

# DIN EN 13963:2014-09 (E)

## Jointing materials for gypsum boards - Definitions, requirements and test methods

---

<b>Contents</b>		<b>Page</b>
Foreword .....		5
<b>1</b>	<b>Scope .....</b>	<b>6</b>
<b>2</b>	<b>Normative references .....</b>	<b>6</b>
<b>3</b>	<b>Terms and definitions, symbols, abbreviations and classification .....</b>	<b>6</b>
3.1	Terms and definitions .....	6
3.2	Symbols and abbreviations .....	7
3.3	Classification of compounds .....	7
<b>4</b>	<b>Requirements .....</b>	<b>8</b>
4.1	Reaction to fire .....	8
4.2	Flexural strength (expressed as breaking load) .....	8
4.3	Dangerous substances .....	8
4.4	Setting time .....	9
4.5	Cracking .....	9
4.6	Particle size distribution .....	9
4.7	Adhesion/cohesion .....	9
4.8	Dimensional stability of paper tape .....	9
4.9	Tensile strength of paper tape .....	9
4.10	Additional requirements for jointing compounds Types H1, H2, H3 (with reduced water absorption) .....	9
<b>5</b>	<b>Test methods .....</b>	<b>10</b>
5.1	Sampling .....	10
5.2	Determination of setting time .....	10
5.2.1	Principle .....	10
5.2.2	Apparatus and materials .....	10
5.2.3	Procedure .....	10
5.2.4	Expression of results .....	11
5.3	Determination of cracking resistance .....	11
5.3.1	Principle .....	11
5.3.2	Apparatus and materials .....	11
5.3.3	Procedure .....	12
5.3.4	Expression of results .....	13
5.4	Determination particle size distribution .....	13
5.4.1	Principle .....	13
5.4.2	Apparatus .....	13
5.4.3	Procedure .....	13
5.4.4	Expression of results .....	13
5.5	Determination of adhesion/cohesion .....	13
5.5.1	Principle .....	13
5.5.2	Apparatus .....	14
5.5.3	Procedure .....	14
5.5.4	Expression of results .....	14
5.6	Determination of dimensional stability of paper jointing tape .....	16
5.6.1	Principle .....	16
5.6.2	Apparatus .....	16
5.6.3	Procedure .....	16
5.6.4	Expression of results .....	16
5.7	Determination of tensile strength of paper jointing tape .....	17

5.7.1	Principle .....	17
5.7.2	Apparatus .....	17
5.7.3	Procedure .....	17
5.7.4	Expression of results .....	17
5.8	Determination of flexural strength (breaking load) .....	18
5.8.1	Determination of breaking load by tensile method .....	18
5.8.2	Determination of breaking load by flexural method .....	19
5.9	Determination of water absorption .....	20
5.9.1	Surface water absorption .....	20
5.9.2	Total water absorption .....	21
6	Assessment and verification of constancy of performance - AVCP .....	22
6.1	General .....	22
6.2	Type testing .....	22
6.2.1	General .....	22
6.2.2	Determination of the product type .....	22
6.2.3	Further type testing .....	22
6.3	Factory production control (FPC) .....	23
6.3.1	General .....	23
6.3.2	Personnel .....	23
6.3.3	Equipment .....	23
6.3.4	Raw materials and components .....	23
6.3.5	Product testing and evaluation .....	23
6.3.6	Traceability and marking .....	24
6.3.7	Non-complying products .....	24
6.3.8	Corrective action .....	24
6.3.9	Other test methods .....	24
7	Designation of jointing materials .....	24
8	Marking, labelling and packaging .....	25
Annex A (informative) Sampling procedure for testing .....		26
A.1	General .....	26
A.2	Sampling procedure .....	26
A.2.1	General .....	26
A.2.2	Random sampling .....	26
A.2.3	Representative sampling .....	26
A.2.3.1	General .....	26
A.2.3.2	Sampling from a stack .....	26
A.2.3.3	Sampling from a consignment formed of banded or wrapped packs .....	27
Annex B (normative) Classes for reaction to fire performance for air drying jointing compounds ....		28
Annex C (normative) Mounting and fixing in the test according to EN 13823 (SBI test) .....		29
C.1	Mounting and fixing of the jointing materials .....	29
Annex ZA (informative) Clauses of this European Standard addressing the provisions of the EU Construction Products Regulation .....		31
ZA.1	Scope and relevant characteristics .....	31
ZA.2	Procedure for AVCP of jointing materials for gypsum boards .....	31
ZA.2.1	Systems of AVCP .....	31
ZA.2.2	Declaration of performance (DoP) .....	34
ZA.2.2.1	General .....	34

<b>ZA.2.2.2 Content .....</b>	<b>34</b>
<b>ZA.2.2.3 Example of DoP .....</b>	<b>36</b>
<b>ZA.3 CE marking and labelling .....</b>	<b>37</b>
<b>Bibliography .....</b>	<b>40</b>