CEN/TC 267/WG 8/MHD « *Maintenance of EN 13480 series* » Answers to MHD Questions of 2018 Series EN 13480-1-2-3-4-5-6 and -8:2017

MHD Question	Subjects	MHD answers	Subsequent actions	MHD answers
N°		doc. N°		to questioners
	- (
1-001-2018	References	N 100	-	2018-12-03
1-002-2018	ICS	N 100	-	2018-12-03
2-001-2018	Clause B.3.2	N 100	to CEN/TC 267/WG 2	2018-12-03
3-001-2018	References	N 100	in EN 13480- 3:2017/prA1	2018-12-03
3-002-2018	Clause 12.3.1	N 100	in EN 13480- 3:2017/prA2	2018-12-03
3-003-2018	Clause 12.3.3	N 100	-	2018-12-03
3-004-2018	Annex A	N 100	in EN 13480- 3:2017/prA3	2018-12-03
3-005-2018	German version	N 100	-	2018-12-03
3-006-2018	Corrections	N 100	in EN 13480- 3:2017/prA1	2018-12-03
3-007-2018	Clause 5.2.5.2	N 100	in EN 13480- 3:2017/prA1	2018-12-03
3-008-2018	Clause 6.6.4 Annex D	N 100	-	2018-12-03
3-009-2018	Clause 8.4.3	N 100	-	2018-12-03
3-010-2018	Clause 5.2.2.1	N 100	-	2018-12-03
4.001-2018	Clause 11.2.2	N 100	to CEN/TC 267/WG 4	2018-12-03
4-002-2018	OJEU	N 100	in EN 13480- 4:2017/prA1	2018-12-03
5-001-2018	Clause 9.3.4	N 100	to CEN/TC 267/WG 5	2018-12-03
5-002-2018	Clause 8.1.2	N 100	to CEN/TC 267/WG 5	2018-12-03
5-003-2018	Clause 9.3.3	N 100	-	2018-12-03
8-001-2018	Corrections	N 100	to CEN/TC 267/WG 8/MHD	2018-12-03



Request reference number(to be filled by MHD): 1-001-2018Date: 2018-01-26					
Please fulfil the	following				
Part: EN 13480-1	lssue: 2017	Page 6	Sub	clause 2	National Standard Reference English version
<u>Subject</u> : Possible e	errors encountered	d while translat	ting star	ndards into	Swedish
Type of request:	🗌 Tech	nical clarificati	on	\boxtimes	Editorial correction
	🗌 Tech	nical comment	t		Translation correction
From :					
Company :SIS, Sw	edish Standards Iı	nstitute	••••	e-mail: p	ierre.caråpentier@sis.se
Name Pierre Carpe	ntier			phone: +	
Postal address :					
		·····			
Manufacturer	🗌 User	🛛 Other (please s	specify):	
		Consu	ltant		
Question/commer	<u>nt</u> :				
Delete the referenc	es to EN 764-2:20	2 and EN 764	-3:2002	and repla	ce by EN 764-1:2015+A1 and EN 764-2:2012
					-
Proposed answer(s	<u>;)</u> : *				
Delete the referenc	es to EN 764-2:20	2 and EN 764	-3:2002	and repla	ce by EN 764-1:2015+A1 and EN 764-2:2012
			0.2002		
May-be to include in EN 13480-1:2017/prA1					
Answer from the MHD (to be filled by MHD):					
Already corrected in the Final draft Amendment EN 13480-1:2017/FprA1 submitted to Formal Vote.					
To be sent to EN 13480 Maintenance Group secretariat:			EN Sta F 9 e-r	l 13480 Ma andardizat 92038 Pari nail: <u>en134</u>	aintenance Group secretariat c/o UNM ion Office on behalf of AFNOR s La Défense Cedex – France <mark>480@unm.fr</mark>



Please fulfil the following Part: Issue: Page Subclause National Standard Reference EN 13480-1 2017 N/A N/A SFS-EN 13480-1:2017 Subject: EN 13480-1:2017 is in a wrong ICS group Editorial correction Type of request: Technical clarification Editorial correction Technical comment Translation correction From : Company : METSTA e-mail :ville.saloranta@metsta.fi Name : Ville Saloranta e-mail :ville.saloranta@metsta.fi Name : Ville Saloranta phone : +358505764643 Postal address : Eteläranta 10 00131 Helsinki Finland phone : +358505764643 Manufacturer User Ø Other (please specify): standards writing body for SFS Question/comment: Regarding ICS grouping, EN 13480-1:2017 appears to be in 23.040.03 - Pipelines and its parts for external water conveyance systems, whereas other parts are in 23.040.01 - Pipeline components and pipelines in general. Proposed answer(s): * * For EN 13480-1:2017, change ICS group from 23.040.03 to 23.040.01. Answer from the MHD (to be filled by MHD): ICS is managed by ISO, International Classification System for standards. Correct ICS is indicated in the Final Draft amendment EN 134	Request reference number(to be filled by MHD): 1-002-2018Date: 2018-01-26						
Part: EN 13480-1 Issue: 2017 Page N/A Subclause N/A National Standard Reference SFS-EN 13480-1:2017 Subject: EN 13480-1:2017 is in a wrong ICS group Form SFS-EN 13480-1:2017 Subject: EN 13480-1:2017 is in a wrong ICS group Editorial correction Type of request: Technical clarification Editorial correction From : Technical comment Translation correction Company : METSTA	Please fulfil the	following					
Subject: EN 13480-1:2017 is in a wrong ICS group Type of request: Technical clarification Technical comment Translation correction From : Company : METSTA	Part: EN 13480-1	lssue: 2017	Page N/A	Sub N	clause I/A	National Standard Reference SFS-EN 13480-1:2017	
Type of request: Technical clarification Editorial correction Translation correction Translation correction From : Company : METSTA	<u>Subject</u> : EN 13480	0-1:2017 is in a wr	ong ICS group)			
Technical comment Translation correction From : Company : METSTA e-mail :ville.saloranta@metsta.fi metsta.fi Name :Ville Saloranta phone : +358505764643 phone : +358505764643 metsta.fi Postal address : Eteläranta 10 00131 Helsinki Finland Imanufacturer Imanufactu	Type of request:	t:					
From : e-mail :ville.saloranta@metsta.fi Company : METSTA e-mail :ville.saloranta@metsta.fi Name :Ville Saloranta phone : +358505764643 Postal address : Eteläranta 10 00131 Helsinki Finland phone : +358505764643 Manufacturer User Other (please specify): standards writing body for SFS Question/comment: Regarding ICS grouping, EN 13480-1:2017 appears to be in 23.040.03 - Pipelines and its parts for external water conveyance systems, whereas other parts are in 23.040.01 - Pipeline components and pipelines in general. Proposed answer(s): * For EN 13480-1:2017, change ICS group from 23.040.03 to 23.040.01. Answer from the MHD (to be filled by MHD): ICS is managed by ISO, International Classification System for standards. Correct ICS is indicated in the Final Draft amendment EN 13480-1:2017/FprA1. To be sent to EN 13480 Maintenance Group EN 13480 Maintenance Group secretariat c/o UNM Standardization Office on babol: of AENICP		🗌 Tech	nical commen	t		Translation correction	
Company : METSTA e-mail :ville.saloranta@metsta.fi Name : Ville Saloranta phone : +358505764643 Postal address : Eteläranta 10 00131 Helsinki Finland phone : +358505764643 Manufacturer User Other (please specify): standards writing body for SFS Question/comment: Regarding ICS grouping, EN 13480-1:2017 appears to be in 23.040.03 - Pipelines and its parts for external water conveyance systems, whereas other parts are in 23.040.01 - Pipeline components and pipelines in general. Proposed answer(s): * For EN 13480-1:2017, change ICS group from 23.040.03 to 23.040.01. Answer from the MHD (to be filled by MHD): ICS is managed by ISO, International Classification System for standards. Correct ICS is indicated in the Final Draft amendment EN 13480-1:2017/FprA1. To be sent to EN 13480 Maintenance Group secretariat: EN 13480 Maintenance Group secretariat c/o UNM Standardization office on behalf of 4 ENOP	From :						
Name :Ville Saloranta phone : +358505764643 Postal address : Eteläranta 10 00131 Helsinki Finland phone : +358505764643 Manufacturer User Other (please specify): standards writing body for SFS Question/comment: Regarding ICS grouping, EN 13480-1:2017 appears to be in 23.040.03 - Pipelines and its parts for external water conveyance systems, whereas other parts are in 23.040.01 - Pipeline components and pipelines in general. Proposed answer(s): * For EN 13480-1:2017, change ICS group from 23.040.03 to 23.040.01. Answer from the MHD (to be filled by MHD): ICS is managed by ISO, International Classification System for standards. Correct ICS is indicated in the Final Draft amendment EN 13480-1:2017/FprA1. To be sent to EN 13480 Maintenance Group secretariat: EN 13480 Maintenance Group secretariat c/o UNM standardization Office on babelie of AEDOR	Company : METST	A			e-mail :vi	ille.saloranta@metsta.fi	
Postal address : Eteläranta 10 00131 Helsinki Finland Manufacturer User Other (please specify): standards writing body for SFS Question/comment: Regarding ICS grouping, EN 13480-1:2017 appears to be in 23.040.03 - Pipelines and its parts for external water conveyance systems, whereas other parts are in 23.040.01 - Pipeline components and pipelines in general. Proposed answer(s): * For EN 13480-1:2017, change ICS group from 23.040.03 to 23.040.01. Answer from the MHD (to be filled by MHD): ICS is managed by ISO, International Classification System for standards. Correct ICS is indicated in the Final Draft amendment EN 13480-1:2017/FprA1. To be sent to EN 13480 Maintenance Group sceretariat: EN 13480 Maintenance Group Standardization Office on bable of A ENOP.	Name :Ville Salorar	nta			phone : +	+358505764643	
☐ Manufacturer ☐ User ☑ Other (please specify): standards writing body for SFS Question/comment: Regarding ICS grouping, EN 13480-1:2017 appears to be in 23.040.03 - Pipelines and its parts for external water conveyance systems, whereas other parts are in 23.040.01 - Pipeline components and pipelines in general. Proposed answer(s): * For EN 13480-1:2017, change ICS group from 23.040.03 to 23.040.01. Answer from the MHD (to be filled by MHD): ICS is managed by ISO, International Classification System for standards. Correct ICS is indicated in the Final Draft amendment EN 13480-1:2017/FprA1. To be sent to EN 13480 Maintenance Group secretariat c/o UNM secretariat: EN 13480 Maintenance Group secretariat c/o UNM	Postal address : Eteläranta 10 00131 Helsinki Finland						
Standards writing body for SFS Question/comment: Regarding ICS grouping, EN 13480-1:2017 appears to be in 23.040.03 - Pipelines and its parts for external water conveyance systems, whereas other parts are in 23.040.01 - Pipeline components and pipelines in general. Proposed answer(s): * For EN 13480-1:2017, change ICS group from 23.040.03 to 23.040.01. Answer from the MHD (to be filled by MHD): ICS is managed by ISO, International Classification System for standards. Correct ICS is indicated in the Final Draft amendment EN 13480-1:2017/FprA1. To be sent to EN 13480 Maintenance Group EN 13480 Maintenance Group EN 13480 Maintenance Group secretariat c/o UNM	Manufacturer	🗌 User	🛛 Other (please s	specify):		
Question/comment: Regarding ICS grouping, EN 13480-1:2017 appears to be in 23.040.03 - Pipelines and its parts for external water conveyance systems, whereas other parts are in 23.040.01 - Pipeline components and pipelines in general. Proposed answer(s): * For EN 13480-1:2017, change ICS group from 23.040.03 to 23.040.01. Answer from the MHD (to be filled by MHD): ICS is managed by ISO, International Classification System for standards. Correct ICS is indicated in the Final Draft amendment EN 13480-1:2017/FprA1. To be sent to EN 13480 Maintenance Group secretariat c/o UNM standardization Office on backet of AENOP.			standards	standards writing body for SFS			
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Proposed answer(s): * For EN 13480-1:2017, change ICS group from 23.040.03 to 23.040.01. Answer from the MHD (to be filled by MHD): ICS is managed by ISO, International Classification System for standards. Correct ICS is indicated in the Final Draft amendment EN 13480-1:2017/FprA1. To be sent to EN 13480 Maintenance Group secretariat c/o UNM Standardization Office on babelit of AENOR	Regarding ICS grou conveyance systen	uping, EN 13480-1 <i>is</i> , whereas other	1:2017 appear parts are in 23	s to be i 3.040.01	n 23.040.0 ' - Pipeline	03 - Pipelines and its parts for external water a components and pipelines in general.	
For EN 13480-1:2017, change ICS group from 23.040.03 to 23.040.01. Answer from the MHD (to be filled by MHD): ICS is managed by ISO, International Classification System for standards. Correct ICS is indicated in the Final Draft amendment EN 13480-1:2017/FprA1. To be sent to EN 13480 Maintenance Group secretariat c/o UNM secretariat:	Proposed answer(s	<u>)</u> : *					
Answer from the MHD (to be filled by MHD): ICS is managed by ISO, International Classification System for standards. Correct ICS is indicated in the Final Draft amendment EN 13480-1:2017/FprA1. To be sent to EN 13480 Maintenance Group secretariat: EN 13480 Maintenance Group secretariat c/o UNM Standardization Office on behalf of AENOR	For EN 13480-1:2017, change ICS group from 23.040.03 to 23.040.01.						
To be sent to EN 13480 Maintenance Group EN 13480 Maintenance Group secretariat c/o UNM secretariat: Standardization Office on boost of AENOR	Answer from the MHD (to be filled by MHD): ICS is managed by ISO, International Classification System for standards. Correct ICS is indicated in the Final Draft amendment EN 13480-1:2017/FprA1.						
F 92038 Paris La Défense Cedex – France e-mail: <u>en13480@unm.fr</u>	To be sent to EN 13480 Maintenance Group EN secretariat: St e- e-			l 13480 Ma andardizat 2038 Pari nail: <u>en13</u> 4	aintenance Group secretariat c/o UNM ion Office on behalf of AFNOR s La Défense Cedex – France 480@unm.fr		



Request reference number (to be filled by MHD): 2-001-2				<mark>018</mark>	Date: 2018-01-26		
Please fulfil the	following						
Part: EN 13480-2	lssue: 2017	Page B.3.2	Page Subclause B.3.2 Annex B		National Standard Reference NF EN 13480-2:2017		
<u>Subject</u> : Understar	nding of B.3.2 of A	nnex B of EN	13480-2	2:2017			
Type of request:	est:				Editorial correction		
	Technical comment				Translation correction		
From :							
Company : Servive	SCI – Groupe OR	TEC		e-mail : philippe.metral@ortec.fr			
Name : Philippe ME	TRAL			phone :			
Postal address : Parc de Pichaury				+33 (0) 4.42.12.16.42 +33 (0) 6 24 61 26 68			
13799 Aix en Provence Cedex 03							
☐ Manufacturer		Other (\square Other (please specify):				
]		standards	standards writing body for SFS				



Question/comment:

Could you enlighten us on the understanding of § B.3.2 of Annex B of EN13480-2, Reduced test specimens, namely:

- Table B.3-1 - Charpy V-notch impact flexural fracture energy requirements for reduced dimensions where the base material is less than 10 mm thick

We understand that when we are obliged to produce reduced test specimens on base materials with a thickness of less than 10 mm, we take corrected energy values according to the dimensions of the specimens. (eg for 5x10mm - 14J specimens if 27J requirement on 10x10mm specimens).

The question is: should we also apply in this case a temperature correction equivalent to the dimensions of the specimens (for our example -25°C) according to "Table B.3-2 - Equivalent requirements for the energy of rupture in impact bending when smaller specimens are taken from thicker sections ", or this table only applies to base material thicknesses greater than 10mm for which normal test specimens could not have been (10x10mm)?

If not, what is the need to speak of lower dimensions in Table B.3-1?

Or we apply the same methodology as the ASME to know, explanation by examples:

 KCV	es	e

es : charpy specimen thickness

e_B : material thickness

As a sum up of tables B.3-1 and B.3-2 of NF EN 13480-2 2012, 6 cases are possible : **Case 1 : e_B > 10mm and e_S = 10mm** If the base criterion is 27J for 10x10 KCV specimen, then $E_{KV} = 27J$, specimen is 10x10, $T_{TEST} = T_{KV}$ If the base criterion is 40J for 10x10 KCV specimen, then $E_{KV} = 40J$, specimen is 10x10, $T_{TEST} = T_{KV}$

Case 2 : $e_B > 10mm$ and $e_S = 7.5mm$

If the base criterion is 27J for 10x10 KCV specimen, then $E_{KV} = 20J$, specimen is 7.5x10, $T_{TEST} = T_{KV} - 5$ If the base criterion is 40J for 10x10 KCV specimen, then $E_{KV} = 30J$, specimen is 7.5x10, $T_{TEST} = T_{KV} - 5$

Case 3 : $e_B > 10mm$ and $e_S = 5mm$

If the base criterion is 27J for 10x10 KCV specimen, then E_{KV} = 14J, specimen is 5x10, T_{TEST} = T_{KV} - 20 If the base criterion is 40J for 10x10 KCV specimen, then E_{KV} = 20J, specimen is 5x10, T_{TEST} = T_{KV} - 20

Case 4 : 7.5 < e_B < 10mm and e_S = 7.5mm

If the base criterion is 27J for 10x10 KCV specimen, then E_{KV} = 20J, specimen is 7.5x10, T_{TEST} = T_{KV} If the base criterion is 40J for 10x10 KCV specimen, then E_{KV} = 30J, specimen is 7.5x10, T_{TEST} = T_{KV}

Case 5 : 7.5 < $e_{\rm B}$ < 10mm and $e_{\rm S}$ = 5mm

If the base criterion is 27J for 10x10 KCV specimen, then E_{KV} = 14J, specimen is 5x10, T_{TEST} = T_{KV} - 15 If the base criterion is 40J for 10x10 KCV specimen, then E_{KV} = 20J, specimen is 5x10, T_{TEST} = T_{KV} - 15

Case 6 : $5 < e_B < 7.5$ mm and $e_S = 5$ mm

If the base criterion is 27J for 10x10 KCV specimen, then E_{KV} = 14J, specimen is 5x10, T_{TEST} = T_{KV} If the base criterion is 40J for 10x10 KCV specimen, then E_{KV} = 20J, specimen is 5x10, T_{TEST} = T_{KV} When e_s < 5mm, no charpy test performed.

Proposed answer(s): *

Thank you in advance for clarifications that you could bring us.



Answer from the MHD (to be filled by MHD):

Yes, this table only applies to base material thicknesses greater than 10 mm. Clause B.3.2 will be clarified. New paragraph in B.3.2 "*When the base material thickness is below 10mm the temperature reduction in table B.3-2 do not apply.*". New work item to be adopted for updating EN 13480-2:2017.

Case 1 : $e_B > 10mm$ and $e_S = 10mm \rightarrow MHD$ answer is yes Case 2 : $e_B > 10mm$ and $e_S = 7.5mm \rightarrow MHD$ answer is yes Case 3 : $e_B > 10mm$ and $e_S = 5mm \rightarrow MHD$ answer is yes Case 4 : 7.5 < $e_B < 10mm$ and $e_S = 7.5mm \rightarrow MHD$ answer is yes Case 5 : 7.5 < $e_B < 10mm$ and $e_S = 5mm \rightarrow MHD$ answer is no $T_{TEST} = T_{KV}$ Case 6 : 5 < $e_B < 7.5mm$ and $e_S = 5mm \rightarrow MHD$ answer is yes

To be sent to EN 13480 Maintenance Group secretariat:	EN 13480 Maintenance Group secretariat c/o UNM Standardization Office on behalf of AFNOR F 92038 Paris La Défense Cedex – France e-mail: <u>en13480@unm.fr</u>



Request reference number (to be filled by MHD): 3-001-2018 Date: 2018-01-26						
Please fulfil the f	ollowing					
Part: EN 13480-3	lssue: 2017-06	Page -	Sub	clause -	National Standard Reference English version	
<u>Subject</u> : Normative references						
Type of request:	🛛 Techni	cal clarificatio	on		Editorial correction	
	🛛 Techni	cal comment			Translation correction	
From : Title : Mr Last name : Vrucinic First name : Goran Organization name / company name : TPK Zavod dd Function : senior welding engineer (dipl.ing.,EWE) Address 1 : Slavonska avenija 20 Postal code : 10000 Town : Zagreb Country : CROATIA					goran.vrucinic@tpk-zavod.hr	
Manufacturer	User 🗌	⊠ Other (p senior w	☑ Other (please specify): senior welding engineer			
Question/comment: Dear Sir, in EN 13480-3, normative references , there is no mentioned / not specified EN 10253-2. <u>Proposed answer(s)</u> : * Should it be ? Thank you , best regards						
Answer from the MHD (to be filled by MHD):EN 10253-2 is not referenced in the normative part of EN 13480-3:2017, this is the reason that it is not included in the list of normative references of Clause 2 (CEN Rules). The alternative is to reference this standard in the Bibliography of EN 13480-3:2017. This modification will be taken within the draft amendment EN 13480-3:2017/prA1 to be submitted to CEN Enquiry.To be sent to EN 13480 Maintenance Group secretariat:EN 13480 Maintenance Group secretariat c/o UNM Standardization Office on behalf of AFNOR F 92038 Paris La Défense Cedex – France e-mail: en13480@unm.fr						



Request reference number(to be filled by MHD): 3-002-2018Date: 2018-01-26						
Please fulfil the	following					
Part: EN 13480-3	lssue: 2017-06	Page §12.3.1	Subcla	ause	National Standard Reference 	
Subject: Corrosion considered for the calculations of flexibility						
Type of request:	🔀 Tech	nical clarificati	on		Editorial correction	
🛛 Technical comment				Translation correction		
<u>From</u> :						
Company: DST Co	mputer Services S	A (HEXAGON	IPPM) e	e-mail: irenee.cornaton@hexagon.com		
			р	phone: +33 6 13 14 02 32		
Name: CORNATO	N	•••••				
Postal address: 81 avenue Louis CASAI – CH-1216 GENEVE SWITZERLAND						
Manufacturer	User	🖂 Other (Other (please specify):			
		HEXAGO and PIPES	HEXAGON PPM is Editor of piping calculations software CAESAR II and PIPESTRESS			



Question/comment:

The EN13480 code Ed. 2017 requires in §12.3.1:

"In the equations ... for stress calculation, for second moment of area, sectional modulus and stress intensification factor, a wall thickness (e_n - c_0) is used to ensure the design stress criteria are met. If necessary, two calculations with e_n as well as with (e_n - c_0) shall be carried out. For the calculation of support loads and reactions (see 12.3.9) the nominal wall thickness shall be considered".

1) Possible inconsistency

The corrosion is considered for the section modulus Z in every code that we know of. For the SIFs, it depends on the code: sometimes it is explicitly required to use the nominal geometry (e.g. in CODETI), sometimes it is not specified. In those cases corrosion is only applied on the postprocessing, after the calculation of the mechanical solution based on the nominal geometry.

EN13480 Ed.2017 requires to consider that the corrosion also applies to the rigidity of the structure (see "second moment of area"), so the mechanical solution is affected.

But in this case, why is the corrosion not considered for the flexibility factors FIFs ? As it is no specified in the code, does it means we should use corroded inertias with non-corroded FIFs ? But then the mechanical solution would result of a calculation mixing corroded and nominal geometry to obtain the values of inertias.

2) Request for clarification

EN13480 Ed.2017 requires to perform two calculations: corroded calculation and nominal calculation. EN13480 Ed.2017 lists the concerned values : "for second moment of area, sectional modulus and stress intensification factor".

But why shall we use the nominal value for Z ? Indeed, Z is the single value for which the corrosion is always conservative.

Should the sentence be understood as:

- First calculation with all corroded values: I, Z and SIF (for FIF, we don't known, see point 1)
- Second calculation with nominal values I, FIF, SIF and <u>corroded</u> value Z instead of nominal value.
- 3) <u>Warning on the possible complexity to interpret the results</u>

We need to generate two mechanical solutions: from corroded rigidity and from nominal rigidity. Then, we have to calculate the stresses for the two solutions, and to keep the most conservative ones. We believe that the reports might be confusing:

- Reactions: based on the nominal geometry ("For the calculation of support loads and reactions (see 12.3.9) the nominal wall thickness shall be considered.").
- Forces / moments : we believe they should be based on the geometry that produced the max stress in order to be interpreted. But then it means that they can change for each element and each equation.
- Displacements / Rotations : which mechanical solution should be displayed ? The one obtained from nominal geometry, the one from the corroded geometry or a mix of both, as for the forces and the moments ?

Proposed answer(s): *

We are afraid that opting for the calculation of the two different mechanical solutions would leads to difficulties in the interpretation of the results. After all, the corrosion is treated as if it was a uniform phenomena, even though it is known that the corrosion is concentrated at some places. We would then suggest to:

- Use the nominal rigidity for generating one single mechanical solution (usually, the thermal moments are greater with the nominal geometry instead of the corroded geometry)
- Use the corroded Z (always conservative)
- Take the maximal SIF : max(SIF_nominal, SIF_corroded) (≥ 1)

Answer from the MHD (to be filled by MHD):

This issue is covered within the draft amendment EN 13480-3:2017/prA2 to be submitted to CEN Enquiry.

To be sent to EN 13480 Maintenance Group	EN 13480 Maintenance Group secretariat c/o UNM
secretariat:	Standardization Office on behalf of AFNOR
	F 92038 Paris La Défense Cedex – France
	e-mail: <u>en13480@unm.fr</u>



Request reference number (to be filled by MHD): 3-003-2018 Date: 2018-01-26					
Please fulfil the	following				
Part: EN 13480-3	lssue: 2017-06	Page 152	Sub 12	clause 2.3.3	National Standard Reference SS-EN 13480-3:2017
<u>Subject</u> : Gravity					
Type of request:	🛛 Tech	nical clarificati	on		Editorial correction
	🛛 Tech	nical comment	t		Translation correction
From :					
Company :Inspecta	Sweden AB			e-mail :p	asi.nieminen@kiwa.com
Name : Pasi Niemir	nen			phone : ·	+46104793044
Postal address : P.	O.Box 31000				
SE-10425 Stockhol	m				
Manufacturer	🗌 User	🛛 Other (please	specify):	
		Notified	Body		
Question/commer	<u>nt</u> :				
Preface: Piping systems shall be analyzed for occasional or exceptional loads, such as wind loads, snow loads, dynamic loads from opening/closing of valves, etc. The resulting moment from occasional loads or exceptional loads is defined as M _B . The last term of equation 12.3.3-1, $\frac{0.75 i M_B}{Z}$ shall be added to σ_1 in equation 12.3.2-1 to calculate σ_2 , the stress					
Shall M _B include or	exclude the weigh	o. In the piping	system	12	
If the weight is not included in the definition of M_B , this means that deformations of the piping system and the moments are not effected by friction or the inability for the applied loads to actually move the pipe. It also means that in-plane bending moments, due to reaction forces or wind loads, are not affected by the weight of the pipe, hence there will always be a vertical translation that is not dependent on the weight of the pipe.					
Proposed answer(s): *					
Since gravity is always present, gravity shall be included when analyzing the moment M _B .					
Answer from the MHD (to be filled by MHD):					
M_A includes sustained load (weight) and M_B includes occasional loads (like wind without weight).					
To be sent to EN 13480 Maintenance Group secretaria: EN 13480 Maintenance Group secretaria Standardization Office on behalf of AFN F 92038 Paris La Défense Cedex – Frai e-mail: en13480@unm.fr				aintenance Group secretariat c/o UNM tion Office on behalf of AFNOR is La Défense Cedex – France 480@unm.fr	



Request reference number(to be filled by MHD): 3-004-2018Date: 2018-01-26						
Please fulfil the	following					
Part: EN 13480-3	lssue: 2017-06	Page Annex A	Subclause	National Standard Reference		
Subject: Intermodal superposition during Floor Response Spectrum Analysis						
<u>Type of request</u> :	🗌 Tech	nical clarificati	on 🗌	Editorial correction		
🛛 Technical comment				Translation correction		
<u>From</u> :						
Company: DST Co	mputer Services S	A (HEXAGON	I PPM) e-mail:	e-mail: irenee.cornaton@hexagon.com		
Nama: CORNATO			phone:	: +33 6 13 14 02 32		
Destal addresses 04			·····			
Postal address: 81 avenue Louis CASAI – CH-1216 GENEVE SWITZERI AND						
Manufacturer	User	🛛 Other (Other (please specify):			
		HEXAGO and PIPES	HEXAGON PPM is Editor of piping calculations software CAESAR II and PIPESTRESS			



Question/comment:

The EN13480 code Ed. 2017 requires in Appendix A (informative) §A.2.1.4: "The total response of the piping (displacements, moments, forces) for each direction should be obtained by combining each peak modal response by the square root of the sum of the squares (SRSS) method".

The SRSS method is <u>not permitted</u> when the modelled piping system contains close modes (and <u>it is almost</u> <u>always the case</u>):

- Eurocode 8 EN 1998-1 §4.3.3.3.2 : SRSS only permitted with a 10% space criterion. Otherwise, it is mandatory to use the CQC method.
- RG 1.92 rev.3 october 2012 "Combining modal responses and spatial components in seismic response analysis".
 - §1.1.1 : "If modes with closely spaced frequencies exist, the SRSS method is not applicable".

The problem of the SRSS method becomes very important for twin modes because of the infinity of the possible modes shapes.

Proposed answer(s):

- Use the CQC method, with Der Kiureghian ou Rosenblueth correlations between modes.

Another point

It can be very interesting to add in Annex A rules about:

- The interlevel combination (algebraic, SRSS, absolute, phase or nophase between levels)
- The order of combinations
- The static correction for rigid modes (one static correction per level and per direction)
- The special rules for hybrid modes (modes with both periodic and rigid response components): Gupta and Lindley-Yow methods.

These points and the choice of modal combination method can affect <u>significantly</u> the results (in some cases, several hundred percent), and the floor response multispectrum analysis is very usual in the nuclear industry.

 Answer from the MHD (to be filled by MHD):

 This issue is covered within the draft amendment EN 13480-3:2017/prA3 to be submitted to CEN Enquiry.

 To be sent to EN 13480 Maintenance Group secretariat c/o UNM standardization Office on behalf of AFNOR F 92038 Paris La Défense Cedex – France e-mail: en13480@unm.fr



Request reference number(to be filled by MHD): 3-005-2018Date: 2018-01-26					
Please fulfil the	following				
Part: EN 13480-3	lssue: 2017-06	Page -	Sub	clause -	National Standard Reference German version
<u>Subject</u> : Possible	e errors encounte	ered while tra	Inslatin	g standar	rds into Swedish
Type of request:	🗌 Techr	nical clarificati	on	\boxtimes	Editorial correction
	🗌 Techr	nical commen	t		Translation correction
From : Hitachi Zosen Inova BioMethan GmbH DiplIng. Holger Bernhard-Mardmöller Team Leader Mechanical Design, Production Planning, Documentation Ludwig-Elsbett-Straße 1 D-27404 Zeven				e-mail : h phone : -	nolger.b-mardmoeller@hz-inova.com +49 4281 9876 183
Manufacturer	🛛 User	Other (please s	specify):	
Question/comment: Dear Madame and Sir, in the German version DIN EN13480-3 in the table E.1.1-2 the translation of some words are wrong: Kupplung oder Kupplungsflansch? The diameters in the table are ASME like and not ISO. <u>Proposed answer(s)</u> : *					
Answer from the MHD (to be filled by MHD): This message is forwarded with regards to the information given by the German delegation during the last plenary Meeting of CEN/TC 267 (2017-11-16), see below: The German delegation informs CEN/TC 267 Members that the German version of the new Edition EN 13480-3:2017 needs to go through a resubmission for publication because of numerous editorial mistakes and errors of translation. The update German version is currently under preparation by Mr. PEREZ KAISER (DIN) and will be sent out to CCMC when it is completed.					
To be sent to EN 1 secretariat:	o be sent to EN 13480 Maintenance Group ecretariat: EN 13480 Maintenance Group Standardization Office on behalf of A F 92038 Paris La Défense Cedex – e-mail: en13480@unm.fr				



Request reference	Request reference number (to be filled by MHD): 3-006-2018 Date: 2018-01-26					
Please fulfil the fo	ollowing					
Part: EN 13480-3	lssue: 2017-06	Page -	Sub	clause -	National Standard Reference English version	
Subject: Possible	errors encountere	ed while tra	nslatin	g standar	ds into Swedish	
Type of request: Technical clarification Editorial correction Image: Construction in the second						
From : e-mail :ulf@ucotek. Company :UcoTek AB e-mail :ulf@ucotek. Name Ulf Malmström phone : +46707686 Postal address : 1. Irisdalsvägen, SE 14461 Rönninge sweden					f@ucotek.se 46707686690	
Manufacturer	User	Other (please specify): Consultant				
See enclose Proposed answer(s):	ed file *					
 Answer from the MHD (to be filled by MHD): 4.2.3.4, last dash shall read as follows: "- compatible with the combination of TSmax with the pressure P(tomax) where tomax is the maximum temperature under normal operating conditions." To be included into draft amendment EN 13480-3:2017/prA1 to be submitted to CEN Enquiry In 4.3, agreed to switch the order of 3rd and 4th paragraph. To be carried out into draft amendment EN 13480-3:2017/prA1 to be submitted to CEN Enquiry For 5.2.4.2, the correction is already included into EN 13480-3:2017/prA1 to be submitted to CEN Enquiry For 6.2.1, the correction is already included into EN 13480-3:2017/prA1 to be submitted to CEN Enquiry For Table 6.2.2-1, the correction is already included into EN 13480-3:2017/prA1 to be submitted to CEN Enquiry For Table 7.1.1-1, the correction is already included into EN 13480-3:2017/prA1 to be submitted to CEN Enquiry For Table 7.2.2-1, the correction is already included into EN 13480-3:2017/prA1 to be submitted to CEN Enquiry For Table 7.2.2-1, the correction is already included into EN 13480-3:2017/prA1 to be submitted to CEN Enquiry For Table 7.2.2-1, the correction is already included into EN 13480-3:2017/prA1 to be submitted to CEN Enquiry For Table 7.2.2-1, the correction is already included into EN 13480-3:2017/prA1 to be submitted to CEN Enquiry For Equation 10.3.2-3, the correction is already included into EN 13480-3:2017/prA1 to be submitted to CEN Enquiry For Q.9, both equations for M are needed to develop the equation for <i>L</i>. For information, foreseen revision of Annex Q is under discussion at the moment (could be developped through a further draft amendment). 						
To be sent to EN 13480 Maintenance Group secretariat:			EN Sta F 9 e-r	l 13480 Ma andardizati 92038 Pari mail: <u>en134</u>	aintenance Group secretariat c/o UNM ion Office on behalf of AFNOR s La Défense Cedex – France <u>480@unm.fr</u>	

- Subclause 4.2.3.4, last dash

The use of the word *Combination* requires at least two things to combine!

– Subclause 4.3

The 3rd and 4th paragraphs seem to be contradictory.

– Subclause 5.2.4.2

Paragraph number is repeated twice

– Subclause 6.2.1

The clause mentions 3 different methods for pipe bends: 6.2.3,1, 6.2.3.2 and Annex B. Since subclause 6.2.3.2 simply refers to Annex B, there seems to be only two methods?

– Table 6.2.2-1

R is used for two different measures

– Table 7.1.1-1

 $R_{i} \mbox{ is used for two different measures }$

– Table 7.2.2-1

This table in several places uses capital letters where non-capital letters are used in the corresponding equations

– Equation 10.3.2-3

This equation seems meaningless, as its present form could simply be replaced by $t^* = t$

- Subclause Q.9

This section contains two different formulas for M?



Request reference	Request reference number (to be filled by MHD): 3-007-2018 Date: 2018-04-09							
Please fulfil the	following							
Part: EN 13480-3	lssue: 2017	Page 28	Sub 5.2	clause 2.5.2	National Standard Reference 			
Subject: Additional	Subject: Additional safety factor for the steels with no specific control							
Type of request:	🗌 Tech	nical clarificati	on		Editorial correction			
	🛛 Tech	nical commen	t		Translation correction			
From :								
Company: Fortum I	Power and Heat O	y		e-mail: e	ero-matti.halme@fortum.com			
Name: Eero-Matti H	lalme			phone: +	358401948550			
Postal address: PO	B 100, FI-00048 F	ORTUM, Finl	and					
Manufacturer	🛛 User	🗌 Other (please s	specify):				
Question/commer	<u>it</u> :							
The first paragraph can be interpreted in two ways. Either the additional safety factor of 1.2 shall not be used for austenitic steels at all or the design stress of the austenitic steels shall be evaluated according to the formulas given in chapter 5.2.1.1 and additional safety factor of 1.2 shall be used. The first interpretation leads to the situation where there are different safety factors if the material is carbon steel or austenitic steel. The latter interpretation leads to the extra safety margin for the austenitic steels. <u>Proposed answer(s)</u> : * The reference to the chapter 5.2.1.1 is incorrect. The design stress of the austenitic steel parts shall be evaluated using rules of chapter 5.2.2 and the same safety factor of 1.2 shall be used for austenitic steels as well.								
Answer from the MHD (to be filled by MHD): Clause 5.2.5.1 will be modified as follows: "Steels with no specific control are those not possessing a test report 2.2, 3.1 or 3.2 in accordance with EN 10204, and shall only be used if permitted in the technical specification." Clause 5.2.5.2 will be modified as follows:								
"The design stress given in 5.2.1.1 <mark>and in 5.2.2.1</mark> shall be divided by an additional safety factor which shall not be less than 1,2."								
These modification Enquiry	These modifications will be taken within the draft amendment EN 13480-3:2017/prA1 to be submitted to CEN Enquiry							
To be sent to EN 1 secretariat:	3480 Maintenand	e Group	EN Sta F 9 e-r	l 13480 M andardizat 92038 Pari nail: <u>en13</u> 4	aintenance Group secretariat c/o UNM ion Office on behalf of AFNOR is La Défense Cedex – France 480@unm.fr			



Request reference number (to be filled by MHD): 3-008-2018 Date: 16/08/2018						
Please fulfil the	following					
Part: EN 13480-3	lssue: 2017	Page 48	Subclause §6.6.4		National Standard Reference 	
Subject: Limitation	and impact of real h	210	oad in bolted flange	e calculat		
				-		
<u>Type of request</u> :	⊠ Tech	nical clarificati	ion 🗌	Editoria	l correction	
		nical commen	t 🗌	Translat	tion correction	
From:						
Company: EDF	т				e-mail: nicolas.hubert@edf.fr	
Postal address: Dir	I Action Expertise T	ochniquo - Bâ	timent Cytalium -	1	phone. +35 178 370 656	
avenue de l'Europe VALLEE Cedex 04	e – CS 30451 MON	ITEVRAIN – 7	7771 MARNE LA			
Manufacturer	🛛 User	Other (please specify):			
Question/commer	<u>nt</u> :					
This case concerns algorithm shown in annex D, two differe	anarrow face flang the Taylor-Forge ent conditions app	e. According t method (Anne ly: the assemt	to §6.6.4, "the des x D)". In application oly condition and t	ign shal on of the he opera	l be done by applying […] the rules for bolted flange calculation in ating condition.	
For assembly cond gasket seating char function of the gask	ition, the minimum racteristic y. For op ret dimensions, the	required bolt perating condi e gasket factor	load is W _A . This fo tion, the minimum r m and also the p	orce is fu require ressure	unction of the gasket dimensions and d bolt load is W_{op} . This force is in the equipment.	
For assembly cond WoP and the maxim and H, which corres	For assembly condition, the bolt design uses W_A and the flange design uses W , which is an average between W_A , W_{OP} and the maximum bolt load. For operating condition, the bolt design uses W_{OP} and the flange design uses H_G and H , which correspond to W_{OP} .					
Consequently, the real bolt load generated during the tightening never impact the bolted flange calculation. To determine this preload, the only requirement we can find is the note 3 in §6.6.4 : "The bolt torque should be specified by the designer". Without any other specification, recommendation, limitation or calculation formulas, a non-controlled tightening or an infinite tightening seems to be permitted by the application of the rules of EN 13480-3.						
Question 1 : How does EN 13480-3 annex D take into account the real tightening load in the mechanical dimensioning of the bolted flange?						
Question 2 : In accordance with EN 13480-3, is there a specific procedure for switching from the calculation of the bolted flange to the calculation of the real tightening load, especially in term of stress limitation?						



Proposed answer(s): *

<u>Answer 1</u>: The analysis of real tightening load is not required in EN 13480-3 annex D and mustn't be realised. It is not necessary to replace W_{OP} and W_A by the real tightening load value.

<u>Answer 2</u>: Once the calculation done according to the rules of annex D, the real tightening load must be limited by only considering the bolt.

According to EN 13480-3 formula D.5-9, the bolt limit is the minimum between $f_{B,A}$ and f_B (the bolt nominal design stresses). According to EN 13480-3 §6.6.4, "guidance [...] are given in EN 1591-1". According to EN 1591-1 §8.2, the bolt load ratio is limited by using f_B (the bolt nominal design stress).

This requirements can be interpreted in two ways :

- The real tightening load is determined to produce a nominal stress in bolt equal to the bolt nominal design stress. This interpretation doesn't take into account the tightening uncertainty due to the tool (torque for example). No more verification is necessary.
- The real tightening load is determined to produce a maximal stress in bolt equal to the bolt nominal design stress, by using the tightening uncertainty due to the tool. Then, a verification is required in order to ensure that the minimal real tightening load is superior to W_{OP} and W_A.

In some other codes, the real tightening load is taking account directly in the bolted flange calculation (RCC-M or EN 1591-1 for seating condition or when a preload is known) or is limited (ASME III et ASME VIII).

Please clarify. See ASME PCC-1 edition 2010.

Answer from the MHD (to be filled by MHD):

Annex D does not specify any additional limitations

on the applied tightening load.

To be sent to EN 13480 Maintenance Group secretariat:	EN 13480 Maintenance Group secretariat c/o UNM Standardization Office on behalf of AFNOR F 92038 Paris La Défense Cedex – France
	e-mail: <u>en13480@unm.fr</u>



Request reference number(to be filled by MHD): 3-009-2018Date: 20/09/2018						
Please fulfil the following						
Part: EN 13480-3	lssue: 2017	Page 81	Sub 8	clause .4.3	National Standard Reference	
<u>Subject</u> :						
Type of request:	⊠ Tech □ Tech	nical clarification	on :		Editorial correction Translation correction	
From : Company: TD WILLIAMSON Name: Yves Lenaerts / David Stordeur Postal address:6, Rue du Travail 1400 Nivelles, Belgiun			 Igium	e-mail: Yves.Lenaerts@tdwilliamson.com David.Stordeur@tdwilliamson.com phone: Yves: +32 475 95 30 65 David: +32 485 443929		
Manufacturer	🗌 User	☐ Other (p	Other (please specify):			
Concern : Reinforced Openings with increased wall thickness as per EN13480-3 chap. 8.4.3 Question: If the "area compensation" condition (8.4.3-3) is satisfied, can the length of reinforced wall thickness along the branch be smaller than the calculated value (l_b) as per equation 8.4.3-1 ? Example: A Hot tap Tee 24 IN X 16 IN is designed with a shell thickness (e_{as}) of 25 mm and a branch thickness (e_{ab}) of 15 mm. calculation is OK at 80 bar design pressure. If we manufacture the same Tee but with a branch thickness of 20 mm instead of 15 mm for raw material availability reason the design does no longer pass the calculation. In this case TDW can't increase further the branch length for dimensional constrain reasons. Potential Solution : The minimum extension of reinforced thickness of the branch should be calculated on the basis of the minimum required thickness to withstand pressure (e) and verify the area compensation condition (8.4.3-3) rather than the analysis thickness (e_a) value as defined in paragraph 4.3-1 or 4.3-2. In other words the additional thickness (ε) resulting from the selection of the ordered thickness should not be considered in the calculation.						
Answer from the MHD (to be filled by MHD): The answer to your question is the following: See both sentences from Clause 8.4.3 in the current EN 13480-3:2017 " <i>I</i> b and <i>I</i> s, given by equations 8.4.3-1 and 8.4.1-2 are maximum lengths for reinforcement calculation." "If the design shows a shorter length as given by equations 8.4.1-2 and 8.4.3-1, this shall be considered by the reinforcement calculation." Remark: The proposed potential solution is not applicable.						
To be sent to EN 13480 Maintenance Group secretariat:			EN Sta F 9 e-r	l 13480 M andardizat 92038 Par nail: <u>en13</u>	aintenance Group secretariat c/o UNM ion Office on behalf of AFNOR is La Défense Cedex – France 480@unm.fr	



Request reference	aquest reference number (to be filled by MHD): 3-010-2018		<mark>018</mark>	<u>Date</u> : 10.10.2018			
Please fulfil the	following						
Part: EN 13480-3	lssue: 2017	Page 27	Sub 5.2	clause 2.2.1	National Standard Reference 		
Subject : Elongation for allowable stress in austenitic steel and compliance with PED							
Type of request:	Type of request:						
	Technical comment Translation correction						
<u>From</u> :							
Company: Kiwa Teknologisk Institutt Sertifisering e-mail: Esteban.Rodriguez@kiwa.com					steban.Rodriguez@kiwa.com		
Name: Esteban Ro	driguez			phone: +	47 93858670		
Postal address: Ka	belgaten 2, 0581 ()slo					
Manufacturer	User	🛛 Other (please s	specify): N	юВо		
Question/commer							
 When using austenitic steel, PED states that it is allowed to use a reduced safety factor of 5/6 when the elongation exceeds 35%. That means when the elongation is higher than 35%. EN 13480 states that it is allowed to use this reduced safety factor (1/1,2) when the elongation is equal or higher than 35%. There seems to be a difference here, which has significance given the fact that 35% is quite a common value for defining elongation. In 13480-3, please confirm whether the elongation shall be higher than 35% (as stated in PED), or whether it shall be equal or higher than 35%, in order to use the reduced safety factor? Proposed answer(s): In order to comply with EN 13480, which is harmonized with PED, the elongation shall be at least (i.e. equal or higher) than 35%. 							
Answer from the N Yes, your answer is	<u>Answer from the MHD</u> (to be filled by MHD): Yes, your answer is correct and this is also right for 30 %.						
To be sent to EN 1 secretariat:	3480 Maintenand	e Group	EN Sta F 9 e-r	l 13480 M andardizat 92038 Par nail: <u>en13</u>	aintenance Group secretariat c/o UNM ion Office on behalf of AFNOR is La Défense Cedex – France 480@unm.fr		



Request reference number (to be filled by MHD): 4-001-2018 Date: 2018-02-14							
Please fulfil the	following						
Part: EN 13480-4	lssue : 2017-06	Page 36/37	Sub 11.	clause 2.2/3	National Standard Reference DIN EN 13480-4:2017-12		
Subject: CE-Kennz	Subject: CE-Kennzeichnung von verlegten Rohrleitungen (CE-Marking of installed piping)						
Type of request:	Type of request:						
	🗌 Tech	nical comment			Translation correction		
From :							
Company:Evonik T	echnology and Inf	rastructure Gmb	bH	e-mail:	peter.doo@evonik.com		
Name: P	eter Doo			phone :	+49 7623 917799		
Postal address: U	ntere Kanalstrasse	e 3,					
D-79618 Rheinfeld	en, Germany						
Manufacturer	User	🗌 Other (p	lease s	specify):			
Question/commer	nt:	•					
In section 11.2.2 it is required to identify each manufactured pipe with the name and address of the manufacturer, the year of manufacture and where relevant the number of the notified body. The technical standard already concedes that the additional information defined in 11.2.3 can be documented separately, if through a clear marking of the pipe, an unambiguous link between the pipe and the documentation is established. Guideline 9/8 further supports this position by allowing a centrally positioned CE marking for piping systems. However as it is often difficult in existing chemical plants, consisting of complex physically dispersed piping systems, to link a centrally positioned CE marking to more than a single pipe this would result in each pipe being marked with the information required in 11.2.2. As this is impractical, the change below is suggested. <u>Proposed answer(s)</u> : * A unique number permanently attached to the pipe provides a clear, unambiguous link to the required documentation and the manufacturer. The documentation contains all the information required by the standard (11.2.2 points 1 to 3 and 11.2.3 points a to g) and completely defines the limits of the relevant pipe. Through this measure, it is no longer necessary to mark the pipe directly and individually with the information required in 11.2.2.							
pipe.							
Answer from the	MHD (to be filled b	y MHD):					
Agreed in principle, and there will be a proposal for clarification in the working group CEN/TC 267/WG 4. Action to be carried out for EN 13480-4:2017.							
To be sent to EN 1 secretariat:	sent to EN 13480 Maintenance Group ariat: EN 13480 Maintenance Group secretariat c/o UNM Standardization Office on behalf of AFNOR F 92038 Paris La Défense Cedex – France e-mail: en13480@unm.fr						



Request reference number (to be filled by MHD): 4-002-2018 Date :						
Please fulfil the	following					
Part: EN 13480-4	lssue: 2017	Page	Subo	clause	National Standard Reference	
Subject:						
Type of request:	Type of request:					
Technical comment Translation				Translation correction		
From :						
Company:				e-mail: uros.zupanc@i-var.si		
Institut za varilstvo	d.o.o., (Welding Ir	stitute), Slove	nia	phone: +00 386 41 312 038		
Name: Uros Zupan	c					
Postal address: SI-1000 Ljubljana, Slovenia						
Manufacturer	🗌 User	🛛 Other (Other (please specify): No.Bo. 2042			



Question/comment:

Is there an easy answer to our question: why is EN 13480-4:2017 not harmonised to PED 2014/68/EU? all other parts are (-1 / -2/ - 3/-5/) harmonised as quoted to

17.11.2017 EN Official Journal of the European Union C 389/15							
(1)	(2)	(3)	(4)	(5)			
CEN	EN 13480-1:2017 Metallic industrial piping — Part 1: General	This is the first publication	EN 13480-1:2012 Note 2.1	15.12.2017			
CEN	EN 13480-2:2017 Metallic industrial piping — Part 2: Materials	This is the first publication	EN 13480-2:2012 Note 2.1	15.12.2017			
CEN	EN 13480-3:2017 Metallic industrial piping — Part 3: Design and calculation	This is the first publication	EN 13480-3:2012 Note 2.1	15.12.2017			
CEN	EN 13480-4:2012 Metallic industrial piping — Part 4: Fabrication and installation	12.8.2016					
	EN 13480-4:2012/A1:2013	12.8.2016	Note 3				
	EN 13480-4:2012/A2:2015	12.8.2016	Note 3				
CEN	EN 13480-5:2017 Metallic industrial piping — Part 5: Inspection and testing	This is the first publication	EN 13480-5:2012 Note 2.1	15.12.2017			
CEN	EN 13480-6:2017 Metallic industrial piping — Part 6: Additional requirements for buried piping	This is the first publication	EN 13480-6:2012 Note 2.1	15.12.2017			
CEN	EN 13480-8:2017 Metallic industrial piping — Part 8: Additional requirements for aluminium and aluminium alloy piping	This is the first publication	EN 13480-8:2012 Note 2.1	15.12.2017			

Proposed answer(s): *

Answer from the MHD (to be filled by MHD):

See attached answer from CEN/TC 267/WG 8/MHD Secretariat

To be sent to EN 13480 Maintenance Group secretariat:	EN 13480 Maintenance Group secretariat c/o UNM Standardization Office on behalf of AFNOR
	F 92038 Paris La Défense Cedex – France e-mail: <u>en13480@unm.fr</u>

en13480

De:	en13480
Envoyé:	vendredi 23 novembre 2018 10:59
À:	uros.zupanc@i-var.si
Cc:	a.dirienzo@snct.org
Objet:	CEN/TC 267/WG 8/MHD: Question regarding EN 13480-4:2017 from Institut za
	varilstvo d.o.o (Welding Institute) - Slovenia
Pièces jointes:	EN13480MHD_Welding Institute Slovenia.pdf; CEN Enquiry_EN_13480-4_2017_A1
	_(E)_stf.pdf; CEN Enquiry_EN_13480-4_2017_A1_dn.pdf

Dear Mr. ZUPANC,

Please be informed that the European working group CEN/TC 267/WG 8/MHD in charge of the maintenance of EN 13480 series held its last meeting this week in Paris.

Your question has been studied by the experts.

EN 13480-4:2017 is not yet PED harmonized to the list in OJEU because of the issue related to clause 9.1.1 concerning "Welding personnel" (qualification of welders) and the missing reference to EN ISO 9606-1:2017.

Following a demand from the PED CEN Consultant and from the European Commission, this has been corrected through an Amendment EN 13480-4:2017/prA1 which is at the moment submitted to CEN Enquiry at CEN level until 2018-12-27 (see attached files).

CEN Members are invited to vote on this Amendment through their National Standardization Body (your is the Slovenian Institute for Standardization - <u>www.sist.si</u> - <u>sist@sist.si</u>)

Please find below emails of the direct contact from SIST on subjects related to CEN/TC 267 "Industrial piping and pipelines – EN 13480 series":

- tomaz.uran@alge.si
- neva.razem-lucovnik@sist.si

In this Amendment, please have a look on clause 9.1.1, which has been revised and on the ZA Annex, which has been updated.

To be informed about the next stages concerning the development of this Amendment, please contact SIST.

The future publication of this Amendment should allow Part -4 to be harmonised.

Best regards,

Patrick AMESLON Secretariat of CEN/TC 267/WG 8/MHD "Maintenance of EN 13480 series" UNM Standardization Office on behalf of AFNOR CS30080 F 92038 Paris La Défense Cedex â€" France Email : <u>p.ameslon@unm.fr</u> Tel : +33 (0)1 47 17 67 64 http://www.unm.fr/



Request reference number(to be filled by MHD): 5-001-2018Date: 04/09/2018						
following						
lssue: 2017	Page 30	Sub §9	clause).3.4	National Standard Reference NF EN 13480-5 V3		
n of sub clause 9.3.4	ł					
🔀 Tech	nical clarificati	on		Editorial correction		
🗌 Tech	nical comment	t		Translation correction		
	ORANO BARBEY La Hague		e-mail:maxime.barbey@areva.com phone: + 2 33 02 88 76 06.32.84.24.64			
🛛 User	Other (please	specify):			
Question/comment: The first sentence says " In cases where a hydrostatic or pneumatic pressure test of individual welds (connection welds) would be detrimental or impracticable they shall be substituted by an appropriate non destructive test (100% RT or UR and 100 % PT or MT) Can the manufacturer decide to extend this sub clause to a collection of pipes of category 0 and still ensure compliance to the EN 13480? Proposed answer(s): In compliance with regulation, pipes of category 0 do not always require hydrostatic pressure test. Thereby, the manufacturer can adapt the provisions of the §9.3.4 instead of the hydrostatic pressure test of the sub clause 9.3.1. The adaptations which have been made, and which are still under the responsibility of the manufacturer, do not call into question the compliance with the standard EN 13480 in so far as the others provisions of the standard are respected.						
MHD (to be filled b vered in the currer	<i>MHD):</i> ht in EN 13480	-5:2017	. This topi	c will be sent to the European working group		
for discussion.						
13480 Maintenand	ce Group	EN Sta F 9 e-r	l 13480 Ma andardizat 92038 Pari nail: <u>en13</u> 4	aintenance Group secretariat c/o UNM ion Office on behalf of AFNOR s La Défense Cedex – France 480@unm.fr		
	e number (to be fil following Issue: 2017 n of sub clause 9.3.4 ☐ Tech ☐ Tech ☐ User 1. The first senter connection welds lestructive test (1 Irer decide to exter EN 13480? 5): In compliance v manufacturer can 1. hich have been m he compliance with MHD (to be filled b vered in the currer 5 for discussion. 13480 Maintenand	e number (to be filled by MHD): following Issue: Page 2017 30 in of sub clause 9.3.4 Technical clarificati Technical comment ORA BARB La Hag User Other (interpretection welds) would be detection welds) welds and which be compl	e number (to be filled by MHD): 5-001-2 following Issue: Page Sub 2017 30 §S an of sub clause 9.3.4 Image: Technical clarification Image: Technical comment ORANO BARBEY	e number (to be filled by MHD): 5-001-2018 following Issue: Page Subclause 2017 30 §9.3.4 m of sub clause 9.3.4		



Request reference number(to be filled by MHD): 5-002-2018Date: 08.10.2018								
Please fulfil the following								
Part: EN 13480-5	lssue: 2017	Page 14	Sub 8	clause .1.2	National Standard Reference 			
<u>Subject</u> : NDT by sa	mple inspection							
Type of request:	🛛 Tech	nical clarificati	on		Editorial correction			
	🗌 Tech	Technical comment Translation correction						
From : Company: Kiwa Teknologisk Institutt Sertifisering Name: Esteban Rodriguez				e-mail: Esteban.Rodriguez@kiwa.com phone: +47 93858670				
Manufacturer	User	🛛 Other (please s	ase specify): NoBo				
Question/commer	<u>nt</u> :							
Could you please confirm that, in the case of 8.1.2 <i>Examination of weld quality by sample inspection</i> , and table 8.2.1; the percentages refer to complete welds from a number of welds , and not to a percentage of length from total weld length?								
total quantity of welds as a whole? <u>Proposed answer(s)</u> : *								
The percentages in examination by sample inspection, and table 8.2.1, refer to a percentage of full, complete welds (NDT over the entire length of the weld). They give a number of welds to be tested over their entire length. The percentages are not a percentage based on welded length that give an amount of millimetres (mm) to be tested.								
The percentages in examination by sample inspection, and table 8.2.1, are applied to each individual batch of welds, where a batch is defined as established in section 8.1.2.								
Answer from the MHD (to be filled by MHD): Your answer is correct for the time being in the current EN 13480-5:2017. With regards to Table 9.3.3-1, footnote a), further review by the European working group CEN/TC 267/WG 5 will be carried out.								
To be sent to EN 13480 Maintenance GroupEN 1secretariat:StanF 92e-main			13480 Maintenance Group secretariat c/o UNM Indardization Office on behalf of AFNOR 2038 Paris La Défense Cedex – France nail: <u>en13480@unm.fr</u>					



Request reference number(to be filled by MHD): 5-003-2018Date: 2018-11-15								
Please fulfil the following								
Part: EN 13480-5	lssue: 2017	Page 23 to 25	Page Sub 23 to 25 9		National Standard Reference DIN EN 13480-5:2017			
Subject: Pneumatic test in EN 13480-5:2017								
Type of request:	🛛 Tech	nical clarificati	ical clarification					
	🗌 Tech	nical commen	al comment					
From : Company:VDMA - Process Plant and Equipment e-mail: frank.wohnsland@vdma.org Name: Frank Wohnsland phone: +49 69 6603-1399 Postal address:Lyoner Strasse 18 – D-60528 - Frankfurt Prone: +49 69 6603-1399								
Manufacturer	User	⊠ Other (Other (please specify): Mechanical Engineering Industry Association					
Question/comment:								
EN 13480-5 Clause 9.3.3 requires a hazard analysis when pneumatic pressure testing has to be performed.								
When carrying out this hazard analysis for piping installations in buildings (such as laboratories or machinery houses) or for piping installations on production sites with other equipment and production facilities in the vicinity (such as piping on pipe racks in a refinery or chemical plant), is it reasonable to reduce the test pressure as specified in EN 13480-5, clause 9.3.3 f)?								
Proposed answer(s): * Yes. EN 13480-5 clause 9.3.3 f) specifies a reduction of test pressure for pneumatic pressure testing if safety precautions like testing in a bunker, a water basin or another safe area is not possible.								
Answer from the MHD (to be filled by MHD): Your answer is correct.								
To be sent to EN 13480 Maintenance Group secretariat:			EN Sta F 9 e-n	EN 13480 Maintenance Group secretariat c/o UNM Standardization Office on behalf of AFNOR F 92038 Paris La Défense Cedex – France e-mail: <u>en13480@unm.fr</u>				



Request reference number(to be filled by MHD):8-001-2018Date:2018-01-26								
Please fulfil the following								
Part: EN 13480-8	lssue: 2017-06	Page -	Sub	clause -	National Standard Reference English version			
Subject: Possible errors encountered while translating standards into Swedish								
<u>Type of request</u> :	Technical clarification							
	☐ Translation correction				Translation correction			
From : Company :UcoTek AB e-mail :ulf@ucotek.se Name Ulf Malmström phone : +46707686690 Postal address : 1. Irisdalsvägen, SE 14461 Rönninge sweden								
Manufacturer	🗌 User	⊠ Other (Consulta	Other (please specify): Consultant					
Question/comment: See enclosed file <u>Proposed answer(s)</u> : *								
Answer from the MHD (to be filled by MHD): Subclause B.5.1.1: - Definition of Group III should be DN ≥ 400, Agreed correction to be carried out. Table C.4, note b): - Agreed, "shell" to be changed to "shall", correction to be carried out.								
To be sent to EN 13480 Maintenance Group secretariat:			EN Sta F 9 e-r	EN 13480 Maintenance Group secretariat c/o UNM Standardization Office on behalf of AFNOR F 92038 Paris La Défense Cedex – France e-mail: <u>en13480@unm.fr</u>				