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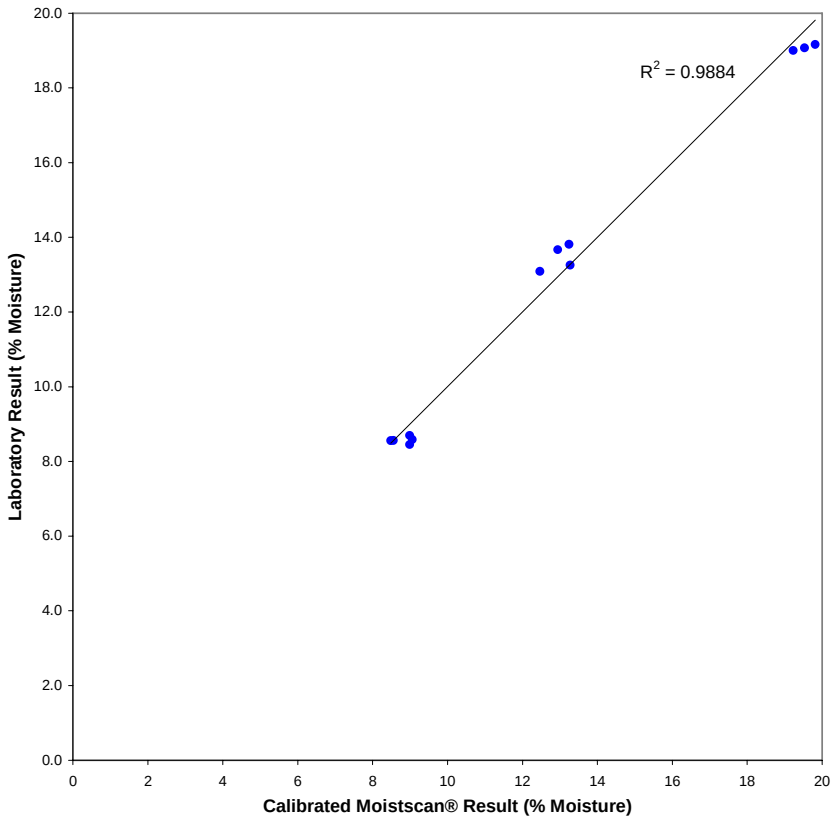
Moistscan® Capability Report for Sawn Wood Plank

ENSIS, which is a joint venture between CSIRO and SCION, the respective government research organisations of Australia and New Zealand, have recently completed a capability study on sawn wood plank using the Moistscan® technology. A Moistscan® MA-600 unit using standard-frequency antennas was used to measure the moisture content of kiln-dried wood plank on a longitudinal feed table. The testing arrangement was specifically designed to feed the wood plank through the antenna heads of the Moistscan® system in a consistent manner. The wood plank used in this study was *pinus radiata* (also known as Monterey Pine) and all of the beams analysed had the same thickness.



The collected data comprises 15 samples that exhibit a range of moistures, from 8% up to 20%. The results of the trial indicate that the Moistscan® technology is extremely well suited to this application, producing a correlation with an R^2 of 0.988 and a standard error of only 0.521 % moisture.

The specific calibration used may depend on the species of wood being analysed, and to accommodate this, the Moistscan® system is capable of storing multiple calibrations that may be invoked remotely by a digital signal from the site control system. The Moistscan® system is also capable of compensating for different thicknesses of wood plank by incorporating either an ultrasonic or laser thickness sensor

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