

Re-FIT: Repair bushings with Front Infusion Technology

Pro-active We4Ce development due to premature blade root damages seen on-site

14 September 2021



Root which is affected in the bushing area



After removing of the bushings



After Re-FIT

We4Ce Accomplished Successfully the Confidence Tests M30 Re-FIT Blade Root

A: Limited extreme test up to 400kN

B: 1M cycles fatigue: 32.5-325kN

C: Extreme test to failure: 630kN
(+11% above 10.9 bolt strength)

We4Ce 50Ton rig

TNO-Delft 350Ton rig

TNO-Delft 350Ton rig



We4Ce Re-FIT Services

Re-FIT Bushing Solution → Controlled repair method by removing and replacing only the affected part. For higher repair volumes.

Re-FIT advantages:

- **Controlled process, consistent quality**
- **Not affecting laminate layers**
- **H&S**
- **Tested**
- **Lower cost with volume**

Re-FIT services:

- **Re-FIT technology (design and processing)**
- **Supply bushing hardware / FIT Factory / implementation training**
- **Arrange the blade root (re)-certification**
- **Technology transfer**



Thank You for Your Time!



Mr Arnold Timmer
CEO and co-owner
Arnold.timmer@we4ce.eu



Mr Edo Kuipers
CTO and co-owner
e.kuipers@we4ce.eu