

# Competitiveness of EN13445

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Comparative study demonstrates competitiveness of European harmonised standard for unfired pressure vessels (EN 13445).

A recent EC-sponsored study comparing the total costs of pressure equipment designed using the new EN 13445, which replaces respective national standards in 28 European countries, and American Society of Mechanical Engineers Boiler & Pressure Vessel (ASME Section VIII) code has underlined the economic viability of the European standard. 10 examples of widely used pressure equipment were considered, including a gas storage tank, hydrogen reactor, stirring vessel, autoclave, water separator, air cooler header and three different types of heat exchangers, and compared different approaches: design to EN 13445, ASME VIII and design to modified ASME VIII for compliance with the European Pressure Equipment Directive 97/23/EC (PED).

Total costs were then assessed with the collaboration of several European manufacturers. In 7 out of the 10 examples EN 13445 proved to be the most economic design code. Additionally a number of safety and legislative issues were also analysed.

Please follow the link to review study:

[http://ped.eurodyn.com/standards/asme\\_comparative\\_study.html](http://ped.eurodyn.com/standards/asme_comparative_study.html)