

# Plywood Core Swing Door with Interior and Exterior Aluminum Laminates



### Nudo PlyMetal™ Swing Door Trailer Door Blank Technical Data

The Nudo PlyMetal Trailer Door Blank consists of a 3/4" Exterior Grade Plywood core with either aluminum on both sides or an aluminum exterior face and a galvanized steel inner face. The door blank is primarily used as a replacement panel cut-to-size by a repair facility to fit all standard semi-trailer rear openings. The exterior aluminum skin is generally pre-painted white while the interior aluminum or steel skins are usually a mill finish. Options include colored aluminum or stainless-steel skins. The most common sizes are 49"x110-1/2" or 49"x121". Custom sizes are available with minimum quantities and extended lead times. The Ply-Metal Door Blank is a reliable, well tested, inexpensive option when a trailer swing door must be replaced due to damage or wear.

Physical Properties: Table 1

Item	Nominal Panel Thickness	Nominal Panel Weight	Aluminum Skins	Size
Ply-Metal Trailer Door Blank	3/4"	2.25# psf	Pre-Painted White (Exterior) Mill Finish Galvanized Steel Stainless Steel	49"X110-1/2" 49"X121" Custom Sizes Also Available

**Typical Applications:** Nudo PlyMetal Trailer Door Blanks are generally used as a replacement panel for worn or damaged semi-trailer swing doors. The panels are generally cut to size by a trailer repair technician. The technician also assembles and edge gasket to seal the perimeter of the door from moisture and mounts both handles and hinges.

**Features:** The aluminum exterior skin comes with a polyester white paint finish which accepts paints and vinyl graphics or decals. The 3/4" Exterior Grade provides excellent strength and rigidity. The Interior mill finish aluminum or steel skins provide the door blank with protection against shifting cargo. Both interior and exterior skins seal the door faces from exposure to moisture.

**Cut to Size:** Nudo PlyMetal Trailer Door Blanks are manufactured oversize to provide the height and width necessary to accommodate almost all standard trailer rear end openings.



- Nudo PlyMetal Trailer Door Blank laminated panels shall have good contact and uniform appearance over the entire surface of the substrate.
- Alignment and adhesive squeeze-out between Nudo PlyMetal Trailer Door Blank laminate and substrate will be to  $\pm 1/16''$  (1.5mm) on any edge.
- Panel weight will vary as a function of substrate thickness, density, and moisture content.
- Panel dimensional tolerances will be:
  - Thickness  $\pm 1/16''$  (2mm)
  - Width:  $+0'' - 1/8''$  (4mm)
  - Length:  $\pm 1/8''$  (4mm)
  - Squareness:  $1/8''$  (4mm) in 48'' (1.2m).
- Variation in panel integrity will be due to the substrate, not the laminate or adhesive bond.
- Panels can be installed and fabricated with the same tools and techniques as ordinary wood panels. Carbide-tipped tools are recommended, as well as safety equipment. Eye protection and filtered mask should be worn during cutting and trimming operations. Always position the panel so the saw blade enters the exterior side first to avoid chipping and damage.
- Nudo PlyMetal Trailer Door Blank laminated panels shall not delaminate from the substrate, when edges are sealed with a moisture resistant sealant such as silicone before the edge gaskets are applied. Any drilled holes or cut outs must also be filled with a sealant such as silicone to maintain the original panel warranty.
- The pre-painted exterior aluminum skin comes from the factory with a protective film to help resist scratches prior to installation. Be sure to remove the protective film before installing the gasket or door hardware. Also remove prior to applying paint or graphics.
- Although Nudo PlyMetal Trailer Door Blank panels are rigid and have good impact resistance, the aluminum faces can be scratched or dented if not handled properly. Do not drop or bump the panel on its edges as this may cause unwanted bending of the aluminum. Do not slide the panel edges or face over rough surfaces that may cause bending or scratching. Pick panels up when handling as compared to sliding panels across each other. Sliding panels may cause scratches on one or both faces.

**Storage:** Nudo PlyMetal Trailer Door Blank laminated panels should be stored horizontally indoors on a contiguous flat surface, in a dry location. Panels should never be stored on the floor or an outside wall. A pallet with a smooth piece of plywood beneath the panels is best to avoid warping or waviness. As with most wood products, acclimation of 48 hours is recommended before installation. Exposure to humid or wet conditions prior to installation may cause moisture damage. Standing water on surface of panels prior to installation may cause color distortion. Optimum storage conditions are 60°F (16°C) to 75°F (24°C) and 35% to 55% relative humidity.

**Cleaning & Maintenance:** The Nudo Plymetal Trailer Door Blank requires very little maintenance. When the surface does require cleaning use a mild cleaning detergent and water.

**Disclaimer:** We believe all information given is accurate. It is offered in good faith, but without guarantee. Since conditions of use are beyond our control, the user assumes all risks. Nothing herein shall be construed as a recommendation for use that infringes on valid patent or as extending a license under valid permit. Nothing herein shall be construed as a recommendation for use or as extending a license under valid patent.

