

Reference No: CABF-R-009 rev2	Conformity Assessment Body Forum PED/SPV (CABF) CABF
Relation to PED: Annex III	CABF Recommendation
Question:	What must be considered by the Notified Body or user inspectorate when examining the design of pressure equipment in the context of modules B, G and H1?
Answer:	1. Limits of the Design Examination The examination covers the pressure-bearing walls of the pressure equipment to the pressure-equipment-side connection flanges, screw connections or, in the case of permanent connections, to the first joints. The examination also encompasses the load-bearing elements and the loads arising from reaction forces. For this purpose the documents submitted by the client for the design examination, alongside the specification (regulations, standard etc.), must contain all the details required for the examination of the pressure equipment. 2. Conduct of the Design Examination 2.1 The dimensioning of the pressure-bearing vessel parts is examined for compliance. In particular (but not only) to establish whether: - the pressure equipment reliably withstands the loads arising from the intended operating conditions (especially the permissible pressures and temperatures), - pulsating loads and additional loads (e.g. from bearing forces, wind and snow loads, nozzle forces/moments, stresses from temperature differentials) have been adequately considered in the design examination documents. <u>For this purpose the examiner</u> shall be able to carry out his own calculations and shall carry them out whenever he deems it necessary in order to check the conformity with applicable requirements of the Directive. 2.2 The design is examined for compliance. In particular, but not only, with a view to the following aspects: - Suitability of the materials according to Annex I Section 4 of the PED for pressure-bearing parts and for non-pressure-bearing, welded on parts, including the intended quality verification documents, - Suitability of the procedures for permanent joining and the filler materials of the joints, - Compliance with the design rules for joints and governing the avoidance of loads inappropriate for the materials, - Type of heat treatment before/after welding or forming, - Type and scope of the non-destructive and/or destructive testing, - Design appropriate for testing purposes with a view to the conduct of final assessment and proof test and, where relevant, the periodic in-service inspections and maintenance,

2.3 Result of the Design Examination

The result of the design examination is documented in an examination report, which will also contain essential information (such as cyclic loading, quick-acting closure, NDT) for manufacture and operation.

Reason: ---

Original Reference: CABF-R-009 rev1

Approved by CABF on: 2018-06-05/06

Note: The guideline also applies for the manufacturer's examiner in the context of module H.