

Collection of comments and suggestions on EPB Standard:

(EN) ISO 52000-1, Energy performance of buildings — Overarching EPB assessment — Part 1: General framework and procedures

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Center expertsDistribution:Public

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1 Introduction

The EPB Center is a user platform for the EPB Standards and EPB Technical Reports, in short "the EPB documents". These EPB documents are developed and published by CEN and ISO, the European and international standards bodies. Therefore the EPBD Center works closely with CEN and ISO. Among various other activities, the EPB Center collects questions and comments on these EPB documents.

Based on the enquiries and suggestions received, the EPB Center experts prepare, to the best of their knowledge, clarifications and/or proposals for corrections.

- 1. Clarifications are given in the form of short texts, directly shown on the website (FAQ). When necessary, the short answer is complemented by a more extensive explanation as a [pdf] file.
- 2. Proposals (comments and suggestions) that could be taken into consideration in the context of future revisions of EPB documents are published in the form of the CEN/ISO commenting table. This standardized format ensures an efficient communication with CEN or ISO later. For each EPB document for which there is feedback, there is an autonomous file.

The present document is one of the series of proposals mentioned under point 2.

The comments and suggestions are published anonymously for reasons of privacy. The EPB Center has the responsibility to review and (optionally) generalise each received comment and add a proposal. The EPB Center experts aim at the best possible support for the implementation and application of the EPB documents in practice.

Additional information

To see whether there already exist clarifications and/or a comment table for any of the other EPB documents, please consult the corresponding link on this <u>webpage</u>.

Additional feedback on any of the EPB documents can be submitted via the <u>contact form</u> on the EPB Center website. Please describe the issue clearly.

NOTE Also technologies not yet covered by the EPB standard can be reported. Please describe the technology clearly, e.g. via a link to a webpage. If possible, also add existing (for instance national) assessment methodologies for the technology (by means of web links, etc.).

The EPB Center intends, at the appropriate time, to forward all clarifications and proposals to CEN or ISO for potential use in future updates of the EPB documents.

Acknowledgement

Although the issues are published anonymously, the EPB Center gratefully acknowledges all contributions.



2 Table with comments and proposed changes

Com	ments an	d suggestie	ons			Date:		Document: (EN) ISO 52000-1:2017	Project:
MB/ NC ¹	Comment No (for ref.)	Clause/ Subclause (e.g. 3.1)	Paragraph/ Figure/ Table/ (e.g. Table 1)	Type of comment ²	Comments			Proposed change	In this EPB Center document, this column is for internal use only
	<u> </u>								
EPB Cen ter	1								
EPB Cen ter	2	general		ed	A list of comments have been received in Sept. 2019 from the ISO Editorial Project Manager concerning the texts in common paragraphs for all EPB standards: changes are necessary to align the document with the current ISO directives		. Change the texts accordingly r ves		
EPB Cen ter	3	general		te	Suggestions for changes resulting from discussing comments on prEN_17423		In prepara	tion by CEN/TC 371/WG 1	
EPB Cen ter	4	Introductio n		ge	Add the objective of the EPB sta	andards	Add at the aims at re fuel and C	e end of the first paragraph: "This set ducing energy need, energy use, fossil CO ₂ , in order to mitigate climate change."	
EPB Cen ter	5	3.4		ed	What is the difference between of and 3.4.26? It's seems to be a d same definition.	definitions 3.4.10 uplication of the	Remove o	one of these two duplicate definitions	
EPB Cen ter	6	3.4.10, 3.4.11		ed	Definitions 3.4.10 and 3.4.11 on energy" and non-renewable ene complementary	"renewable rgy" are not	Update th non-renew compleme	e definitions on "renewable energy" and vable energy" to become entary	
EPB Cen ter	7	4.1		ed	How kg and m ³ could be the unit A weighted energy amount is by property that has the same dime energy carriers (like CO ₂ emission allowing to sum up different carr	ts of "Energy"? definition a ension for all on, €, etc.), thus iers.	kg, m ³ etc amounts" some spe	. should be defined as "energy carrier because they can be used only for cific carriers. See 9.6	
EPB Cen ter	8	4.1		te	In 4.1 the unit is kg/kWh In annex B it is g/kWh Standards should aim at a future comparability (buildings, traffic, i agriculture)	e cross-sectoral ndustry,	Change u	nits to g/kWh	

Comments and suggestions						Date: Document: (EN) ISO 52000-1:2017 F		Project:	
MB/ NC ¹	Comment No (for ref.)	Clause/ Subclause (e.g. 3.1)	Paragraph/ Figure/ Table/ (e.g. Table 1)	Type of comment ²	Comments			Proposed change	In this EPB Center document, this column is for internal use only
	11					1			
EPB Cen ter	9	9.7		te/ed	Actually comment on the TR, but may have impact on the standard: Text in 9.7.3 of the TR: "In addition, the renewable energy ratio RER should be calculated on the total primary energy consumptions (and not on the energy balance). The total amount of primary energy, E _{Ptot} is linked to the required energy services of the assessed building weighted by their total primary energy factor." See also Annex G (of standard and TR): 'total' versus 'energy balance' is not clear. Maybe there is also mix up with distinction between 'on site' and 'distant'?		Go throug consisten <i>Total prim</i> distinct Pt <i>Total</i> can C, V, etc.; Total can If so, this	h the document and the TR to ensure t use of the term " <i>total (primary energy)</i> ". <i>hary energy</i> should only be used to ot, Pnren, Pren. also refer to total of all EPB services (H, subscript: TOT). also refer to <i>on site</i> + <i>nearby</i> + <i>distant</i> ? should be explicitly mentioned.	
EPB Cen ter	10	9.7		te	There seems to be a need for an alternative approach for RER that avoids negative or extreme high values for RER and provides RER = 100% in case of zero total energy. Is this covered by RER defined for Step A (RER _a)?				
EPB Cen ter	11	11.6		ed	A note with reference to the examples in Annex J of the TR would help to understand the formulae and to see all details		Add, at a reference	prominent place in 11.6, a Note with to the examples in Annex J of the TR	
EPB Cen ter	12	11.6	Figure 7	te/ed	There is a contradiction between figure 1, where PV panels are outside the assessment boundary, thus creating a delivered energy, and figure 7, where the produced and for EP used electricity Epr;el;used;EPus bypasses the assessment boundary and is therefore not counted as a delivered energy (which is what we did so far in Switzerland, but which is challenged now). There is no equation in the standard taking Epr;el;used;EPus into account as a weighted delivered energy (I claim this should be added to equation (19))[more details]		Some me out Excel	mbers of CEN/TC 371/WG 1 worked sheets with more complete drawings.	

Comments and suggestions						Date:		Project:			
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	1					I					
EPB Cen ter	13	11.6.4	Figure 8	ed	The legend of Figure 8 of the French version is not correct.		The legend of Figure 8 of the French version is not correct.		comments to AFNOR	s on the French version to be forwarded	
EPB Cen ter	14	Annex A & B	A.1, B.1	ed	The text behind dashes ("-") has to be indented		The text behind dashes ("-") has to be indented		Indent the	text behind the dashes	
EPB Cen ter	15	Annex A & B	A.2, B.2	ed	The text in B.2 shall be a copy of the text in A.2, because Annex B is a informative filled in Annex A		The text in B.2 shall be a copy of the text in A.2, because Annex B is a informative filled in Annex A		Text has t	o be made the same	
EPB Cen ter	16	Annex A & B	Table A.3 and Table B.3	ed	It is quite unclear what is meant v	with "subset"	In this tab (choices) specific ca	le, a subset is a group of options of which only one choice is possible in a alculation case.			
							This is inc explanatic out. Sugg	leed not intuitively clear, so it requires on and/or a better formulation and lay estion:			
							Extend the possible there are each subs	e current footnote ("a One choice is per subset.") to make more clear that different subtypes of object types; within set only one choice is possible.			
							Example (see Table B.3):			
							subset 1: building u bone AND	an object is either a whole building or a nit or a part of a building. It cannot be) the other.			
							But an ob AND an e	ect can be a building unit (subset 1) xisting building (subset 2).			
							Perhaps it and the su	is clearer if the object types are omitted ubset types are separately specified			
EPB Cen ter	17	Annex B	Table B.2	ed	First column rows 2 -5 should no shaded	t have been grey	Remove g	rey shading for first column, rows 2 -5			
EPB	18	Annex A &	Table A.8	ed	Titles shall be the same:		Titles sha	I be made the same			
Cen ter		В	and Table B.8		Table A.8 — Application types (S <mark>and 9</mark>)	See Clauses 6	The titles indeed be	of Tables in Annex A and Annex B shall identical. It has to be checked whether			

Com	ments an	d suggesti	ons			Date: Document: (EN) ISO 52000-1:2017 Project:			Project:
MB/ NC ¹	Comment No (for ref.)	Clause/ Subclause (e.g. 3.1)	Paragraph/ Figure/ Table/	Type of comment ²	Comments			Proposed change	In this EPB Center document, this column is for internal use only
			(e.g. Table 1)						
					Table B.8 — Application types (See Clauses 6, 9 and 10.1)		the refere of the tab or include table is to correct)	ences in the title include each mentioning le (then the title of Table B.8 is correct), e only the locations in which context the be filled (then the title of Table A.8 is	
EPB Cen ter	19	Annex A & B	Table A.13 etc. and Table B.13 etc.	ed	Some Tables in Annex B use a <i>different</i> reference to the <i>same</i> footnotes ("a" versus "NOTE").		Change the Tables of the Table added in the the Table (and be p in genera	he references to the footnotes in the Annex B, to be in line with (identical to) s of Annex A. If extra footnotes are the Tables of Annex B, as part of filling in s, these should have distinct references laced in a non-grey shaded cell, which is I correctly done)	
EPB Cen ter	20	Annex A & B	Table A.16 and Table B.16	te	See also 9.6.2. There is no Table that asks to indicate if net or gross caloric value is used. Isn't that needed???		Add a rov if the valu value	v in Table A.16 and Table B.16 to specify les are based on net or gross caloric	
EPB Cen ter	21	Annex A & B	Table B.16	ed	The layout of Table A.16 and Table B.16 is different.		First row "Delivered (second)	in Table B.16 should be split. d from distant" should be on a separate row (not-grey shaded)	
EPB Cen ter	22	Annex A & B	Table A.18 and Table B.18	te	Table A.18/B.18 refer to articles which are related to the measur performance. However, the title A.18/B.18 is called "Building ser in the energy performance calc	8.2 and 8.5, ed overall energy of Table vices considered ulation".	There sho A.18/B.18 The title of called "Bu performan This was Tables A. tables A.1 combinati be a colui combinati assessme	build be also a reference to Table from 6.2.5, Building services. of Table A.18/B.18 should have been uilding services considered in the energy nce assessment". not intentional. 18/B.18 shall be read together with 10/B.10 and clause 6.2.5. For each ion identified in table A.10/B.10 there will mn in table A.18/B.18 defining that ion. All refer to the "energy performance ent", that includes both measuring and	

(techn.) Errata:

There should have been also a reference to Table

1 MB = Member body / NC = National Committee (enter the ISO 3166 two-letter country code, e.g. CN for China; comments from the ISO/CS editing unit are identified by **)

Com	nments an	id suggesti	ons			Date: Document: (EN) ISO 52000-1:2017 F		Project:	
MB/ NC ¹	Comment No (for ref.)	Clause/ Subclause (e.g. 3.1)	Paragraph/ Figure/ Table/ (e.g. Table 1)	Type of comment ²	Comments		Proposed change		In this EPB Center document, this column is for internal use only
EPB Cen ter	23	Annex A & B	Table A.26 and Table B.26	te	Table A.26 contains "Energy em materials". This is not defined in 9.6.3. From the French translatio understood that it was the energ material itself, but in that case, to obviously be "Yes". As the defau I suppose my understanding wai it refers to the "grey energy" in th materials. Is it so? If yes, should be clearer.	Ibedded in § 9.6.2 or § on, it is ly in the fuel he answer should ult answer is now, s wrong and that he construction the standard not	A.18/B.18 There sho and vice- The title of called "Bu in the ene Also othe on this iss This is ob itself " e.g answer "N The ques energy to transport delivery p the proce system (e energy us and other	B from 6.2.5, Building services. puld be a reference from table A.10/B.10 versa of Table A.18/B.18 should have been uilding services combination considered ergy performance assessment". r tables in Annex A/B should be checked sue. viously not "energy in the fuel material performance assessment. r tables in Annex A/B should be checked sue. viously not "energy in the fuel material performance assessment. tion is if the overheads also include the produce the materials used to build the system of the carrier form the source to oint. You may account energy used in ss of construction of the transport e.g. fuel for machinery and trucks) ang nbedded in the materials used (e.g. sed to produce concrete, iron, copper materials).	
EPB Cen ter									
EPB Cen ter									
EPB Cen ter									



3 Longer explanations

3.1 General

These extra pages below the table (if any) are provided for more extensive explanation of specific comments or proposed changes.

NOTE When the table is provided to CEN or ISO, it will be handled automatically for the collation of comments submitted on CEN or ISO. In that case all the information that is not in the table itself will be lost and needs to be submitted separately.

<Not applicable>