

# TYPE EXAMINATION CERTIFICATE

**This is to certify:**

**That the Composite Repair Systems**

with type designation(s)

**Pipe and Tank Repair Calculation Tool version 2.0.3, Pipe and Tank Repair Calculation Tool version 2.1.3**

Issued to

**Henkel AG & Co. KGaA**  
**Garching, Germany**

is found to comply with

**ISO 24817:2018 "Petroleum, petrochemical and natural gas industries – Composite repairs for pipework – Qualification and design, installation, testing and inspection"**  
**ASME PCC2-2015 Part 4 – Article 4.1 "Nonmetallic Composite Repair Systems: High-Risk Applications"**

**Application :**

Issued at **Hamburg** on **2018-10-15**

for **DNV GL**

This Certificate is valid until **2023-10-14**.


DNV GL local station: **Hamburg Pressure & Underwater Technology**

Approval Engineer: **Henrik Derlien**

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**Harald Pauli**  
**Head of Section**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Examination Certificate and not to the approval of equipment/systems installed.





Job Id: **262.1-029777-1**  
Certificate No: **TAK000011G**  
Revision No: **1**

### **Product description**

This computer program provides the dimensions for the application of composite repairs to pipes and vessels depending on the kind and size of the defect to be repaired. Two different standards can be selected for calculation,

- ISO 24817:2018 in case of program version 2.1.3, respectively ISO 24817:2015 in case of program version 2.0.3 and
- ASME PCC2-2015 Part 4 - Article 4.1 for both version 2.0.3 and 2.1.3.

### **Type Examination documentation**

Please refer to the documentation 262.1-027671-1 and 262.1-029777-1