ISO 13786:2007-12 (E)

Thermal performance of building components - Dynamic thermal characteristics - Calculation methods

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Terms, definitions, symbols and units 2
3.1 Terms and definitions 2
3.2 Symbols and units 5
3.3 Subscripts 6
3.4 Other symbols 6

4 Period of the thermal variations 6

5 Data required 6

6 Heat transfer matrix of a multi-layer component 7
6.1 General 7
6.2 Procedure 7
6.3 Heat transfer matrix of a homogeneous layer 7
6.4 Heat transfer matrix of plane air cavities 8
6.5 Heat transfer matrix of a building component 8

7 Dynamic thermal characteristics 8
7.1 Characteristics for any component 8
7.2 Characteristics for components consisting of plane and homogeneous layers 8

8 Report 10
8.1 Calculation report 10
8.2 Summary of results 10

Annex A (normative) Simplified calculation of the heat capacity 11

Annex B (informative) Principle of the method and examples of applications 13

Annex C (informative) Further information for computer programming 17

Annex D (informative) Examples 19

Bibliography 22