

Product Data Sheet

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Nudo - Endurex 550P

Porcelain (Ceramicsteel) Architectural Panel

Endurex 550P panels are insulated composite panels, primarily used within a frame or extrusion. The panels are composed of an insulating foam core sandwiched between Porcelain clad stabilizers on the inside and outside of the panel. The stabilizers can be Hardboard, Corrugated Polypropylene, Cement Board or Solid Plastic. The Porcelain surface is usually smooth. A textured surface is available at a higher cost. A 2lb EPS (expanded polystyrene) foam is the standard insulating core. Also available is a higher R-Value and greater 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 550P has a Porcelain finish, available in eight standard colors. The panel has a Class "A" rating for flame spread and smoke developed when tested per ASTM E-84.

Table 1 – Physical Properties – Endurex 550P

	Nominal Thickness	Nominal Panel Weight	Colors	Sizes
Item				
Endurex 550P	1" 2" 3" 4"	3.3 psf 3.6 psf 3.9 psf 4.2 psf	Bone White, Stone White, Colonial White, Antique White, Sahara Sand, Hartford Green, Dark Bronze, Matte Black.	Cut to Size

Table 2 – Typical Foam Core Properties – Endurex 550P

Type of Foam	Characteristics	R-Value Per Inch	Density
Expanded Polystyrene (EPS)	Lightweight - Most Affordable	4.8	2 Pound
Polyisocyanurate (ISO)	Higher Fire Rating and R-Value	7.0 – 7.5	N/A

Typical Applications

As 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 & commercial buildings.

Features

The Porcelain finish comes in eight standard colors. Bone White, Stone White, Colonial White, Antique White, Sahara Sand, Hartford Green, Dark Bronze, Matte Black. The Porcelain finish is protected by a film that pulls away when ready to use. The hardboard core is impact resistant. Cement Board, Corrugated and Plastic are also moisture resistant. 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

The Endurex 550P can be ordered in sizes cut to user provided dimensions. Nudo Products, Inc. offers optimization services but does not calculate take-offs.

Storage

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. Although the panels are moisture resistant, be sure panels are kept dry prior to installation to insure water is not trapped under the protective film.

Handling

Although Endurex 550P panels are rigid and have excellent impact resistance, the Porcelain 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 face.

Optimization

When performing panel optimizations for the purpose of cutting panels to size, always check to insure if the surface finish is "directional". Some finishes require the panels to be installed so all panel surfaces run the same direction.

Fabricating

Note: Use protective eyewear such as goggles or safety glasses, cover your nose and mouth with a filter mask when cutting Endurex 550P.

Always position the panel so the saw blades enter the exterior side first to avoid chipping and damage.

Cutting: Use a 60-tooth circular saw with a carbide tipped blade.

Cleaning & Maintenance

The Endurex 550P requires almost no maintenance. If the surface does need to be cleaned, use a mild cleaning detergent with water.

Tolerances

Thickness: + or - 1/16"
Width: Plus 0", Minus 1/8"
Length: Plus 0", Minus 1/8"
Square: + or - 1/4"

Warranty

Endurex 550P has a 5 Year Panel Warranty and a 20 Warranty on the Porcelain finish.

We believe all information provided 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 considered as a recommendation for use that infringes on valid patent or as extending a license under valid permit.

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