

Festool 496309

Festool 496309 Solid Surface/Laminate 48-Tooth Saw Blade Instruction Manual

1. INTRODUCTION

This manual provides essential information for the safe and effective use of the Festool 496309 Solid Surface/Laminate 48-Tooth Saw Blade. This carbide-tipped blade is designed for the Festool TS 55 Plunge Cut Saw, offering high-quality cuts in laminate flooring and solid surface countertop materials. Proper understanding and adherence to these instructions will ensure optimal performance and longevity of the blade.

2. SAFETY INFORMATION

Always prioritize safety when working with power tools and saw blades. Failure to follow these safety guidelines may result in serious injury.

- **Read Tool Manuals:** Always read and understand the instruction manual for your saw before installing or using any blade.
- **Personal Protective Equipment (PPE):** Wear appropriate PPE, including safety glasses, hearing protection, and gloves, during operation.
- **Disconnect Power:** Ensure the saw is disconnected from the power source before installing, removing, or performing any maintenance on the blade.
- **Inspect Blade:** Before each use, inspect the blade for any damage, cracks, or missing teeth. Do not use a damaged blade.
- **Correct Blade for Material:** Use the correct blade type for the material being cut. This blade is specifically designed for solid surface and laminate materials.
- **Secure Workpiece:** Always secure the workpiece firmly to prevent movement during cutting.
- **Maintain Clear Work Area:** Keep the work area clean and free of debris.
- **Proper Blade Installation:** Ensure the blade is installed correctly and securely, with the teeth pointing in the direction of rotation.

3. PRODUCT FEATURES

The Festool 496309 saw blade incorporates several design elements for optimized performance:

- **48 Teeth:** Provides a fine finish for solid surface and laminate materials.
- **TC (Triple Chip) Design:** Features alternating beveled and flat teeth for smoother, more efficient cutting and reduced chipping.
- **Thin Kerf:** Reduces resistance during cutting, leading to more efficient operation and less material waste.
- **Oversized 20mm Arbor:** Ensures a secure fit to the saw, minimizing vibration for precise cuts.
- **Laser Cut Expansion Slots:** Designed to reduce vibration and noise, contributing to faster and quieter cutting.
- **Carbide Tipped:** Enhances durability and extends blade life.

4. SPECIFICATIONS

Attribute	Detail
Model Number	496309
Material	Carbide
Number of Teeth	48
Kerf	2.6 mm
Arbor Size	20 mm
Hook Angle	4 degrees
Blade Type	TC (Triple Chip)
Product Dimensions	6"L x 8.25"W (Overall package dimensions, blade diameter is typically 160mm for TS 55)
Item Weight	11.3 ounces

5. SETUP AND INSTALLATION

Follow these steps to safely install the Festool 496309 saw blade onto your compatible saw (e.g., Festool TS 55 Plunge Cut Saw).

1. **Disconnect Power:** Ensure the saw is unplugged from the power outlet to prevent accidental startup.
2. **Access Blade Area:** Refer to your saw's manual for specific instructions on how to safely open the blade guard and access the arbor.
3. **Remove Old Blade (if applicable):** If replacing an old blade, use the appropriate wrench (usually provided with the saw) to loosen the arbor nut. Carefully remove the old blade, noting the direction of rotation.
4. **Clean Arbor:** Clean any dust or debris from the arbor and flanges to ensure a flush fit for the new blade.
5. **Install New Blade:** Place the Festool 496309 blade onto the arbor, ensuring the teeth are oriented correctly for the saw's rotation direction (typically indicated by an arrow on the blade and saw). The

blade's label should face outwards.

6. **Secure Blade:** Reinstall the arbor nut and tighten it securely with the wrench. Do not overtighten.
7. **Verify Installation:** Manually rotate the blade to ensure it spins freely and is properly seated. Close the blade guard.



Image: The Festool 496309 saw blade, designed for solid surface and laminate, shown mounted on a compatible saw, ready for operation.

6. OPERATING INSTRUCTIONS

This blade is optimized for cutting solid surface materials (e.g., Corian, Hi-Macs) and laminate flooring.

- **Material Compatibility:** Ensure the material you are cutting is suitable for this blade type. Avoid cutting metals, masonry, or other inappropriate materials.
- **Saw Settings:** Adjust your saw's depth of cut and bevel angle according to your project requirements. For optimal results with solid surface and laminate, a shallow scoring cut followed by a full-depth cut is often recommended to minimize chipping.
- **Feed Rate:** Maintain a consistent, moderate feed rate. For solid surface materials, a slower feed rate is crucial to achieve chip-free edges. Avoid forcing the blade through the material.
- **Dust Extraction:** Connect your saw to an appropriate dust extraction system to manage sawdust

and maintain a clear view of the cut line.

- **Test Cuts:** Always perform test cuts on scrap material to verify settings and blade performance before cutting your final workpiece.

7. MAINTENANCE

Regular maintenance extends the life and performance of your saw blade.

- **Cleaning:** Periodically clean the blade to remove resin and pitch buildup. Use a specialized blade cleaner and a stiff brush. Ensure the blade is completely dry before storage or reuse.
- **Inspection:** Regularly inspect the carbide teeth for signs of wear, damage, or missing tips. A dull blade can lead to burning, excessive splintering, and increased strain on your saw.
- **Sharpening:** When the blade becomes dull, have it professionally sharpened by a qualified service. Do not attempt to sharpen carbide-tipped blades yourself unless you have specialized equipment and training.
- **Storage:** Store the blade in its original packaging or a protective case in a dry environment to prevent corrosion and damage to the teeth.

8. TROUBLESHOOTING

Issue	Possible Cause	Solution
Rough or Chipped Cuts	Dull blade, incorrect feed rate, improper blade for material, workpiece not secured.	Sharpen or replace blade. Reduce feed rate. Ensure blade is appropriate for material. Secure workpiece firmly. Consider a scoring cut.
Burning of Material	Dull blade, slow feed rate, excessive resin buildup.	Sharpen or replace blade. Increase feed rate slightly (without forcing). Clean blade thoroughly.
Excessive Vibration/Noise	Loose blade, damaged blade, dirty arbor/flanges, worn saw components.	Ensure blade is securely tightened. Inspect blade for damage and replace if necessary. Clean arbor and flanges. Check saw for mechanical issues.
Blade Not Cutting Straight	Dull blade, improper saw alignment, bent blade.	Sharpen or replace blade. Check and adjust saw's fence or track alignment. Replace bent blade.

9. WARRANTY AND SUPPORT

For specific warranty information regarding your Festool 496309 Solid Surface/Laminate Saw Blade, please refer to the warranty documentation provided with your original purchase or visit the official Festool website.

For technical support, service, or to locate an authorized Festool dealer, please contact Festool customer service or visit their official website: www.festool.com.