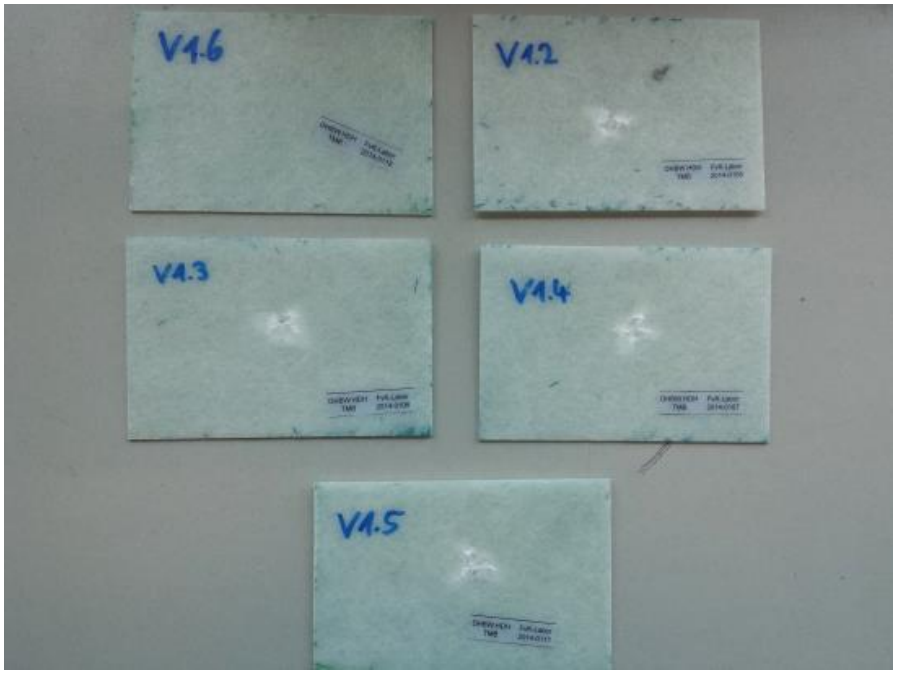
Repair Procedures

- Damaging of test parts using a drop weight tester

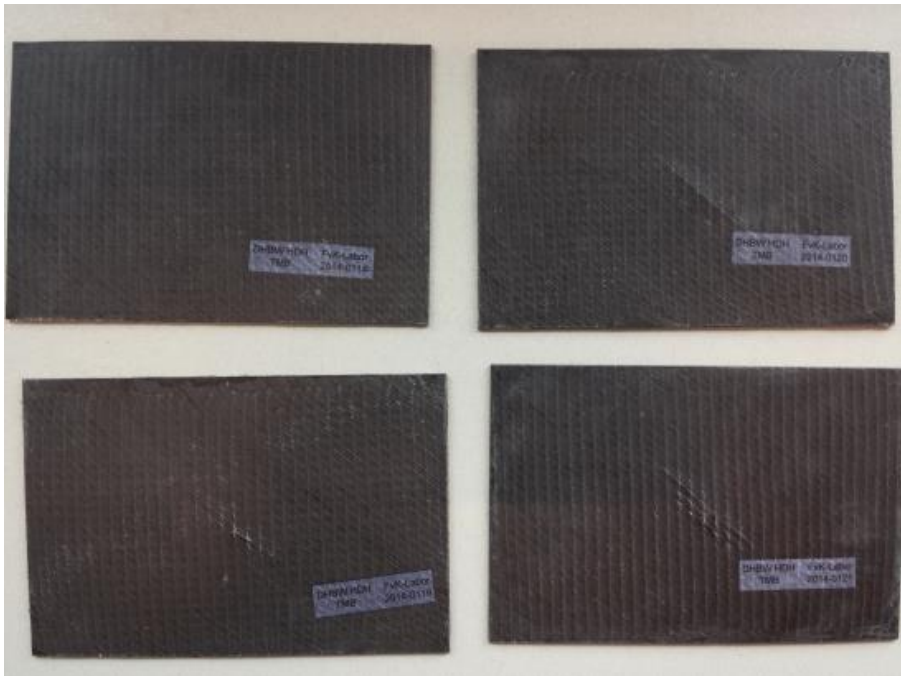
Drop weight tester from Zwick/Roell AG (left)
Manual impact test (right)

Repair Procedures

- Damaged test parts (GRP/CRP)



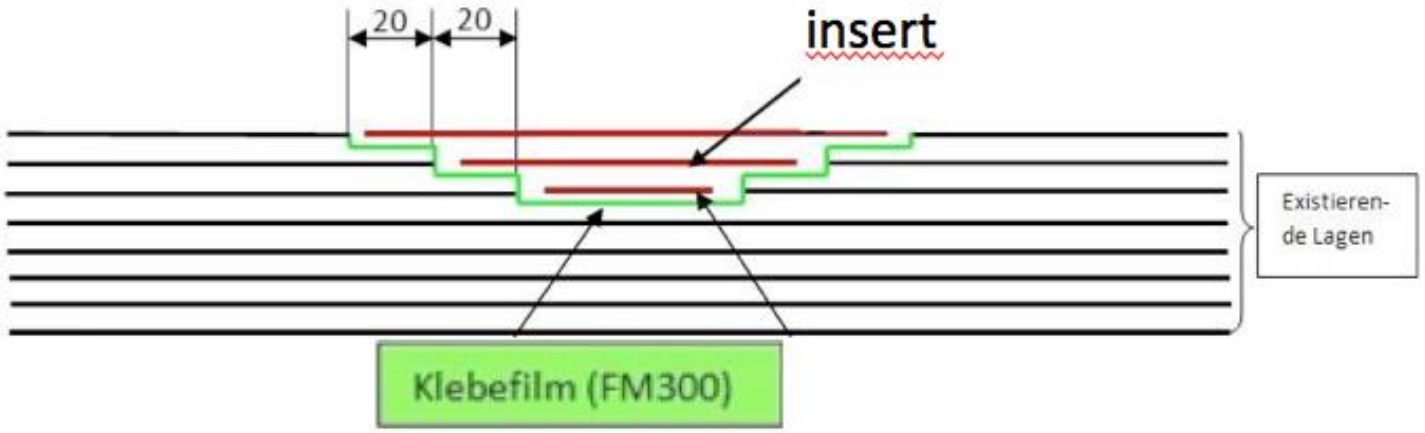
Damaged GRP parts



Damaged CRP parts

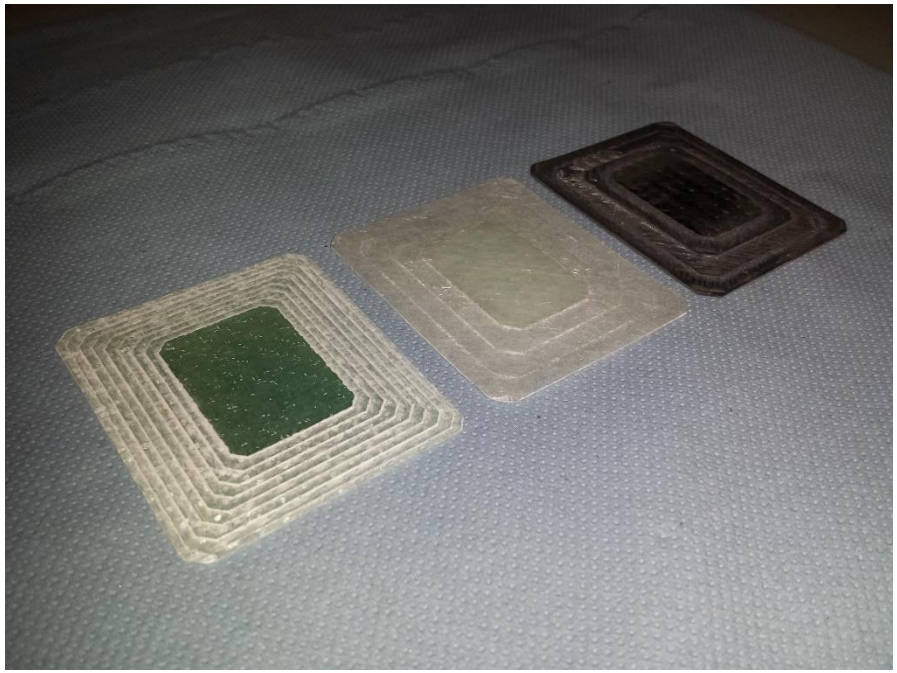
Repair Procedures

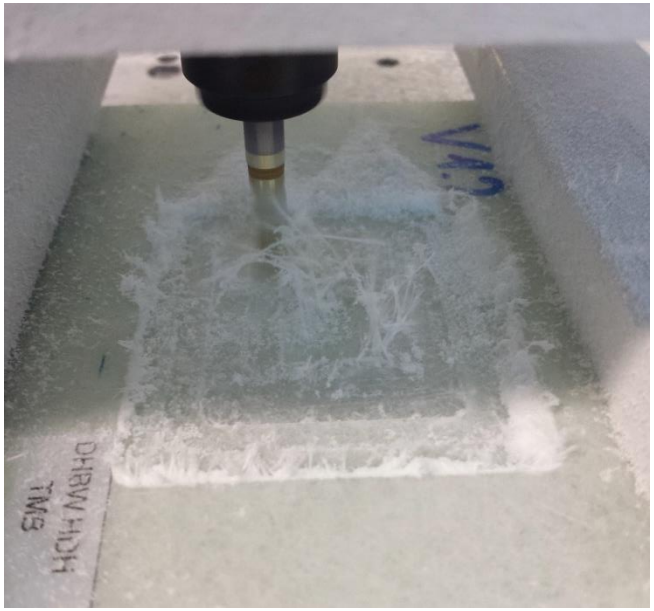
- Type 1 repairing procedure: dry inserts



Repair Procedures

- Manufacturing and treating of parts for repair



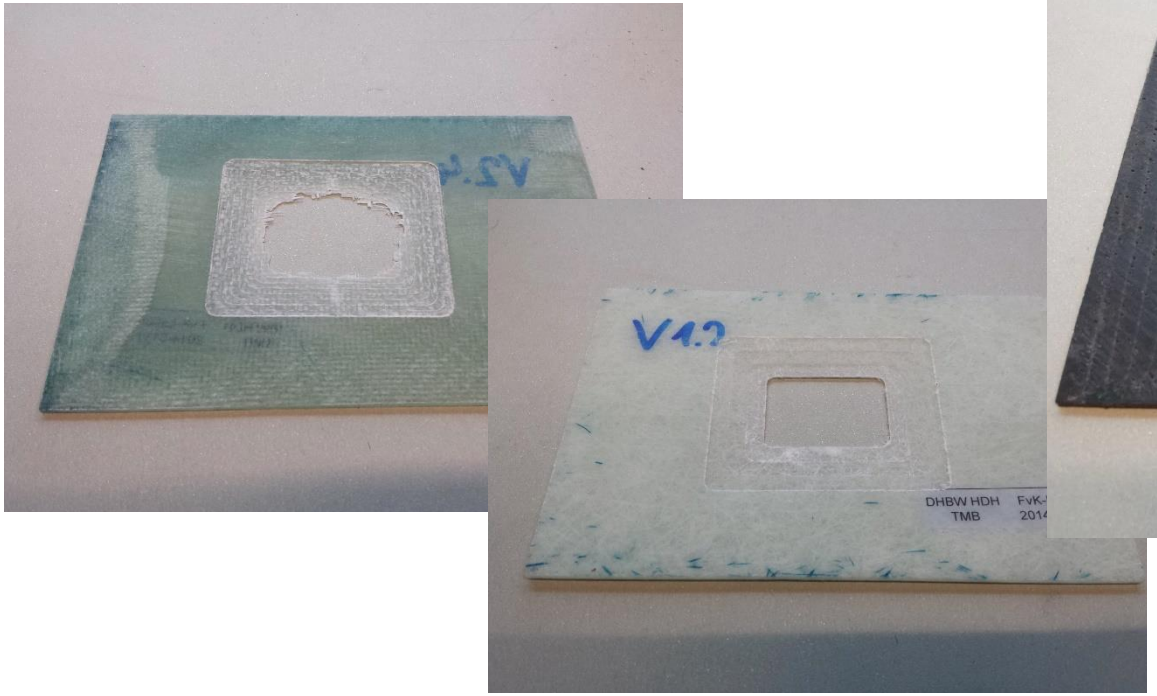


Milling of damaged parts

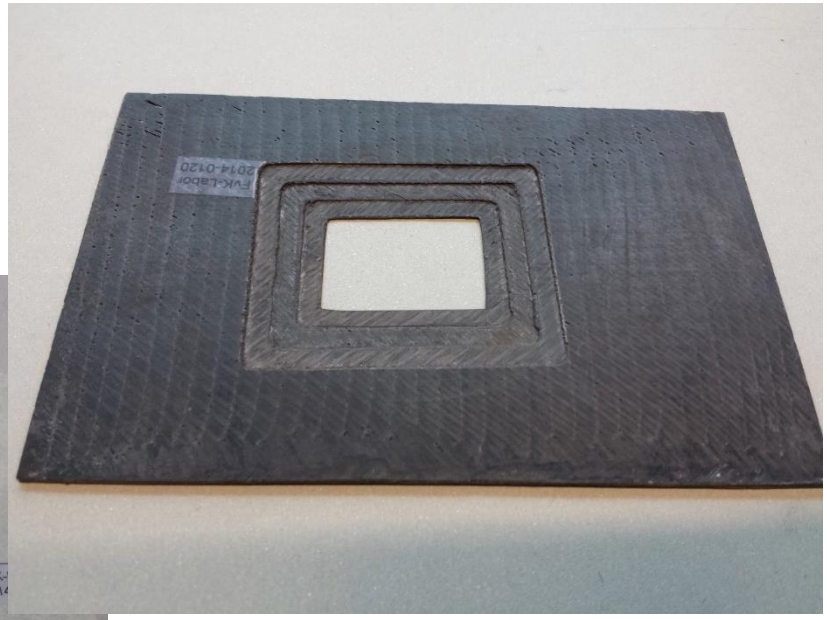
Positive parts

Repair Procedures

- Milled parts



Milled GRP parts



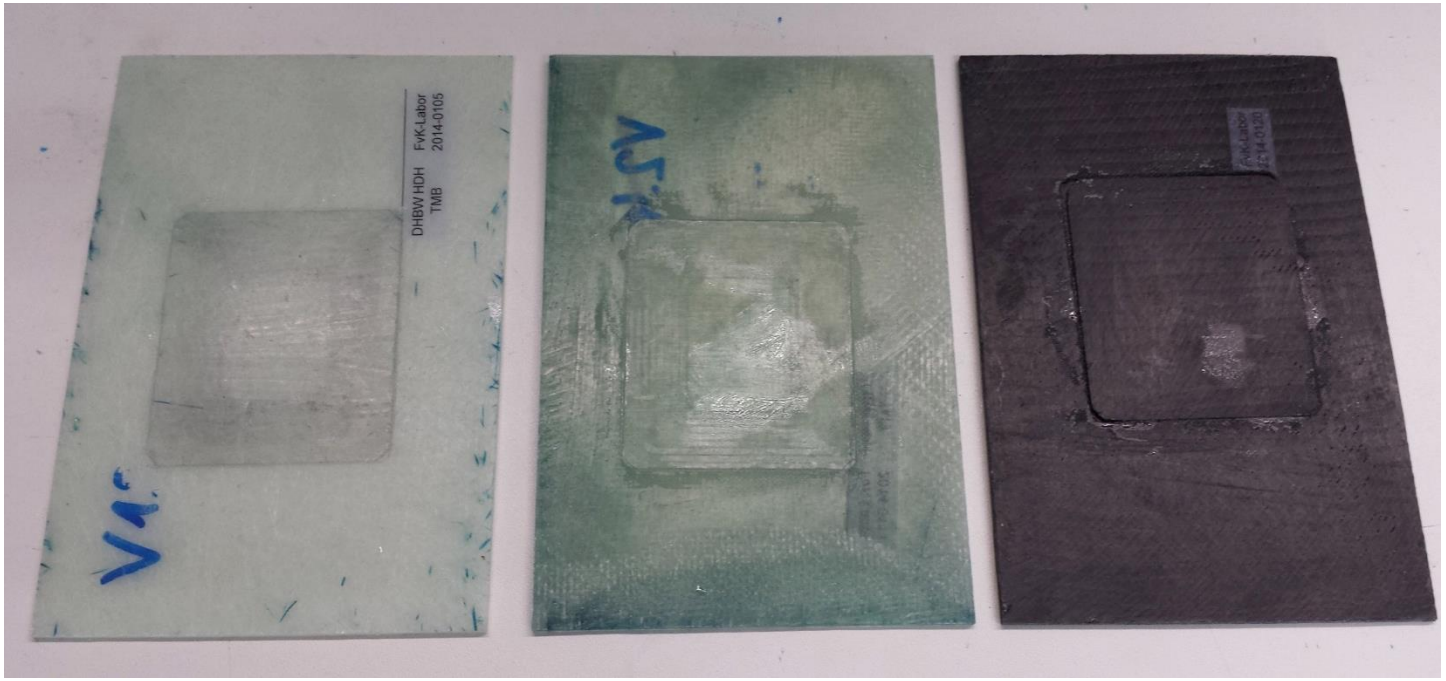
Milled CRP part

Repair Procedures

- Grouting of parts

Repair Procedures

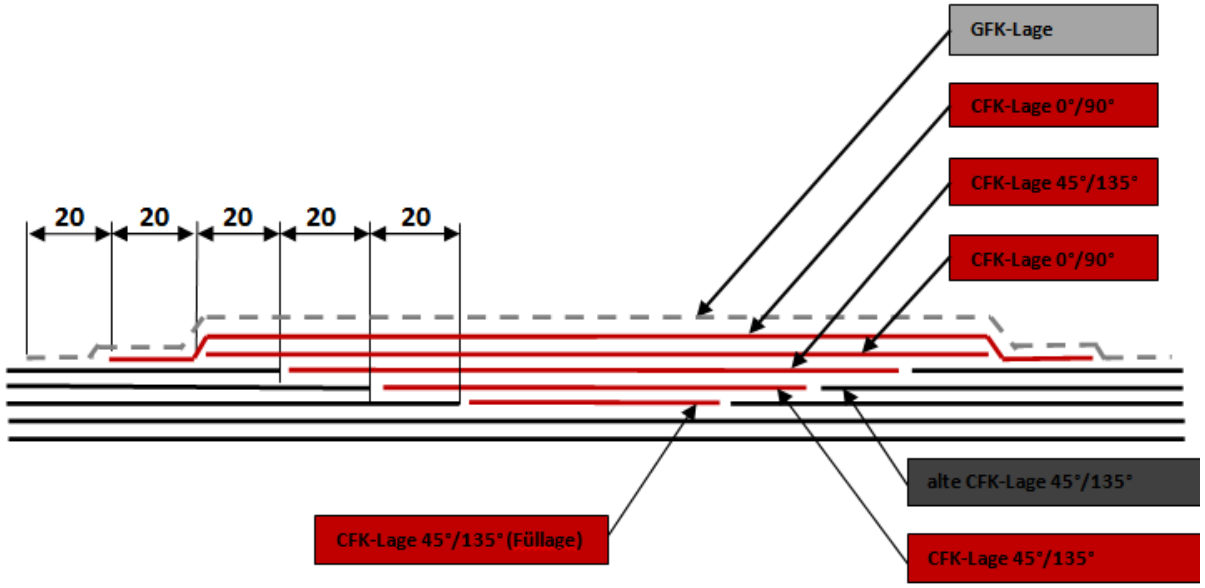
- Result of type 1 repair procedure



Milled GRP and CRP parts

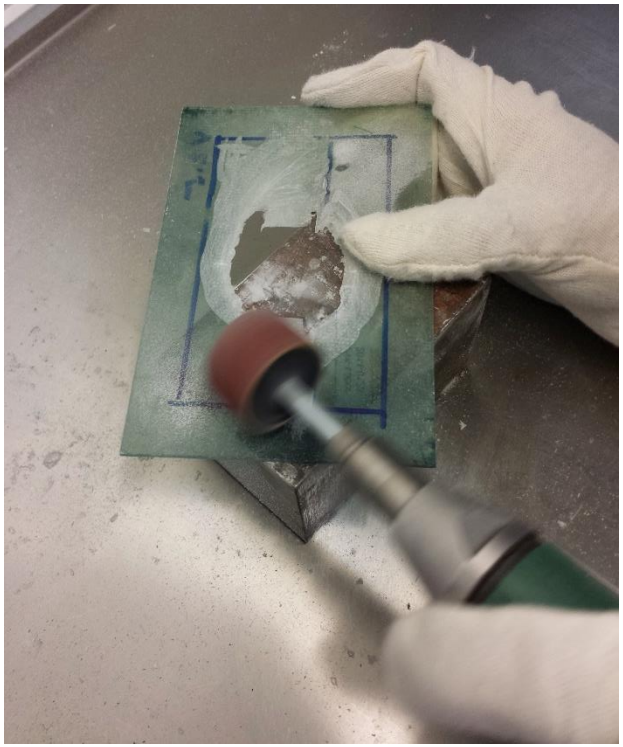
Repair Procedures

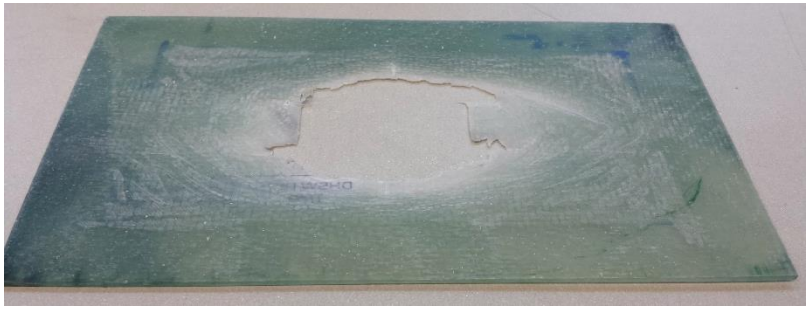
- Type 2 repairing procedure: wet laminating



Repair Procedures

- Grinding of damaged area

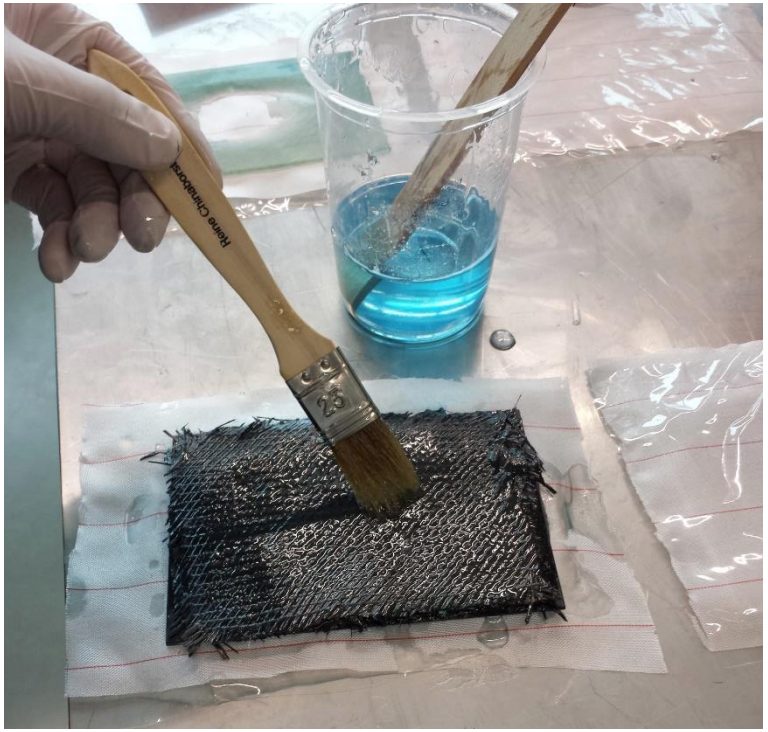




Milled GRP parts

Repair Procedures

- Adding new fibre mats



CRP part repair

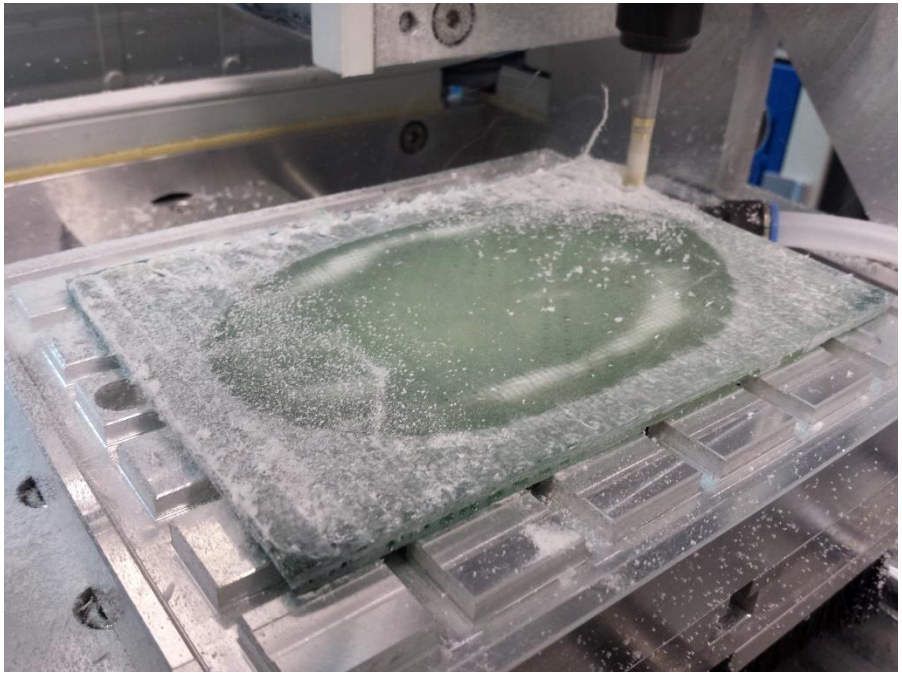
Repair Procedures

- Grouting of new and old fibres

GRP and CRP test parts

Repair Procedures

- Post processing of repaired test parts

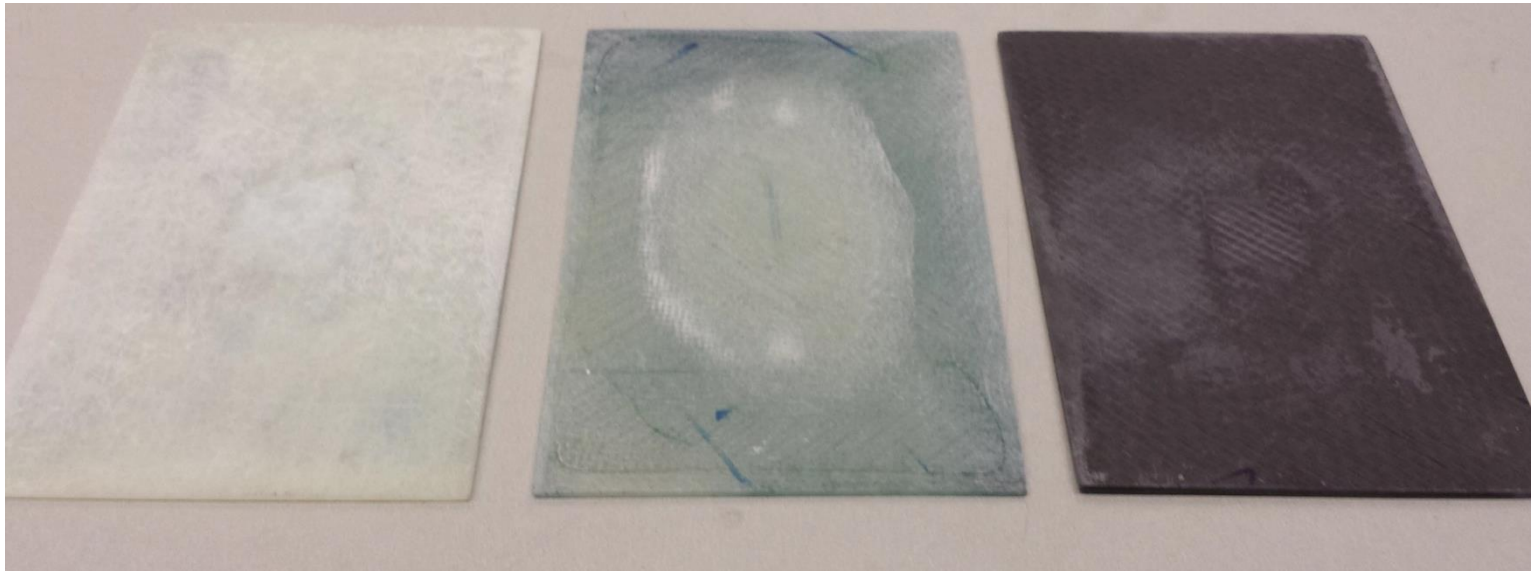


Milling of GRP test part

Grinding of GRP test part

Repair Procedures

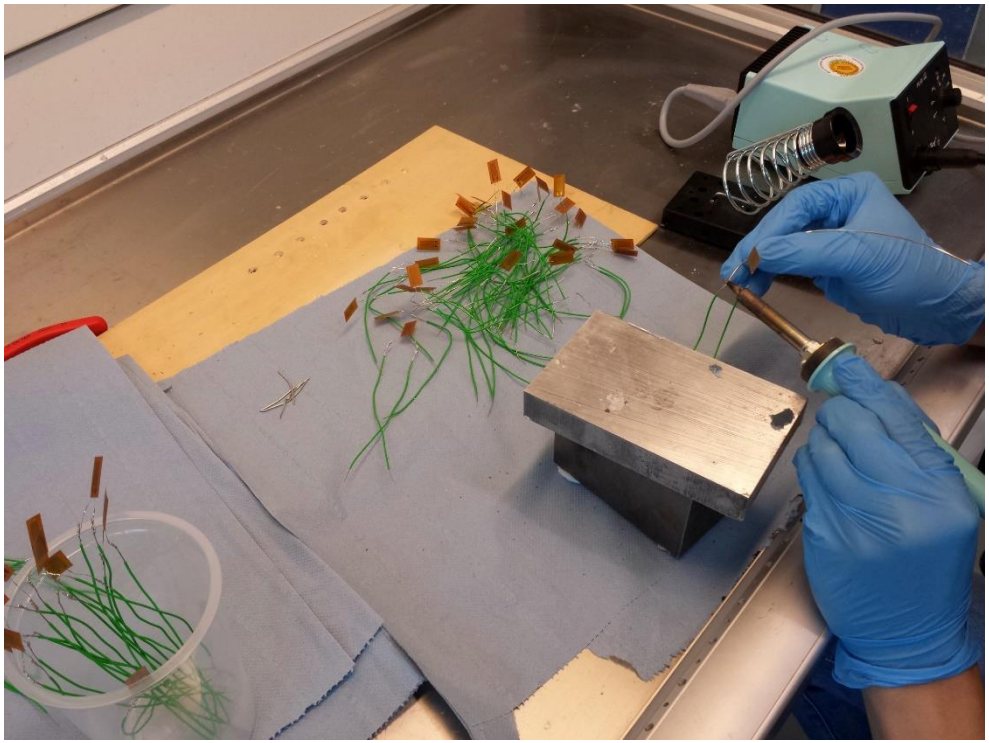
- Result of type 2 procedure



Repaired GRP and CRP test part

Repair Procedures

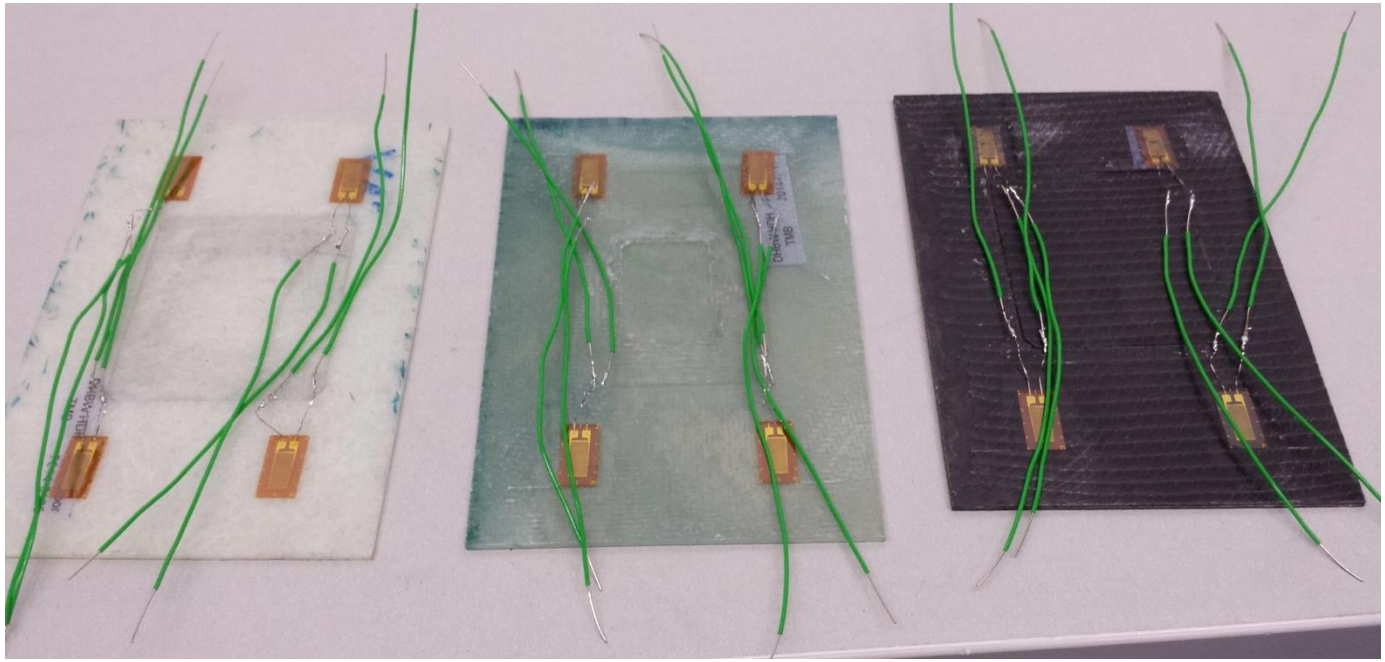
- Pre-processing test parts for Compression tests



Soldering of strain gauges

Repair Procedures

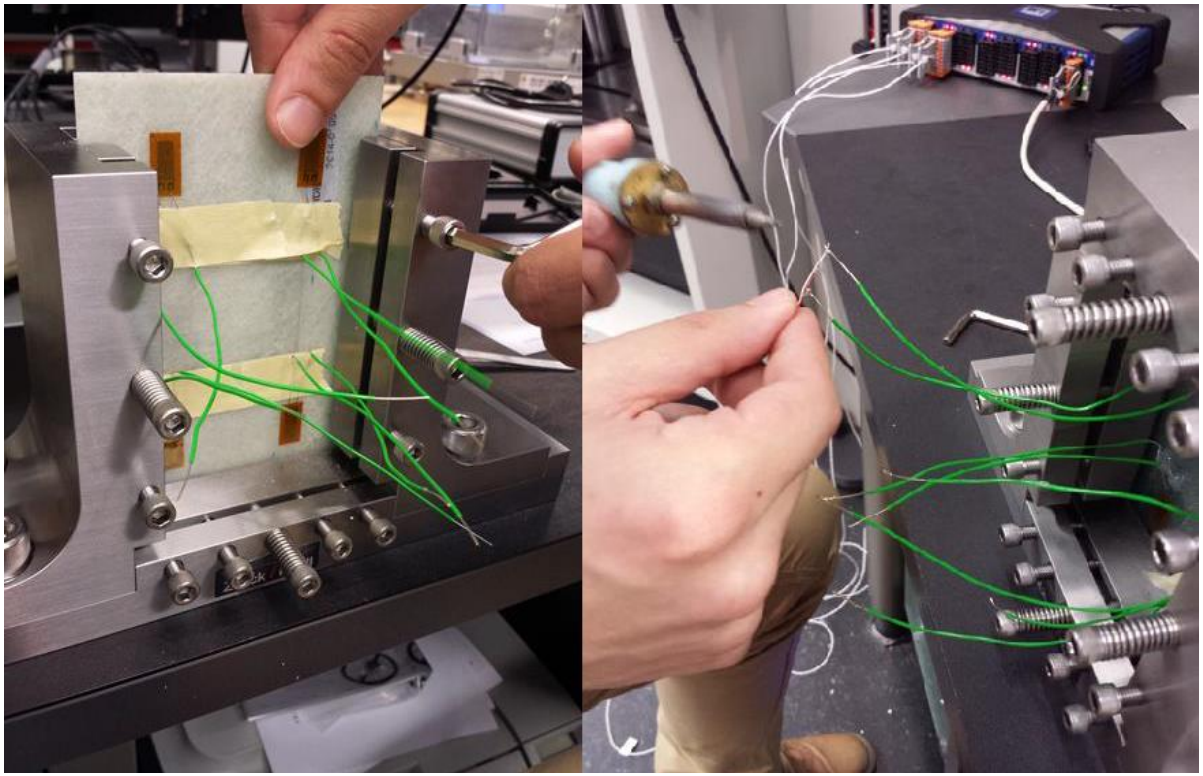
- Pre-processing test parts for Compression tests



Test parts with strain gauges – ready for compression tests

Repair Procedures

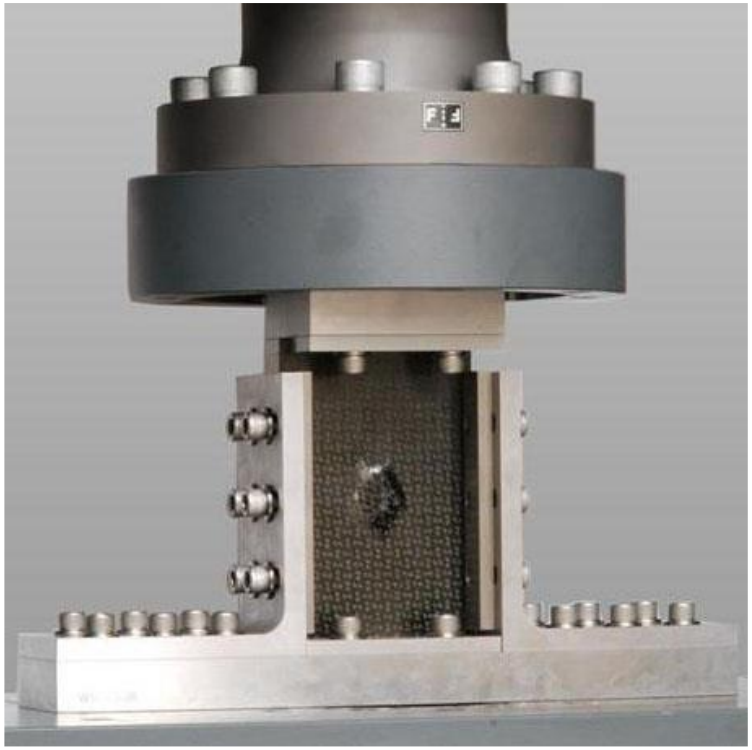
- Compression after impact tests



Connecting strain gauges with measurement equipment

Repair Procedures

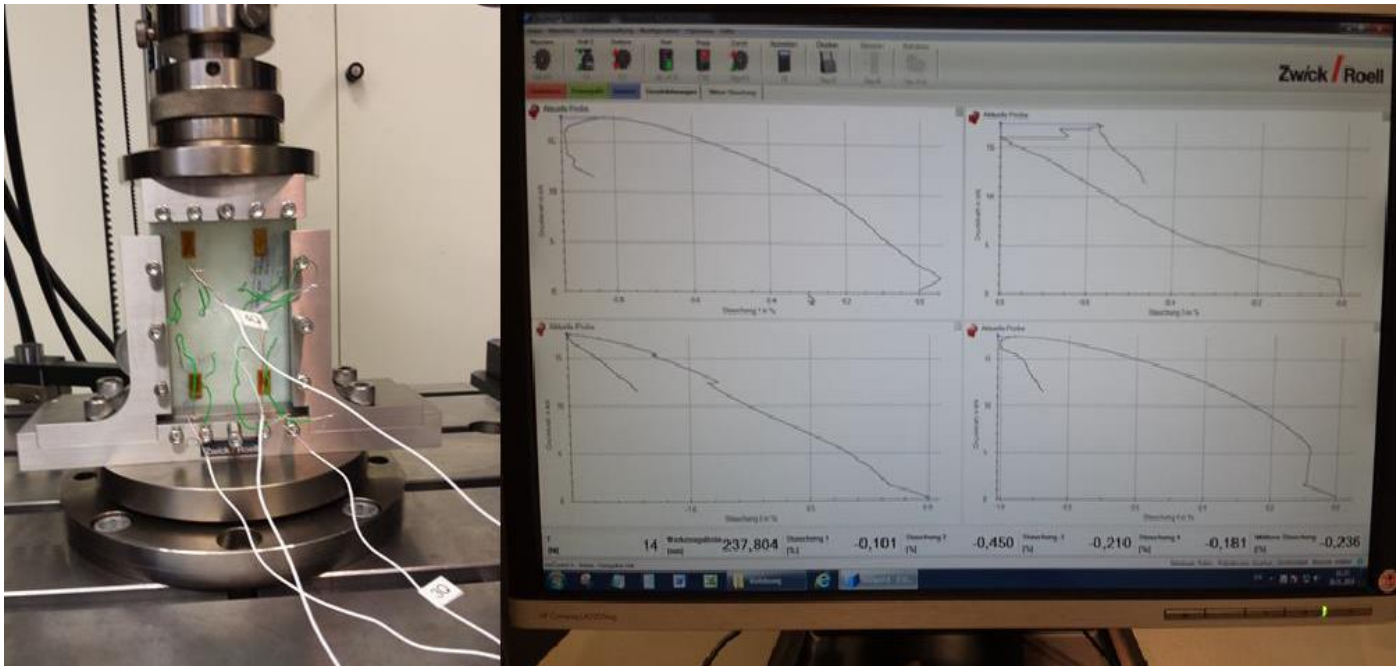
- Compression after impact (CAI) tests



Universal testing machine (left) and specimen holder tool (right)

Repair Procedures

- Result of CAI tests in software testXpert



Strain gauges adapted at testpart (left)
Stress-strain diagram (right)