

# *Signature* S2S<sup>®</sup>

High Performance Panel



DPI's Signature S2S<sup>®</sup> panels offer a solid foundation for finished products worldwide. Known for its unparalleled smooth surface on both sides, Signature S2S has become the standard in wood based substrates.

## A Foundation for Success.

### New Generation High Performance Substrate

- Ultra smooth surface on both sides for a beautiful finish, every time
- Resists moisture, buckling and warping
- PureSolid™ core provides strength - No delamination, no loose fiber
- Low VOC - No added formaldehyde product
- Easy to cut and route, coat or laminate
- Flawless foundation for any product
- Environmentally responsible product
- Fully Made in the USA



**DPI**  
DECORATIVE PANELS  
INTERNATIONAL™

## The Signature S2S Process

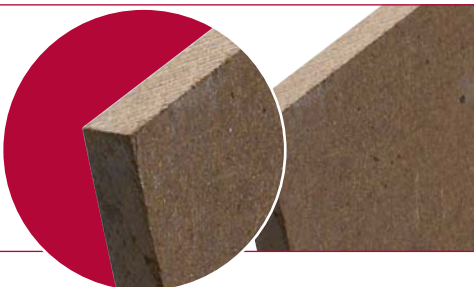
Combining the original “Mason” process with modern proprietary manufacturing technologies solidifies Signature S2S panels as the benchmark for superior PureSolid™ core quality, critically smooth surfaces and unequaled strength.

- 1 Hardwoods including aspen, maple and birch from SFI certified forests allow DPI to produce clean, highly uniform fibers that promote a dimensionally stable, PureSolid™ core.
- 2 Adding natural essential oils promote a highly refined smooth surface on both sides of the panel. This tempering, coupled with the natural lignin in the wood provides the superior bond required for fiber stability. Simply no added formaldehyde used and negligible VOC.
- 3 Fiber is processed through DPI’s advanced screen system – which practically eliminates rippling, dimples and blemishes on the surface.
- 4 The result is the ultimate surface for painting, coating and finishing.

A large annual production capacity allows DPI Alpena to serve all customer needs.

### PURE SOLID™ Core: A Signature S2S Exclusive

- No core voids
- No delamination
- Highly durable
- Highly moisture resistant



## Performance Comparison

- Moisture resistance outperforms alternative substrates.
- High density and strength delivers a scratch resistant surface. Virtually eliminate issues with surface quality for high impact finishing and product design.
- Uniform density virtually eliminates warping and bowing found in other substrates. Substrates with loose fibers on the back side act as a magnet for moisture and product failure.

See for yourself how Signature S2S stacks up:

Property	Signature S2S			ANSI A208.1-99 M3 PB Standard	ANSI A208.2-2002 Grade 130-MR50 MDF Standard
	1/8"	3/16"	1/4"		
Density (Lbs./Cu. Ft.)	65	63	54	40-50	NS (1)
Modulus of Rupture (PSI)	8,500	8,000	6,500	2,393	3,481
Modulus of Elasticity (PSI)	800,000	800,000	600,000	398,900	348,100
24 hr. Thickness Increase	20%	20%	15%	NS (1)	5
Moisture Content	3-5%	3-5%	3-5%	max-10%	max-9%
Internal Bond	240 psi	220 psi	130 psi	80 psi	87 psi
Linear Expansion	0.3%	0.3%	0.3%	max- 0.35%	max- 0.3%
Formaldehyde Emissions	< .04 ppm	< .05 ppm	< .06 ppm	max- 0.30 ppm	max- 0.30 ppm
Accelerated Aging MOR Retention	min. 50%	min. 50%	min. 60%	min. 50% for “Exterior Glue”	min. 50%
Hardness	>2200 psi	>2200 psi	>2200 psi	500 psi	197 psi

1 NS - not specified

## The Applications

Ease of cutting and routing plus a flawless coating surface make Signature S2S high performance panels perfect solutions in the following categories and beyond:

Furniture

Transportation

Building

Displays & Store Fixtures

Art & Photography

Medical

Signage

Sporting

Toys & Games

Products made with the future in mind.

Decorative Panels International is committed to being good stewards over the land we use to make



our products. As an ENERGY STAR Partner, we are committed to providing high performance products that meet the needs of our customers, while promoting and encouraging the use of new technologies, processes and systems that lessen the impact of servicing those needs on our environment.

ENERGY STAR® is a voluntary program managed by the EPA and the U.S. Department of Energy



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