

Quotes

"The AEWCC, a globally recognized leader in composites research and development, conducts research leading to commercial development of the next generation of cost-effective, high-performance, wood-nonwood composite materials."

- Habib J. Dagher
AEWC Director

"Working with the AEWCC Center has been great for our business. The people at the Center were friendly and willing to help us reach our goals. I would recommend working with the Center to any small Maine business."

- Maine Boat Builder



A Member of the University of Maine System



ACCREDITED

An ISO 17025 Testing Laboratory Accredited by International Accreditation Service

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AEWC Center



**Research, Development,
Testing & Technical Services**



**Supporting Maine's Boat and
Composites Industries**

www.aewc.umaine.edu

The AEWC Center

The Advanced Engineered Wood Composites (AEWC) Center located on the University of Maine's Orono Campus is dedicated to research, education and economic development focused on the material science and structural applications of wood/non-wood composites. The AEWC facility houses 8 discrete laboratories in a 48,000 sq. ft. state-of-the-art facility for integrated composite materials, research, development and testing. The laboratories include a unique mix of instrumentation and capacities including an industrial scale composite extruder, radio frequency panel press, a laser scanning confocal microscope, and a structural testing laboratory designed to evaluate components up to 90' long and 30' high.



Tests Offered

AEWC is accredited by International Accreditation Service as an ISO 17025 compliant testing laboratory—one of four ISO accredited university testing labs in the nation. The AEWC has the capacity to test plastic materials, wood products and materials, composite materials, adhesives, and structural panel assemblies.

The AEWC Center offers accredited testing services which are required by the U.S. Coast Guard and other classification societies for all boat manufacturers.

The ASTM test standards required by the U.S. Coast Guard and other classification societies include:

Properties	ASTM Test
Flexural Strength of Sandwich Constructions	C 393
Impact Resistance of Plastics	D 256
Tensile Strength of Plastics	D 638
Compressive Strength of Plastics	D 695
Flexural Strength of Plastics and Electrical Insulating	D 790
Short-Beam Strength of Composite Materials	D 2344
Ignition Loss (weight %)	D 2584
Tensile Strength & Modulus	D 3039
Compressive Strength & Modulus	D 3410
Shear Strength of Plastics	D 3846

What can AEWC do for your business?

The AEWC can help any boat builder or composites manufacturer reach a new level of production through the following services:

- Product Testing and Qualification
- Contract Development of New Products/ Processes
- Joint Development of New Products/ Processes
- Commercialization of Technology Developed at the Center and other University Facilities

AEWC R & D projects have led to:

- Mark V.I Composite Boat
- Tubular Composite Arch Bridges
- Composite Oars
- Pile Wraps
- Advanced Engineered Lumber
- FRP Deck Panels

If you would like more information about the AEWC Center or any of the services it offers, please contact us via one of the methods below.

AEWC Center

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