

Standards & Certification

Product standards define:

- Requirements, pass/fail criteria, performance parameters
- Test methods:
 - How to check if requirements are fulfilled
 - How performance is determined

Product certification states compliance with standards

Standards & Certification

Product standards are private/society/national/international agreements on:

- Requirements, pass/fall criteria
- Test methods: How to check if requirements are fulfilled

When **a sample of a product** type is tested according to a standard the result of the test will be **the performance of the specific sample tested and/or pass/fall statement for the specific sample according to criteria in the standard**

Society Standards:

- ASHRAE
- VDI
- ...

National Standards:

- SABS
- BSI
- DIN
- ANSI
- ...

International Standards:

- ISO → ISO Standards
- CEN → EN Standards

Test labs do the testing according to the standard

Standards & Certification

Product certification states compliance with defined standards:

- ❑ **All products produced** of same type fulfils the requirements in standard(s).

Certification schemes are private/society/national/international agreements on how to assure that the products sold are fulfilling the standard(s); typically by:

- ❑ Type testing
- ❑ Factory production control / quality management system / regular inspections at production lines (to assure that products sold are same as the product sample tested)

OR

- ❑ by manufacturers signature (declared conformity)

When a product type is certified, the certificate is valid for all **products sold** of this type

National Certification Schemes:

- ❑ DIN Geprüft
- ❑ CSTBat
- ❑ AU RECS
- ❑ Golden Sun
- ❑ ...

International Certification Schemes:

- ❑ **Solar Keymark**
- ❑ **SRCC**

Certification bodies engage test labs and inspectors to do the testing and inspection
Certification bodies checks if all requirements in standards and certification scheme are fulfilled

GLOBAL CERTIFICATION

