

## SentryBoard Premium Entry Materials



### Benefits

- Protect circuit board surface from scratches and other mechanical defects
- Does not include abrasive additives
- Reduces drill operating temperature
- Provides a consistent flat surface
- Reduces burrs
- Improves accuracy
- Supports good hole quality
- Reduces smearing
- Lightweight and easy to handle

### Entry Material for PCB Drilling and Routing Applications

SentryBoard™ Entry Material is constructed from high quality paper and a proprietary resin binding system. The material is consistently flat and smooth. The hard outer surface, supported by the relatively soft carrier, enables accurate centering when drilling micro holes. The consistency of the modified phenolic material is a premium grade with heterogeneous distribution of filler materials providing superior surface quality.

SentryBoard can be used for drilling or routing of all PCB's but performs particularly well as entry material for problematic materials like PTFE, Flex Circuits and Aramids.

Depending on the thickness of material, it may be used as backup in flex applications and/or entry material for the mechanical drilling of printed circuit boards. Using SentryBoard promotes good accuracy and good hole-wall quality without burring or hole-wall roughness.



### Benefits

- Excellent for positional accuracy
- Diminishes drill wander
- Designed for use with all diameters (.10mm - 6.35mm) without breakage or burrs
- Completely flexible due to proprietary resin system
- Evacuates as powder during drilling process, significantly reducing heat generation
- Provides excellent hole-wall quality
- Superior performance during Back-drill applications
- Reduces chance of "bird nesting"

### The Better Choice in Premium Entry Materials

SentryBoard™ HD is a premium entry material specifically designed for optimum drill centering and hole positional accuracy. Manufactured with a proprietary resin formula, this solution is an excellent choice for very small holes, high layer count, thick panels and HSSL materials. The proprietary formulation provides homogenous distribution of resin and filler particles to provide a predictable and consistent material.

SentryBoard HD provides exceptional positional accuracy results at a much lower cost. SentryBoard HD also eliminates the need to change entry materials after micro hole drilling that other products require, further reducing costs and downtime.

#### Data: Improved Registration

Product	CpK (Entry Side)
SentryBoard HD	3.02
Product "A" - Accuracy Enhancing Entry	2.47
Product "B" - Accuracy Enhancing Entry	2.91

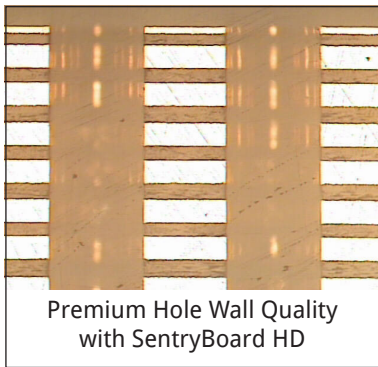
### Availability

Panels are available in standard thicknesses and sizes. Other thickness and size are available upon request.

	Standard Thickness	Standard Size
SentryBoard	0.5mm (.020") 1.5mm (.059")	12" x 18"
		18" x 24"
		36" x 48"
SentryBoard HD	0.2mm±0.005 (.008")	18" x 24"
		21" x 24"

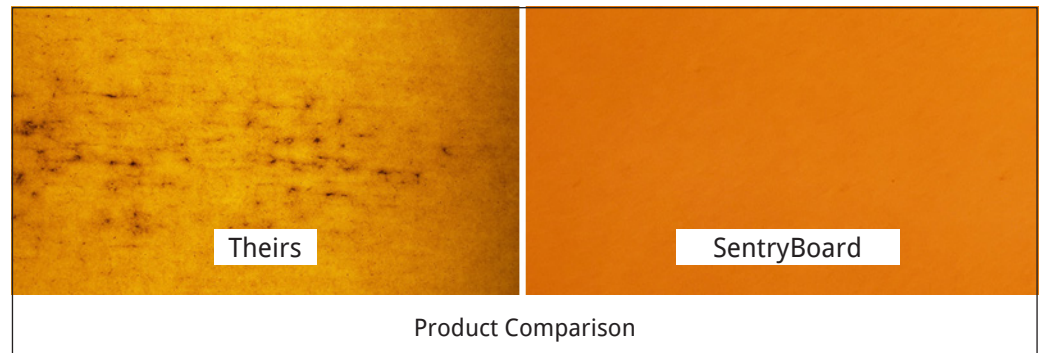
### Specifications

Property	SentryBoard	SentryBoard HD
Material Composition	Paper & Phenolic resin, fully cured	Proprietary
Color	Brown	Orange
Density	1.36 g/cm <sup>3</sup>	1.04 g/cm <sup>3</sup>
Warpage	< 2%	< 2%
Hardness (Shore D)	120	125
Flammability	UL94 HB	UL94 HB



### Storage Conditions

	SentryBoard	SentryBoard HD
Temperature	15°C - 25°C	20°C - 30°C
Humidity	40% - 65%	50% - 60%
Storage	Store flat in original packaging	



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