

DIN EN 14315-1:2013-04 (E)

Thermal insulating products for buildings - In-situ formed sprayed rigid polyurethane (PUR) and polyisocyanurate (PIR) foam products - Part 1: Specification for the rigid foam spray system before installation

| Contents | | Page |
|--|--|-------------|
| Foreword | | 4 |
| 1 | Scope | 5 |
| 2 | Normative references | 5 |
| 3 | Terms, definitions, symbols and abbreviations | 6 |
| 3.1 | Terms and definitions | 6 |
| 3.2 | Symbols and abbreviations | 8 |
| 4 | Requirements | 9 |
| 4.1 | General | 9 |
| 4.2 | For all applications | 9 |
| 4.3 | Specific applications | 12 |
| 5 | Test methods | 15 |
| 5.1 | Sampling and test specimen preparation | 15 |
| 5.2 | Conditioning | 15 |
| 5.3 | Testing | 16 |
| 6 | Designation code | 18 |
| 7 | Evaluation of conformity | 18 |
| 7.1 | General | 18 |
| 7.2 | Initial type testing | 19 |
| 7.3 | Factory production control | 19 |
| 8 | Marking, labelling and technical information | 19 |
| 8.1 | Marking and labelling | 19 |
| 8.2 | Technical information | 19 |
| Annex A (normative) Determination of declared aged thermal conductivity and aged thermal resistance | | 21 |
| A.1 | Introduction | 21 |
| A.2 | Input data | 21 |
| A.3 | Declared values | 21 |
| Annex B (normative) Initial type testing (ITT) and Factory production control (FPC) | | 23 |
| Annex C (normative) Determination of the aged values of thermal resistance and thermal conductivity | | 25 |
| C.1 | General | 25 |
| C.2 | Sampling and test specimen preparation | 25 |
| C.3 | Determination of the initial value of thermal conductivity | 26 |
| C.4 | Determination of the accelerated aged value of thermal conductivity | 27 |
| C.5 | Fixed increment procedure | 29 |
| C.6 | Declaration of the aged values of thermal resistance and aged thermal conductivity | 31 |

| | |
|---|-----------|
| Annex D (normative) Preparation of the test sample | 33 |
| D.1 Principle | 33 |
| D.2 Procedure | 33 |
| Annex E (normative) Determination of the reaction profile and free-rise density | 34 |
| E.1 Introduction | 34 |
| E.2 Principle | 34 |
| E.3 Apparatus | 34 |
| E.4 Procedure | 34 |
| E.5 Free-rise density | 35 |
| Annex F (normative) Determination of substrate adhesion strength perpendicular to faces | 36 |
| F.1 Principle | 36 |
| F.2 Apparatus | 36 |
| F.3 Sample preparation and conditioning | 36 |
| F.4 Preparation of test specimens | 36 |
| F.5 Testing procedure | 36 |
| F.6 Presentation of results | 36 |
| Annex G (normative) Testing for reaction to fire products | 37 |
| G.1 Scope | 37 |
| G.2 Product and installation parameters | 37 |
| G.3 Mounting and fixing | 38 |
| G.4 Field of application | 40 |
| Annex H (normative) Testing for reaction to fire products in standardised assemblies simulating end-use application(s) | 42 |
| H.1 Scope | 42 |
| H.2 Product and installation parameters | 42 |
| H.3 Mounting and fixing | 43 |
| H.4 Field of application | 47 |
| Annex I (informative) Example for the determination of the declared aged values of thermal conductivity and thermal resistance for a product | 49 |
| Annex J (normative) Instructions for compiling thermal resistance performance charts | 51 |
| J.1 Introduction | 51 |
| J.2 General | 51 |
| J.3 Procedure for the manufacturer to create the performance charts | 53 |
| Annex ZA (informative) Clauses of this European Standard addressing the provisions of the EU Construction Products Directive | 57 |
| Bibliography | 64 |