



# **BSI Standards Publication**

# **Metallic industrial piping**

Part 7: Guidance on the use of conformity assessment procedures



# **National foreword**

This British Standard is the UK implementation of CEN/TR 13480-7:2017. It supersedes PD CEN/TR 13480-7:2002, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee PVE/10, Piping systems.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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**CEN/TR 13480-7** 

July 2017

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Supersedes CEN/TR 13480-7:2002

# **English Version**

# Metallic industrial piping - Part 7: Guidance on the use of conformity assessment procedures

Tuyauteries industrielles métalliques - Partie 7 : Guide pour l'utilisation des procédures d'évaluation de la conformité Metallische industrielle Rohrleitungen - Teil 7: Anleitung für den Gebrauch des Konformitätsbewertungsverfahrens

This Technical Report was approved by CEN on 19 June 2017. It has been drawn up by the Technical Committee CEN/TC 267.

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Cont	<b>ents</b>	age
Europ	ean foreword	3
1	Scope	4
2	Normative references	4
3	Terms and definitions	4
4 4.1	Application of the PEDGeneral	4
4.2 4.2.1	Conformity assessment proceduresGeneral	
4.2.2 4.2.3	Choice of conformity assessment procedures Conformity assessment procedures and the involvement of Responsible Authorities	
5	Subcontracting	5
Annex	A (informative) Conformity of industrial piping to the essential safety requirements of Directive 2014/68/EU (Pressure equipment directive)	6
A.1	Introduction	6
<b>A.2</b>	Conformity assessment procedure	6
A.3	Certification and CE marking	7
A.3.1	Declaration of conformity, CE marking	7
A.3.2	Notified body's identification mark and certificate	7
Annex	B (informative) Summary of inspection and testing activities	8
Bibliog	graphy	. 17

# **European foreword**

This document (CEN/TR 13480-7:2017) has been prepared by Technical Committee CEN/TC 267 "Industrial piping and pipelines", the secretariat of which is held by AFNOR.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes CEN/TR 13480-7:2002.

EN 13480, *Metallic industrial piping* consists of eight interdependent and not dissociable Parts which include:

- Part 1: General
- Part 2: Materials
- Part 3: Design
- Part 4: Fabrication and installation
- Part 5: Inspection and testing
- Part 6: Additional requirements for buried piping
- CEN/TR 13480-7, Guidance on the use of conformity assessment procedures
- Part 8: Additional requirements for aluminium and aluminium alloy piping

The significant technical changes between this Technical Report and the previous edition are:

- a general revision of this document to comply with PED 2014/68/UE;
- in Table A.1, inclusion of new Modules designation and addition of the Module G;
- in sub-clause A.3, revision of the documentation;
- in Table B.2, update of cross references for detailed requirements in EN 13480-4:2017 and EN 13480-5:2017.

NOTE These technical changes are the significant technical changes but it is not an exhaustive list of all modifications.

# 1 Scope

This Technical Report gives guidance on the use of conformity assessment procedures for industrial piping in relation to EN 13480.

#### 2 Normative references

Not applicable.

# 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

#### 3.1

# responsible authority

competent organization which is independent of the manufacturer

Note 1 to entry: For application within the jurisdiction of the European Union this organization may be a Notified Body or a user inspectorate where appropriate, according to module chosen and designated by a member state. For the purpose of this standard, all these organizations have been collectively termed "responsible authorities".

#### 3.2

#### fluid

gases, liquids and vapours in pure phase as well as mixtures thereof

Note 1 to entry: A fluid may contain a suspension of solids.

# 4 Application of the PED

## 4.1 General

According to the PED, the manufacturer shall determine for each industrial piping and pipeline:

- a) the category of the industrial piping and pipeline;
- b) the procedures to be applied to assess conformity of the industrial piping and pipeline with the requirements of the PED.

# 4.2 Conformity assessment procedures

# 4.2.1 General

The manufacturer shall subject each item of equipment to a procedure to assess the conformity with the essential requirements of the PED. Annex A describes the conformity assessment requirements of the PED. It is applicable to piping systems which are to be installed in an EU Member State.

# 4.2.2 Choice of conformity assessment procedures

The conformity assessment procedures to be applied to an item or pressure equipment with a view to affixing the CE marking shall be determined by the category in which the equipment is classified. The procedures that are to be applied for the various categories are given in Table A.1.

The manufacturer has the option of selecting between a procedure of conformity assessment involving a certified quality assurance system (if available) and one which does not.

The manufacturer may choose to apply one of the procedures which apply to a higher category.

## 4.2.3 Conformity assessment procedures and the involvement of Responsible Authorities

The manufacturer is responsible for ensuring that the requirements of this Technical Report, including inspection and testing activities, are fully applied. If a CE marking is sought, it is a requirement of the PED that (in many cases) there is a supplementary involvement of a Responsible Authority (e.g. Notified Body) to ensure the requirements of the PED are met.

The kind and extent of responsible authority involvement in inspection and testing activities will depend upon the conformity assessment procedure chosen by the manufacturer. For each appropriate conformity assessment procedure the participation is indicated in Table B.1.

Annex B has been provided in order to give guidance to the manufacturer so that he may be aware of the various stages where a responsible authority may be involved. Details of the inspection and testing activities are described in subsequent subclauses, the reference of which is given in Table B.1.

# 5 Subcontracting

The manufacturer is responsible for the fabrication and the installation, even if this work will be subcontracted to other fabricators and/or installers.

Where the manufacturer is producing the equipment under a conformity assessment procedure requiring intervention of a responsible authority, the manufacturer shall inform the responsible authority of his intention to subcontract so that the responsible authority has the opportunity to take part in the subcontractor surveillance.

Where the manufacturer is producing the equipment under a conformity assessment procedure based on quality assurance, e.g. D, H, H1, the controls the manufacturer applies over subcontractors shall be described in his appropriate quality system.

# Annex A

(informative)

# Conformity of industrial piping to the essential safety requirements of Directive 2014/68/EU (Pressure equipment directive)

# A.1 Introduction

This annex describes the conformity assessment requirements of Directive 2014/68/EU. It is applicable to piping systems which are to be installed in an EU Member State.

In the EU Member States, the authorized inspection bodies are identical to the notified bodies. 1)

# A.2 Conformity assessment procedure

Where piping is subject to the conformity assessment procedure, the manufacturer shall identify the appropriate piping category based upon the classification of the piping as defined in EN 13480-1:2017, Table 5.1-1, and subsequently shall select one of the conformity assessment modules available for that piping category in accordance with Table A.1.

NOTE The conformity assessment procedure attributed to a higher category can be applied to piping classified in a lower category.

The activities to be performed by the parties involved in each of the conformity assessment procedures during design and fabrication/installation of the piping in accordance with this European Standard are summarized in Annex B.

Table A.1 — Piping categories and conformity assessment modules

Category (PED)	<b>Category</b> (EN 13480-1)	Conformity assessment module considered in EN 13480	Conformity assessment module not considered in EN 13480
_	0	_	_
III	III	B (design type)+D, B (design type)+F, H	B (production type)+E, B (production type)+C2
II	II	A2, D1	E1
I	I	A	_

If the manufacturer selected a module applicable to PED Category IV, the following applies:

If module G is selected, the columns for B (design type) and F in Table B.2 shall be used.

If module H1 is selected, the columns H (without the requirements DESIGN) and B (design type) in Table B.2 shall be used.

<sup>1)</sup> For intervention of user inspectorates, see Article 16 of Directive 2014/68/EU (Pressure Equipment Directive).

# A.3 Certification and CE marking

# A.3.1 Declaration of conformity, CE marking

A declaration of conformity and CE marking (see EN 13480-4) shall be required if piping of Categories I, II and III is placed at a market in a country where the PED applies (see Table A.2).

# A.3.2 Notified body's identification mark and certificate

Where appropriate, the notified body's identification number shall be applied adjacent to the CE marking. Under module F, on satisfactory completion of final assessment the notified body shall issue an EC certificate of conformity.

Table A.2 — Declaration of conformity of final inspection for piping (form)

1 able A.2	— Decial action of col	normity of final hispection	tor piping (torm)
D	ECLARATION/CERTI	FICATE OF CONFORMITY FO	R PIPING
Description of piping	5		
Identification no./dra	wings no.		
manufactured by			
		(company)	
for			
	(p	lant/purchaser/purpose)	
Design conditions:			
PS [bar]			
TS <sub>max</sub> , TS <sub>min</sub> [°C]			
category			
conformity assessmen	it procedure		
name, address and nu	mber of the notified bo	ody	
	pe-examination certif rmity as appropriate	icate-design type, EU desig	gn-examination certificate or
DECLARATION/ OF D	ESIGN COMPLIANCE (s	see EN 13480-5, Figure A.1) n	o./by
DECLARATION of CO Figure A.2) no./by	MPLIANCE for FABRI	CATION, INSTALLATION AN	D TESTING (see EN 13480-5,
2014/68/EU (Pressu	ıre Equipment Direct		quirements of the Directive e fulfilment of the applicable demonstrated.  Signature
			- 0

# **Annex B** (informative)

# Summary of inspection and testing activities

The required involvement of the parties concerned is indicated in Table B.2 by letters in the appropriate conformity assessment columns as follows (see Table B.1 for relations between Actions and Modules):

- (M) action performed by fabricator, where specified in his manufacturing documents;
- M action performed by fabricator/installer;
- M/RA<sub>c</sub> action performed by fabricator/installer and checked by responsible authority;
- M/RA<sub>i</sub> action performed by fabricator/installer and monitored by responsible authority. Amount depends on complexity and familiarity of the piping fabricator/installer with that type of piping manufacture and the knowledge and experience of the responsible authority with the manufacturer;
- $M/RA_m$  action performed by fabricator/installer and monitored by responsible authority during visits within the quality system. Amount depends on complexity and familiarity of the piping fabricator/installer with that type of piping manufacture and the knowledge and experience of the responsible authority with the manufacturer's quality system;
- $M/RA_q$  action performed by fabricator/installer and checked by responsible authority during assessment of quality system/type examination;
- RA action performed by responsible authority.

Table B.1 — Relation between Actions and Modules

Action	Typically applied for Modules
M	all Modules
M/RA <sub>c</sub>	B + F
M/RA <sub>i</sub>	A2
M/RA <sub>m</sub>	D1, D, H
M/RA <sub>q</sub>	D1, D, H
RA	all Modules whithout A

0

Table B.2 — Summary of participation of the manufacturer and the authorized inspection body with respect to conformity assessment procedures

			Full quality assurance		Н	-	RA		
			Product verification		Fа	I	I		RA
		III	Type examination and product quality assurance/conformity to type		B (production type) + C2 B (production type)+ E		Not con in EN 13	7	
	Piping category		Production quality assurance	Module	Da	RA	I	See EN 13480-2:2017	1
	Piping		noitanimax9 ngisəO	Мо	B (design type)			See EN 13	
			Product quality assurance		E1		Not con	0,1	
		II	Production quality assurance		D1	RA	I		
			Internal manufacturer checks and monitoring final verification		A2		_		RA
		Ι	Internal control of manufacture		А	I	I		I
				Cross references for detailed requirements	2:5017 EN 13480-	I	I		I
Fre				Cross refe deta requir	4:5017 EN 13480-	I	I	l	5.1
					INSPECTION OPERATIONS	For fabrication/ installation, final inspection and testing	For design, fabrication/ installation, final inspection	Base material manufacturer	Pipework fabricator
					DOMAIN	Assessment and reassessment of quality system	and periodic audits of quality system	Technical capability of	manufacturer/ fabricator
							QUALITY SYSTEM AND		

×	M/RAq	l	M/RAq	M/RAq	M/RAq
M			RA	RA	RA
08+8	Vot considered in EN 13	I	13480	idered in EV	Not cons
Σ	I	I	M/RAq	M/RAq	M/RAq
Σ	Σ	RA	M/RAc	M/RAc	M/RAc
08480	Vot considered in EV 13	I	08480	idered in EN	Snoo fou
M	I	I	M/RAq	M/RAq	M/RAq
Σ	M/RAi	I	M/RAi	M/RAi	M/RAi M/RAq
Σ	I	I	M	M	М
9.4.2	9	A.1	I	I	ı
1	I	I	9.2	9.3	9.1
Validate technical documentation for design/manufacture and operation	Validation that the design data and manufacturing schedule complies with requirements of this standard and other contractual requirements	Issuing a Design Examination Certificate	Verification of appropriate and suitable qualified specifications for fabrication and installation	Verification that qualifications of WPS are suitable to the field of operation	Verification according to the field of operation
Design	Design validation	Design approval	Welding procedure specification	Approval of welding procedure qualification	Approval of welders and operators qualification
	DESIGN			WELDING QUALIFICATION	
	Design		ecification	ds noitallation sp	Fabrication/I

M/RAq	M/RAq	M/RAq	Σ	Μ	M		
RA	RA	RA	M/RAi	M	M		
13480	M3 ni bered in EM	оэ той	13480	M3 ni bered in EM	oo toM		
M/RAq	M/RAq	M/RAq	M	М	M		
M/RAc	M/RAc	M/RAc					
13480	nsidered in EN	Not co	13480	onsidered in EN	Not co		
M/RAi M/RAq	M/RAi M/RAq	M/RAq	M	M	×		
M/RAi	M/RAi	M/RAi	M	M	M		
Σ	Σ	M	Σ	М	M		
I	I	7.2	l	I	I		
7.1	7.1	7.4	5.2	5.2	5.2		
Verify approval for forming operation to be carried out	Verify procedures available for cold and hot forming for the materials in question	Verify tolerances and quality of formed parts	Verification that all materials and components supplied are appropriately identified	Ensure that all dimensions, ratings and material type are as required in the relevant documents	Ensure that all materials, prefabricated pipework and components are undamaged		
	Approval of procedures and examination		Identification	Correct materials	and components		
	FORMING			MATERIALS AND COMPONENTS SUPPLIED (received inspections			
	noi:	n specificat	oitallatanl\noi				

×	M/RAm	M/RAm	×	M/RAq	M/RAq
M/RAi	M/RAi	M/RAi	M/RAi	M/RAi	M/RAi
13480	Sidered in EN	not toN	ed in EN 13480	ıəbisnoə 1	οN
Σ	M/RAm	M/RAm	Ø	X	M/RAm
I	I	I	I	I	I
13480	Sidered in EM	поэ тоИ	ed in EN 13480	rebisnos t	oN
Σ	Σ	Σ	×	×	M/RAq
Σ	M/RAi	M/RAi	×	M/RAi	M/RAi
M	M	M	M	Σ	M
I	7.2.2	7.2	7.3	7.3	
6.2	I	I	6.1	2.6	9.3
Verification of the transfer of marking of materials and identification of pipework and components by appropriate method	Ensure certificate type is correct and results complies with materials specification	Verification that the chemical and physical requirements are met including heat treatment, adequate protection and any additional request	Verification of compliance with procedures and drawing including: material type, main dimensions, alignment, position and orientation of branches and nozzles, attachments, anchors	Examination of weld set- up including cut edges, cleanliness, tack welds	Verification that WPS are being complied with
Marking transfer	Review of material certificate	Components supplied	Weld edge and preparation for welding		Welding, including adjustment and repair
	MATERIALS AND COMPONENTS SUPPLIED (received inspections)	•	IN-PROCESS EXAMINATION		
noit		Fabrication/Installa	noitasifisəqs noitalla	etsn1/noiti	Fabrica

×	M/RAq	×	M/RAq	M	×	M/RAq
M	M/RAc	Σ	M/RAi	M/RAc	M	M/RAc
	in EN 13480	onsidered	o toV	2N 13480	asidered in I	Not con
M	М	Σ	М	М	M	M/RAm
				I	l	I
	in EN 13480	onsidered	э тоИ	08481 N3	ısidered in I	лоэ той
M	М	Σ	М	М	Σ	M/RAi M/RAm
×	M/RAi	×	M/RAi	×	×	M/RAi
M	M	×	M	М	×	M
7.3	7.3	7.3	7.3	9.1	I	7.4
				8		7 9.14
Verify temporary attachments are welded according to approved procedures	Visual examination of completed welds (prior to any post-weld heat treatment if possible)	Verify that welds are correctly identified in accordance with this EN	Verify temporary attachments are properly removed and permanent attachment welds are according to drawing	Verification of conformance to drawing for supports, anchors position, type and marking of valves, cold pull earthing	Take off points are marked on permanent side indicating the fluid contained	Verify that heat treatment carried out is in accordance with material standard and procedures
	Welding,	adjustment and repair		Installation of pipework including adjustment and repair	Specific requirements for pipework	Post-forming and post-weld heat treatment
	IN-PROCESS	EXAMINATION		INSTALLATION		HEAT TREATMENT
noita	oficon specific	sllstanl/no	Fabricatio	n specification	/Installatior	Fabrication

M/RAm	M/RAq	M/RAq	M/RAq	M/RAq	M/RAq	M/RAq	M/RAq	M/RAm	M/RAm
M/RAc	M/RAc	M/RAc	M	M	M	M	M	M/RAc	M/RAc
1 in EN 13480	oonsidereo	тоИ	Not considered in EN 13480				o foV		
M/RAm	M/RAq	M/RAq	M/RAq	M/RAq	M/RAq	$\mathrm{M/RA}_{\mathrm{q}}$	M/RAq	M/RAm	M/RAm
	l	M/RAc	I		I	Ι	I	I	I
1 in EN 13480	considerec	toV	Not considered in EN 13480				э тоИ		
M/RAm	M/RAq	M/RAq	M	Σ	N	M	Σ	M/RAm	M/RAm
M/RAi	M/RAi	M/RAi M/RAi M/RAi M/RAi M/RAi M/RAi						M/RAi	
M	Z Z Z Z Z Z Z						М		
8.1.1	8	8.4.3	8.4	8.4	8.4	8.4	8.4	8.4.4	9.2.4
I	I	I	1	1	1	1	1	I	I
Prior to pressure test and application of coating/insulation: verification that fabrication has been completed in accordance with design specification	Verify that procedures meet the requirements of this standard	Verification of validity of operators and supervisors qualification for the relevant NDT	Carry out RT	Carry out UT	Carry out MT	Carry out PT	Carry out other NDT	Review NDT reports for compliance with procedure	Review NDT extent for compliance with the requirements of the manufacturing schedule or this standard
Visual examination	Approval of NDT procedures	NDT personnel			Non-destructive testing	)			Extent of NDT and reports
		NON	DESTRUCTIVE TESTING						
		gui	теѕт						

M/RAq	M/RAm	M/RAm	M/RAm	M/RAq	M/RAq
M/RAc	M/RAc	M/RAc	M/RAc	M/RAc	M/RAc
EN 13480	ni bərəbisno	oo toM		Not considered in EN 13480	
M/RAq	M/RAm	M/RAm	M/RAm	$ m M/RA_q$	M/RAq
I	I	I	I	I	
EN 13480	ni bered in	ээ тоИ			
M/RAi M/RAm	M/RAm	M/RAm			
M/RAi	M/RAi	M/RAi			
X	Σ	M			
9.3	9.1, 9.3	9.1, 9.3.3	9.2.2	9.2.4 A.2	9.4.1
I	I	I	I	I	
Examination of the calibration reports for the measuring equipment used in pressure tests, dimensional and other acceptance examination or tests	Verification of test procedure and witness of pressure test, visual examination	Verification of test procedure, additional safety requirements, additional NDT, witness pressure test, visual examination	Verification of dimensions and orientations, not previously verified	Verification that manufacturing documentation complies with applicable requirements of this standard	Issue and verification of a design and manufacturing documentation package
Calibration of measuring equipment	Pressure test (hydrostatic)	Pressure test (pneumatic)	Final visual examination	Documentation	Final report
	PROOF TEST			FINAL	
	quəwssəsse	s Isni7		Final assessment	

PD CEN/TR 13480-7:2017 (E)

											n examination.	vith module B desigr	Require combination with module B design examination.	В
I	RA	Not cons		l	Not cons	I	I	M/RAq	M/RAi	М	Authorized inspection body's certificate of conformity of the test carried out	Certificate of conformity		
M	M	ni bered in	M		ni bərəbis	M	M	M/RAm	M/RAi	M	Manufacturer's declaration of conformity of the piping	Declaration of conformity	CONFORMITY	
M/RAq	M/RAc	EN 13480	M/RAq	I	EN 13480	M/RAq	Not considered in EN 13480	M/RAm	M/RAi	×	Verification that required stamping (manufacturer's mark, authorized inspection body's mark) has been made	Marking		

# **Bibliography**

- [1] EN 13480-1:2017, Metallic industrial piping Part 1: General
- [2] EN 13480-2:2017, Metallic industrial piping Part 2: Materials
- [3] EN 13480-4:2017, Metallic industrial piping Part 4: Fabrication and installation
- [4] EN 13480-5:2017, Metallic industrial piping Part 5: Inspection and testing



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