

Directive 97/23/CE**Keywords:**

Material

Certificate

Joining material

Permanent joint

Essential requirements

Directive reference:

Article 3 § 1.1 - 97/23 EC

Annex I § 4 - 97/23 EC

Article 3 § 1.2 - 97/23 EC

Adopted by CLAP:**19/03/2013****Subject:** ESR on materials – Composite pressure vessel**Question:** How to apply the requirements about materials and manufacturing to pressure vessels made of composite material, obtained by a combination of fibers bound in a polymer matrix?**Answer:**

Clause 4 of Annex 1 apply to the resin and fibers, which are joining materials; so only the relevant requirements of 4.1, 4.2 (a) and the first paragraph of 4.3 are to be fulfilled.
The production process (filament winding, moulding, etc.) of the composite material is covered by the requirement 3.1.2 "Permanent joining"; the operating procedure and personnel shall be qualified.