

TIFFIN WAINSCOTTING WALL PANELS

INSTALLATION INSTRUCTIONS

NO LIP CONSTRUCTION

GENERAL

1. The purpose of the Tiffin wainscoting wall panels is to provide protective wall padding and to provide attractive wall padding.
2. The standard panel sizes are 2'x 5' and 2'x 6' with no lip construction.
3. The installation procedures for installing wall panels are similar to those used in the paneling of an office or basement area.
4. The panels are constructed with a 7/16" oriented strand board wood backing, foam is glued to the face of the backing material, and vinyl fabric covers the face and edges of the panels. The vinyl fabric is stapled to the back of the wood backing.

INSTALLATION OF THE PANELS

1. 1"x 3" furring strips are attached to the walls to be covered. Three furring strips for a 2'x 5' panel, and four furring strips for a 2'x 6' panel.
2. The wainscoting panels are nailed to the furring strips.
3. Cut outs for wall mounting such as electrical boxes are done by the installer.

MATERIALS SUPPLIED

- Standard Wall Panels, 2'x 5' or 2'x 6'
- 1/2" "H" clips (2 per panel)
- Cut out welting material (same color as panels)

TOOLS REQUIRED

- Jig saw

- Circular saw with combination blade
- Stapler with ½” staples, *air stapler is suggested

For Furring Strip Installation

- Electric dry wall screw driver for sheet rock wall installation (Ex. Milwaukee #6758-6)
- Air nail gun for panel fastening (Ex. Paslode Air Gun #MU212F)
- Air compressor for air nail gun
- Normal carpentry tools for measuring, etc.

SUPPLIES TO BE SUPPLIED BY THE INSTALLER

- Furring strips 1”x 3”
- Dry wall screws or Tapcon screws for installing furring strips
- Finishing nails, 4d 1 ½” for fastening panels

INSTALLATION OF THE FURRING STRIPS

1. The layout for the attachment of the furring strips is shown on the following sketches:
Enclosure #1- 2’x 5’ wall panels, three furring strips
Enclosure #2- 2’x 6’ wall panels, four furring strips

PLEASE NOTE THAT THE TOP EDGE OF THE TOP FURRING STRIP TO THE BOTTOM EDGE OF THE BOTTOM FURRING STRIP IS THE SAME DISTANCE AS THE HEIGHT OF THE WALL PANEL.

2. Method of attachment of 1’x 3’ furring strips is dependant upon the wall construction. The following is suggested.
 - a. Sheet rock studded walls- Dry wall screws 2 ½” long. Use two (2) screws per stud, every 16”, plus two (2) at each end. An electric drywall screwdriver (Ex. Milwaukee #6748-6) is suggested for driving these screws.
 - b. Cement Block Walls- Tapcon Screws 3/16”x 1 ¾”. Use screws on 18” centers plus one screw at each end of the furring strip. An impact drill is required for drilling pilot holes; and a screw gun with Phillips driver for driving screws is required.
3. The distance from the floor to the bottom edge of the bottom-furring strip determines the height of the wall panels. For activities where the athlete is on his/her feet such as behind a basketball hoop, 12” should be considered to give as much height to the protected wall area. For floor activities such as wrestling, 4” is suggested. The user should make the final decision regarding the height from the floor.

INSTALLATION OF THE WALL PANELS

1. The wall panels are toe nailed from the edge through the wood backing into the furring strips with 4d 1 ½” galvanized steel finish nails. An air nail gun, (Ex. Paslode Air Gun, Model #MU212F) with Plaslode finish nails (F16-1 ½”) is suggested.
2. The nailing pattern is shown on Enclosure #3.
3. On the basis of installing panels from left to right, the following is the installation sequence.
 - a. First Panel
 1. Nail first panel at top, bottom, and left sides as shown on Enclosure #3.
 2. Slit fabric on the right edge next to wood backing at the two center furring strips, and slide on two (2) ½” “H” clips.
 3. Nail the right side at the two furring strips.
 - b. Second Panel
 1. Slit fabric on the left edge next to wood backing in line with the two center-furring strips, and slide panel onto the “H” clips on the right edge of the previous panel.
 2. Nail the second panel at top and bottom as shown on Enclosure #3.
 3. Slit fabric on the right side of the panel at the two furring strips.

Repeat this operation sequence on all of the panels to be installed.

CUTTING SPECIAL SIZE PANELS

1. Typically at the end of the wall you will need a special width panel which you will make by modifying a standard 2’ wide panel.
2. The procedure for cutting panel to width is as follows.
 - a. Remove sufficient staples on the side, top, and bottom so that you can fold back approximately 10” of the vinyl cover.
 - b. Mark cutting line 19” from edge to be used.
 - c. Cut panel, wood & foam with circular saw/combination blade.
 - d. Recover panel by re-stapling with ½” staples; cut off excess vinyl fabric.

CUTTING CORNER PANELS

1. Wrap-a-round corners are fabricated from the standard 2’ wide panel.

2. See Enclosure #4 for preparation of the wall and making the corner panel. The steps are as follows:
 - a. Run vertical furring strips between horizontal strips at corner.
 - b. Measure the distance from the last panel to the corner. By this example, -10”.
 - c. Draw a line on back of the panel 10” from edge.
 - d. From this line, draw a second parallel line 2 ½” from the first line.
 - e. Remove staples at each end near line.
 - f. With circular saw set at a 45degree angle cut on both lines to remove wood and foam to a depth of 75% of the panel thickness to form a V-cut.
 - g. Re-staple the vinyl fabric at the top and bottom, and cut the fabric in the center of the V-cut at top and bottom.

3. Install corner pad as follows.
 - a. Slit fabric on the left edge next to wood backing in line with the two center-furring strips, and slide panel onto the “H” clips on the right edge of the previous panel.
 - b. Nail the left side of the corner panel a top and bottom. Bend the corner panel around the corner and nail at top and bottom. As you bend panel, tuck in fabric at the top and bottom corner.
 - c. Slit fabric on the right edge next to wood backing at the two center furring strips, and slide on two (2) ½” “H” clips.
 - d. Nail the right side of the corner pad to the two furring strips.

MAKING CUT OUTS

1. Cut outs will have to be make for access to electrical boxes, switches, etc. Cut outs may be internal to the panel or may be at the panel edge.

2. Internal cut outs, see Enclosure #5.
 - a. On back of panel, locate and mark cut out desired.
 - b. With jig saw, cut hole; remove wood and foam, but do not cut fabric.
 - c. Cut the fabric on diagonal lines from corner to corner.
 - d. Pull the four (4) triangular pieces of vinyl fabric back through cut out and staple to the wood backing.
 - e. Finish opening with the welting included in shipment as follows.
 1. Cut welting to length. The length is the sum of the opening.
 2. Insert welting in opening with the beaded edge to the front side of the panel and cut so that you will have four (4) flaps that will fold back for stapling to the wood backing.

3. Secure the welting to the inside of the cut out by gluing in place with HH-66 adhesive.

PANEL EDGE CUT OUTS

1. Panel edge cut outs are required when the edge of a standard panel overlaps over a wall mounting such as an electrical panel. The procedure for making a panel edge cut out is as follows.
 - a. On back of panel, locate and mark cut out desired.
 - b. Remove staples so that the cover can be folded back out of the cut out area.
 - c. With circular saw, cut out wood and foam to cut out lines.
 - d. Cut fabric so that it will fold back over wood backing by 1" and staple to the wood backing.
 - e. Finish opening with the welting included in shipment as follows.
 1. Cut welting to length. The length is the sum of the opening.
 2. Insert welting in opening with the beaded edge to the front side of the panel and cut so that you will have two (2) flaps that will fold back for stapling to the wood backing.
 3. Secure the welting to the inside of the cut out by gluing in place with HH-66 adhesive.

CLEAN UP AT END OF JOB

Finger marks and any soil marks can be easily removed with household cleaner such as 409 All-Purpose Cleaner and water.

FOR FURTHER INFORMATION, PLEASE CALL TIFFIN ATHLETIC MATS, INC.
(800) 843-3467

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