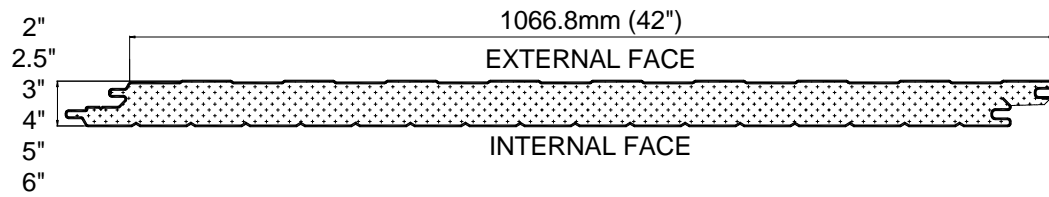
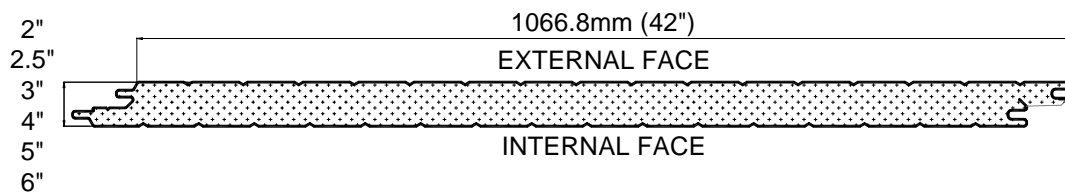


2.4 GALVATHERM OS

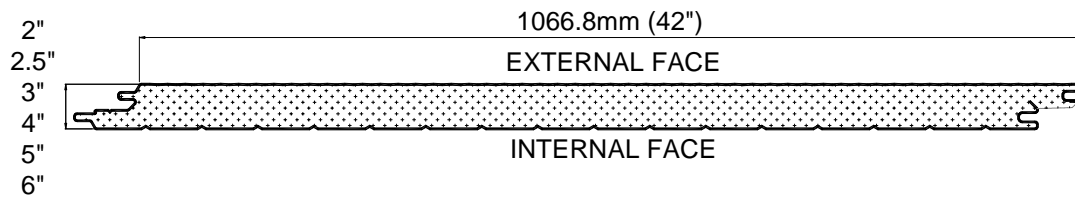
External face: Mesa



External face: Shadowline



External face: Micro Rib



5.0 UNLOADING THE PANELS

5.1 ARRIVAL ON SITE

- 5.1.1 Galvamet panels are carefully bundled and shrink wrapped to prevent damage during shipping. The transportation company is responsible for delivering these components undamaged.
- 5.1.2 When shipment is received, check each item against the bill of lading for quantity, length, damage, etc. If a shortage or damage is found, make sure a notation of it is made on the bill of lading and signed by the driver. It is your responsibility to make any damage claim.
- 5.1.3 Galvamet panels will generally arrive in large shrink-wrapped bundles on flat bed trailers varying in length up to 40 ft., and from 1 to 26 pieces. Consequently, the bundles should be unloaded by mechanical means.

5.2 UNLOADING WITH A FORK LIFT

- 5.2.1 All bundles of panels are reinforced at specified lifting points to prevent damage while lifting. These lifting points are marked on the bundles. On the bundles that are longer than 20 ft., two or more lifting points may be specified.

NOTE: extreme care should be taken to avoid bumping the panels when lifting and maneuvering.

5.3 UNLOADING WITH A CRANE

- 5.3.1 Crane lifting of the individual bundles should be done by reinforced nylon straps (or similar), located at a minimum of two points along the bundle. Suitable stiff inserts should be located at the top and bottom of the bundles at the sling positions to protect the edges of the lower panels.
- 5.3.2 If the bundles are longer than 15 feet it is suggested that a properly designed and fabricated lifting beam be used. (Spreader Bar) Extreme care should be taken to avoid bumping and dropping of the bundles when lifting.

5.4 MANUAL UNLOADING

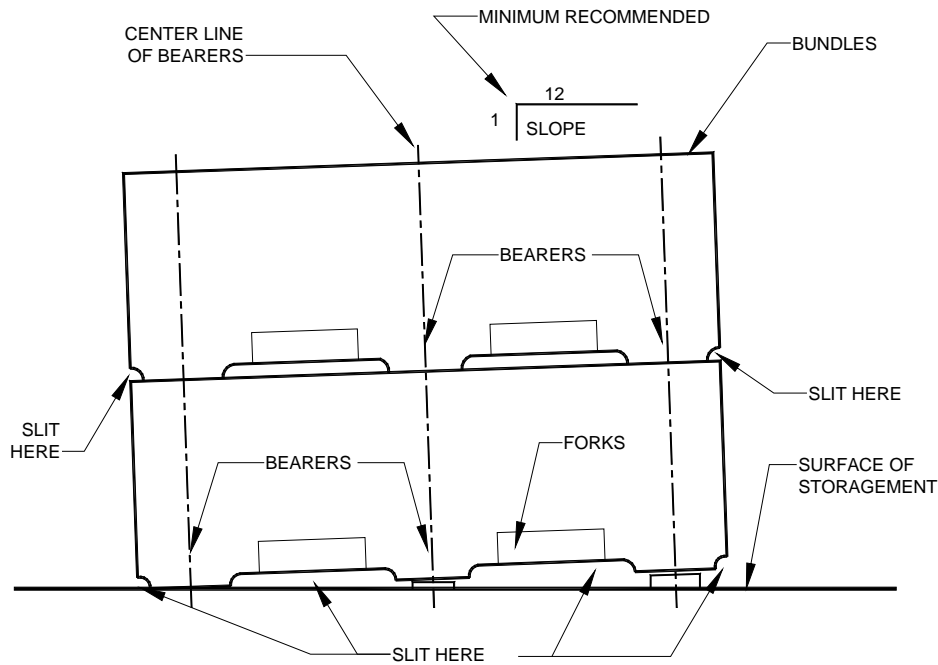
- 5.4.1 On small projects, unloading of the panels may be carried out by hand. NOTE: special care should be taken when handling. Always lift the panels when removing from a bundle, never drag them.
- 5.4.2 Never lift the roof panel (Hi-Rib) by the unfilled rib and do not lean on it. Turn panel on edge prior to lifting.
- 5.4.3 It is important When unbundling panels at the site be sure to stack them in the same manner as received from the factory.

Important Note: All personnel doing these procedures must wear all times the proper outfitting and all necessary body protection in order to avoid any personal injuries.

6. STORAGE INSTRUCTIONS

6.1 SITE STORAGE: PANELS NOT REQUIRED FOR IMMEDIATE USE

- 6.1.1 If the panels are not required for immediate use, they should carefully be moved to a recognized storage area, preferably under cover. The bundles should be stacked on a firm, level surface clear of debris. Bundles should be stacked no more than two high, square and true.
- 6.1.2 If the bundles cannot be stored in a covered place, it is necessary to cut the outside plastic wrapping and arrange the bundles in a way that they are inclined at least 5%, so water does not accumulate, and moisture build up between panels is avoided. The cut should be made on the side of the bundle and be continuous. See figure 1 below:



6.2 SITE STORAGE: PANELS FOR IMMEDIATE USE

6.2.1 If the panels are to be used immediately, the bundles should be placed at pre-planned strategic locations around the perimeter of the building, as close as possible to the planned work areas. Consult the panel layout drawing to determine these locations. It is recommended that the bundles be placed in such a way as to avoid undo site maneuvering.

6.2.2 On roof, All panels must be properly tight to main structure in order to avoid personal injuries and damages.

7.0 ATTACHMENTS, TRIM, ETC.

7.1 Be extremely careful to unload and store the metal trims screws, sealant, etc. It is important to guard against damage or misplacement of the accessories.

7.2 All these accessories must be stored in a covered place on the job site not exposed to the elements.

8.0 PROTECTIVE PLASTIC FILM

8.1 All Galvamet panel exterior finished and metal trims have a temporary protective plastic film. This plastic film helps prevent damage in shipping and handling.

8.2 This protective plastic film is not to be removed until panel and metal trims are ready for erection on job site.

8.3 Protective plastic film is not to be exposed to direct sun for more than a week. This may cause the plastic film to bond to the metal panel face and may be more difficult to remove. Therefore, it is very important to follow the section 5.0 instructions and store the panels and accessories in a dry, covered place.

8.4 Remove the protective plastic film from the panel corner and pull off at a 45 degree angle. This is the best way to remove the film.

8.5 The plastic must be removed from both panel faces and metal trims.

8.6 If the metal face remains sticky after the plastic is removed, clean with a soft cloth and water.

9.0 PANEL CUTTING PROCEDURES

9.1 Panels may be cut prior to installation or cut in place. Galvamet recommends cutting the panels prior to installation to minimize panel damage and to insure a better fit.

9.2 Galvamet recommends the use of a blade saw. To perform a good cut, follow steps 9.3 to 9.6 shown below. If the panel's thickness is greater than the saw's, cutting should be done in two steps, cutting one side at time, following steps 9.3 to 9.9 and important notes 1 to 3

9.3 Measure the distance or area to cut and mark a line on the panel surface.

9.4 Use adhesive tape on both sides of the cutting line to protect panel surface.

9.5 Recheck measurements and proceed with cutting operation.

9.6 Clean off any metal chips left on panel after cutting operation. If any metal chips remain in the foam, these can be removed by hand.

9.7 If necessary, turn panel over and follow the same steps on this side of the panel.

9.8 Cut foam between metal sheets using a sharp knife.

9.9 File or sand off any burrs on the metal after cutting. The panel is now ready to be installed.

IMPORTANT NOTES:

- 1 Clean off any metal chips left on the metal surface of the panel. These may rust and damage the painted surface.**
- 2 A circular saw should not be used, as the friction between the cutting disk and the panel creates heat, damaging the painted surface of the panel.
- 3 On wall elevations with two or more slopes, the panels can be installed and cut in place or they may be marked and cut prior to installation.
- 4 In the case of windows and/or doors, increase all dimensions by 1/4 of an inch for a final adjustment using the corresponding trims to the exact size required.

10.0 THERMAL BREAKS

10.1 Thermal breaks for cold storage applications are necessary to stop temperature conductivity in the panel by cutting the interior metal skin; Consult your Galvak Representative for a specific detail or consult Drawing details in the manual

11.0 PANEL FASTENING

- 11.1 If irregularities in any of the adjacent materials are found, these should be reported to the project superintendent for correction prior to panel installation.
- 11.2 Panels should be plumbed and squared along their entire length.
- 11.3 Each panel has a female edge and a male edge for a tongue and groove joint. A continuous bead of sealant must be applied along the inside of the female joint. (Warmer side).
- 11.4 Panels can be installed in either direction (left-right or right-left) on The Galvatherm Series, Mono and Supra panels, but always with the female edge facing the installation direction.
- 11.5 Place the male edge of the next panel in position, sliding firmly into the groove of the preceding panel using a firm gradual pressure.
- 11.6 If the final panel extends past the wall length, the panel must be cut to fit following the procedures in section 9.0

12.0 BASE OPTIONS

- 12.1 Due to the joint design in the Galvamet panel system, each panel must have a support at the base.
- 12.2 When the panel is placed directly on the floor, a trim is used as a base channel fastened to the floor using anchor bolts or similar. The panel is fastened to the channel by # 14 1/4" x 7/8" self-drilling screws or rivets. Butyl sealant must be placed on the trim to avoid water and air infiltration.
- 12.3 In cold storage applications, two layers of staggered floor insulation, a vapor barrier and thermal breaks in the panels are required.
- 12.4 In partition walls for cold storage applications, the use of curbs at each side of the partition wall is recommended. Floor insulation, a vapor barrier and thermal breaks are also required.

13.0 CORNER CONNECTIONS

- 13.1 In cold storage applications it is recommended to make thermal breaks in the interior side of the panels by removing the metal skin.
- 13.2 As an alternative, the panels may be miter cut and spray foamed at the miter on site. Then fasten the interior and exterior trims at 12" o.c.

14.0 ADDITIONAL DETAILS

- 14.1 To incorporate other elements into the Galvamet panel system such as penetrations, doors, windows, etc., consult your Galvamet representative or the Galvamet Cold Storage Design Manual for specific details.
- 14.2 If windows and/or doors are required, cut the panels as per section 9.0 and install trim at corresponding edge frame.

15.0 ACCESSORIES –FASTENING

- 15.1 Accessories are fastened with #14 1/4" x 7/8" self-drilling screws with bonded seal washers or with pop rivets. Closed or straight trims, eave, ridge cap, etc., must be fastened with self-drilling screws only.

16.0 CLEANING

- 16.1 After installation, surfaces must be cleaned to remove any metal chips to prevent any possible oxidation. A wet, soft cloth is recommended.

17.0 MAINTENANCE

- 17.1 Proper installation and maintenance are extremely important to obtain the best performance and appearance from the insulated panel.
- 17.2 Dirt, oil, grease, fingerprints or any other kind of contaminant must be completely removed when the installation is finished to maximize coatings performance.
- 17.3 The building will require periodic maintenance according to conditions at the site: U.V., dirt, smoke, corrosive atmosphere, etc. If further assistance is required, please consult the technical department of Galvamet.
- 17.4 To remove superficial oxidation and tough stains, it is recommended to use a regular household cleaner followed by a thorough rinsing. Wire brushed or an abrasive material may damage the painted and should not be used.
- 17.5 If "touch up" paint is required, contact Galvamet to obtain an air-dry urethane color match for your project.

Important Note:

All personal handling and installing the panels **MUST WEAR ALL TIMES** the proper safety body protections during all these procedures.