

DIN EN ISO 52017-1:2018-04 (E)

Energy performance of buildings - Sensible and latent heat loads and internal temperatures - Part 1: Generic calculation procedures (ISO 52017-1:2017)

Contents	Page
European foreword	3
Foreword	5
Introduction	6
1 Scope	11
2 Normative references	11
3 Terms and definitions	12
4 Symbols and subscripts	13
4.1 Symbols	13
4.2 Subscripts	14
5 Brief description of the method	15
5.1 Output of the method	15
5.2 General description of the method	15
6 Calculation method	15
6.1 Output data	15
6.2 Calculation time interval and calculation period	16
6.3 Input data	16
6.4 Calculation procedure	17
6.4.1 Applicable time interval	17
6.4.2 Assumptions	17
6.4.3 Calculation of relevant temperatures	18
6.4.4 Building zone thermal balance (sensible heat)	22
6.4.5 Heat transfer components	23
6.4.6 Building zone moisture and latent heat balance	32
6.4.7 Calculation steps	33
6.4.8 Boundary conditions	34
7 Quality control	35
7.1 Report of the calculation	35
7.2 Validation cases	35
8 Compliance check	36
Annex A (normative) Input and method selection data sheet — Template	37
Annex B (informative) Input and method selection data sheet — Default choices	39
Bibliography	41