ISO 52017-1:2017-06 (E)

Energy performance of buildings - Sensible and latent heat loads and internal temperatures - Part 1: Generic calculation procedures

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 2

4 Symbols and subscripts 3
4.1 Symbols 3
4.2 Subscripts 4

5 Brief description of the method 5
5.1 Output of the method 5
5.2 General description of the method 5

6 Calculation method 5
6.1 Output data 5
6.2 Calculation time interval and calculation period 6
6.3 Input data 6
6.4 Calculation procedure 7
6.4.1 Applicable time interval 7
6.4.2 Assumptions 7
6.4.3 Calculation of relevant temperatures 8
6.4.4 Building zone thermal balance (sensible heat) 12
6.4.5 Heat transfer components 13
6.4.6 Building zone moisture and latent heat balance 22
6.4.7 Calculation steps 23
6.4.8 Boundary conditions 24

7 Quality control 25
7.1 Report of the calculation 25
7.2 Validation cases 25

8 Compliance check 26

Annex A (normative) Input and method selection data sheet -- Template 27

Annex B (informative) Input and method selection data sheet -- Default choices 29

Bibliography 31