

Raised Rumble Bars

Installation Guide – Raised Thermoplastic Rumble Bar System (Hot Bitumen Adhesive)

A) General Conditions for Proper Installation

1. The pavement surface must be **clean, dry, and free of dust, dirt, oil, grease, and loose material**.
2. Installation should be carried out in **dry weather conditions**. Avoid installation during rain or where surface moisture is present.
3. Ambient and surface temperatures should be **sufficient to support adhesion** (generally above 10°C).
4. On fresh asphalt, installation should occur **after final rolling**, once the surface has cooled sufficiently to support placement without deformation, while still promoting adhesion.
5. Ensure all required traffic management is in place prior to installation.



Installation Using Hot Bitumen Adhesive

1. **Heat the bitumen adhesive**
 - Heat approved road marking bitumen adhesive in a suitable melter/kettle to the manufacturer's recommended temperature (typically **180–200°C**).
 - Maintain temperature to ensure correct viscosity and workability. Avoid overheating.
2. **Prepare the application area**
 - Mark out the position of each rumble strip in accordance with the required layout and spacing.
 - Ensure the surface is dry immediately prior to application.

3. **Apply hot bitumen adhesive**
 - Apply a uniform layer of hot bitumen adhesive to the pavement surface or underside of the rumble strip.
 - Typical application thickness is approximately **2–4 mm**, ensuring full coverage across the bonding area.
4. **Place the rumble strip**
 - Position the rumble strip onto the hot adhesive immediately after application.
 - Apply firm downward pressure along the length of the strip to ensure full contact and even adhesive spread.
5. **Seating and bonding**
 - Additional pressure (manual or mechanical) should be applied to ensure the adhesive fully wets out to the edges of the strip.
 - A small bead of adhesive at the edges is acceptable and indicates adequate coverage.
6. **Cooling and trafficability**
 - Allow the adhesive to cool and set (typically **a few minutes depending on conditions**).
 - Once the adhesive has sufficiently hardened, the installation can be **opened to traffic**.

Limitations

1. **Moisture will inhibit adhesion**
 - Do not install on damp or wet surfaces.
 - Avoid installation during rain or when rain is imminent.
2. **Surface preparation is critical**
 - Inadequate cleaning or contamination will result in poor bonding and potential failure.
3. **Temperature control**
 - Bitumen adhesive that is too cool will not bond effectively.
 - Overheating may degrade the adhesive and reduce performance.
4. **Insufficient pressure**
 - Failure to apply adequate pressure during placement may result in incomplete bonding and premature loss of the strip.

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