



GARDN II

Infused composites for
interiors



Infused composites for interiors

Descriptions of the Need & Research Objectives

- Interior composite panels that meet:
 - Lightweight
 - Sound attenuation
 - Flammability
 - Low cost
- From TRL4 to TRL6:
 - Comply with the requirements for interiors
 - Build a demonstrator

PROJECT
DURATION

2 years

TRL

TRL level 4

THEME

- Clean ATS
- Quiet ATS
- Sustainable ATS

Infused composites for interiors

Expected Environmental Benefits

- Improve passenger comfort through acoustic dampening
- Reduce fuel consumption through weight reduction

Project benefits:

- Improve canadian supply chain for composites
- Create jobs in a canadian SME

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Expertise sought

- Sandwich composites with FDC optimized infusion process
 - Mechanical testing
 - Areal density
- Sound dampening composite sandwich panels
 - Acoustic testing
- Interior requirements for categories -19pax & 20pax+
 - Flammability testing per FAR 25.853

Potential Partners

- Bombardier Aerospace

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Estimated Budget

Total: 200 000\$

- Test panel fabrication
- Acoustic testing
- Flammability testing
- Mechanical testing
- Insert allowables
- Demonstrator

Potential funding partners

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