

WilTec 60351

WilTec Drainage Channel with Cast Iron Grate

Model: 60351

1. INTRODUCTION

This instruction manual provides essential information for the proper installation, operation, and maintenance of your WilTec Drainage Channel. This product is designed for efficient surface water drainage in areas such as garage entrances, parking lots, building entrances, courtyards, and passages. Its robust construction ensures durability and effective water management.

The drainage channel is constructed from high-quality plastic (PP) and features a cast iron grate, providing significant load-bearing capacity. It is designed for complete embedding in the ground, with only the non-slip grate visible at the surface.

2. SAFETY INSTRUCTIONS

- Always wear appropriate personal protective equipment (PPE) such as gloves and safety glasses during installation.
- Ensure the installation area is clear of obstructions and hazards.
- Handle channel sections and grates with care to avoid injury.
- Verify that the ground is stable and properly prepared before embedding the channel.
- Do not exceed the specified load capacity of 12.5 tons.
- Keep children and pets away from the installation site.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged before beginning installation.

- 3 x 1-meter Drainage Channel Sections
- 3 x Cast Iron Grates (for 1-meter sections)
- 2 x End Caps
- Connectors for standard KG / DN110 pipe



Image 3.1: Overview of WilTec Drainage Channel components, including three 1-meter channel sections, their corresponding cast iron grates, and various end caps and pipe connectors for installation.

4. SETUP AND INSTALLATION

Proper installation is crucial for the effective and long-lasting performance of the drainage channel.

4.1 Site Preparation

1. **Excavation:** Dig a trench of appropriate depth and width to fully embed the channel sections. Ensure the trench bottom is level and compacted.
2. **Slope:** Create a slight slope (typically 1-2%) along the trench towards the intended drainage outlet to facilitate water flow.
3. **Bedding:** Lay a compacted layer of gravel or concrete as a stable bedding for the channel.

4.2 Assembling Channel Sections

1. Connect the 1-meter channel sections together. Ensure a secure fit to prevent leaks.
2. At the end of the channel run, attach an end cap.
3. For connection to a wastewater system, use the provided connectors to attach a standard KG / DN110 pipe to the designated outlet on the channel.



Image 4.1: Two channel sections joined, illustrating the connection points and the integration of an end cap with a pipe outlet.

4.3 Embedding and Finishing

1. Place the assembled channel sections into the prepared trench. Ensure the top edge of the channel is flush with the surrounding surface or slightly below, depending on the desired finish.
2. Backfill the trench with concrete or suitable bedding material, ensuring the channel is fully supported on all sides.
3. Once the bedding material has set, place the cast iron grates onto the channel sections. The grates are designed to sit securely within the channel.



Image 4.2: An installed drainage channel with its cast iron grate, seamlessly integrated into a paved surface, ready for use.

5. OPERATION

The WilTec Drainage Channel operates passively by collecting surface water through its grate and directing it to the connected wastewater system. No active user intervention is required for its primary function after proper installation.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your drainage channel.

- **Cleaning:** Periodically remove debris, leaves, and sediment from the grates and inside the channel to prevent blockages. The grates can be lifted for easier access.
- **Rust Prevention:** The cast iron grates should be pre-treated and regularly maintained to prevent rust formation. This may involve applying a rust-inhibiting coating or paint as needed, especially in corrosive environments.
- **Inspection:** Regularly inspect the channel and grates for any signs of damage, cracks, or shifting. Address

any issues promptly to maintain structural integrity and drainage efficiency.

7. TROUBLESHOOTING

If you encounter issues with your drainage channel, consider the following common problems and solutions:

- **Slow Drainage/Pooling Water:**

- Check for blockages in the grates or within the channel. Clear any accumulated debris.
- Inspect the connection to the wastewater system for obstructions.
- Verify that the channel maintains the correct slope for water flow.

- **Grates Shifting/Loose:**

- Ensure the channel is properly embedded and supported by the surrounding material.
- Check if the grates are correctly seated in their designated slots.

- **Rust on Grates:**

- Clean any existing rust and apply a suitable rust-inhibiting treatment or paint.
- Establish a regular maintenance schedule for rust prevention.

8. SPECIFICATIONS

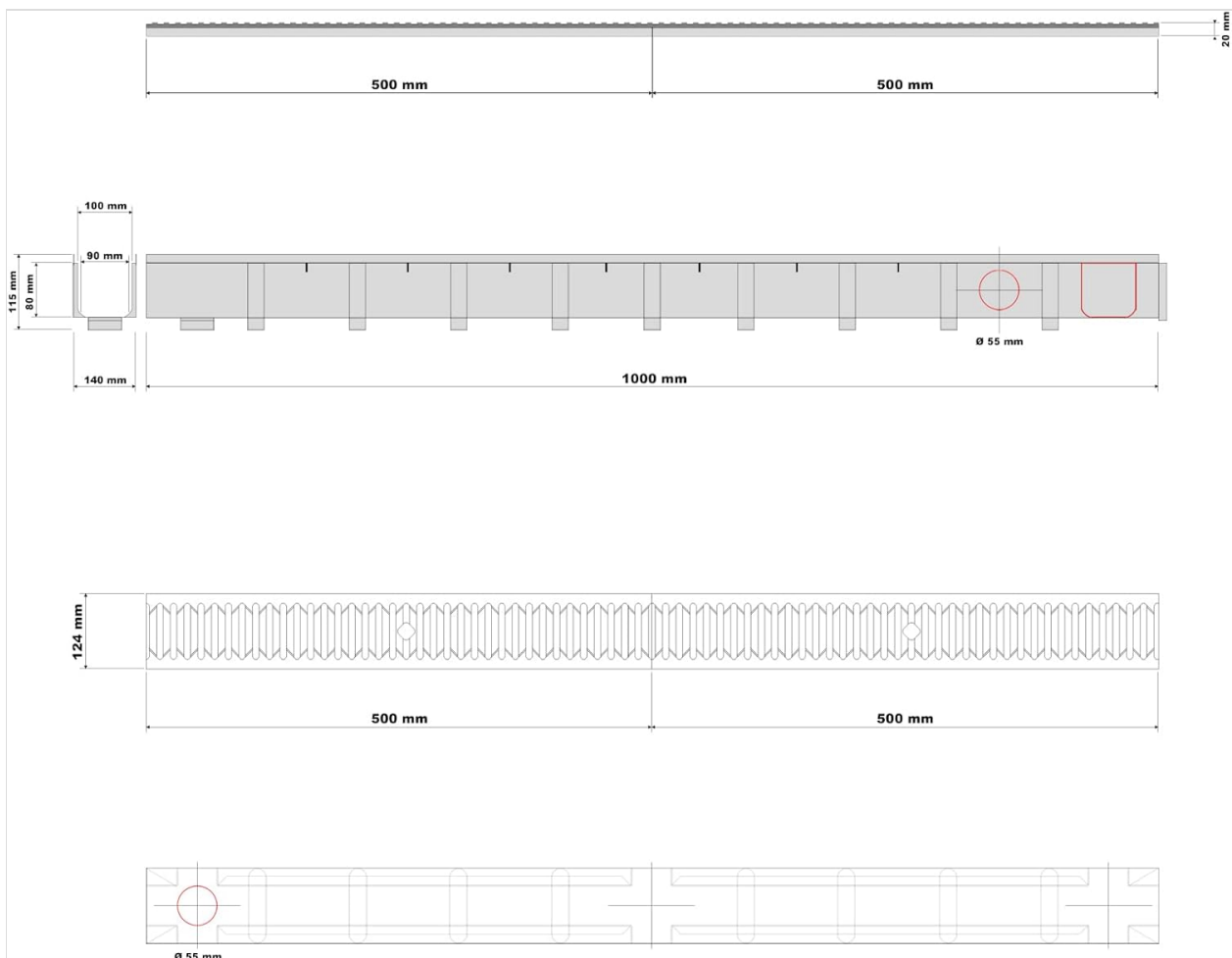




Image 8.1: Detailed technical drawing with key dimensions of the drainage channel and grate.





Feature	Specification
Model Number	60351
Channel Length (total)	3 meters (3 x 1m sections)
Product Dimensions (per 1m section)	100 x 14 x 11.5 cm (L x W x H)
Weight (total)	22.68 Kilograms
Material (Channel)	High-quality Plastic (PP)
Material (Grate)	Cast Iron
Load Capacity	Up to 12.5 tons
Pipe Connection	Standard KG / DN110
Special Feature	Non-slip grate with unique profile, suitable for indoor/outdoor use

9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the purchase documentation or contact WilTec customer service directly. Ensure you have your model number (60351) and proof of purchase available when contacting support.

Related Documents - 60351

	<p>Wiltec Submersible Pump 65336-65343 User Manual</p> <p>Comprehensive user manual for the Wiltec submersible pump (models 65336-65343), covering operation, safety instructions, technical specifications, maintenance, and troubleshooting.</p>
	<p>Manuale d'uso: Mini-incubatrice per 12 uova Wiltec 52016</p> <p>Scopri come utilizzare al meglio la tua mini-incubatrice Wiltec per 12 uova (modello 52016) con questo manuale d'uso completo. Include istruzioni dettagliate, consigli per l'incubazione e risoluzione problemi.</p>

	<p>Manual de Usuario y Especificaciones Técnicas del Compresor de Aerógrafo WilTec AF189</p> <p>Este manual proporciona instrucciones detalladas para el uso seguro y eficiente del compresor de aerógrafo WilTec AF189 (Artículo 34205), incluyendo pautas de seguridad, especificaciones técnicas, manejo de la estación reductora, lista de piezas y normativas de conformidad.</p>
	<p>WilTec Submersible Pump 400 W / 7000 l/h - Operation Manual</p> <p>Comprehensive operation manual for the WilTec Submersible Pump 400 W / 7000 l/h (Model 65045), covering safety instructions, installation, operation, troubleshooting, and disposal regulations.</p>
	<p>Wiltec Parcel Box 64118 Operation Manual and Assembly Guide</p> <p>Comprehensive operation manual and assembly guide for the Wiltec Parcel Box model 64118. Includes parts overview, step-by-step assembly instructions, safety precautions, and contact information.</p>
	<p>WilTec Egg Incubator Article 50034 Operating Manual</p> <p>Comprehensive operating manual for the WilTec Egg Incubator, Article 50034. Provides instructions on setup, operation, temperature and humidity control, hatching phases for various poultry and reptiles, and disposal guidelines.</p>