Inspection and Imaging of Fiberglass Wind Turbine Blades Using Evisive Scan™ Technology
Wind Turbine Blade Samples
Evisive Scan of Sandia Labs Large Wind Turbine Blade Coupon 3000

Lower Surface to Near Trailing Edge
Evisive Scan of Sandia Labs Large Wind Turbine Blade Coupon
Lower Surface to Near Trailing Edge

Flaw in wood at X=13.5, Y=1.2.

Transition fiberglass to wood fill at X=12.5.

Individual wood pieces and wood grain visible.
Evisive Scan of Large Wind Turbine Blade Coupon
Upper Surface Starting ~5 1/2 " from Leading Edge
Evisive Scan of Sandia Labs Large Wind Turbine Blade Coupon

Upper Surface Starting ~5 1/2 “ from Leading Edge

Back drilled hole

Spot of Extra Resin

Side drilled holes

All Internal Structures Visible in Image
Evisive Scan of Sandia Labs Large Wind Turbine Blade Coupon 3000

Upper Surface Starting ~1 3/4 “ from Leading Edge
Evisive Scan of Sandia Labs Large Wind Turbine Blade Coupon 3000

Upper Surface Starting ~1 3/4" from Leading Edge

Wood flaw

Back drilled hole

Side drilled holes

All Internal Structures Visible in Image
Evisive Scan of Sandia Labs Large Wind Turbine Blade Coupon 3000

Upper Surface Behind Spar to Near Trailing Edge
Evisive Scan of Sandia Labs Large Wind Turbine Blade Coupon 3000

Upper Surface Behind Spar to Near Trailing Edge

Side drilled hole

Fiberglass to wood transition at X= 7 and 17.7.

All Internal Structures Visible in Image
Imaging Fiberglass Thickness Gauge Using Evisive Scan™ Technology
Fiberglass Panel with differing depth holes drilled from bottom.
This scan demonstrates the sensitivity and range of the method. We can detect all of the various thicknesses represented in this sample in a single scan.
Advanced materials require advanced NDE methods.

Let Evisive, Inc. help you push your envelope.