DIN EN 16002:2021-12 (E)

Flexible sheets for waterproofing - Determination of the resistance to wind load of mechanically fastened flexible sheets for roof waterproofing (includes Corrigendum :2021)

Contents

Page

European foreword 3

Introduction 4

1 Scope 5

2 Normative references 5

3 Terms and definitions 5

4 Symbols and abbreviations 6

5 Sampling 7

6 Test conditions 7

7 Apparatus and additional devices 7
7.1 Pressure (vacuum) chamber 7
7.2 Fan including control and recording system 8
7.2.1 Fan and controlling equipment 8
7.2.2 Pressure measurement device 8
7.2.3 Thermometer 8
7.2.4 Chronometer 8
7.2.5 Time and pressure measurement and registration device 8
7.3 Calibration 8

8 Test 9
8.1 General 9
8.2 Dimensions of the test area 9
8.3 Flexible sheets 10
8.4 Insulation 10
8.5 Vapour control layers 11
8.6 Structural deck 11

9 Testing 11
9.1 Test procedure 11
9.2 Load/time diagram of the gust 11
9.3 Installation of the pressure chamber 12
9.4 Application of the pressure 12

10 Evaluation and expression of results 14
10.1 Calculation characteristic load 14
10.2 Factor Ca 15
10.3 Factor Cd 15

11 Application rules 16
11.1 General 16
11.2 Substrate 16
11.3 Vapour control layer 16

11.4 Roofing sheets 16

12 Test report 17