

## RLT-Range Hybrid Absorber

The Global EMC RLT-Range is the latest development in anechoic pyramidal absorbers. The absorbers are specially designed to work in conjunction with Global EMC's GF 102 ferrite tiles.

The resistive doping is far less than normal pyramidal absorbers and is very specific.

There are 4 models in the RLT-range. The RLT-250, RLT-450, RLT-650 & RLT-900. The part number of the absorbers can easily be recognised by measuring the length of the absorber.

For example the RLT-450 relates to a length of 450mm from tip to base. The easy to install "plug-in" 600mm x 600mm base solution gives none reflective edges, perfect for higher frequency testing whilst also giving a uniform and precise fit every time. Modular in construction, the absorber bases fit perfectly to different sized test chambers and measurement rooms.

Designed primarily for EMC test chambers the range of absorbers can be found in Global EMC's SAC-3m-C, SAC-10m-C, FAC-3m-PCE, FAC-3m-C, CISPR12/25-V, CISPR12/25-C, MIL-STD461G, DEF-STAN59-411 chambers.

The long-life expectancy of more than 40 years gives an excellent product lifespan with no carbon migration over time. High wear resistance is integral to the design but should accidental damage occur, each individual pyramid is quickly removable and replaceable without any specialist tools.

This minimises maintenance downtime and maximises the facilities operating time. Each absorber pyramid has hightensile strength with no deformation over time and a sharp and precise tip, perfect for higher frequencies. White end caps can be provided for aesthetic finish and to increase light reflectivity inside the chamber.

## APPLICATIONS

Superb anechoic performance. Perfect uniform precision fit. 40+ year's lifespan. Optimised return loss performance.



Vehicle  
Testing



Military  
Testing



Fully  
Compliant



Anechoic  
Chambers

Designed for anechoic test chambers, military test chambers and vehicle test chambers

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## Fire Safety

Fire safety is paramount in any anechoic chamber or test measurement facility. The RLTF-Range of anechoic absorbers have been rigorously tested to ensure their performance under fire conditions.

Each absorber is given an enhanced strengthening treatment during manufacturing for fire/flame resistance to NRL 8093 class I, II and III, DIN 4102-1 Class B1 and ISO 11925-2 Class E.

## Physical Properties

Model	Height (mm)	Weight (kg/m <sup>2</sup> )	Peaks Per Base	Base Size (mm)
RLT-250	250	4.7	64	600 x 600
RLT-450	450	8.7	16	600 x 600
RLT-650	650	13.6	9	600 x 600
RLT-900	900	18.4	9	600 x 600

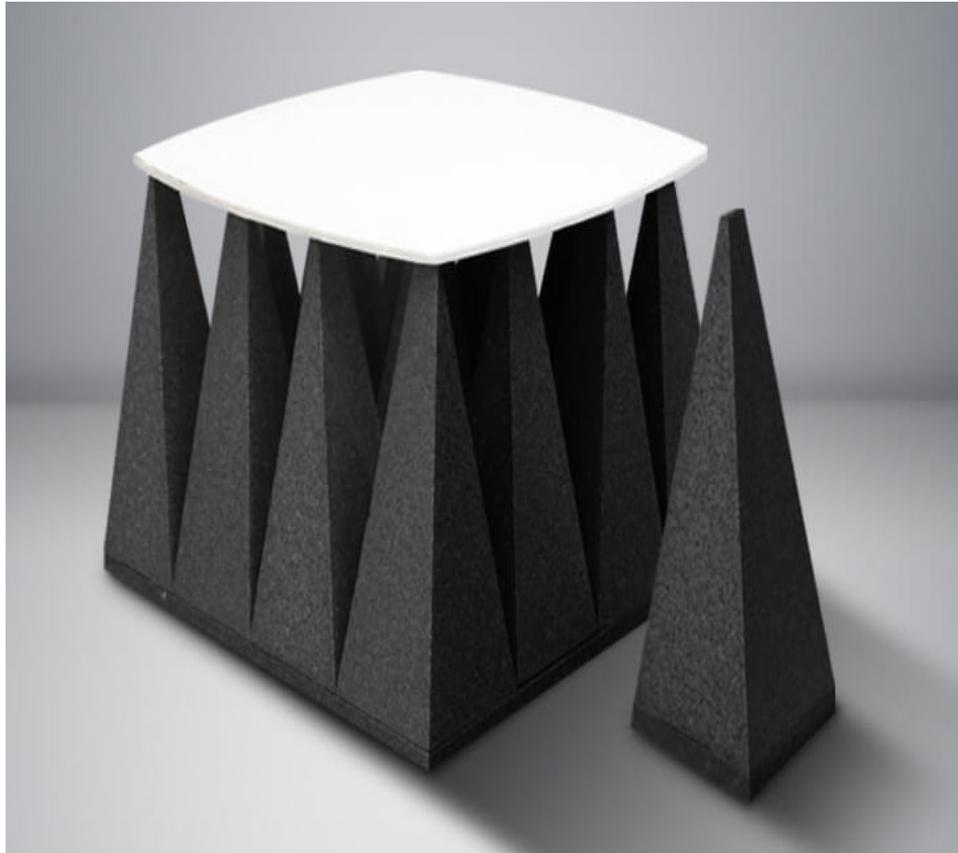
## Performance

Length (mm)	Part No.	Base Size (mm)	Normal incidence return loss (-dB)					
			100 MHz	500 MHz	1.5 GHz	5 GHz	10 GHz	40 GHz
250	RLT-250	600 x 600	16	18	13	14	15	30
450	RLT-450	600 x 600	30	17	20	25	35	40
650	RLT-650	600 x 600	22	20	22	28	40	50
900	RLT-900	600 x 600	23	24	24	30	40	40

## Product Characteristics

Product Material	Polystyrene rigid foam
Standard Colour	Dark Grey
User Frequency	70 MHz to 110GHz (depending on model)
Operating Temperature	30°C + 70°C
Power Capacity	1500W/m <sup>2</sup> 750V/m
ROHS	2011/65/EU Amendment (EU) 2015/863 Appendix I
Reach	EC 1907/2006
Cleanliness	ISO14644-1 Class 4 Clean room standard (1000)
Formaldehyde Emission	GB18580-2001 E1 Class
Lifetime	40 years +

The absorbers are non-hydroscopic, giving excellent water and moisture resistance and enabling their use in high humidity chambers. With no shedding, each pyramid is cleanable and suitable for use in cleanroom environments.



## Disclaimer

All pictures are for illustration purposes only and Global EMC reserve the right to change the products aesthetics.

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