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Design of T-type joint made of a composite sandwich panel on free curved surface

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Key words : Joint, Composite, Sandwich Panel, Wetted Lay-up, Class chop

1.

2. Wetted Lay-up T-Joints

Wetted Lay-up

T-Joints

DMS2288 Class 2, Type 2

Glade B

HPW193/RS1222

Prepreg

ALCORE

T-Joints

Fig 1.

Wetted Lay-up

T-Joints

Fig 2.

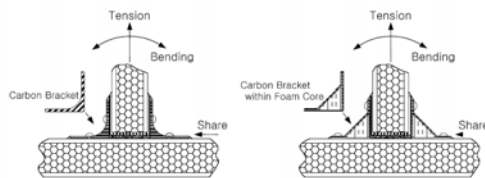


Fig 1. Features for general T-Joints

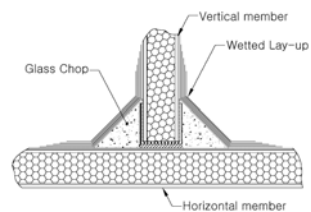


Fig 2. Schematic for Wetted Lay-up T-Joints

² Glass Chop Carbon Fabric
Wetted Lay-up T-Joints

Joints

Fig 2.

Glass Chop

Carbon Fabric

Wetted Lay-up

가 Wetted Lay-up T-Joints

- (7) Wetted Lay-up
- () Wetted Lay-up
- () Wetted Lay-up
- () Epoxy Resin
- () Bagging
- () Wetted Lay-up

3.

Wetted Lay-up T-joints

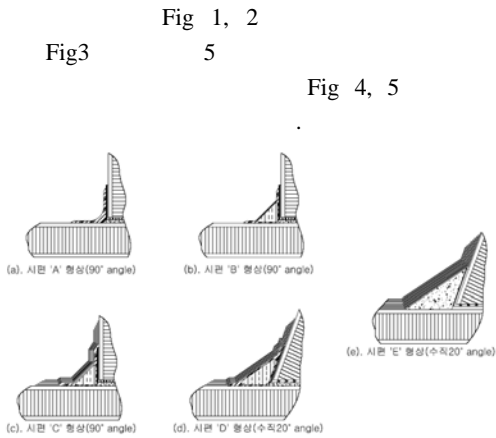


Fig 3. Structures for Test Specimen

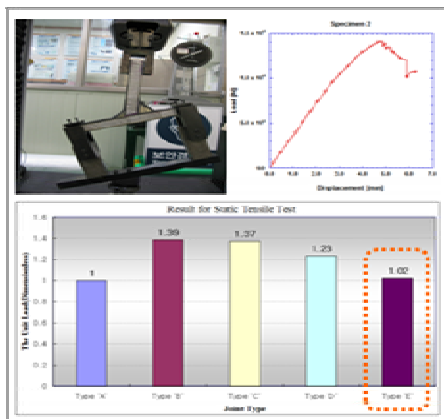


Fig 4. Test Schematic & Result for Tensile

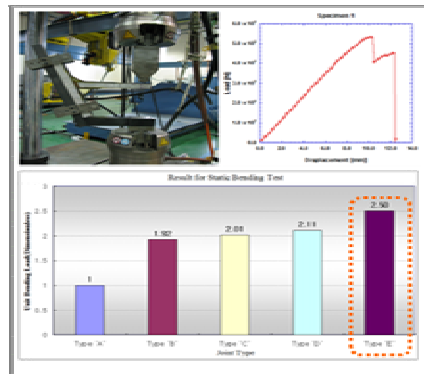


Fig 5. Test Schematic & Result for Bending

4.

Wetted Lay-up 가 가 가 가

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