

MATERIALS PERMITTED UNDER 1.11 FOR CONSTRUCTION OF GLASS FIBRE AND OTHER DRAGONS

Effective January 1996
Revised November 2001

1. DEFINITIONS

- 1.1 FIBREGLASS CLOTH: A woven fabric made from fine yarns of fiberglass.
- 1.2 FIBREGLASS MAT: Material of randomly oriented glass fibres held together with a binder. Other names used: Chopped Strand Mat (CSM).
- 1.3 WOVEN ROVEN: Rovings of fiberglass woven into a material.
- 1.4 UNIDIRECTIONAL: A material of glass yarns all in one direction usually held together by a thin filament such as "Fibril" or stitched together. Other name used: Single Bias.
- 1.5 BI-DIRECTIONAL: A material of glass yarns in two different directions stitched together.
- 1.6 DOUBLE BIAS: A 45 degree / 45 degree bias woven material.
- 1.7 TRI-AXIAL: A 60 degree / 60 degree / 60 degree triple bias woven material.
- 1.8 FABMAT: A combination material of WOVEN ROVEN and a layer of FIBREGLASS MAT held together with a binder (powder or emulsion).
- 1.9 STITCHMAT: A combination material of WOVEN ROVEN and a layer of FIBREGLASS MAT stitched together.
- 1.10 E-GLASS Fibreglass-based material commonly used in boat building.
- 1.11 S-GLASS Fibreglass-based material with higher strength and stiffness than GLASS.

2. PERMITTED MATERIALS FOR GLASS FIBRE HULL SHELL CONSTRUCTION

2.1 Glassfibre:

E-GLASS FIBREGLASS MAT Powder bonded
E-GLASS FIBREGLASS MAT Emulsion bonded
E-GLASS WOVEN ROVEN
E-GLASS FIBREGLASS CLOTH
E-GLASS DOUBLE BIAS / FIBREGLASS MAT stitched together
E-GLASS UNIDIRECTIONAL / FIBREGLASS MAT stitched together
E-GLASS UNIDIRECTIONAL / FIBREGLASS MAT emulsion bonded
E-GLASS BI-DIRECTIONAL / FIBREGLASS MAT stitched together
E-GLASS BI-DIRECTIONAL / FIBREGLASS MAT emulsion bonded

2.2 Resins:

The following resins are allowed:

1. Thermosetting, non-saturated Polyester resin, catalyzed with Methyl Ethyl Ketone Peroxide
2. Thermosetting, non-saturated Vinylester resin, catalyzed with Methyl Ethyl Ketone Peroxide

No Hybrid Resins are allowed except the following:

1. Epacryn 915AT by SP systems
2. Epacryn 925AT by SP systems

2.3 Gel coat and topcoat

Gel coat based on the following resins are allowed:

1. Thermosetting, non-saturated Polyester resin, catalyzed with Methyl Ethyl Ketone Peroxide
2. Thermosetting, non-saturated Vinylester resin, catalyzed with Methyl Ethyl Ketone Peroxide

3. PERMITTED MATERIALS FOR DECK / COAMING / CABIN CONSTRUCTION FOR GLASS FIBRE DRAGONS

3.1 Glassfibre:

E-GLASS FIBREGLASS MAT Powder bonded
E-GLASS FIBREGLASS MAT Emulsion bonded
E-GLASS WOVEN ROVEN
E-GLASS FIBREGLASS CLOTH
E-GLASS DOUBLE BIAS / FIBREGLASS MAT stitched together
E-GLASS UNIDIRECTIONAL / FIBREGLASS MAT stitched together
E-GLASS UNIDIRECTIONAL / FIBREGLASS MAT emulsion bonded
E-GLASS BI-DIRECTIONAL / FIBREGLASS MAT stitched together
E-GLASS BI-DIRECTIONAL / FIBREGLASS MAT emulsion bonded

3.2 Resins:

The following resins are allowed:

1. Thermosetting, non-saturated Polyester resin, catalyzed with Methyl Ethyl Ketone Peroxide
2. Thermosetting, non-saturated Vinylester resin, catalyzed with Methyl Ethyl Ketone Peroxide

No Hybrid Resins are allowed except the following:

1. Epacryn 915AT by SP systems
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3.3 Gel coat and topcoat

Gel coat based on the following resins are allowed:

1. Thermosetting, non-saturated Polyester resin, catalyzed with Methyl Ethyl Ketone Peroxide
2. Thermosetting, non-saturated Vinylester resin, catalyzed with Methyl Ethyl Ketone Peroxide

3.4 Sandwich material

Gel coat based on the following resins are allowed:

1. Balsa with minimum density of 130 kg/m³
2. Foam with a minimum density of 80 kg/m³
3. Plywood crush pads according to Class Rules

4. METAL MATERIALS FOR USE ON ANY TYPE OF DRAGON

Brass, Bronze, Gunmetal, Monel, Cast Iron, Galvanised Mild Steel, Stainless Steel and Aluminium Alloy.