



# Type approval for systems and components

## The GL seal of quality

### A challenge to your business

Type approval is mandatory for numerous maritime systems and components from the fields of mechanical engineering, electrical engineering and automation technology. In many other cases, certified products can open up new market segments and reassure potential customers about the quality of your products. Whether type approval is mandatory or simply beneficial, the reputation of the certifying body is a crucial factor. What you need is a highly credible seal of approval for your systems and components.

### The solution you need

If Germanischer Lloyd (GL) provides type approval for your products, you can be sure that this seal of approval will enjoy global acceptance and recognition. We offer our customers a high-quality technical service with our expertise and full support in the planning and implementation of type approval procedures. At GL we are totally committed to the traditional values of ocean-going shipping such as safety and reliability, and our engineers' know-how ensures these standards are maintained worldwide. We carry out type approvals according to our own GL Rules and regulations and to national and international standards and regulations. The principles of our type approval procedures and details of the necessary tests are listed in the GL Guidelines for the Performance of Type Approvals. For details please see our website [www.gl-group.com](http://www.gl-group.com) under Rules and Guidelines.

### GL – your best partner

Why choose GL for type approvals? Be ensured that your type approvals will be certified by highly qualified experts with many years of experience and the corresponding in-depth expertise. Moreover, GL's worldwide reputation for strict quality standards means global acceptance and recognition of the quality of your systems and components.

### Benefits that make all the difference

- GL's state-of-the-art know-how in the maritime, offshore and industrial sectors
- Global seal of approval for the quality of your systems and components
- Type approval opens the door to new maritime segments in that products can then be deployed in applications on ships and offshore installations that are subject to classification by GL
- Proof to your customers that you take your quality responsibilities seriously
- Publication of your certificates on the GL website, a quality reference for existing and potential customers
- Minimization of the risk of complaints
- Confirmation to your customers through an independent third party that your products are of the required quality

## Application samples



## GL performance of type approval process

The principles of type approval performance are set out in the GL Rules and Guidelines, under VI - Additional Rules and Guidelines, part 7 - "Guidelines for the Performance of Type Approvals". This guideline deals with processes, necessary tests and identification. It also sets out a schedule of responsibilities during implementation.

### Submission of application and specification documents to GL

Application for type approval is sent to GL head office.

### GL makes firm quotation to customer

Evaluation of price on the basis of projected expenditure in accordance with our pricelist.

### Contract awarded to GL

GL is commissioned to carry out verification of all documents as well as to participate in technical tests agreed upon.

### Examination and evaluation of documents submitted to GL

The documents are examined for conformity with the relevant rules and standards, to ensure they meet the criteria for the intended application.

### Determination of test scope

In consultation with the customer, test requirements are set according to the "Part 7, Guidelines for the Performance of Type Approvals" and/or other relevant test standards. Test specimens are selected.

### Testing of product

The tests are carried out on the basis of the GL Rules and Guidelines, the Guidelines for the Performance of Type Approval and/or other relevant standards that are agreed upon by GL and the customer. A product expert from GL is generally present during testing. Tests, which have not been witnessed by a GL representative, can be acknowledged. The test laboratory is selected by the customer after consultation with GL.

### Product audit

Production facilities are inspected to verify that relevant quality standards are met.

### GL Type Approval Certificate



#### Valid - 5 years

After successful completion of the process, GL issues a Type Approval Certificate. The certificate expires after five years. In order to guarantee five-year validity, measures must be in place to continue upholding the standard to which units were tested. If any modifications are carried out, the necessary information must be forwarded so that re-examination can be conducted.

## One-stop shopping at GL

You can save yourself time, money and hassle by combining type approval with other services provided by GL such as certification to **ISO 9001:2008**, **Alternative Product Certification (APC)**, **Manufacturer Approvals** or certifications/approvals according to EU Directives e.g. **Pressure Equipment Directive (PED)**.

Please take an information tour on our homepage [www.gl-group.com/supplyindustry](http://www.gl-group.com/supplyindustry) for more combinable products and services.

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