

## A Superior Panel for Cabinets and Furniture

ArmorCore™ panels consist of hard-wood face and back veneers with a proprietary combination core constructed of veneer and composites. It takes advantage of the best properties of both by using veneer in the center and then adding crossbands of Medium Density Fiberboard (MDF).

The veneer center is light, strong and dimensionally stable and holds screws well. The MDF crossbands create a panel that is smoother and flatter with tighter tolerances.

## Specify Your Face and Back Veneer

There are four key attributes you can specify when choosing your ArmorCore face and back veneers.

**Wood Species:** Primary determinant of color and grain characteristics.

**Veneer Cutting:** How veneer is cut from a log determines how the grain is presented.

**Veneer Matching:** How leaves or “flitches” of veneer are assembled to achieve desired pattern and color effects.

**Veneer Grading:** How much natural variation is allowed.

For more information, see our **“Veneer Specification Guide.”**



**ArmorCore panels are ideal** for fine furniture and cabinetry.



**ArmorCore panels combine the low weight and high strength advantages of veneer core panels with the superior flatness and higher density of MDF.**

ArmorCore panels are stiffer, lighter and stronger than composition panels of equivalent thickness, yet the MDF crossbands offer the smoothest composition surface characteristics.

## Critical Tolerances

Choose ArmorCore when you need tolerances tighter than the ANSI standard of  $+0 -3/64"$ . ArmorCore is manufactured as a calibrated blank and can achieve critical tolerances of  $+0 -1/32"$ .

## Eliminates Telegraphing

ArmorCore's MDF crossbands minimize the telegraphing of core imperfections common to veneer core panels.

## Improved Machinability

ArmorCore has excellent machinability so router cuts leave crisp, clean edges. Because only the surface is MDF, wear on machine tools is significantly reduced.

## Stiffness

Modulus of Elasticity is 50% higher than particleboard and 25% higher than MDF, even though ArmorCore weighs significantly less.

## Superior Surface

MDF crossbands give ArmorCore the surface hardness, superior density and uniform texture of a composition panel.

## Advantages

ArmorCore is popular with casegood manufacturers for its ability to support high-value, very thin face and back veneers, especially in geographic areas with very low humidity, which can cause veneers to split or check. Its strength, low weight and ability to hold fasteners exceed that of composite cores, while it typically offers improved flatness, smoothness and tighter tolerances when compared to veneer core panels.



Choose ArmorCore when you need a panel with the weight, structural value and screw holding ability of veneer core, and the uniformly flat and dense surface of MDF.

## Performance Specifications

	ArmorCore	45# Particleboard	48# MDF	7 Ply Veneer	Units
MOE	630,200	400,000	520,000	647,000	lb./in <sup>2</sup>
MOR	4,922	2,400	5,200	3,750	lb./in <sup>2</sup>
Screw holding, face	324	250	325	309	lb./in <sup>2</sup>
Screw holding, edge	271	225	275	219	lb./in <sup>2</sup>
Weight	2,656	2,969	3,203	1,916	3/4" per MSF
Thickness tolerance	$+0 -1/32"$	$+/- .005$	$+/- .005$	$+0 -3/64"$	

Test conducted on samples with maple face and back. Wood has natural variations. Data is provided for comparison purposes and does not constitute a claim by States Industries that all panels will meet the values expressed.

## Environmental Characteristics

States' hardwood plywood products are certified to meet all requirements established in the EPA's TSCA Title VI 40 CFR Part 770 Formaldehyde Emission Standards for Composite Wood Products regulation. ArmorCore panels may be specified with No-Added-Urea-Formaldehyde (NAUF) resins to comply with The US Green Building Council's LEED IEQ Credit 4.4: Low Emitting Materials – Composite Wood and Agrifiber Products. Panels prefinished with NOVA UV cured topcoats may also qualify for LEED Credit 4.2: Low Emitting Materials – Paints and Coatings. ArmorCore panels may also be specified as Forest Stewardship Council Certified® and as such will contribute to LEED MR Credit 7: Certified Wood.