



Differences between EN 13445:2002 and EN 13445:2009

The 2009 edition of EN 13445 contains the 2002 edition of the standard and all Amendments and corrections issued in the meantime.

Significant technical changes include:

- Addition of rules covering pressure vessels and parts operating in the creep area. The design rules are covered in clause 19 of Part 3, but rules have also been added elsewhere in Parts 1-5 of the standard.
- Addition of rules for pressure vessels and parts constructed of aluminium and its alloys. This amendment is embodied in Part 8.
- Addition of rules for experimental design. These rules are contained in Annex T of Part 3.

NOTE When these rules were introduced in Amendments of EN 13445-3:2002, they were located in clause 20.

- Addition of rules for flat walls. These rules are included in clauses 20 and 21 of Part 3.

NOTE When these rules were introduced in Amendments of EN 13445-3:2002, they were located in clause 21 and 22.

- Addition of rules for increased design stresses for certain austenitic steels under certain conditions (the Alternative Route). These rules are included in subclause 6.3 of Part 3.
- Enlargement of Parts 2, 4 and 5 to accommodate pressure vessels and parts designed according to Annex B of Part 3 (DBA-Direct Route).
- Addition of two annexes of Part 1 (Using the standard and Index).
- Addition of a third set of flange design rules allowing consideration of leak rates. These rules are contained in Annex GA of Part 3.
- Addition of fatigue rules enlarging scope and materials for pressure vessels and parts made from spheroidal graphite cast iron. These rules are contained in Annex D of Part 6.