

Exterior Architectural Panels



Nudo Endurex™ 500 Technical Data

Nudo Endurex™ 500 panels are insulated composite panels, primarily used within a frame or extrusion. The panels are composed of an insulating foam core laminated between aluminum clad stabilizers on the inside and outside of the panel. The stabilizers are moisture resistant recycled thermoplastic fused between two pieces of aluminum. The aluminum surface may be either embossed or smooth. A 2lb EPS (expanded polystyrene) foam is the standard insulating core. Also available are “closed cell” extruded polystyrene foam or a fire resistant polyisocyanurate foam. The panel is primarily used as a glazing panel in window frames or within extrusions as a curtain wall. Also referred to as either an In-Fill panel or a Storefront panel. Endurex 500 has a polyester paint finish, available in four standard colors. The panel has a Class “A” rating for flame spread and smoke developed when tested per ASTM E-84 standards.

Physical Properties: Table 1

Item	Nominal Panel Thickness	Nominal Panel Weight	Color	Size
Endurex 500	1"	2.4# psf	Universal Bronze	4'X8'
	2"	2.8# psf	Silver-Gray	4'X10'
	3"	3.2# psf	White	5'X10'
	4"	3.6# psf	Extra Dark Bronze	*White Smooth Only* (Cut to Size)

Physical Properties: Table 2 (Typical Foam Core Properties)

Type of Foam	Characteristics	R-Value Per Inch	Density
Expanded Polystyrene (EPS)	Lightweight (Most Affordable)	4.8	2#
Extruded Polystyrene (Closed Cell)	Moisture Resistant and More Rigid	5	N/A
Polyisocyanurate (ISO)	Higher Fire Rating and R-Value	7.0-7.5	N/A

RESPONSIVENESS

CONSISTENCY

SOLUTIONS

Nudo Endurex™ 500

Typical Applications: Nudo Endurex™ 500 is an exterior panel primarily used in a window frame, curtain wall, or storefront. The panel is generally glazed into the window channel in place of glass. Often used on schools, office buildings, retail stores, hi-rise apartments, and commercial buildings.

Features: The polyester paint finish comes in four standard colors. White, Universal Bronze, Silver-Gray and Extra Dark Bronze to match typical window frames. The polyester paint finish is protected by a film that pulls away when ready for use. The recycled solid thermoplastic core is water resistant, impact resistant and rigid. By choosing from the three insulating foams offered, and the foam thickness, an insulating value of up to R-30 can be reached.

Cut to Size: Nudo Endurex™ 500 can be ordered in sizes cut to user provided dimensions. Nudo Products, Inc. offers optimization services but does not calculate take offs.

Tolerances:

- Thickness: +/- 1/16"
- Width: +0", - 1/8"
- Length: +0", - 1/8"
- Squareness: +/-1/4"

Storage: Nudo Endurex™ 500 Panels should always be stored flat on a smooth surface above the ground. A pallet with a smooth piece of plywood beneath the panels is best to avoid any warping or waviness. As with most building products, it is best to acclimate the panel on site 48 hours before installation. Although the panels are moisture resistant, be sure panels are kept dry prior to installation to ensure water is not trapped under the protective film.

Handling: Although Endurex 500 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.

Fabrication: Use protective eyewear such as goggles or safety glasses, cover your nose and mouth with a filter mask when cutting Endurex 500.

- Always position the panel so the saw blades enter the exterior side first to avoid chipping and damage.
- Cutting: Use a circular saw with a 72-tooth carbide tipped blade.

Warranty: Endurex 500 has a five (5) Year Warranty on both the panel and the polyester paint finish.

Cleaning & Maintenance: The Endurex 500 panel requires almost no maintenance. If the surface does need to be cleaned, use a mild cleaning detergent with 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.

RESPONSIVENESS

CONSISTENCY

SOLUTIONS