Research

Bondship

EU Fifth framework Research programme

- Design of bonded joints for various lightweight materials
- Material models for structural design using flexible and rigid adhesives
- Testing of long and short term adhesive properties for flexible and rigid adhesives
- Fire protection of bonded joints for marine applications
- Design, construction and testing of different AC’s from participating yards

Nominal shear stress versus strain - single lap joint
Flexible adhesive

Material models for flexible adhesives

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Research

Nominal shear stress versus strain - single lap joint
Rigid adhesive

Material models for rigid adhesives

FEM analysis - initial and deformed shape of single lap bonded joint in tension

Overlap length 25mm

Test results, overlap joint versus FEM analysis design limits for adhesive and adherends

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