



Almost 50 years ago, the German construction company Julius Berger Tiefbau AG opened a branch in Nigeria for the construction of the Eko Bridge in Lagos. Today, Julius Berger Nigeria Plc is listed on the Nigerian stock exchange and provides construction solutions as well as facility services for numerous projects across Nigeria. The building materials are tested in high-quality in-house laboratories, in which numerous Memmert drying ovens are utilised for conditioning and drying materials.

Here to stay:

Julius Berger Nigeria Plc

Nigeria is a country of incredible diversity. Different vegetation zones from savannah woodlands and rain forest areas to vast mangrove swamps mark a contrast to many cosmopolitan and up-and-coming cities. The economic upturn of the West-african country in the 1950ies was based upon the oil reserves of the Niger Delta. Today, Nigeria is not only Africa's largest economy, but also a major emerging market and investment hub of the continent. For five decades now, Julius Berger has been committed to Nigeria. Engineering and construction services for large projects in the fields of structural and civil engineering, the gas and oil industry as well as industrial plants have played a large role in Nigeria's upswing. Julius Berger is the largest private employer in the country, employing approximately 18,000 people from 40 countries.

Highest quality standards

Julius Berger has executed a large number of infrastructure and building projects over its five decade long presence in Nigeria. The company's core values include a commitment to high quality as well as responsibility for employees and society. Besides a Health, Safety and Environment (HSE) management system, the company's quality management system conforms to requirements set by the Standards Organization of Nigeria (SON) and the International Standards Organization (ISO). In-house production sites and laboratories for quality testing ensure consistent high quality is used in construction projects.

Building material testing in Memmert drying oven

Memmert drying ovens have been used at country-wide Julius Berger building material laboratories to condition and



Memmert Universal oven U for building materials testing

Building materials testing at the BAM institute

At the Berlin-based BAM, the German Federal Institute for

dry building material samples. Tests, for example the determination of grain size distribution, are performed in accordance with international standards such as BS EN 933-1 or national standards. In addition to earth, sand, asphalt and aggregate, red laterite, which is often used as a building material in tropical regions, is also tested. The drying of building material samples until they are a constant mass is done at $110 \pm 5^\circ \text{C}$. Compressed asphalt samples are manufactured at temperatures between 145 and 150°C .

German Federal Institute for Materials Research and Testing, building material samples are conditioned in a cooled incubator IPP, a drying oven as well as in a climatic testing chamber CTC by Memmert.

[more information](#)

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An overview of the main topics

- Oven, drying oven
- Quality testing
- Building materials testing, conditioning
- Asphalt, sand, laterite, aggregate
- Building material samples
- Julius Berger Nigeria Plc

Picture credits: Julius Berger Nigeria Plc, Memmert

Laboratory appliances for drying and conditioning

[Universal Oven U](#)

[Cooled incubator IPP](#)

[Climatic test chamber CTC](#)

[Humidity chamber HCP](#)

[Constant climate chamber HPP](#)

[Climate chamber ICH](#)

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