DIN EN 15026:2007-07 (E)

Hygrothermal performance of building components and building elements - Assessment of moisture transfer by numerical simulation

Contents

Page

Foreword 3

Introduction 4

1 Scope 5

2 Normative references 6

3 Terms, definitions, symbols and units 6
3.1 Terms and definitions 6
3.2 Symbols and units 6

4 Hygrothermal equations and material properties 8
4.1 Assumptions 8
4.2 Transport of heat and moisture 9
4.3 Material properties 11

5 Boundary conditions 13
5.1 Internal conditions 13
5.2 External conditions 14

6 Documentation of input data and results 15
6.1 General 15
6.2 Problem description 15
6.3 Hygrothermal model and numerical solution 16
6.4 Calculation report 16

Annex A (normative) Benchmark example - Moisture uptake in a semi-infinite region 18

A.1 General 18
A.2 Problem description 18
A.3 Results 19

Annex B (informative) Design of Moisture Reference Years 22

Annex C (informative) Internal boundary conditions 23

Bibliography 24