

Compiler Qualification Service

Your:

- toolchain
- configuration
- options
- environment

Achieve the tool confidence level that is required by functional safety standards

Language standard
ISO C or C++

Functional safety standard
IEC 61508
ISO 26262
EN 50128

Result
Qualification, Test Report & Mitigations



"The Compiler Qualification Service let us discover subtle compiler flaws in a short time.

Working with Solid Sands, we were able to define a compiler safety manual with mitigating actions and acceptance criteria for legacy code."

Tools & Methodology Specialist
Marelli Europe S.p.A.
Powertrain

"It was a very good collaboration, not just in terms of performing the compiler qualification but also in terms of explaining how everything worked. Solid Sands also identified very early on that if we changed the optimization level in the compiler, it could drastically reduce the number of rules we needed to adhere to and they were quite happy to stop work for several days while we sought internal approval for the change. When we analyzed the qualification report they provided, they also offered us support and advice when we had questions."

Senior Development Engineer
Sonceboz

"Our three compilers got certified and we are all happy. The work with you was effortless and pleasant. Thank you for your support."

Senior Software Engineer
Melexis



Solid Sands is the leading provider of compiler and library testing and qualification technology in North America, Europe and Asia. Our mission is to put quality into C. We do that by improving the quality of C and C++ compilers, libraries and analysis tools, and by enabling their safe and secure use. With the quality level of our test suites, we stay at the forefront of software testing and qualification to help you achieve ISO compliance and functional safety standard requirements.

Founded in 2014, Solid Sands is headquartered in Amsterdam, The Netherlands. With partners all over the world we serve both leading innovative companies in the semiconductor, IP and security industries as well as safety-critical companies in automotive, robotics, railway and medical.

Our SuperTest Compiler Test and Validation Suite provides a complete validation environment which enables customers to achieve the software quality level demanded by the ISO language and functional safety standards. Meanwhile, our SuperGuard C Library Safety Qualification Suite is a requirements-based test suite for the C standard library with full traceability between the requirements derived from the ISO C language definition and the individual library tests.

SOLID SANDS

from Amsterdam is the one-stop shop for
C and C++ compiler and library testing,
validation and safety services.