.
3. Programme Advantages. The RL Liner Deck, provides rapid close-in and weathertightness. This allows internal fit-out works to proceed without delays caused by weather. The remaining roofing components can then be installed without affecting the critical path of the construction programme.
4. Health and Safety. The RL Liner Deck provides a safe working platform for the roofer and reduces the risk of fall from height. A continuous liner also protects tradesmen working within the building from the risk of falling objects.
5. Internal finish. RL Liner Deck can be pre-coloured and left exposed, providing an improved aesthetic compared with the netting/roofing paper that is left exposed with traditional roofing.

## LIMITATIONS

Do not install the RL Vapour Control Layer during rain or while the liner deck has any moisture present on the top flange or in the trough.

It is important to establish compatibility of the Liner with the purlin material or other structural elements that the Liner 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.

## INSTALLATION

The RL Liner Deck can be installed over timber or steel purlins. The deck is to be secured at every purlin and through each pan of the liner deck profile. The following fixings are to be used when fixing RL Liner Deck to purlins:-

TIMBER PURLINS	12- 11X40 CLASS 5 TYPE 17 TIMBERTITES WITH NEOS
STEEL PURLINS UP TO 1.5mm	12- 14X20 CLASS 5 STEELTITES WITH NEOS
STEEL PURLINS 1.5 - 4.5mm	12- 14X20 CLASS 5 STEELTITES WITH NEOS
STEEL PURLINS 4.5 - 12mm	12- 24X32 CLASS 5 STEELTITES. SERIES 500 WITH NEOS

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## SPAN TABLE FOR RL FIBERTHERM SYSTEM CONDITIONS

- Load Table assumes multiple span condition
- Based on use of RL Topdeck T as external liner, gauge to be minimum 0.55BMT.
- Load table assumes spacer post is attached with 4 screws (546,728 mm centres) and 2 screws (910,1092 mm centres) to structural steel purlins (minimum thickness of structural purlins is 1.5mm)
- Fixing pattern and requirements for attachment of external roof deck as follows:-

Fixing pattern for Topdeck T: fixed every purlin/rail with the same pattern, (hit-miss-hit-hit-miss-hit) with approved screws and neos, load spreading profiled metal washers and EPDM washers.



Fixing pattern for roof areas requiring 546mm bracket set-out - fixed every purlin/rail, every rib with approved screws and neos, load spreading profiled metal washers and EPDM washers



BRACKET SPACING (mm)	LOAD	PURLIN SPAN (m) / LOADING (kPa)												
		0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8
546	IMPOSED	6.56	5.98	5.51	5.04	4.46	3.88	3.4	3.0	2.7	2.43	2.20	2.00	1.82
	SUCTION	6.73	6.14	5.66	5.05	4.55	4.00	3.5	3.1	2.7	2.51	2.27	2.07	1.89
728	IMPOSED	5.72	5.19	4.66	4.13	3.61	3.08	2.5	2.4	2.3	2.22	2.11	2.00	1.82
	SUCTION	6.00	5.14	4.50	4.00	3.60	3.27	3.0	2.7	2.5	2.40	2.25	2.07	1.89
910	IMPOSED	4.57	4.15	3.73	3.31	2.88	2.46	2.0	1.9	1.8	1.78	1.69	1.60	1.52
	SUCTION	4.80	4.11	3.60	3.20	2.88	2.62	2.4	2.2	2.0	1.92	1.80	1.69	1.60
1092	IMPOSED	3.81	3.46	3.11	2.76	2.40	2.05	1.7	1.6	1.5	1.48	1.41	1.34	1.26
	SUCTION	4.00	3.43	3.00	2.67	2.40	2.18	2.0	1.8	1.7	1.60	1.50	1.41	1.33
546	SNOW	9.84	8.97	8.27	7.56	6.69	5.82	5.1	4.5	4.0	3.65	3.30	3.00	2.73
728	SNOW	8.57	7.78	6.99	6.20	5.41	4.62	3.8	3.6	3.5	3.33	3.17	3.00	2.73
910	SNOW	6.86	6.23	5.59	4.96	4.33	3.69	3.0	2.9	2.8	2.67	2.54	2.41	2.27
1092	SNOW	5.72	5.19	4.66	4.13	3.61	3.08	2.5	2.4	2.3	2.22	2.11	2.00	1.90

## BRACKET SPACING/SET-OUT AS PER LOAD SPAN TABLE

Bracket spacings have been designed to suit standard RL Liner Deck as per diagram below. For other liner deck options consult Rooflogic for bracket set out.

