

**SUSTAINABILITY AWARD: CIRCULARITY****SHORTLISTED: Composite Braiding**

Exam question: How to join multiple composite beams quickly and efficiently to facilitate high-volume manufacturing and better economics.

The example assembly comprised an A-pillar and cantrail beam, windscreen header beams and fairing. We achieved the objective and managed to:

- 1) produce a complex assembly that uses only one composite material (with no adhesives, metallic parts or other materials) assisting end-of-first-life recovery or re-use;
- 2) joined the structural beams with a method that can also be deconstructed to allow for maintenance or recovery of materials at end-of-first-life; and
- 3) produced a carbon reinforced blind rivet which can be assembled in seconds.

Learn more at: [www.compositebraiding.com](http://www.compositebraiding.com)

