

Annex A (normative)

Input and method selection data sheet — Template

A.1 General

The template in Annex A of this document shall be used to specify the choices between methods, the required input data and references to other standards.

NOTE 1 Following this template is not enough to guarantee consistency of data.

NOTE 2 Informative default choices are provided in Annex B. Alternative values and choices can be imposed by national/regional regulations. If the default values and choices of Annex B are not adopted because of the national/regional regulations, policies or national traditions, it is expected that:

- national or regional authorities prepare data sheets containing the national or regional values and choices, in line with the template in Annex A; or
- by default, the national standards body will add or include a national annex (Annex NA) to this document, in line with the template in Annex A, giving national or regional values and choices in accordance with their legal documents.

NOTE 3 The template in Annex A is applicable to different applications (e.g., the design of a new building, certification of a new building, renovation of an existing building and certification of an existing building) and for different types of buildings (e.g., small or simple buildings and large or complex buildings). A distinction in values and choices for different applications or building types could be made:

- by adding columns or rows (one for each application), if the template allows;
- by including more than one version of a table (one for each application), numbered consecutively as a, b, c, ... For example: Table NA.3a, Table NA.3b;
- by developing different national/regional data sheets for the same standard. In case of a national annex to the standard these will be consecutively numbered (Annex NA, Annex NB, Annex NC, ...).

NOTE 4 In the section “Introduction” of a national/regional data sheet information can be added, for example about the applicable national/regional regulations.

NOTE 5 For certain input values to be acquired by the user, a data sheet following the template of Annex A, could contain a reference to national procedures for assessing the needed input data. For instance, reference to a national assessment protocol comprising decision trees, tables and pre-calculations.

The shaded fields in the tables are part of the template and consequently not open for input.

A.2 References

The references, identified by the EPB module code number, are given in Table A.1 (template).

Table A.1 — References

Reference	Reference document	
	Number	Title
Mx-ya	No. 63	Regulation no 63, adopted on 11.12.2018, 'Minimum requirements for energy performance of buildings', (määrus nr 63, "Hoone energiatõhususe miinimumnõuded", https://www.riigiteataja.ee/akt/107072020011)
	No. 58	Regulation no 58, adopted on 05.06.2015, 'Methodology for calculating energy efficiency of buildings' (määrus nr 58, "Hoone energiatõhususe arvutamise meetoodika", https://www.riigiteataja.ee/akt/107072020012?leiaKehtiv)
	No. 36	Regulation no 36, adopted on 30.04.2015, 'Requirements for issuing an energy performance certificate and for energy performance certificate', (määrus nr 36, "Nõuded energiamärgise andmisele ja energiamärgisele", https://www.riigiteataja.ee/akt/107072020013?leiaKehtiv) 'The Building Code', adopted 11.02.2015 ("Ehitusseadustik", vastu võetud 11.02.2015, https://www.riigiteataja.ee/akt/129062022005?leiaKehtiv)
<p>^a In this document there are no choices in references to other EPB standards. The Table is kept to maintain uniformity between all EPB standards</p>		

A.3 Climatic input data

Table A.2 — Weather station and climatic data set (See 6.3.2)

Name	Value					
Identifier for climatic data set	< text >					
Station and/or name of data set	< text >					
	Symbol	Unit	Value	Validity interval ^a	Origin	Varying ^b
latitude	φ_w	°		-90 to +90	station	No
longitude ^c	λ_w			-180 to +180	station	No
time zone	TZ	h		-12 to +12	station	No
First day of time series (day of the year)	$n_{\text{day;start}}$	-		1 to 366	station	No
Last day of time series (day of the year)	$n_{\text{day;end}}$	-		1 to 366	station	No
Day of the week for January 1		-		Monday to Sunday (day 1 to 7)	station	No
Daylight saving time? ^c	Example of possible input: — Applicable for this station and taken into account; — Applicable for this station but disregarded; — Not applicable for this station.					
Leap day included	Yes/No					
Specific other information	< free text >					
	Name	Value				
Reference to documentation on application range and type of data		< free text >				

Name	Value
a	Practical range, informative.
b	“Varying”: value may vary over time: different values per time interval, for instance: hourly values or monthly values (not constant values over the year).
c	If Yes: additional information to be added.

A.4 Calculation method

Table A.3 — Method to assess direct (beam) irradiance if not available from weather station (See 6.4.2)

Method		Choice Yes/No ^a
1	Default method	YES
2	Other method	NO
In case of method 2:		
	Reference to procedure:	Not applicable
a Only one choice possible.		

Table A.4 — Solar reflectivity of the ground ($\rho_{sol;grnd}$) (See 6.4.3)

Name	Value ^a
Fixed value	YES
Dependent on ground condition, listed in climatic data file	NO
Dependent on local ground condition (near the inclined surface)	NO
Values available in climatic data file	NO
a Only one choice possible.	

If fixed value:

Table A.5 — Solar reflectivity of the ground; if fixed value

Name	Value
Solar reflectivity of the ground, $\rho_{sol;grnd}$ [-]	0,2

If dependent on ground condition:

Table A.6 — Solar reflectivity of the ground; if dependent on ground conditions

Description of ground condition ^a	Value for solar reflectivity of the ground, $\rho_{sol;grnd}$ [-]
Dry or wet ground snow free	0 to 1
...	0 to 1
a Example; rows can be added or deleted.	

Table A.7 — Choice between options and methods for calculation of shading by external objects (See 6.4.5.1)

Application ^b	All applications	
Description	Choice	Choice
Effect of shading calculated in this document?	No	
If Yes:	Choice ^a	Choice ^a
Only method 1, Simplified method (shading of direct radiation)	Yes	
Only method 2, Detailed method (shading of direct and diffuse radiation)	No	
Both methods are allowed	No	
a Only one Yes per column possible.		
b Add more columns if needed to differentiate between applications (e.g. building categories, new or existing buildings, etc.).		

Table A.8 — Number of skyline segments, $n_{sh;segm}$ for input solar shading objects (See 6.4.5.2)

Application ^b	All applications
Description	Value of $n_{sh;segm}$ ^a	Value of $n_{sh;segm}$ ^a
Maximum number of segments over 360 degrees	15	-
Fixed width (= $360 / n_{sh;segm}$) ^c	No	-
^a Practical range, informative. ^b Add more columns if needed to differentiate between applications (e.g. building categories, new or existing buildings, etc.). ^c If not fixed, the width of each segment can be adapted to the width of the shading object, with limitation of maximum number of segments $n_{sh;segm}$.		

Table A.9 — Choice between methods for calculation of illuminance (See 6.4.6)

Application ^a	All applications
Description	Choice	Choice
Method 1, Default method, or Method 2, Alternative method	Method 1	-
If choice is method 2:	Description	Description
Describe method 2	Not applicable	-
^a Add more columns if needed to differentiate between applications (e.g. building categories, new or existing buildings, etc.).		

