DIN EN ISO 23993:2008-05 (E)

Thermal insulation products for building equipment and industrial installations - Determination of design thermal conductivity (ISO 23993:2008)

Contents

Page

Foreword 3

Introduction 4

1 Scope 5

2 Normative references 5

3 Terms and definitions 5

4 Symbols 6

5 Determination of declared thermal conductivity 6

6 Determination of the design value of thermal conductivity 7

7 Conversion of available data 7
7.1 General 7
7.2 Conversion factor for temperature difference 7
7.3 Conversion factor for moisture 8
7.4 Conversion factor for ageing 9
7.5 Conversion factor for compression 9
7.6 Conversion factor for convection 9
7.7 Conversion factor for thickness effect 9
7.8 Conversion factor for regular joints 9
7.9 Additional thermal conductivity for regularly insulation-related thermal bridges, e.g. spacers 10

Annex A (normative) Conversion factors 12

Annex B (informative) Examples of determination of the design thermal conductivity 24

Annex C (informative) Approximate values of conversion factors 26

Bibliography 34