

zipUP

UNDERDECK® SYSTEM

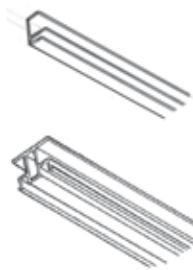
US PATENT 7,810,294 B2

INSTALLATION INSTRUCTIONS



IMPORTANT READ THESE INSTRUCTIONS CAREFULLY BEFORE BEGINNING INSTALLATION OF YOUR Zip-UP UnderDeck® System

ZIP-UP TERMS

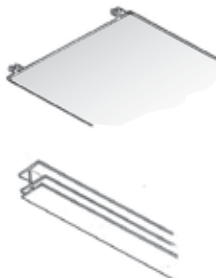


Wall Trim:

The "E" shaped trim that attaches to the walls or joist around the entire periphery.
8' and 12' lengths

Main Rail:

The mounting pieces that will run the length of your room attached to your joists.
8', 12' and 16' lengths



Panel:

The visible surface of your Zip-UP Ceiling System. The panels "Zip" into the rails allowing for easy access to your plumbing and electrical wiring.
1' Width / 8', 12' and 16' lengths

Seam Trim:

Allows for the extension of your ceiling application by capping the ends of your Main Rails that do not end at Wall Trim. The next section is installed the same as the first.
12' length



Pitching Rail:

Used to impart a slope of 1/8 inch per foot in order to properly drain your under deck system in the direction of your gutter. They come in 1 inch and 1/2 inch profiles and are stacked incrementally every 4 feet to provide proper pitch.
8' and 12' lengths

INSTALLS IN 5 EASY STEPS!

1. Attach pitching rails for drainage.
2. Attach wall trim around the perimeter of the deck.
3. Insert the first panel into the wall trim, and seal as instructed in the installation guide.
4. Attach the first main rail to the first panel.
5. Secure the main rail to the pitch rail.

Repeat steps 3-5 across the room.

BEFORE YOU BEGIN

Preparing your deck for simple installations: Take a good look at the area you are finishing. A typical deck will have the joists running perpendicular to the house. You will need to install Pitching Rails that will induce a slope of 2 inches over 16 feet to allow for water runoff. You do this by attaching Pitching Rails to your joists, spread out about every 4 feet with each Pitching Rail getting progressively thicker. For example; the first Pitching Rail, installed at 4 feet from the starting wall would be ½ inch thick, the Pitching Rail at 8 feet would be 1 inch thick, the Pitching Rail at 12 feet would be 1 ½ inches thick, and the Pitching Rail at 16 feet would be 2 inches thick. To make the 1 ½ inch Pitching Rail, simply stack the ½ inch Pitching Rail with a 1 inch Pitching Rail to make the 1 ½ inches. To make the 2 inch Pitching Rail, simply stack two 1 inch Pitching Rails to make the 2 inches. Use the “Self Leveling” method when attaching the Pitching Rails. When stacking Pitching Rails, it may be helpful to tape them together for easier handling (See Figure 3).

Plan your ceiling: You will want to make sure that your ceiling is centered such that you do not end up with a very small Panel (less than 4 inches wide) on either side of your deck. Measure your deck width to start. Since the center of Main Rail to center of Main Rail dimension is 12 1/8 inches, you will need to divide the deck width by this number to determine the amount of Panels you need. If your deck is longer than the length of Panels available, you will need to plan for a seam. You can start from the center of your deck and work to the sides (option 1), or you can start from one wall and work across the deck to the other side (option 2). We recommend option 2.

Estimating materials: To estimate your materials you will start with the wall trim. Add the lengths of the sides of the deck to determine the total feet of Wall Trim needed. The number of Panels will be derived from the width of your deck, taking into consideration your layout calculated in the previous step. The amount of Main Rails for each section equals the number of Panels minus one. For example, if your project is 12 Panels wide, you will need 11 lengths of Main Rails. If the shortest dimension of your deck is longer than the longest Panel available, you will need a seam at the midline of the deck. The total feet of Seam Rail you need is equal to the length of the midline of the deck.

Ceiling Layout: Since the Zip-UP UnderDeck® system is attached to Pitching Rails, you can mount the system parallel or perpendicular to your joists by the orientation of the pitching Rails which are spaced about every 4 feet. **WARNING:** Installing the Zip-UP UnderDeck® System in temperatures below 50° F is not recommended. Making cuts and driving attachments into the product may cause cracks in the product below this temperature.

Additional materials: Use deck screws for attaching your Zip-UP UnderDeck® System. Use 1” to 1 1/2” deck screws with washers to attach the Wall Trim Main Rails, and Seam Trim. Use 3” deck screws to attach the Pitching Rails. Pitching Rails will be needed to induce a slope. A separate gutter system is required to manage water runoff. **WARNING:** Corners and cut edges may be sharp. Wear safety glasses and use due care when handling.

Tools: The tools you will use to install your Zip-UP UnderDeck® System are as follows: tin snips, utility knife, hack saw, tape measure, vinyl siding hole-punch, inline snip punch, and a power drill/screwdriver.

INSTALL SEAM RAIL

Some installations may require the use of a seam. A seam is necessary when the shortest dimension of your deck is greater than the length of your longest Panel. In this case the Seam Trim will be installed in the center of the deck with the gradient sloping away from the seam on either side ending at the gutter system. Trim the Panels so that they are even with the Main Rails. Prep the Panel bead as done in the latter step (Figure 7). Cap the ends of the Main Rails with the Seam Trim (figure

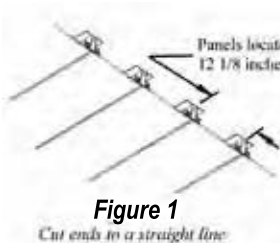


Figure 1

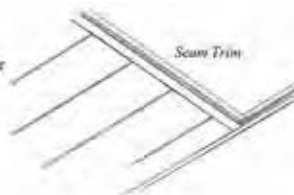


Figure 2



Installed Seam Trim

2). Install the first Main Rail of the next section repeating the steps taken on the previous page in “Installing the First Panel and Main Rail”. Make sure the Panel edges align between the two sections. The Seam Trim holds the end of the new Main Rails the same way your Wall Trim did in the first section, making the seam the highest point of the ceiling. The seam is not sealed and placement of the seam in the middle of a pitched ceiling will not allow water to flow.

NOTE: The Seam Trim MUST be installed after the first section is completed and before the next section is started. This is because the Seam Trim fits between the Main Rail ends of the two sections (Figure 7).

THE ZIP-UP UNDERDECK® SYSTEM IS PITCHED FOR EASY WATER RUNOFF

IMPORTANT: To let your Pitching Rail self level, do not screw into every joist. Space your attaching points out to every second or even third joist, skipping those joists that are highest (figure 3). The pitching Rails are stiff enough for this.

NOTE: Deformation in the surface of the Panels may occur if the Main Rail is not square to the Pitching Rail when attached.

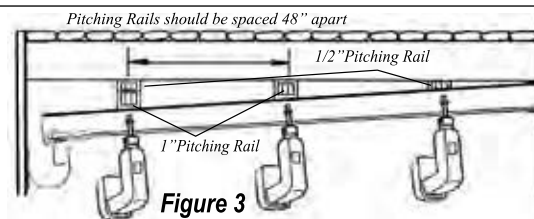


Figure 3

INSTALLING WALL TRIM

Install the Wall Trim along the sides of the deck (figure 4) that will not have a gutter. Attach the Wall Trim to the pitching Rails to ensure the Wall Trim will follow the same slope as the rest of the ceiling (see figure 3). Corners can be mitered, or simply overlapped as indicated in Figure 4 and 5. To make the overlap the Middle flange of both wall trim should be cut out at a 45 degree angle. This will allow the Panel to fit in properly without causing the material bulge. The wall trim used along the gutter edge should be flipped down and installed between the Panel and Main Rail (see figure 6). Allow for the Main Rail to extend beyond the Panel at least ½ inch when installing to allow for attachment screws to secure the Wall Trim. See figure 6.

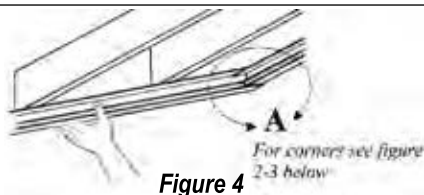


Figure 4

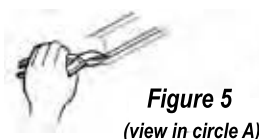


Figure 5

(view in circle A)

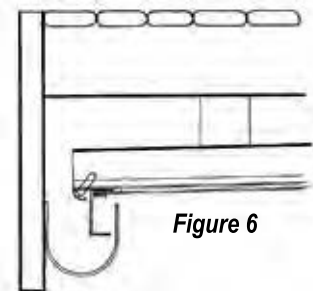


Figure 6

PREPPING YOUR PANEL

There is some important prep work to be done to your Panels before installing them. The first 1 inch of the Zip-UP bead must be trimmed each end of the Panel (see Figure 7). This material can be removed easily with a pair of tin snips or pliers. Carefully cut the bead away from the Panel to ensure proper fit to the Wall Trim. After the Panel is prepped, start at the wall, tucking the end of the Panel into the Wall trim's lower channel. Zip your Panel into the Main Rail as in Figure 8. Before installation, it is desirable to wipe the Panel clean for best aesthetic results.

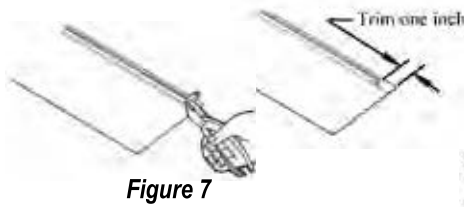


Figure 7

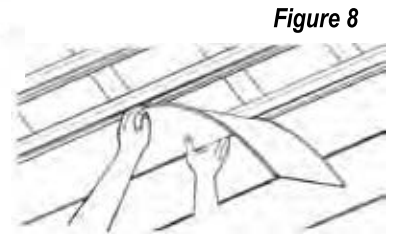


Figure 8

INSTALLING THE FIRST PANEL AND MAIN RAIL

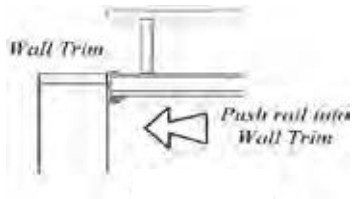


Figure 9

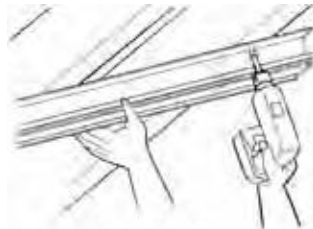


Figure 10

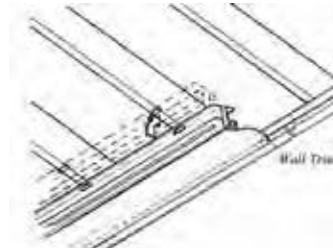


Figure 11

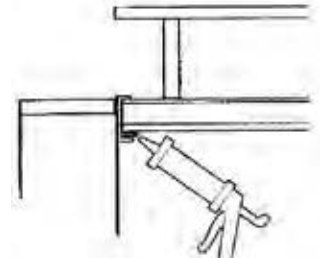


Figure 12

After you have installed the Wall Trim, and have put careful consideration into your layout, you are ready to install the Panels and Main Rails. The first Main Rail installation is **VERY IMPORTANT** to ensure the overall quality of your Zip-UP UnderDeck® System. It is this Main Rail that will be the keystone from which the rest of the Main Rails will be based. There are two methods to put up your Main Rails. Refer to the "Plan your ceiling" paragraph above. The measurement exercise you went through in the "Plan your ceiling" paragraph should have told you where your center Panel will be, and how wide the cut Panels will be along the sides of the deck. You can start with the Main Rail in the center of the deck if you wish, but we recommend starting with a cut Panel at one side of the deck and install your ceiling as you progress across the deck. Cut the first Panel along its length that will be used on the first side of the deck and prep the Panel ends (see Prepping Your Panel above). Fit the cut edge into the Wall Trim. Zip your first Main Rail into the Panel (figure 11), making sure you insert the end of the Main Rail as far into the Wall Trim as possible (figure 9 and 11). The Wall Trim will assist in holding the Rail and Panel up as you make your attachments (figure 10). To attach the Main Rail to the pitching Rail hold the Main Rail up to the pitching Rail and using the vinyl siding hole punch, punch an elongated hole into the top of the Main Rail where the attachment is to be made (figure 11). Rotate the Main Rail up making sure that the Main Rail rests flat against, and is perpendicular to the pitching Rails. Attach with screws (figure 10). Fasten the Main Rail to the pitching Rails at every Pitching Rail. By using the first Panel as a guide for the first Main Rail, you can assure the first Main Rail will be straight and parallel to the side of the deck.

IMPORTANT: When attaching the Main Rails to the pitching Rails, **DO NOT OVER TORQUE THE SCREWS** (see Figure 13). By leaving a small amount of play between the screw head and the Main Rail, the Main Rail will be free to expand and contract with the change in weather. Make sure the screws with washers are centered in the elongated hole, so the Main Rail can slide and contract

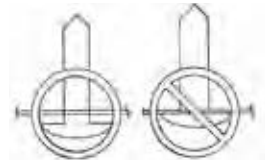


Figure 13

NOTE: to ensure a proper water tight seal put a bead of silicone caulk into the Wall Trim only where the cut edge of the Panel is inserted. (Figure 12).

INSTALLING THE SECOND PANEL AND MAIN RAIL

To install the second Panel and Main Rail, zip-up the next Panel into the first Main Rail, making sure the cut end of the Panel is inserted into the Wall Trim. Next, zip the second Main Rail into the Panel, again making sure the ends of the Main Rail are captured firmly by the Wall Trim (Note that the first Main Rail will hold the assembly up). Rotate the Main Rail and Panel up to the ceiling joists and make your attachments as established above.

REMAINING RAILS AND PANELS

Proceed across your deck, installing Panels and Main Rails in the same way.

INSTALLING A GUTTER SYSTEM

Once the Zip-UP UnderDeck® System is in place, a gutter system can be installed. It is recommended to purchase the type of gutter with the strap that attaches underneath the gutter so that the gap between the gutter and Zip-UP UnderDeck® System is minimized for appearance.

GUTTER INSTALL TIPS

There are two ways to finish the open end of the system from which the water will drain off into a gutter (see photos):

1. Leaving the ends uncapped, simply run a bead of PVC compatible silicone caulk approximately an inch to two inches away from the ends of the decorative (downward facing) side of the panels. This will help catch any water that may wish to run back ward, and insure it falls into the gutter.
OR
2. Trim the ends of the panels and rails of the open section so that they are even. Take a piece of wall trim and turn it upside down, so that ends of panels are captured by the lip of the wall trim, (the bead on the ends of the panels will have to be nipped back on this side as well) while the flat "back" part of the wall trim faces toward the gutter. This will create a "water fall" effect and help insure that the water does not run backward along the panel, but rather falls more directly into the gutter. Seal along the edge of the wall trim the same way you did for the rest of the deck.



TRIMMING OUT THE DECK

Once the Zip-UP UnderDeck® System and your gutter system is in place. It is recommended to trim out areas where a gap exist that might allow small animals (such as birds) to enter between the Deck and Zip-UP UnderDeck® System.

THERMAL EXPANSION

The Zip-UP UnderDeck® System is made of high quality PVC material. PVC will contract and expand with severe temperature changes. It is recommend to allow for the expansion of the Zip-UP UnderDeck® System by punching elongated holes in the Main Rails with a vinyl siding hole punch before making the attachment. Use screws with washers and only use enough torque to secure the Main Rails to the joist yet allowing for movement of the Main Rails for thermal expansion.

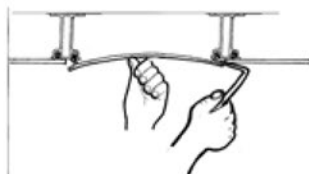
PAINTING

Requirements: Your Zip-UP UnderDeck® System may be painted only with latex paint. For best results, always prime before painting.

Panel removal: Painting over Panel joint lines may cause difficulty for Panel removal. Removal of a Panel that has been painted over may cause the paint to chip or flake requiring touch up.

PANEL REMOVAL

Once the Zip-UP UnderDeck® is in place, it may be necessary to remove a Panel to access plumbing or wiring. To remove a Panel, simply push up in the center of the Panel to be removed using a pry bar or the claw part of your hammer pry the exposed Panel edge down one side at a time. Once the seal of the Panel is broken, the Panel will unzip.



Push panel in center to expose
Edge for pry-bar access



Always remove panel
From the center

STORAGE

To Store your Zip-UP UnderDeck® System, while you wait for installation, it is important to lay the components on a flat surface. If the Zip-UP UnderDeck® System has been stored in severe cold temperatures, it will be necessary for the components to warm to at least 50° F before you will be able to install.

25-Year Limited Warranty

MP Global Products, LLC ("Manufacturer") warrants that its Zip-UP Ceiling System ("Product") is free from defects in manufacturing, materials and workmanship for a period of 25-years from the date the Product was originally purchased (the "Limited Warranty Period"). Manufacturer further warrants that the Product will snap together as designed for the limited warranty period. This limited warranty is extended to the original purchaser of the Product (the "Owner") and is subject to the exclusion and limitations provided below. This warranty is not transferable during the Limited Warranty Period.

IN THE EVENT OF A DEFECT, MALFUNCTION OR OTHER FAILURE OF THE PRODUCT (NOT OTHERWISE EXCLUDED BELOW), THE MANUFACTURER WILL REMEDY THE DEFECT OR FAILURE WITHOUT CHARGE TO THE CONSUMER PROVIDED NOTICE OF THE WARRANTY CLAIM IN THE MANNER PROVIDED BELOW IS RECEIVED BY MANUFACTURER WITHIN THE LIMITED WARRANTY PERIOD. THE REMEDY FOR ANY SUCH DEFECT, FAILURE OR MALFUNCTION IS LIMITED, AT MANUFACTURERS OPTION, TO THE REPAIR, REPLACEMENT, OR REFUND OF THE PURCHASE PRICE OF THE PRODUCT. THE REPAIR OR REPLACEMENT OPTIONS ARE LIMITED TO THE REPLACEMENT COST OF THE PRODUCT.

THIS LIMITED WARRANTY IS FURTHER SUBJECT TO THE CONDITIONS, LIMITATIONS, AND EXCLUSIONS PROVIDED ON THE REVERSE SIDE.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS THAT VARY FROM STATE TO STATE IN THE UNITED STATES OF AMERICA.

5 Year Limited Fade Warranty. MP Global Products, LLC ("Manufacturer") warrants that its Zip-UP Ceiling System ("Product") will not fade for a period of 5 years from the date the Product was originally purchased.

CONDITIONS/EXCLUSIONS TO THE LIMITED WARRANTY

THIS 25-YEAR LIMITED WARRANTY IS FURTHER MADE SUBJECT TO THE FOLLOWING CONDITIONS AND EXCLUSIONS, PLEASE READ THE FOLLOWING CAREFULLY:

*HURRICANE RATING: The system should be secured with no less than a 1.25" deck screw and a #6 washer, every 16" on center, on both sides of the rail. For an under-decking application, this will require a pitch rail/spacer every 16"s rather than every 4 feet. Slope/pitch for water drainage remains 1/2" fall for every 4'.

1. Required Installation. To be covered by this Limited Warranty, the Product must be installed following the Manufacturer's recommended installation instructions.
2. Damage Coverage. This warranty only covers damage caused to the Product.
3. Limitation on Causes of Defects Covered Under Warranty. This limited warranty covers only defects in manufacturing materials or workmanship and does not cover defects, malfunctions or failures resulting from any other cause including, without limitation: (i) improper or inadequate installation; (ii) defects caused by fire, flood, tornado, hurricane*, acts of God, extraordinary environmental conditions, riot or other civil insurrections, or acts of war or conflict; (iii) defects caused by abusive conditions or accidents, such as but not limited to cutting or severe impact; (iv) installation or use of the product in any manner not recommended by the Manufacturer including, but not limited to, installation under uneven ceiling structures; and, (v) defects caused by improper or inadequate maintenance, cleaning, use or care of the Product including without limitation the use of improper or un-recommended cleaning solutions or cleaning practices.
4. Required Procedures to Submit a Warranty Claim. In order to obtain performance of any warranty obligation, the Owner must do the following:

Contact the Manufacturer at the toll free number listed below or by mail at the address listed below, and request a claim form. Complete and return the claim form to the Manufacturer within the Limited Warranty Period. The phone number and address to contact the Manufacturer for these purposes is as follows:

MP Global Products, LLC Attention: Zip-UP Warranty Claim Department
2500 Old Hadar Road P.O. Box 2283
Norfolk, Nebraska USA 68702-2283
Phone: (888) 379-9695 Fax: (402) 379-9737

UNDER NO CIRCUMSTANCES SHALL MANUFACTURER BE LIABLE TO THE OWNER, OR ANY OTHER PERSON FOR ANY CONSEQUENTIAL, INCIDENTAL, ECONOMIC, DIRECT, INDIRECT, GENERAL, OR SPECIAL DAMAGES ARISING OUT OF ANY BREACH OF WARRANTY, EXPRESS OR IMPLIED, UNDER THIS CONTRACT.

SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.



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