



# DRILL ENTRY & BACKUP BOARDS FOR PCB DRILLING



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## Aluminum Drill Entry Foil



Thickness Range: 0.14mm to 0.20mm  
 Standard sizes: 36 x 48"; 40 x 48"; 42 x 48"  
 37 x 49"; 41 x 49"; 43 x 49"  
 Thickness tolerance:  $\pm 10\%$   
 Size tolerance:  $\pm 3\text{mm}$ , Roughness:  $3.5 \pm 1\mu\text{m}$   
 Warpage: 1% of diagonal  
 Application: Drill entry boards  
 P/N EXAMPLE: ALF414918

### Advantages:

- Protects CCL from scratches and pressing marks.
- Excellent results for high speed drilling.
- Extends the life of drill machine/drill bits.
- Avoids oxidation of the surface.
- Burr-free drilling and excellent hole wall quality.

## Unclad XPC Drill Entry Board

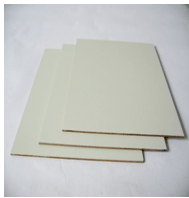


Thickness Range: 0.50mm to 1.60mm  
 Standard sizes: 36 x 48"; 40 x 48"; 42 x 48"  
 37 x 49"; 41 x 49"; 43 x 49"  
 Thickness tolerance:  $\pm 10\%$   
 Size tolerance:  $\pm 3\text{mm}$   
 Warpage: 0.6% of diagonal  
 Application: Drill entry boards  
 P/N EXAMPLE: XPC404850

### Advantages:

- Burr-free drilling and excellent hole wall quality.
- It provides a flat, hard surface for maximum support to minimize the burring.
- Good for flexible and rigid-flex circuit board.

## Melamine Paper Backup Board



Thickness Range: 2.70mm  
 Standard sizes: 37 x 49"; 41 x 49"; 43 x 49"  
 Thickness tolerance:  $\pm 0.15\text{mm}$   
 Size tolerance:  $\pm 3\text{mm}$   
 Density:  $> 900 \text{ kg/m}^3$ , Hardness:  $75 \pm 5 \text{ Shore D}$   
 Warpage: Less Than 0.6% of diagonal  
 Application: Drill backup boards  
 P/N EXAMPLE: MPB4149270

### Advantages:

- It is a fiberboard coated with melamine papers.
- Specially manufactured for MLB & delicate drilling.
- Reduced drill wear and Environment friendly
- Adequate hardness and special structure results for reduction of burrs/less deburring.

## Melamine Laminated Wood Backup Board



Thickness Range: 2.00mm & 2.50mm  
 Standard sizes: 37 x 49"; 41 x 49"; 43 x 49"  
 Thickness tolerance:  $\pm 0.15\text{mm}$   
 Size tolerance:  $\pm 3\text{mm}$   
 Density:  $> 1150 \text{ kg/m}^3$ , Hardness:  $85 \pm 5 \text{ Shore D}$   
 Warpage: Less Than 0.6% of diagonal  
 Application: Drill backup boards  
 P/N EXAMPLE: MLW4149250

### Advantages:

- It is a Melamine laminated wood backup board.
- Excellent performance in micro-hole drill.
- Nice drill wall quality, Reduced drill wear
- Economical and Environment friendly.

## Wood Backup Board



Thickness Range: 2.20mm to 2.70mm  
 Standard sizes: 37 x 49"; 41 x 49"; 43 x 49"  
 Thickness tolerance:  $\pm 0.15\text{mm}$   
 Size tolerance:  $\pm 3\text{mm}$   
 Density:  $> 900 \text{ kg/m}^3$ , Hardness:  $75 \pm 5 \text{ Shore D}$   
 Warpage: Less Than 0.6% of diagonal  
 Application: Drill backup boards  
 P/N EXAMPLE: WBB4149270

### Advantages:

- Excellent for small hole drilling
- The sufficient hardness result of reduction of burrs whereby the deburring is shorter or can be eliminated.
- Homogeneous high-density core guarantees excellent chipping and good cleaning of the drill.
- High pure and high-density wood fibers clean the cutting edges of drill and thus keep the life longer.
- The drill debris can be easily removed through the drill flute that reduces the danger of drill breakage.
- Good performance and low price.

## Drill Exit Film (Red/Green)



Thickness Range: 2.50mm  
 Standard sizes: 37 x 49"; 41 x 49"; 43 x 49"  
 Thickness tolerance:  $\pm 0.15\text{mm}$   
 Size tolerance:  $\pm 3\text{mm}$   
 Density:  $> 850 \text{ kg/m}^3$ , Hardness:  $70 \pm 5 \text{ Shore D}$   
 Warpage: Less Than 0.6% of diagonal  
 Application: Drill backup boards  
 P/N EXAMPLE: DEF4149250

### Advantages:

- Excellent for small hole drilling
- Excellent flatness and thickness tolerance.
- Eco-friendly
- Good performance and low price.

\*Please contact us if you need any further information about drill entry/backup material