

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