

ISO/TR 52018-2:2017-06 (E)

Energy performance of buildings - Indicators for partial EPB requirements related to thermal energy balance and fabric features - Part 2: Explanation and justification of ISO 52018-1

Contents		Page
Foreword		v
Introduction		vi
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Symbols and subscripts	1
5	General aspects	2
6	Mix of EPB features with requirements	3
7	Summer thermal comfort	3
7.1	Motivation	3
7.2	Points of attention	3
7.3	Indicators	5
7.4	Comparable economic strictness	5
7.5	New construction/renovation	6
7.6	Exceptions	6
8	Winter thermal comfort	6
9	Energy need for heating, or variants	6
9.1	Motivation	6
9.2	Indicators	7
9.3	Comparable economic strictness	8
9.4	New construction/renovation	9
9.5	Exceptions	9
10	Energy need for cooling, or variants	9
11	Combination of "needs"	9
12	Overall thermal insulation of the thermal envelope	10
12.1	Motivation	10
12.2	Indicators	10
12.3	Comparable economic strictness	10
12.4	New construction/renovation	11
12.5	Intermediate forms between overall and individual thermal insulation	11
13	Thermal insulation of individual elements of the thermal envelope	11
13.1	Motivation	11
13.2	Indicators	12
13.3	Points of attention	12
13.4	Comparable economic strictness	14

13.5	New construction/renovation	14
13.6	Exceptions	15
14	Thermal bridges	15
14.1	General	15
14.2	Motivation	15
14.3	Requirement setting	15
14.4	Alternative routes	16
14.5	New construction/renovation	17
14.6	Further information	18
15	Window energy performance	18
15.1	Motivation	18
15.2	Indicators	18
15.3	Points of attention	18
15.4	New construction/renovation	18
16	Airtightness	19
16.1	Motivation	19
16.2	Indicator and comparable economic strictness	19
16.3	New construction/renovation	20
16.4	Measurement	20
16.5	Further information	21
17	Solar control	22
Annex A (informative) Input and method selection data sheet -- Template		23
Annex B (informative) Input and method selection data sheet -- Default choices		24
Annex C (informative) Regional references in line with ISO Global Relevance Policy		26
Annex D (informative) Example method for integrating fictitious cooling into the overall EPB indicators		27
Annex E (informative) Illustration of the variable value of the heating need per useful floor area for a given set of technical measures		29
Annex F (informative) An underpinning of an expression for the maximum mean thermal transmittance		33
Bibliography		37