

Collection of comments and suggestions on EPB Standard:

EN 16798-7:2017

Energy performance of buildings – Ventilation for buildings – Part 7: Calculation methods for the determination of air flow rates in buildings including infiltration (Module M5-5)

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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 EPB Center works closely with experts active in 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 committees. 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 reviews and (optionally) generalises each received comment and adds a proposal. The EPB Center experts aim at the best possible support for the implementation and application of the EPB documents in practice.

Acknowledgement

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

Inform CEN and ISO

The EPB Center will, at the appropriate time, forward all clarifications and proposals to the relevant CEN or ISO committee(s) for potential use in future updates of the EPB documents.

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NOTE 1 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.).

NOTE 2 If a specific EPB standard or technical report is under review or other ballot, comments or suggestions should be communicated directly to the National Standards Bodies who are preparing the votes.

2 Table with comments and proposed changes

NOTE ISO Commenting template guidelines can be found at:

<https://helpdesk-docs.iso.org/article/299-commenting-template-guidelines>

Comments and suggestions

Date: 2022-10-03

Document: EPB Center comment file

Project: EN 16798-7:2017

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	<i>In this EPB Center document, this column is for internal use only</i>
EPB Center	1			ge	<p>The inclusion of clauses for the calculation of supply air flow rates and/or conditions of supply air for mechanical ventilation / air conditioning was made in the good intention to fit the standard properly in the modular structure.</p> <p>However, during the application of the standard/spreadsheet in connection with other standards, especially EN 16798-5-1, in the frame of EPB Center case studies (https://epb.center/support/case-studies/), this inclusion (and therefore separation from EN 16798-5-1) has proven to be rather hindering.</p> <p>Based on this insight, it might be wise to reconsider the separation of contents and move the respective parts to EN 16798-5-1, conceding the less pure distinction of the modules.</p>	Consider clauses 6.4.2.5 and 6.4.3.2.3 and 4 to be moved to EN 16798-5-1.	
EPB Center	2	6.4.3.2.1, A.3.2.4 and B.3.2.4	Formula (9), Table A.4 and B.4	te	<p>Formula (9) in connection with the constant values for f_{ctrl} in tables A.4/B.4 leads to constant values for the required outdoor air flow rate, even for demand controlled ventilation in connection with an hourly calculation interval. There is an urgent need for hourly varying air flow rates dependent on the occupation and different control options as indicated in Table B.4.</p> <p>To overcome this, in the frame of EPB Center case studies (https://epb.center/support/case-studies/), as well as in national work, using the spreadsheet of EN 16798-7, a work around was used by introducing a function for f_{ctrl} dependent on the hourly occupation, deviating from the template given in table A.4.</p> <p>Also, in the Swiss national annex, in table NA.4 there are functions for f_{ctrl} given for different control options, in deviation from the template A.4. This can be provided as a proposal.</p>	Change formula (9) and/or tables A.4 and B.4 in order to obtain hourly varying required outdoor air flow rates depending on occupation and control options.	
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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 **)

2 **Type of comment:** **ge** = general **te** = technical **ed** = editorial

Comments and suggestions

Date: 2022-10-03	Document: EPB Center comment file	Project: EN 16798-7:2017
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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>