The measured results show that, where the stimulus remains equal, the middle point of the canvas of the painting vibrates, when it's packed inside the Turtle crate, with only 50% of the vibrational amplitude which occurs when it's packed inside the conventional wooden crate.

Turtle uNLtd test results on shock and vibrations

In the latest Restauro magazine of October 2018 'The safe transport of works of art and cultural artefacts' the effectiveness of Turtle against impact and vibration was investigated and tested by the independent vibration-stress expert Dr. Kracht Vibration Management.

It is crucial to ensure stable climatic conditions during the entire process of transport. Super-sensitive sensors were used to monitor the crates' reactions to fluctuations in environmental conditions.

But why does a painting inside a Turtle crate vibrate only half so much as one packed inside a wooden climate crate? Information about this is provided by the experimental modal analysis using approx. 170 measuring points on both cases. The reasons for the Turtle crate's offering lower transfer-factors and thus better preserving the painting from vibrations during transport lie in the structure

of the crate and the materials used to make it. These latter lead to a greater degree of rigidity than is found in the wooden crate and thus to an augmented attenuation. The greater weight of the Turtle crate also contributes significantly to the vibration-reduction.

The analyses confirm that not only does the latest development on the market, the Turtle uNLtd, "save the lives" of 40 trees per wooden crate the vibrations undergone by a painting packed inside a Turtle uNLtd amount to only 50% of those undergone by the same painting when packed inside a wooden climate crate. Moreover, the Turtle uNLtd maintains climatic conditions in its interior constant for 48 hours. The Turtle uNLtd thus sets the current standard for the physics-dynamic performance of painting transport crates.

For more test results please visit: www.turtlebox.com