

ARMORCORE®

States Industries ArmorCore® panels combine the low weight and high strength advantages of veneer cored 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 match the best composition surface characteristics.

Improved Machinability

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

Lightweight

ArmorCore weighs 25% less than particleboard. A 3/4", four by eight sheet weighs 72 lbs. The same sized sheet of particleboard weighs about 97 lbs., and MDF weighs 103 lbs.

Eliminates Telegraphing

The MDF crossbands eliminate the telegraphing of core imperfections common to veneer cored panels. (Low pressure laminates require ArmorCore® Plus.)

Specifications

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

Stiffness

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

Superior Surface

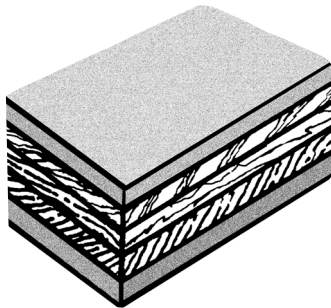
MDF crossbands give ArmorCore the surface hardness, superior density and uniform texture of a 100% composition panel.

Applications

Standard ArmorCore features five-ply construction with MDF crossbands and is suitable for use with wood veneer or high pressure laminate overlays. ArmorCore Plus is constructed with higher grade center plies which are required when overlaying with thin impregnated papers like melamines, polyester, MDO, foils, etc.

Critical Tolerances

Where ANSI standard thickness tolerances of +0 -3/64" are inadequate, such as in some automated machining operations, ArmorCore Standard or ArmorCore Plus can be manufactured to meet critical tolerance demands.



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Eugene, OR Mocksville, NC 1-800-626-1981 www.StatesInd.com