

DECIDAMP® RTD

This installation guide provides recommendations to maximize the service life of Decidamp RTD for rail track applications.

KEY INSTALLATION REQUIREMENTS

- Ensure rail track surface is clean, free of dirt or other obvious contaminants before installing.
- Decidamp RTD to be installed with contact paste or adhesive.
- We recommend Fix 8 Adhesive is used.
- Rail should be free of large quantities of moisture (eg. rain water).
- Installation can be done over rust.

TRACK IDENTIFICATION MARKINGS

- Consideration should be made for rail identification markings.
- Damper can be removed to reveal identification marking.
- If completely obscured, a method of identifying the markings location is recommended.
- When adhesive contact paste is used, preventing removal of rail damper, rail identification should be transcribed to plaque, and attached to external face of Decidamp RTD.

INSTALL PREPARATION

- Each Unit installed shall consist of:
 - 4 Decidamp RTD dampers
 - 8 Decidamp RTD Clips
 - Fix 8 adhesive
- Each damper to be installed at mid-point between sleepers

PRIOR TO INSTALLATION

- Materials should be stored adequately as per TDS/SDS.
- Dampers should not be exposed directly to weather or outdoor elements prior to installation, as best practice.
- Contact paste should not be allowed to freeze.

APPLICATION OF DECIDAMP RTD CLIP WILL REQUIRE

- A dead blow hammer.

IF APPLYING CONTACT PASTE YOU WILL REQUIRE

- Caulking gun.
- Each damper will require 25 grams of contact paste.



Pyrotek offers rail dampers to reduce radiating noise from railway rolling stock.

AREA OF APPLICATION

- For use on rail supported on sleepers, slab track or non-embedded vignole rail.
- Maximizes benefit of low or medium resilient rail pads and fasteners.
- Reduces structure borne noise generated by rail track, and allows complete rail system design to reduce ground-borne noise, vibration in track & sleepers.
- Avoid the application where any of the following obstructions are:
 - Welding joints
 - Cable connection points
 - Other rail mounted fixtures
- Reduces rail fatigue
- Minimise track maintenance
- Prolong track lifespan



DAMPER INSTALLATION

- Apply contact paste (Fix8), to two glue cavities of Decidamp RTD, on the face which will be installed against the web of the track.
 - Contact paste should be applied at temperatures above 4°C and below 40°C. Installation outside of this range is not recommended or warranted.
- Place damper in location where installation required, a damper should be installed symmetrically on each side of the rail, on both rails.
 - At mid-point between sleepers. For example, at 700 mm centered spacing.
 - Perform visual inspection to ensure blocks are correctly fitted to the curvature of the rail profile.
 - Rail shall remain fixed by fasteners during installation.
- When RTD Cover Plate is used:
 - Place cover plate centrally so that there is no overhang on either side of damper.
 - Cover plate shall be flush to the damper.
 - Central 'spike' shall press into the damper to prevent lateral movement.
- Place clips in configuration shown
 - Clip should be at least 20 mm from edge of the Decidamp RTD damper.
- Use installation tool, dead blow hammer or mallet to impact lower end of clip, so that clips fasteners hook to the foot on the other side of the rail track. See picture 2
- If specified, apply contact paste into adhesive recess of each end of damper.
- Visually inspect that clip is correctly installed and that damper is firmly in place. Proceed with next damper.

OPTIONAL COVER PLATE

- Decidamp RTD cover plates are additional components designed specifically for rail dampers to enhance performance against fire and weather elements. Each stainless steel cover plate includes a small, strategically punched hole with a protruding spike to aid installation and prevent shifting during the application of clips. This design ensures a secure and stable fit, as the spike effectively anchors the cover plate to the damper, enhancing overall performance and reliability. Cover plates can be purchased separately, allowing for convenient replacement.

REMOVAL OF DAMPER

- Removing the damper can be easily done by using a lever such as a pinch bar.
- Clips must be disposed of once removed. Dampers can be reused if removed in good condition.
- A mallet and chisel can be used where difficulties are encountered with product removal. Electric multitool (tile remover) can be used to rapidly remove contact paste from track.

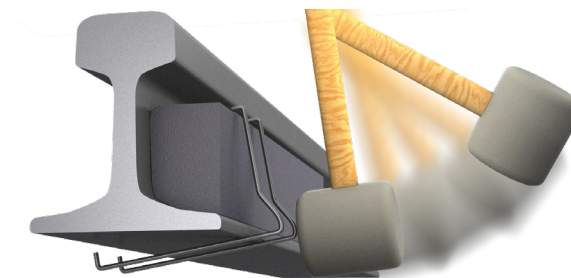
WORKING HEALTH AND SAFETY

- Suitable personal protection equipment (PPE) should be used during all methods of installation and maintenance. Refer to the materials safety datasheet to determine the appropriate PPE to be used.
- Suitable care must be taken to avoid damage to adjacent materials and finished surfaces.

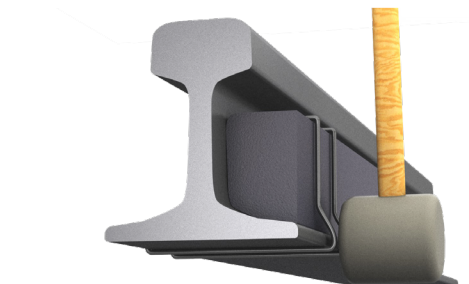
Please contact Pyrotek® for further information or detailed advice on your specific application.



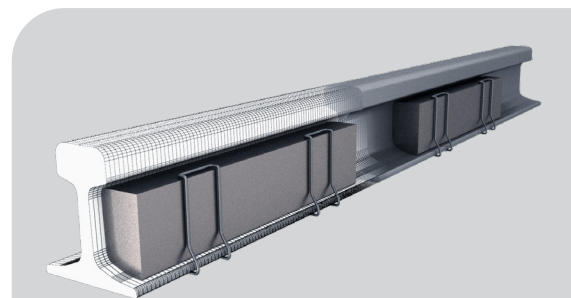
1. Decidamp RTD Clip



2a. Installing Decidamp RTD Clips



2b. Installing Decidamp RTD Clips



3. Render of complete Decidamp RTD system