STANLEY N105-676

Stanley National N105-676 6-Foot Galvanized Box Rail Instruction Manual

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of the Stanley National N105-676 6-Foot Galvanized Box Rail. This product is designed for use in sliding door systems, offering robust support for doors weighing up to 450 pounds.

The N105-676 box rail is constructed from galvanized alloy steel, ensuring durability and resistance to corrosion. It is engineered to meet ANSI/BHMA A156.14, Grade 2 standards, indicating its suitability for heavy-duty applications.

2. Safety Information

Read all instructions carefully before installation and use. Failure to follow these instructions may result in injury or product damage.

- Always wear appropriate personal protective equipment (PPE), including safety glasses and gloves, during installation.
- Ensure the mounting surface is structurally sound and capable of supporting the combined weight of the rail, door, and any associated hardware.
- Handle the rail with care due to its length and weight to prevent injury.
- Keep children and pets away from the work area during installation.
- Do not exceed the maximum weight capacity of 450 pounds for the door system.

3. Package Contents

- 1 x Stanley National N105-676 6-Foot Galvanized Box Rail

Note: Additional hardware such as hangers, brackets, and end caps are sold separately and are required for a complete sliding door system.

4. Setup and Installation

The Stanley National N105-676 box rail is designed for straightforward installation when paired with compatible brackets and hangers. This rail is suitable for doors weighing up to 450 pounds.

4.1 Required Tools and Additional Hardware (Not Included)

- Measuring tape
- Level
- Drill and appropriate drill bits
- Wrenches or sockets
- Safety glasses and gloves
- Compatible box rail brackets (single or multiple)
- Compatible sliding door hangers
- Fasteners suitable for your mounting surface (e.g., lag screws for wood studs, anchors for masonry)

4.2 Installation Steps

1. **Plan the Layout:** Determine the exact position for your sliding door system. Measure the door width and height, and calculate the required rail length and mounting height to ensure proper clearance and function.
2. **Mark Mounting Points:** The N105-676 rail is pre-drilled at 24-inch on-center (OC) intervals for bracket attachment. Use a level to mark the precise locations for your brackets on the wall or header. Ensure these marks align with the pre-drilled holes on the rail.
3. **Install Brackets:** Securely attach the box rail brackets to the marked mounting points using appropriate fasteners. Ensure all brackets are level and firmly anchored to support the door's weight. Refer to the specific instructions provided with your chosen brackets for detailed installation steps.
4. **Mount the Box Rail:** Carefully lift the N105-676 box rail and align its pre-drilled holes with the installed brackets. Secure the rail to the brackets using the fasteners provided with the brackets. Ensure all connections are tight and the rail is stable.
5. **Install Door Hangers:** Attach the sliding door hangers to the top edge of your door according to the hanger manufacturer's instructions.
6. **Hang the Door:** With assistance, lift the door and engage the hanger wheels into the box rail. Gently test the door's movement to ensure smooth operation.
7. **Install End Stops and Guides:** Install appropriate end stops at the ends of the rail to prevent the door from rolling off. Install floor guides or wall guides as necessary to stabilize the bottom of the door.



Figure 1: The Stanley National N105-676 6-foot galvanized box rail. This image shows the U-shaped channel design with a pre-drilled hole on the top surface for bracket attachment, and the internal track where hanger wheels operate. The galvanized finish provides corrosion resistance.

5. Operating Instructions

Once installed, the Stanley National N105-676 box rail facilitates the smooth horizontal movement of a sliding door. To operate, simply push or pull the door along the track. Ensure that the door moves freely without excessive friction or binding.

If the door experiences resistance, inspect the rail for obstructions, check the hanger wheels for debris, and verify that the door guides are properly aligned.

6. Maintenance

Regular maintenance ensures the longevity and smooth operation of your Stanley National N105-676 box rail system.

- **Cleaning:** Periodically clean the inside of the box rail and the hanger wheels to remove dust, dirt, and debris that can impede smooth movement. Use a dry cloth or a soft brush.
- **Inspection:** Annually inspect the rail, brackets, and hangers for any signs of wear, damage, or loosening. Check all fasteners for tightness.
- **Lubrication:** If the door movement becomes stiff or noisy, apply a small amount of silicone-based lubricant to the hanger wheels and the inside of the rail. Avoid oil-based lubricants that can attract

dirt.

- **Corrosion Check:** Although galvanized for corrosion resistance, inspect the rail in humid or outdoor environments for any signs of rust. Address any surface rust promptly with appropriate treatment.

7. Troubleshooting

Problem	Possible Cause	Solution
Door sticks or is difficult to slide.	Debris in the rail. Hanger wheels are dirty or damaged. Rail is not level. Door guides are misaligned.	Clean the rail and hanger wheels. Lubricate hanger wheels and rail. Check rail level and adjust brackets if necessary. Adjust or replace door guides.
Excessive noise during door operation.	Lack of lubrication. Loose fasteners. Damaged hanger wheels.	Lubricate hanger wheels and rail. Tighten all rail and bracket fasteners. Inspect and replace damaged hanger wheels.
Door sags or is uneven.	Brackets are loose or improperly installed. Mounting surface is not strong enough. Rail is bent or damaged.	Re-secure or reinforce brackets. Reinforce the mounting surface. Inspect rail for damage; replace if necessary.

8. Specifications

Model Number:	N105-676
Brand:	STANLEY National
Length:	6 feet (approx. 1.83 meters)
Material:	Alloy Steel
Finish:	Galvanized (Silver), Powder Coated
Weight Capacity:	Up to 450 pounds (approx. 204 kg)
Bracket Drilling:	24 inches On-Center (OC)
Standard Compliance:	ANSI/BHMA A156.14, Grade 2
Installation Type:	Wall-Mounted
Item Weight:	3.99 pounds (approx. 1.81 kg)
UPC:	038613105676

9. Warranty and Support

For warranty information and customer support regarding the Stanley National N105-676 Box Rail, please

contact STANLEY National directly or refer to the documentation provided at the point of purchase.

You may also visit the official STANLEY National Store on Amazon for additional product information and resources.