

DIN EN 13950:2014-09 (E)

Gypsum board thermal/acoustic insulation composite panels - Definitions, requirements and test methods

Contents		Page
Foreword		4
1	Scope	5
2	Normative references	5
3	Terms, definitions, symbols, abbreviations and classification	6
3.1	Terms and definitions of the product	6
3.2	General terms	6
3.3	Symbols and abbreviations	7
3.4	Classification	7
4	Requirements	7
4.1	General	7
4.2	Fire behaviour	8
4.2.1	Reaction to fire	8
4.2.2	Fire resistance	8
4.3	Water vapour permeability (expressed as water vapour resistance factor)	8
4.4	Flexural strength	8
4.5	Impact resistance	8
4.6	Direct airborne sound insulation	8
4.7	Acoustic absorption	8
4.8	Thermal resistance of the panel	9
4.9	Dimensions and tolerances	9
4.10	Offset	9
4.11	Flatness of the composite	9
4.12	Adhesion/cohesion of the insulating material	9
4.13	Dangerous substances	9
5	Test methods	10
5.1	Sampling	10
5.2	Dimensional measurements	10
5.2.1	Thickness	10
5.3	Determination of the offset	11
5.3.1	Principle	11
5.3.2	Apparatus	11
5.3.3	Procedure	11
5.3.4	Expression of results	12
5.4	Determination of the adhesion/cohesion of the insulating material	12
5.4.1	Principle	12
5.4.2	Apparatus	12
5.4.3	Procedure	14
5.4.4	Expression of results	14
5.5	Determination of the flatness of the composite	14
5.5.1	Principle	14
5.5.2	Apparatus and specimens	15
5.5.3	Procedure	15
5.5.4	Expression of results	15
6	Assessment and verification of constancy of performance - AVCP	15
6.1	General	15

6.2	Type testing	15
6.2.1	General	15
6.2.2	Determination of the product type	15
6.2.3	Further type testing	16
6.3	Factory production control (FPC)	16
6.3.1	General	16
6.3.2	Personnel	16
6.3.3	Equipment	16
6.3.4	Raw materials and components	17
6.3.5	Product testing and evaluation	17
6.3.6	Traceability and marking	17
6.3.7	Non-complying products	17
6.3.8	Corrective action	17
6.3.9	Other test methods	17
7	Designation of composite panels	17
8	Marking, labelling and packaging	18
Annex A (informative) Sampling procedure for testing		19
A.1	General	19
A.2	Sampling procedure	19
A.2.1	General	19
A.2.2	Random sampling	19
A.2.3	Representative sampling	19
A.2.3.1	General	19
A.2.3.2	Sampling from a stack	19
A.2.3.3	Sampling from a consignment formed of banded or wrapped packs	20
Annex B (normative) Mounting and fixing in the test according to EN 13823 (SBI test)		21
B.1	Mounting and fixing of the composite panels	21
Annex ZA (informative) Clauses of this European Standard addressing provisions of the EU Construction Products Regulation		23
ZA.1	Scope and relevant characteristics	23
ZA.2	Procedure for AVCP of gypsum board thermal/acoustic composite panels	24
ZA.2.1	Systems of AVCP	24
ZA.2.2	Declaration of performance (DoP)	26
ZA.2.2.1	General	26
ZA.2.2.2	Content	27
ZA.2.2.3	Example of DoP	28
ZA.3	CE marking and labelling	29
Bibliography		32