

Request reference number (to be filled by MHD): (2014)-01-06 Date: 201X-xx-xx							
Please fulfil the following							
Part: EN 13445-	lssue: 2014	Page		clause (es A, B	National Standard Reference 		
Subject:	Subject:						
Type of request:	☐ Tech	echnical clarification X Editorial correction					
	☐ Tech	nical comment	t		Translation correction		
From:							
Company:UcoTek A	λB			e-mail:ulf	@ucotek.se		
Name: Ulf Malmströ	òm			phone: +	46 70 768 66 90		
Postal address: 1, Irisdalsvägen, SE-14461 Rönninge Sweden							
☐ Manufacturer	User	Other (please specify):					
Question/comment: Annual update of 13445-1 Annexes							
Proposed answer(s): See new texts attached to the covering email.							
Answer from the MHD (to be filled by MHD): The texts attached will be in the new edition of EN 13445, with the following modifications: Date of EN 13445-10 will be 2019. All reference to Annex GA of EN 13445-3 is deleted. Reference to specific clauses or subclauses of EN 13445-2:2019 is modified to be in accordance with this new edition. Date of TR 13445 is corrected when needed							
secretariat: S			Sta F 9	ındardizati 2038 Pari	HD secretariat c/o UNM ion Office on behalf of AFNOR s La Défense Cedex – France 445@unm.fr		

^{*} Please note that question with proposed answers will be dealt with as priority.



Request reference number (to be filled by MHD): (2014)-0x-0x Date: 2018-10-25							
Please fulfil the following							
Part: EN 13445-		lssue: 2014	Page	Page Subclause B.2.3.1.		National Standard Reference	
Subject:							
Type of request	Type of request: ⊠ Technical clarification ☐ Editorial correction						
		☐ Tech	nical commen	t		Translation correction	
From: Company: Stahl- und Apparatebau Hans Leffer GmbH & Co. KG					nfo@leffer.de49 (0) 6897 793-303		
		User Other (please			specify):		
Question/comm	Question/comment:						
Table B.2-12 is included in section B.2.2. Is the sentence "The temperature adjustment given in Table B.2–12 applies also to method 2." limited to the materials listed in B.2.2 for method 1? Or is this temperature adjustment applicable for all materials (strength classes) in B.2.3. for method 2?							
Proposed answer(s): * Table B.2.12 in EN 13445-2, Annex B is applicable to method 1 and method 2 in the same way and for all steels that apply in both methods. See chapter B.2.3.1, page 29, second paragraph (EN 13445-2014- issue 4). The fact that Table B.2.12 is listed in chapter B.2.2.6 has historical reasons only, but is not to be understood that the applicability of the table is tied to steels given in method 1.							



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

STATEMENT to Question of Mr. Hornung, Leffers, to the EN 13445 Helpdesk - related to EN 13445-2 Annex B Question submitted 2018-10-25

On the applicability of Table B.2.12

Answer:

Table B.2.12 in EN 13445-2, Annex B is applicable to method 1 and method 2 in the same way and for all steels that apply in both methods. See chapter B.2.3.1, page 29, second paragraph (EN 13445-2014- issue 4).

The fact that Table B.2.12 is listed in chapter B.2.2.6 has historical reasons only, but is not to be understood that the applicability of the table is tied to steels given in method 1.

Prof. Dr. Peter Langenberg IWT-Aachen Convener CEN TC 54/WG 52 Materials 2018-11-09

To be sent to EN 13445 Maintenance Help Desk secretariat:

EN 13445 MHD secretariat c/o UNM Standardization Office on behalf of AFNOR F 92038 Paris La Défense Cedex – France e-mail: en13445@unm.fr

^{*} Please note that question with proposed answers will be dealt with as priority.



Request reference number (to be filled by MHD): (2014)-03-35 Date: 2018-10-10						
Please fulfil the	following					
Part: EN 13445-	lssue: 2014	Page		clause nnex C	National Standard Reference	
<u>Subject</u> : Vessel subjected to creep loads and seismic loading						
Type of request:	Technical clarification			Editorial correction		
	☐ Tech	nical comment			Translation correction	
From:						
Company:CETIM				e-mail:yv	res.simonet@cetim.fr	
Name:SIMONET				phone: +	33 3 44 67 32 09	
Postal address :Se	nlis, 60300, Franc	Э				
☐ Manufacturer	User	☐ Other (p	☐ Other (please specify):			
Question/commer	nt: does seismic load	ling need to be i	ncluded	into one of	f the "creep load cases" defined in clause 19.2 ?	
(Annex C.8 Creep as	sessment criteria use	es design stress o	obtained	according	to clause 19)	
<u>Proposed answer(s)</u> : *No. earthquake loading <i>must be verify using</i> time-independent properties calculated according to Annex S. Only gross plastic deformation and buckling must be checked.						
Answer from the MHD (to be filled by MHD):						
The proposed answer is wrong, because seismic loads can occur during any part of the life of the vessel. Therefore it is conservative to consider nominal design stresses in the creep range for loading conditions including seismic loads, assuming that such loads will occur when the life of the vessel is close to the end						
To be sent to EN 13445 Maintenance Help Desk secretariat: EN 13445 MHD secretariat c/o UNM Standardization Office on behalf of AFNOR F 92038 Paris La Défense Cedex – France e-mail: en13445@unm.fr				ion Office on behalf of AFNOR s La Défense Cedex – France		

^{*} Please note that question with proposed answers will be dealt with as priority.



Request reference number (to be filled by MHD): (2014)-03-36 Date: 2018-11-12								
Please fulfil the following								
Part: EN 13445-3	Issue: 2014	Page 312	Sub	clause	National Standard Reference EN 13445-3:2014			
			14.9	0.2.2.1	Issue 5			
Subject: NDT con	Subject: NDT convolutions							
Type of request:			n		Editorial correction			
☐ Technical comment ☐ Translation correction								
From:	From:							
Company: Kiwa Ins	•				asi.nieminen@kiwa.com			
Name: Pasi Niemin				phone: +	46 10 479 3044			
Postal address: P.0	D.Box 30100 SE-1	0425 Stockholn	n					
Manufacturer	User	⊠ Other (pl	lease s	specify): N	Notified Body			
Question/commer	_ <u> </u> nt:							
	_							
EN 13445-3 clause "Circumferential we accordance with re	eld joints of convol	utions shall be s	subject	ed to 100	% non-destructive examination in			
	Question: How shall the reference to EN 13445-5 be interpreted since clause 6 of EN 13445-5 don't cover circumferential weld joints of convolutions?							
Proposed answer(s): * With the help of table 8.4.4.4.2-1 as seen in EN 14917:2009+A1:2012 it's determined that requirement 100 % non-destructive examination is interpreted as 100% VT + 100% RT or UT + 100% MT or PT								
Answer from the MHD (to be filled by MHD):								
In 13445-5 prA2 table 6.6.2.1 has been modified with the inclusion of an additional line 2d "Circumferential joints in bellows crest or root area" which specifies the extent of 100% NDT requirement of EN 13445-3 clause 14.2.2.1 for the various testing groups. The last version of the draft takes already into consideration the comments of the Public Enquiry.								
To be sent to EN 1 secretariat:	3445 Maintenand	EN 13445 MHD secretariat c/o UNM Standardization Office on behalf of AFNOR F 92038 Paris La Défense Cedex – France e-mail: en13445@unm.fr						

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Request reference number (to be filled by MHD): (2014)-03-37 Date: 2019-01-22						
Please fulfil the following						
Part: EN 13445-3	Issue: 2014	Page 32			National Standard Reference	
Subject:						
Type of request:	:			☐ Editorial correction		
	☐ Techn	ical comment		☐ Translation correction		
From: Company: TU Wien Name: Benjamin Kerschbaum Postal address: Getreidemarkt 9/E307, 1060 Wien, Austria			e-mail: Benjamin.kerschbaum@tuwien.ac.at phone: +436769397408			
☐ Manufacturer	User		☑ Other (please specify): University			
Question/commen	<u>t</u> :	•				
When calculating a torisphericalhead in "Klöpperform" ($R_i=D_i$, $r_i=0,1^*D_i$) with $D_i=2000$ mm, made from X2CrNi18-9 (yields from DIN EN 10028-7), a load of 200°C and 12bar ($f=120$ MPa and $R_{p0,2/T}=118$ MPa) the results are: $e_s=10,025$ mm $e_y=16,15$ mm						
Since e _y >0,005D _i (= But when calculatin					ter than e_y . (β calculated by 7.5.3.5)	
What is the correct	result following EN	13445-3?				
Proposed answer(s): * Annotation 3 means that the calculation of e_b can have any result and e_a =max(e_s ; e_y). Or e_b has to be calculated since it's greater than e_y , therefore Annotation 3 is misleading.						
Answer from the MHD (to be filled by MHD):						
The text is sufficiently clear: when ey >005Di the calculation of eb provided by Note 3 has simply not to be made.						
secretariat: Sta				ındardizat 2038 Pari	HD secretariat c/o UNM ion Office on behalf of AFNOR s La Défense Cedex – France 445@unm.fr	

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Request reference number (to be filled by MHD): (2014)-03-38 Date: 2019-02-12								
Please fulfil the	following							
Part: EN 13445-3	Issue: 2014	Page -	Subclause -	National Standard Reference BS EN 13445-2 2014				
Subject:	Subject:							
Type of request:	x ☐ Technical clarification ☐ Editorial correction							
	☐ Techn	ical comment		Translation correction				
From:								
Company:			e-mail: d	ipak.chandiramani@outlook.com				
Name: Dipak Chan	diramani		phone:	918879004809				
Postal address: Mumbai, India								
	User	x Other (p	x Other (please specify):					
				Consultant				
Question/comment: Refer Clause 9 – Openings in shells. Figure 9.4.3 Reinforcing pads. While calculating Afp, is it required to exclude the area of the vent hole?								
Proposed answer(s): * Yes								
Answer from the MHD (to be filled by MHD):								
No, provided the area of the vent hole is negligible if compared to the area of the reinforcing plate								
To be sent to EN 1 secretariat:	13445 Maintenance	Help Desk	Standardiza F 92038 Par	EN 13445 MHD secretariat c/o UNM Standardization Office on behalf of AFNOR F 92038 Paris La Défense Cedex – France e-mail: en13445@unm.fr				

^{*} Please note that question with proposed answers will be dealt with as priority.



Question form						
Request reference	number (to be fi	lled by MHD):	(2014)-0)3-39	<u>Date</u> : 2019-04-03	
Please fulfil the	following					
Part: EN 13445-3	lssue: 2014	Page 206	•		National Standard Reference	
Subject:						
Type of request:	Type of request: ☐ Technical clarification ☐ Editorial correction				Editorial correction	
	⊠ Tech	nnical commen	t		Translation correction	
From:			ļ			
Company : EDF			I	e-mail: Y	oann.grand-brochier@edf.fr	
Name: Yoann GRA	ND BROCHIER			phone: +	33 1 43 69 80 36	
Postal address: 2 rue Ampère 93200 Saint-Denis, FRANCE						
☐ Manufacturer	□ User	Other (Other (please specify):			
Question/commen	ı <u>t</u> :					
	bsection 13.6.6), th	nere is no clause	e in secti	ion 13.4 «	13.5.6) and section 13.6 « Floating tubesheet heat U-tube tubesheet heat exchangers » that adresses elves.	
geometry, and it is in	aler analysis perfor dependent from the ers as well (risk o	rmed in section geometry of the	n 13.9 on e tubeshe	nly depends	s on shell side and tube side pressure and tube efore we believe that this section can be applied to sure is large compared to tube-side pressure and	
Proposed answer(s 1/ We suggest, simila 13.6.6, with only one	arly to sections 13. slight difference:				13.4 that will be identical to sections 13.5.6 and	
	σ_{i}	$\frac{1}{v_0} - \sigma_{i,i} - \frac{1}{v_0} - \frac{1}{v_0}$	[(1 -	$-x_1)P_1 = ($	$(1 - \kappa_S)P_S$	

$$\sigma_{i,0} - \sigma_{i,i} - \frac{1}{x_i - x_S} [(1 - x_i)P_i - (1 - x_S)P_S]$$

- 2/ This implies that section 13.9 is also applicable for U-tube heat exchangers. Therefore we suggest to modify subsection 13.9.1 as follows:
- « This clause provides rules to determine the maximum permissible longitudinal compressive stress in the tubes of exchangers with a pair of tubesheets joined by a bundle of straight tubes to cover [...] »

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

In U-tube heat exchangers the tubes give no support to the tubesheets, therefore the stresses in the tubes themselves are the same stresses existing in cylindrical shells because of the internal and external pressures. It is therefore clear, even if this is not specified in Clause 13, that this verification has always to be made. However it is true that the standard does not provide the verification of the tube-to-tubesheet joints in U-tube exchangers. Although the stresses in tube-to-tubesheet joints in U-tube exchangers are certainly lower than in other heat exchanger types, since they are caused by pressure only, an update of Clause 13 is necessary in order to give rules for the verification of these joints. WG 53 will propose the opening of a new work item on this subject.



To be sent to EN 13445 Maintenance Help Desk secretariat:

EN 13445 MHD secretariat c/o UNM Standardization Office on behalf of AFNOR F 92038 Paris La Défense Cedex – France e-mail: en13445@unm.fr

^{*} Please note that question with proposed answers will be dealt with as priority.



Request reference number (to be filled by MHD): (2014)-03-40 Date: 2019-04-26						
Please fulfil the following						
Part: EN 13445-3	lssue: 2014	Page 683	Subclause G.8.5.3	National Standard Reference 		
Subject: Subscript 6	Subject : Subscript error in formulas (G.8-22) and (G.8-23)					
Type of request:	request:			☐ Editorial correction		
☐ Translation correction				Translation correction		
From: Company: CRYOSTAR SAS Name: Sébastien Krebs Postal address: 2 rue de l'Industrie 68220 Hésingue FRANCE			. phone: +	e-mail: sebastien.krebs@cryostar.com phone: +33 3 89 70 43 16		
⊠ Manufacturer	User	Other (ple	ease specify):			
Answer from the MHD (to be filled by MHD): The answer is correct. We suggest to consider this as an editorial comment in order to avoid the opening of a new Work Item for this simple correction.						
To be sent to EN 13445 Maintenance Help Desk secretariat: EN 13445 MHD secretariat c/o UNM Standardization Office on behalf of AFNOR F 92038 Paris La Défense Cedex – France e-mail: en13445@unm.fr						

^{*} Please note that question with proposed answers will be dealt with as priority.