

DECIDAMP® RTD - AS60-8500

noise reducing extensional rail damper

Decidamp RTD is a rail track damper designed to effectively reduce noise generated by track resonance. The high performance polymer composite provides significant damping via a tuned mass system. Along with noise reduction, it can also assist in reducing rail metal fatigue or corrugation growth, lowering maintenance cost.

Decidamp RTD can be designed and tuned to meet customer noise reduction requirements.

By using our internal research and development team, together with leading acoustic engineers, extensive product development was performed to create an optimised solution. On-site field testing also ensures dampers are optimised to deliver maximum effectiveness on any track configuration.

Decidamp RTD can be easily fitted to existing and new rail track as a method of complying with noise legislation and environmental planning regulations. Decidamp RTD dampers are easily attached to either side of the rail using specially designed brackets.

For added durability, Decidamp RTD can be supplied with a protective face plate. The standard option is a 0.4 mm thick 304 stainless steel face-plate, mounted over the facing of the damper to provide mechanical protection and resistance to UV exposure. This face-plate must be used whenever there is potential for UV exposure and contributes to fire protection and long-term product reliability.

Decidamp RTD is a cost-effective option to reduce radiating noise from railway rolling track.

VOC, ODP, HEALTH AND SAFETY

Decidamp RTD is non-toxic and safe to handle by methods prescribed in Safety Data Sheet. No Ozone depleting substances are used during the manufacture of Decidamp RTD.

SPECIFICATIONS

Colour	Black
Available	Track profile: AS60 Length (mm): 400 Weight (kg): 8.5 Noise reduction: Up to 6.5 dB(A)*
	Other track profiles available on MOQ

*Refer to acoustic performance tables



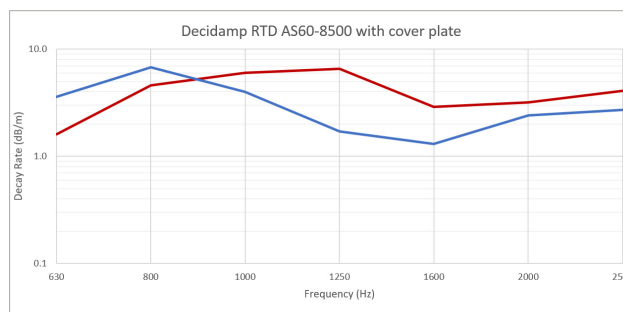
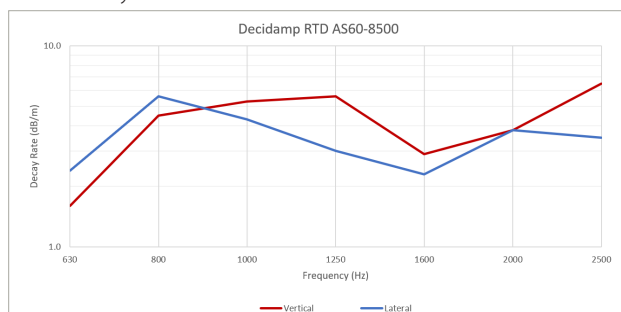
features

- Decidamp RTD can effectively reduce rail-radiated noise
- Highly optimized performance to weight ratio - minimized weight for ease of installation
- Can reduce rail fatigue/corrugation
- Minimise track maintenance
- Prolong track lifespan
- Easily installed, reducing down time during commissioning of new rail tracks or during maintenance
- Dampers can be made available for various track profiles
- Damping performance is tuned to be effective across the typical frequency range of track vibration
- Minimal maintenance requirement after installation, long life once fitted
- Does not interfere with other elements of the rail assembly
- No interference with other track maintenance e.g. rail grinding
- Reduces the reliance on noise barriers
- Metal face plate can be included for increased durability
- Glue point locations to reduce lateral movement



ACOUSTICS PERFORMANCE

Track Decay Rate



Product	Direction	Decay Rate (dB/m) at One Third Octave Band Centre Frequency (Hz)							Arithmetic average of 1/3 octave bands (630-2500hz)
		630	800	1000	1250	1600	2000	2500	
Decidamp RTD AS60-8500 *	Vertical	1.6	4.5	5.3	5.6	2.9	3.8	6.5	4.3
	Lateral	2.4	5.6	4.3	3.0	2.3	3.8	3.5	3.6
Decidamp RTD AS60-8500 ** with cover plate	Vertical	1.6	4.6	6.0	6.6	2.9	3.2	4.1	4.1
	Lateral	3.6	6.8	4.0	1.7	1.3	2.4	2.7	3.2

Report number: *610.19202-L18-v1.0-20230131 **610.19202-L11-v1.0-20220330

Nominal measurement of track decay rate (TDR) of 6 m length track with 0.7 m spacing between Decidamp RTD dampers.

Correct installation is required to achieve best results, variation in measured TDR is expected for variation in track length, spacing or end test condition.

PRODUCT SPECIFICATIONS

Product Name	Colour	Nominal weight (kg)	Length (mm)	Operating Temperature	Installation method
Decidamp RTD AS60-8500	Black polymer with optional metal shroud	8.5	400	Optimal: 10 to 40 °C Continuous: -40 to 80 °C Maximum Intermittent 130 °C	2x stainless steel clips per Decidamp RTD damping block.

Enquire for alternate method of installation.

MATERIAL PROPERTIES

Test method	Property	Report no.	Results
AS1530.3 Tested with cover plate	Method for fire tests on building materials, components and structures	21-000883	Ignitability
			0
			Spread of flame
			0
ASTM D5116	TVOC specific area emission rate	V2010039	Heat evolved
			0
			Smoke developed
			3
EN 17084, NF X 70-100 (EN 45545-2) Tested without cover plate	Fire test, analysis of gaseous effluents produced by thermal degradation	501693	Emissions are less than the Green Star recognised threshold of 0.5 mg/m ² /hr
Design life and maintenance	Service life assessment	BAS/20/L01/10929	C.I.T = 0.28 Complies with strictest implementation of HL3 criteria, a maximum permissible value of 0.75
STARDAMP calculation	Typical noise mitigation STARDAMP modelled scenario Sound pressure levels at 7.5 m dB(A)	TK490-07F03	35 years with proper use, installation and maintenance
		TK490-04F01	Up to 6.5 dB(A) reduction in noise from rail track source.
EN 15461:2008/A1:2010	50m Track Decay Rate (TDR)	20231026 PYR3545	With cover plate: Up to 5.6 dB(A) reduction in noise from rail track source.
			Up to 15.1dB/m @1Khz

STARDAMP calculations are system dependent and assessment should be done on track forms specific to end-use



