

# Trench Grates

## Installation

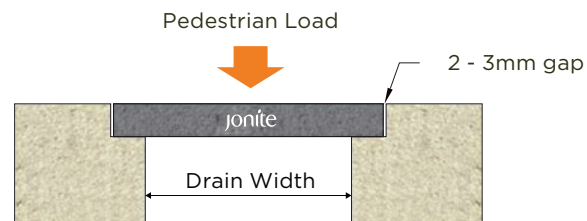
Jonite trench grates can be installed in a wide variety of ways as they can vary worldwide. For trench grates, this mainly depends if you are introducing light-duty (pedestrian-rated) grates or heavy-duty (vehicular-rated) grates.

For light-duty applications, adopt Methods 1 and 2 by installing directly on a level concrete or L-steel angles for added support and flatness.

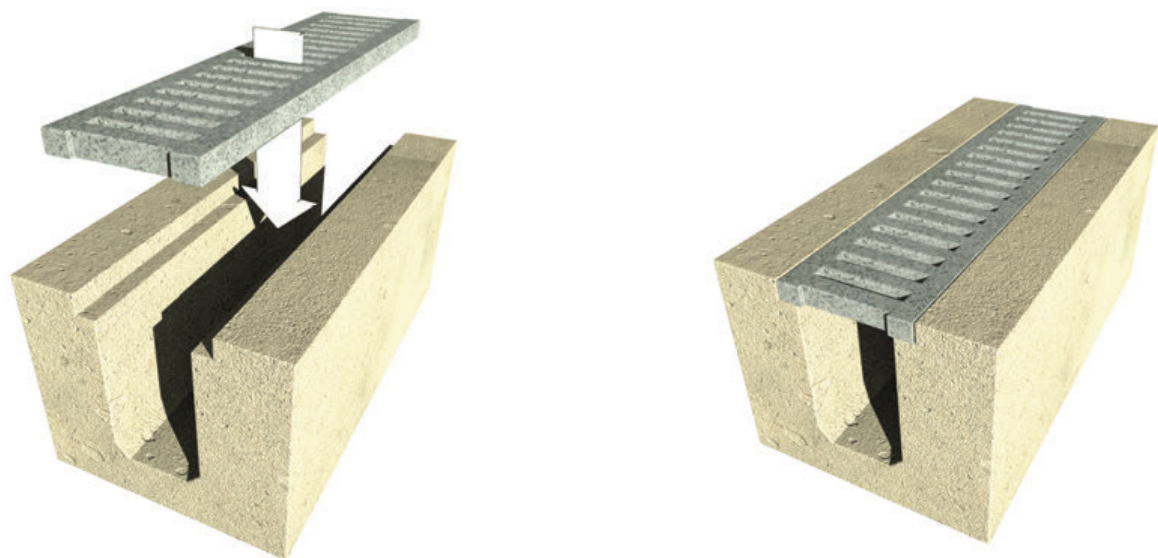
For heavy-duty applications, adopt Methods 3 and 4 by installing using Jonite L-Trimmers or with an inverted L-steel angle.

### 1 LIGHT-DUTY GRATES ON LEVEL CONCRETE

Only light-duty Jonite trench grates, which are strictly for pedestrian application (6KN-15KN), can be installed directly on level concrete as long as they are installed flatly with no visible rocking.

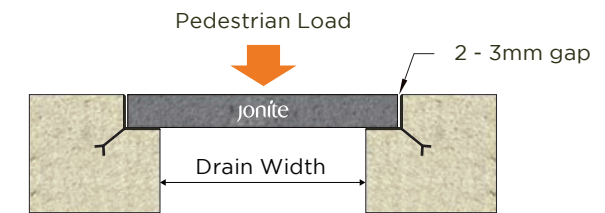


Install directly on flat & level concrete drains and tiles.

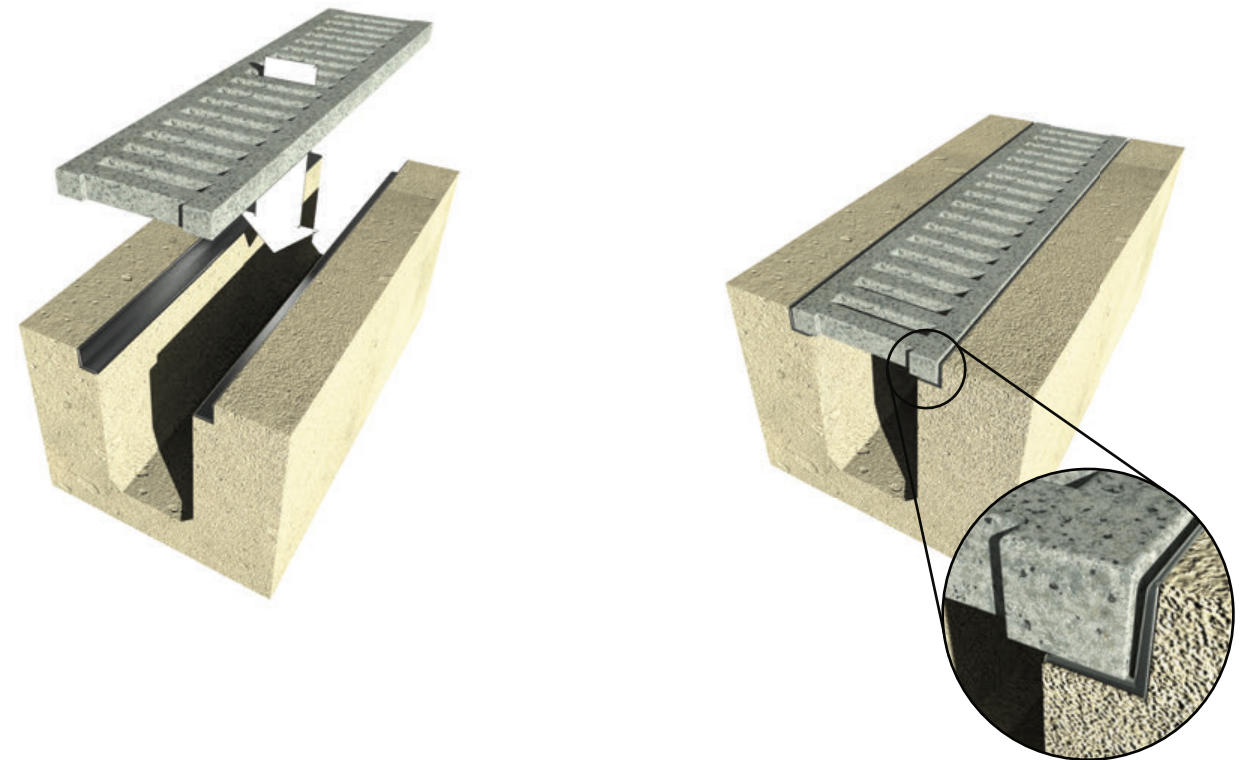


### 2 LIGHT-DUTY GRATES WITH L-STEEL ANGLES

For specific applications, especially with custom curve grates, it might be easier for installers to use L-Steel angles to ensure level flatness. These are still strictly for pedestrian applications only.



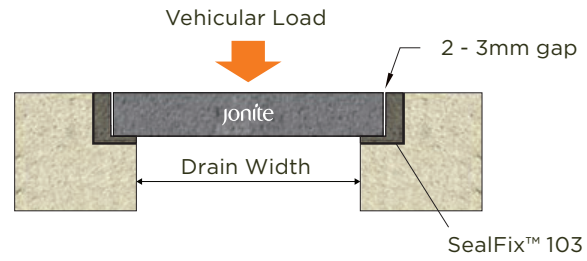
Install with L-steel angles and fishtails.



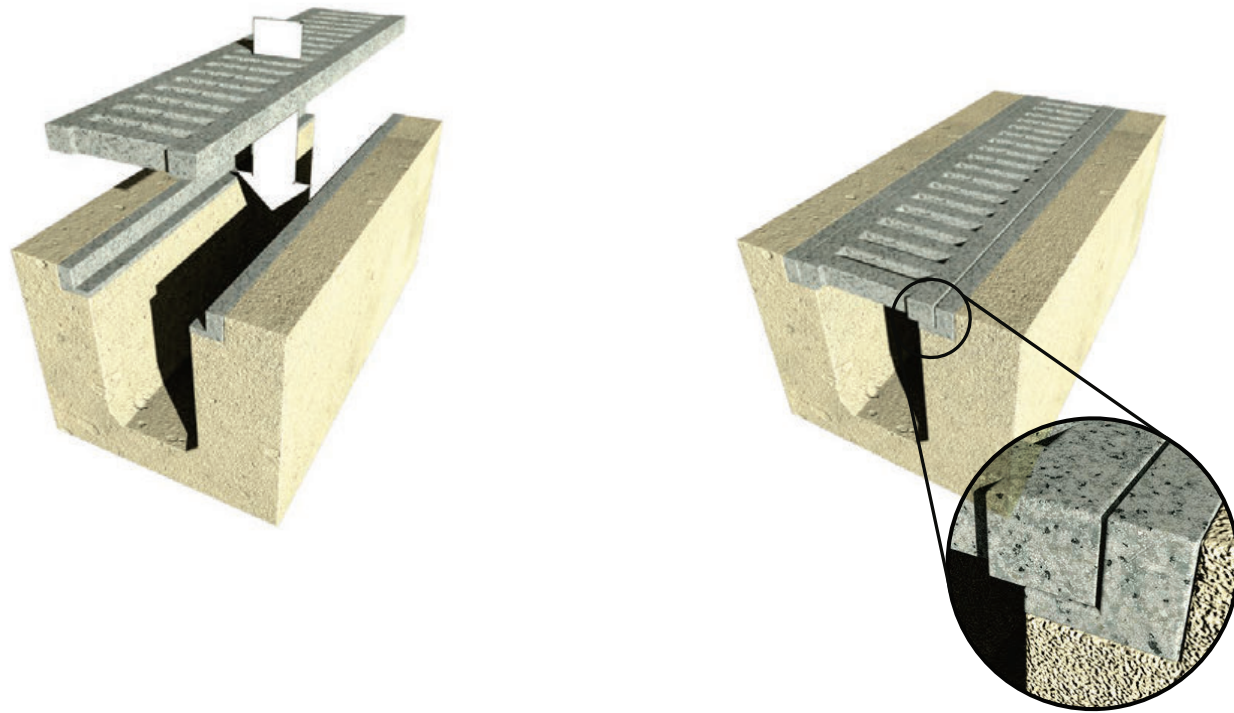
L-steel angles ease the leveling process during installation.

**3**  
**HEAVY-DUTY GRATES**  
**WITH JONITE L-TRIMMERS™**

Trench grates for vehicular application (125KN - 400KN), must be flatly installed on a 90-degree edge to ensure maximum performance. Jonite L-Trimmers™ provides this with a bonus of aesthetic flair.



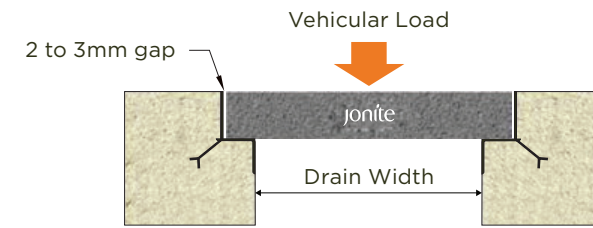
Jonite L-Trimmers™ is installed using dry fixing with SealFix™ 103 (epoxy mortar).



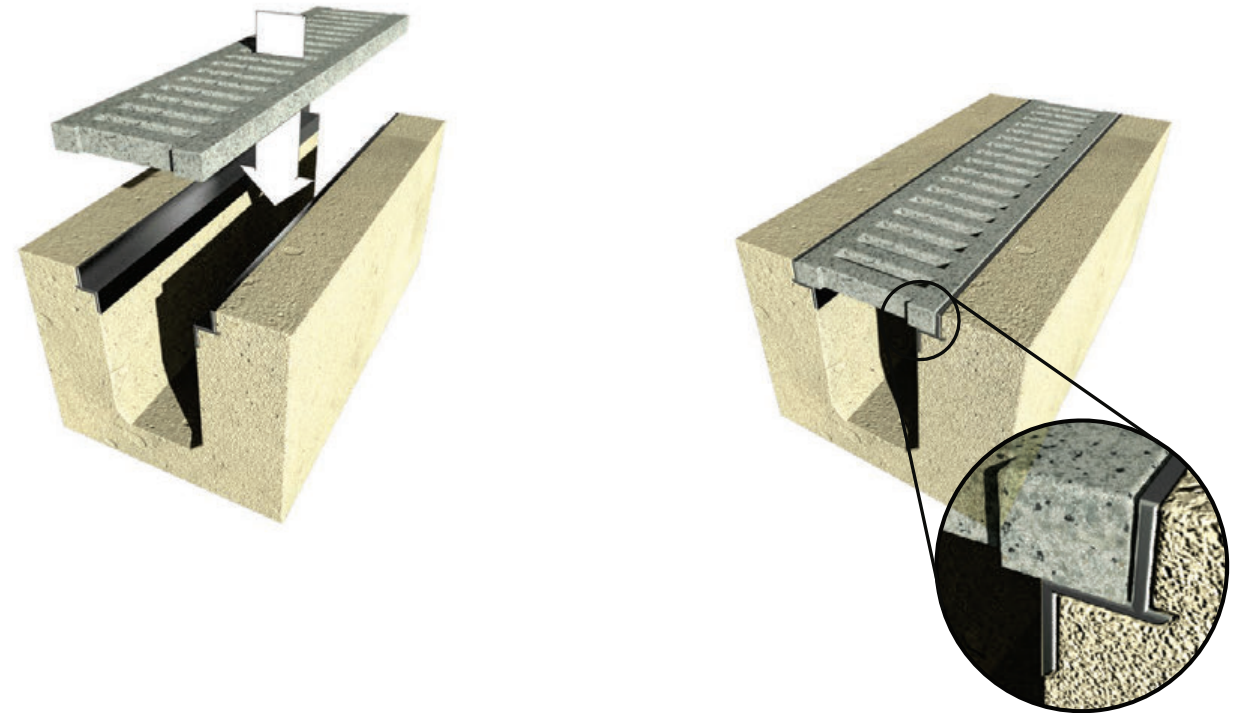
Jonite L-Trimmers™ provides a clean and aesthetically appealing installation.

**4**  
**HEAVY-DUTY GRATES**  
**WITH INVERTED L-STEEL ANGLES**

For a more cost-effective alternative, heavy-duty trench grates can be installed on a flat surface with a 90-degree edge by inverting an L-steel angle and welding a flat bar to the side.



An inverted or a fabricated L-steel angle allows a 90-degree edge seating, which prevents cracks caused by point loading.

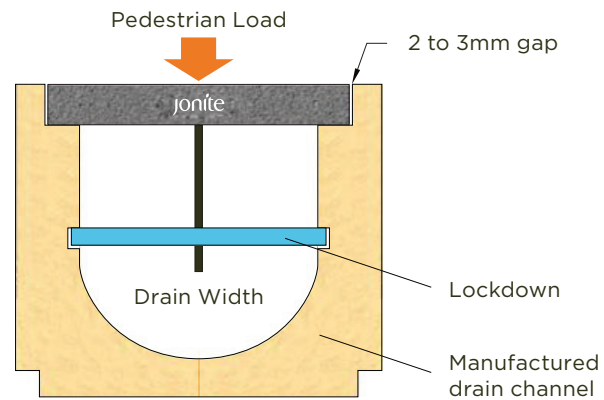


A 90-degree seating edge can be obtained in a variety of ways using L-steel angles.

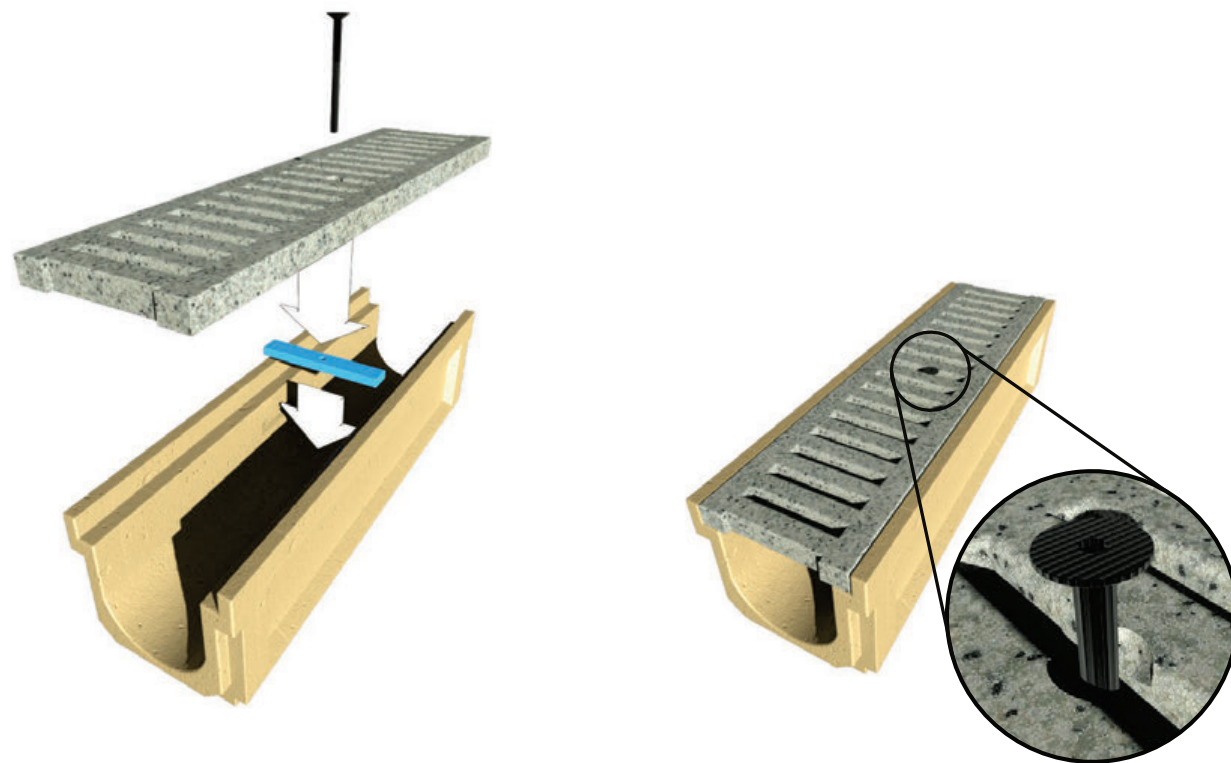
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## GRATES WITH COMPATIBLE DRAIN CHANNELS

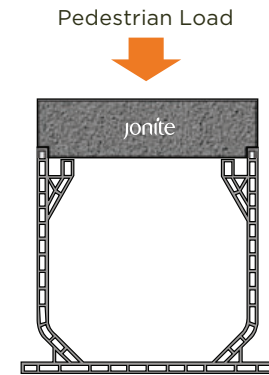
Selected Jonite trench grate models are designed to fit perfectly into specifically manufactured drain channels. Custom options can also be available upon request.



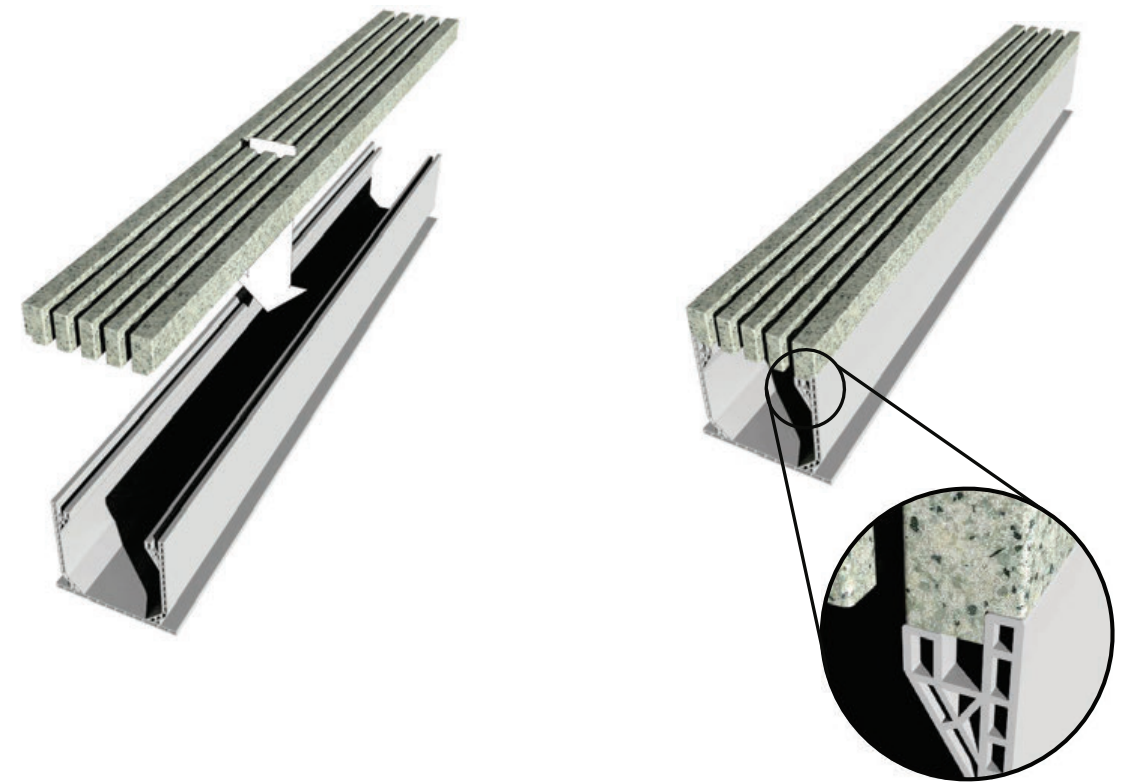
Install directly on the compatible drain channels. Some models can be bolted down with lockdown features.



After placing the lockdown plate, a countersunk bolt is then bolted in to secure.



Jonite Mini Grate™ being installed on compatible channels. Grates come with recessed grooves for a snug snap and fit.



Jonite Mini Grate™ is specially cut to fit snugly onto the channels, providing a clean and edgeless aesthetic.