European Union Aviation Safety Agency

FAQ n.104862

FAQs:

Additive Manufacturing, Supplemental Type Certificates

Question:

Isn’t there a difference between monolithic materials Vs sandwiched Composite materials?

Answer:

Of course there is a difference. In terms of various manufacturing processes as well but when we consider it from its layer by layer build-up manufacturing process, it’s also an additive manufacturing process. This was the main intend of considerations within the presentation. For both composites (sandwich and monolithic) we have also clear interfaces between one and the next layers. Of course there is a strong difference in shear force capabilities which are mainly to be expected much lower for sandwich composites.

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Link:

https://www.easa.europa.eu/en/faq/104862