

RL LINER CASSETTE (PERF)

For RoofLogic Roof and Façade Systems

Acoustic and attractive pre-finished exposed Liner



Description

The RL Liner Cassette (Perforated) is purposefully designed to serve as a structural liner in built-up metal roof and façade systems. Its engineering ensures that when installed in accordance with project specifications, it functions as an appealing internal panel that provides support for the system components while effectively resisting the loads encountered during system installation. The perforated face, when combined with an acoustic blanket, delivers superior sound absorption performance within the interior space.

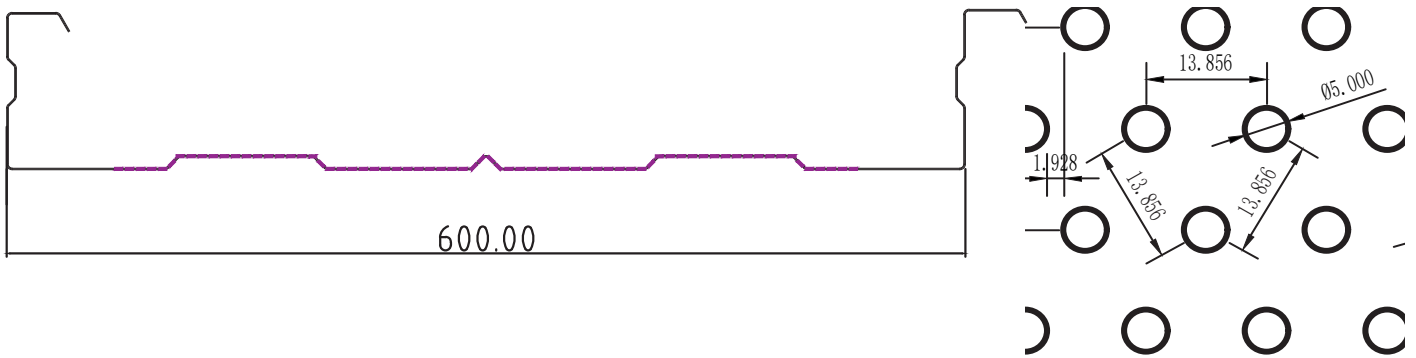
To attach the RL Liner Cassette (Perf) securely, it is fastened to the structure, such as steel purlins and girts. The cassette is manufactured in two thickness options, 0.75mm and 0.9mm, depending on the specific design requirements. Various perforation options are available to achieve different Noise Reduction Coefficient (NRC) values, with the standard perforation being R5T14.

For aesthetic considerations, the RL Liner Cassette is produced in two standard colors: off white (RAL9001) and black (RAL 9005). Additionally, it can be obtained with a Zinc/Alum/Mag (ZAM) coating, providing a bare metal finish option for those who prefer it.

Benefits

The RL Liner Cassette can be efficiently installed directly to the purlins or girts. This provides:

- **Structural Performance** on the roof: The rigid liner provides continuous support and structural substrate to allow for the correct installation of the continuous layers of thermal and acoustic insulation.
- **Hygrothermal Performance:** The rigid liner can be detailed to support a continuous vapour control layer.
- **Programme Advantages:** The RL Liner Cassette can be installed above the purlin to provide a pre-finished acoustic ceiling.
- **Health and Safety.** The RL Liner Deck provides a safe working platform for the roofer and reduces the risk of falls from height. A continuous liner also protects people working within the building from the risk of falling objects.
- **Internal finish:** The RL Liner Cassette can be pre-coloured and left exposed, providing an improved aesthetic compared with the netting/roofing paper that is left exposed with traditional roofing.



SPAN TABLE

Permissible load q [kPa] not including sheet weight. Span L in metres						
Safe Imposed (positive) Loads [kPa] - Single Span						
BMT	Deflection (end support: a ≥ 35mm)	1.20m	1.40m	1.60m	1.80m	
0.75	L/150	6.50	5.20	4.00	3.15	
	L/200	6.50	5.20	4.00	3.15	
	L/250	6.50	5.20	4.00	3.15	
	Safe Imposed (positive) Loads [kPa] - Double Span					
	L/150	8.40	6.45	4.95	3.90	
	L/200	8.40	6.45	4.95	3.90	
	L/250	8.40	6.45	4.95	3.90	
	Safe Imposed (positive) Loads [kPa] - Multiple Span					
	L/150	8.10	6.95	6.00	4.88	
	L/200	8.10	6.95	6.00	4.88	
	L/250	8.10	6.95	6.00	4.88	
	Safe Imposed (negative) Loads [kPa] - Single Span					
	L/150	6.49	5.50	4.45	3.50	
	L/200	6.49	5.50	4.45	3.50	
	L/250	6.49	5.50	4.45	3.50	
	Safe Imposed (negative) Loads [kPa] - Double Span					
	L/150	8.65	7.40	6.40	5.00	
	L/200	8.65	7.40	6.40	5.00	
	L/250	8.65	7.40	6.40	5.00	
	Safe Imposed (negative) Loads [kPa] - Multiple Span					
	L/150	8.10	6.95	6.00	5.40	
	L/200	8.10	6.95	6.00	5.40	
	L/250	8.10	6.95	6.00	5.40	
	Applied Standards/notes Tolerances: EN 10143 Tests/Calculations: EN 1990, EN 1991 1-6, EN 1993 1-3, EN 1993 1-5 (Calculations are to Euro-code, however additional checks such as fixings are required) Steel quality: EN 10346					

