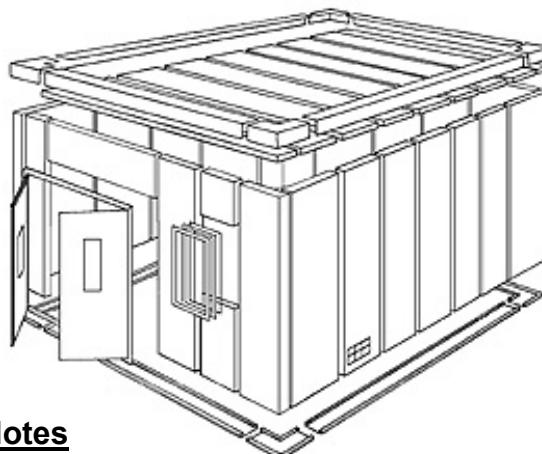


INSTALLATION INSTRUCTION FOR ACOUSTIC ENCLOSURES



Planning Hints and Notes

1. Review the erection drawings prepared specifically for the job.
2. Bill of materials contains complete list of parts supplied including panels, trimsetFlashing) and miscellaneous hardware.
3. Before the truckload of panels arrives, clear the area near where the panels are to be erected so they can be conveniently stored. To save time and labor in handling the panels, move panels directly from the truck to this area. Make sure the necessary material handling equipment is available, including lifts for getting the panels off the truck and to the proper floor and carts to move the panels across the floor to the erection site.
4. When panels are stored near the erection area, stack them on end and lengthwise. This will save time moving and restacking panels as the housing is erected. If more than one housing is involved, separate and stack panels by drawing number, which can be found on the label on the end of each panel.
5. Assemble a complete set of required tools and equipment to complete the panel system installation.

Depending on the nature of the job, the following items may be required:

- Welding and cutting equipment
- ladder
- extension cord
- drill masters and self-drilling screw driving head
- duct lifts
- portable lighting
- masonry drills
- metal cutting saws
- steel tape measure
- come-a-long
- sealer gun

General Notes

1. Where sealer is called for in the erection of the panel system, use a 1/4-inch bead to properly seal joints. Unger will supply the specified sealer with each panel system shipment. This sealer is used at the base channel, outside trim, and panel joints.

Unger will provide the quantity of sealer approximately equal to the total linear feet of all panel system trim, roof panel joints, and wall joints divided by 20. This amount should be adequate, but there is no guarantee that the quantity will be enough for any specific job or customer.

2. All base channel and outside trim is supplied in 10 foot lengths, which have to be cut to size during installation. Sheet metal screws are supplied with each panel system.

Unger will provide a number of #10 x 3/4-inch sheet metal screws equal to approximately 5 times the total lineal feet of all panel system trim and base channel. This number should be adequate, but there is no guarantee that it will be enough for any specific job or customer.

Step One:

Installation of Base Channel

- 1.A. Check curb and/or base to be sure it is square, level, and in accordance with approved dimensions. Problems may arise later if the curb is not properly installed.
- 1.B. Apply two parallel beads of specified caulking on curb, spacing it so both beads will be under base channel when it is placed on the curb. Do not apply more sealer at one time than will be covered by base channel within 15 minutes (see **dwg no: STD-AP-1-004**).
- 1.C. Starting at the corner where the first panels will be erected, miter the base channel, forming a corner and secure the channel with RAWL-lugs on 12 to 18-inch centers (see **dwg no: STD-AP-1-004**).

The drive nail centerline is also the centerline of the base channel. RAWL-plugs (or anchor bolts) **must** be located on this centerline so they will not be under an edge of a panel. If anchor bolts are used, locate 5/16-inch diameter anchor bolts on 12 to 18-inch centers with 3/8-inch bolt projection above the curb. Locate bolts as curb is being poured.

The base channel is furnished in 10-foot lengths, to be cut as necessary in the field. Sections of base channel should fit tightly together.

Step Two:

Erection of Wall Panels

- 2.A. Starting at this same corner as base channel, apply caulking along the interior outside edge of the base channel as shown on dwg **STD-AP-1-004**.
- 2.B. Insert panels that form the first corner into base channel (see **dwg no: STD-AP-1-003**).
- 2.C. Secure base channel to corner panels with #10 sheet metal screws or Teks #4 screws (see **dwg no: STD-AP-1-003**).
- 2.D. Cut outside trim for the first corner. Apply caulking to the outside trim. Position the trim and attach with #10 sheet metal screws (see **dwg no: STD-AP-1-003**).
- 2.E. From this corner, run a tape measure along the base channel for the two walls that extend outward from this corner, and place a mark on the outside edge of the base channel at all panel width increments. Use panel dimensions on the erection drawings.
- 2.F. In the following manner, erect wall panels for the two walls extending outward from this corner :
 - 2.F.1. Place sealer on curb for the next section of base channel and install base channel. Apply sealer along the interior outside edges of base channel.
 - 2.F.2. Place caulking on inside face of the groove channel of each panel (see **dwg no: STD-AP-1-002**).
 - 2.F.3. Insert tongue panel into base channel and seat into previous groove panel with come-a-long.
All panels must be properly sealed to permit a proper fit and thereby minimize the possibility of growth in the length or shrinkage of the wall (see **dwg no: STD-AP-1-002**).
 - 2.F.4. As each panel is installed, the mark previously placed on the base channel (step 2.E.) will verify the location of each panel joint. If a panel joint does not line up with a mark, double check panel dimensions and panel markings with erection drawings and make necessary corrections.
 - 2.F.5. As each wall (and partition) panel is installed, secure the base channel to each wall panel with sheet metal screws.

- 2.G. Follow the erection sequence on the erection drawings and install all wall and partition panels by repeating steps 2.F.1. through 2.F.5.

Door Panels

Seat panels in the same manner as regular panels.

Step Three:

Erection of Roof Panels

- 3.A. Review the roof plan on the erection drawings and locate roof panels and joining H strips (if required).
- 3.B. Following the erection sequence on the erection drawings, place caulking on the inside of the groove channel of each panel.
- 3.C. Completely seat tongue roof panel into adjacent groove roof panel.
- 3.D. If joining H strips are shown on the erection drawings, place four beads of sealer in each H strip and secure to roof panels with #10 sheet metal screws .

Step Four:

Installation of Trim

- 4.A. After all wall and roof panels have been installed, secure outside trim corners as shown On **dwg no: STD-AP-1-003**. Sealer must be placed under trim corners where shown.
- 4.B. Cut all outside trim (panel corners and panel-to-roof corners) to proper dimensions, apply sealer, position trim, and attach with #10 sheet metal screws. Trim is shipped in 10-foot lengths to be cut in the field as required.
- 4.C. After **all** outside trim has been installed, finish housing by installing inside trim at wall-to-wall and wall-to-roof corners (see **dwg no: STD-AP-1-003**). The inside trim is shipped in 10-foot lengths to be cut in the field as required. Contractor must drill and anchor inside trim at all tongue-and-groove panel joints and at all internal panel stiffeners.

Special Assembly Considerations

Factory Openings

If a factory opening is required, a channel will have been installed in the panel edge adjacent to the opening to retain the insulation .

Steel Requirements

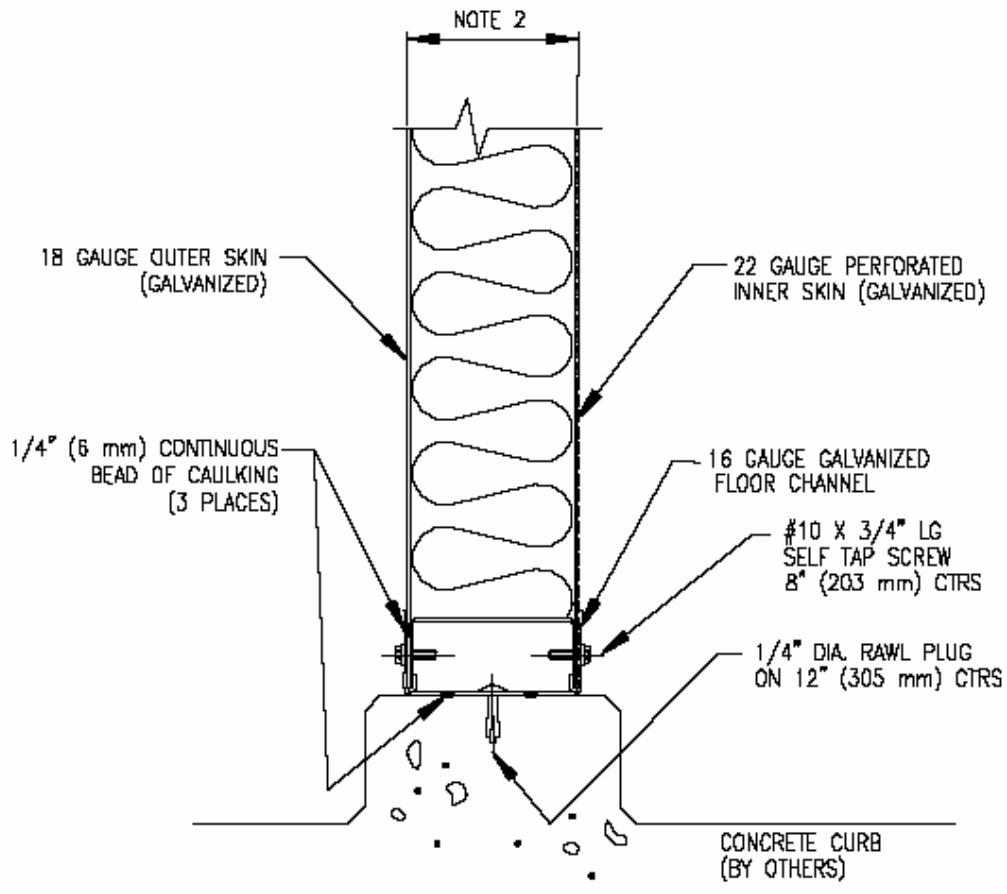
If roof spans are greater than 12 feet, structural steel bracing may be required. If so, the structural steel will be detailed on the erection drawings and should be installed according to the instructions.

Installation Sequence

1. Locate base channel
2. Set corner panels
3. Install wall, partition and door panels
4. Add wall trim - outside and inside
5. Structural steel (as required)
6. Add roof panels
7. Add roof trim - outside and inside
8. Completed enclosure

NOTES

1. STANDARD MATERIAL TYPES AND GAUGES ARE SHOWN.
OTHERS AVAILABLE ON REQUEST.
2. STANDARD PANEL DEPTH IS 4" (102 mm). OTHER DEPTHS ARE AVAILABLE.

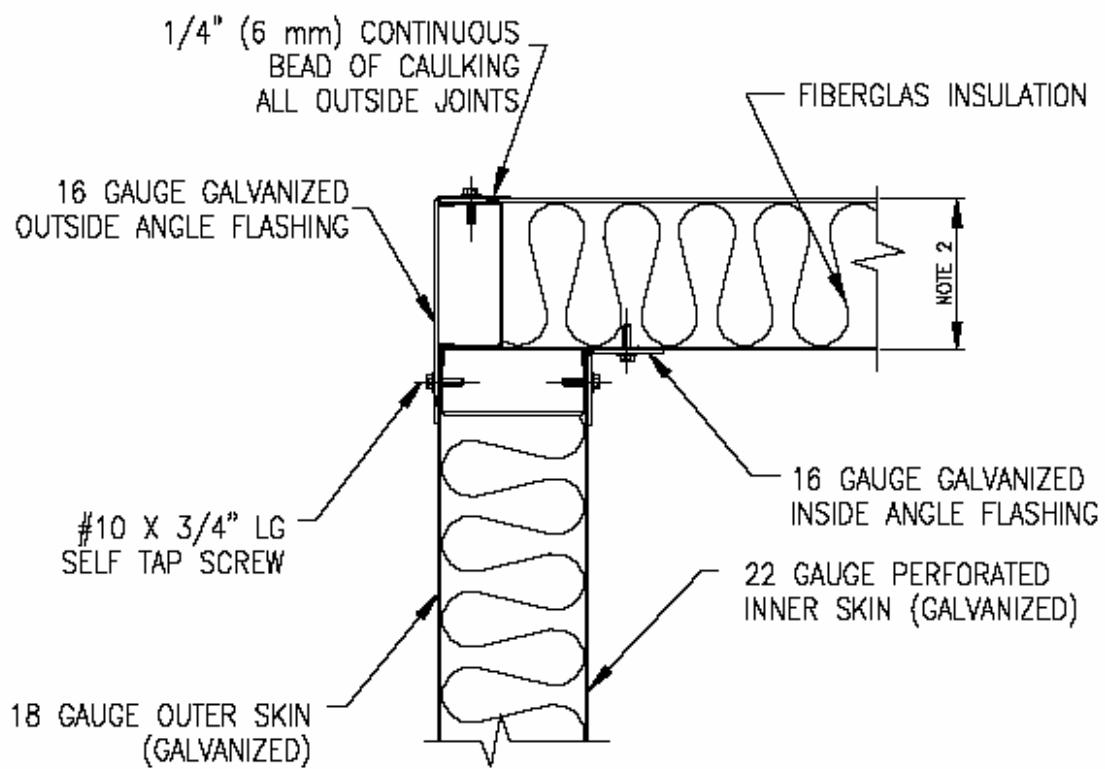


TYPICAL
PANEL TO CURB
CONNECTION

DWG NO: STD-AP-1-004

NOTES

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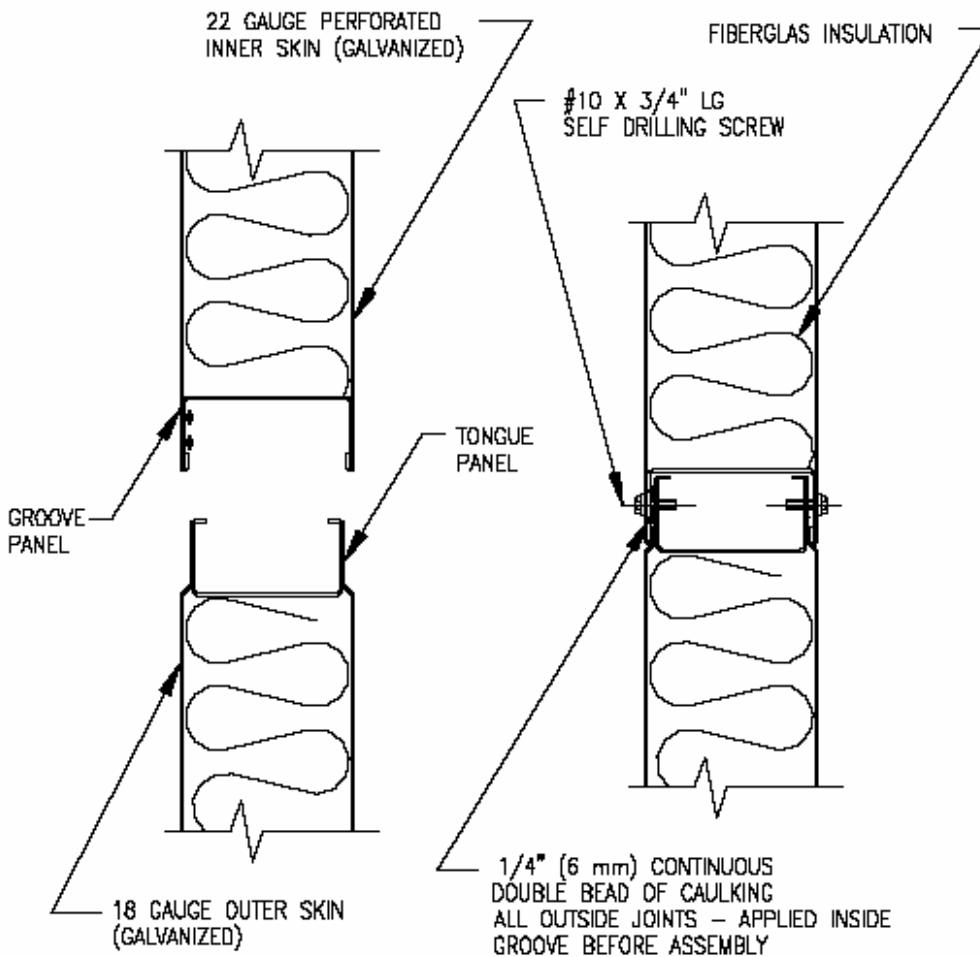


TYPICAL 90 DEGREE
PANEL CONNECTION

DWG NO: STD-AP-1-003

NOTES

1. STANDARD MATERIAL TYPES AND GAUGES ARE SHOWN.
OTHERS AVAILABLE ON REQUEST.
2. STANDARD PANEL DEPTH IS 4" (102 mm). OTHER DEPTHS ARE AVAILABLE.



TYPICAL TONGUE AND GROOVE
PANEL CONNECTION

DWG NO: STD-AP-1-002