

InvisiDuck Vent Installation Guide

Introduction

At InvisiDuck, we take pride in offering high-quality, American-made flush-mount HVAC vents designed for seamless integration into any wall or ceiling. Our vents provide a sleek, modern look, eliminating the need for traditional vent covers and giving your home a cleaner, more refined appearance. In this guide, we'll walk you through the process of installing an InvisiDuck flush-mount vent, made right here in the USA, using a 2x4 framing box and spacers for perfect drywall alignment.

Tools and Materials Needed:

- InvisiDuck flush-mount vent (12.125" x 2.125", 1/8" thicker)
- 2x4 lumber for framing the vent box
- 1/8" spacers (for the 2x4 framing box)
- Screws or nails
- Drill and driver
- Tape measure
- Level
- Drywall knife or utility knife
- Drywall tape (mesh or paper)
- Drywall joint compound (mud)
- Putty knife (6-inch and 10-inch)
- Drywall sanding sponge or sandpaper (120-150 grit)
- HVAC duct (size based on vent and system)
- HVAC duct sealant or tape

- Primer and paint (for finishing)
- Paintbrush or roller

Step-by-Step Instructions for InvisiDuck Vent Installation

Step 1: Build the 2x4 Framing Box

1. Measure and Cut the 2x4s: Cut your 2x4 lumber to build the framing box for your InvisiDuck flush-mount vent. The internal dimensions of the box should match the vent's opening, which is 12.125" x 2.125". This will create the perfect space for seamless drywall alignment.
2. Assemble the Box: Use screws or nails to join the 2x4 pieces into a sturdy, rectangular framing box. Ensure everything is square by using a level. Proper framing is key to achieving a smooth, flush finish with your drywall.

Step 2: Install the Framing Box with Spacers

1. Position the Frame and Spacers: Place the 2x4 framing box between the wall or ceiling studs where your InvisiDuck vent will be installed. Use the 1/8" spacers to offset the framing box. This offset ensures that the vent will sit flush with the drywall once it's installed. Remember, these spacers are only for the box, as the vent itself is already 1/8" thicker.
2. Secure the Framing Box: Screw or nail the 2x4 framing box with the spacers in place into the studs. Check that the box is level and properly secured. This will ensure a strong foundation for the InvisiDuck vent, guaranteeing a smooth installation.

Step 3: Install the InvisiDuck Vent

1. Connect the HVAC Duct: Before installing the vent, ensure the HVAC duct is properly connected to the framing box. Align the duct correctly and secure it to prevent air leaks. Use high-quality HVAC sealant or duct tape to seal the connections.

2. Check the HVAC Duct: This is your last opportunity to access the ductwork before the drywall goes up. Double-check that the duct is securely fastened and sealed properly. Ensuring a perfect fit now will prevent any issues with airflow and efficiency in the future.
3. Mount the InvisiDuck Vent: Insert the InvisiDuck vent into the framing box. Since it is 1/8" thicker, it will naturally sit flush with the drywall. Secure the vent by screwing or nailing it to the framing box or studs. Make sure it's level and centered.

Step 4: Install Drywall Around the Vent

1. Cut the Drywall: Measure the 12.125" x 2.125" opening of the InvisiDuck vent and carefully cut the drywall to fit. Accurate cuts will ensure a snug fit around the vent, minimizing the need for additional mudding or patching.
2. Install the Drywall: Install the drywall sheets over the vent area, securing them to the wall or ceiling studs. The InvisiDuck vent should fit perfectly within the cutout, sitting flush with the drywall thanks to the offset from the spacers and the vent's thickness.

Step 5: Fill the Gaps, Apply Drywall Tape, and Mud

1. Fill the Gaps: Fill any gaps between the vent and the drywall using joint compound (mud). This will provide a smooth transition between the vent and the surrounding wall or ceiling. Use a putty knife to ensure the compound fills the gaps evenly. Allow the compound to dry completely before proceeding.
2. Tape the Seams: Apply drywall tape over the seams where the InvisiDuck vent meets the drywall. This is essential for ensuring a seamless, clean finish. Make sure the tape is applied smoothly, covering all gaps.
3. Apply Joint Compound (Mud): After taping, apply a thin layer of joint compound over the tape and vent edges. Feather the mud out onto the drywall using a 6-inch putty knife to blend the seams seamlessly. Let this layer dry, then sand it smooth.

4. Apply Additional Layers: Apply additional layers of mud, feathering the compound out further with each layer. Sand between layers to achieve a perfectly smooth, professional finish. This step is crucial to achieving the clean, modern look that InvisiDuck vents are known for.

Step 6: Prime and Paint

1. Prime the Area: Once the final layer of joint compound is dry and smooth, apply a coat of primer to the vent area. Priming ensures that the surface is sealed and ready for paint, providing a durable finish that will stand the test of time.

2. Paint: After priming, apply paint to the area to match the surrounding walls or ceiling. Two coats of paint may be required to achieve a uniform, high-quality finish. InvisiDuck vents are designed to blend seamlessly into your home's decor, so be sure to select a matching color.

Final Touches

1. Inspect the Installation: Once the paint is dry, inspect the entire installation. Make sure there are no imperfections, and that the InvisiDuck vent is perfectly flush and well-integrated with the surrounding wall or ceiling. If necessary, apply additional mud, sanding, or paint touch-ups.

Congratulations!

You've successfully installed a flush-mount InvisiDuck vent into a 2x4 framing box that was offset with spacers, filled gaps, taped, mudded, and connected to your HVAC system. The vent is now seamlessly integrated into the wall or ceiling, providing a clean, professional finish.

Why Choose InvisiDuck?

- Made in the USA: All InvisiDuck products are proudly manufactured in the United States, ensuring high quality and craftsmanship.
- Seamless Design: Our vents are designed to sit flush with drywall for a sleek, modern look.

- Durable and Functional: Built to last, InvisiDuck flush-mount vents provide both aesthetic and functional advantages for your HVAC system.