



# AMERICA'S CUP CLASS

## CONFIDENTIAL INTERPRETATION No 5

August 8, 2005

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In response to the following:

*Rule 16.5 (b) defines the requirements for the hull and deck core materials.*

*Aside from the definition of minimum average density the only other rule core requirement appears to be that the component materials should not have a modulus exceeding 140GPa.*

*Accordingly it is proposed that a core is constructed with an overall density of not less than 57kg/m<sup>3</sup>, and a thickness of not less than 29mm using two sheets of aluminium honeycomb with an intermediate layer of woven Kevlar in an epoxy resin matrix to bond the whole together.*

*None of the constituent parts will have a modulus exceeding 140GPa and while the nominal honeycomb sheet densities may be below 57kg/m<sup>3</sup> the density of a 50mm diameter sample of the entire core thickness will exceed 57 or 72kg/m<sup>3</sup>.*

*Could you confirm that this meets the requirements for cores as defined?*

### **INTERPRETATION**

The core built up as proposed is permitted provided none of the constituent parts have a modulus exceeding 140 GPa and the overall density of the core as measured from a sample taken in accordance with Rule 41.3 is greater than that required by Rule 16.5 (b).

Attention is drawn to rule 16.5(b) which states "Metallic core materials are prohibited in the construction of decks of yachts where construction of the deck was completed after March 2 2003."

END

*This interpretation is made by the Measurement Committee in accordance with Rule 3.2 of Version 5.0 of the America's Cup Class Rule.*

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