
Toplotna izolacija in učinkovita raba energije v stavbah - Metoda za določanje obstojnosti lepljenja z lepilnimi trakovi in lepilnimi masami za vzpostavitev zrakotesnih slojev v podnebnih razmerah, reprezentativnih za notranje prostore

Thermal insulation and energy economy in buildings - Method to determine the durability of bondings with adhesive tapes and adhesive masses for the establishment of airtight layers under climatic conditions representative for indoor environments

Wärmeschutz und Energieeinsparung in Gebäuden - Methoden zum Nachweis der Dauerhaftigkeit von Verklebungen mit Klebebändern und Klebmassen zur Herstellung von luftdichten Schichten unter klimatischen Bedingungen von Innenräumen

Isolation thermique et économie d'énergie dans les bâtiments - Méthode de détermination de la durabilité des collages avec des rubans adhésifs et des masses adhésives pour l'établissement de couches étanches à l'air dans des conditions climatiques représentatives des environnements intérieurs

Ta slovenski standard je istoveten z: EN 17990:2025

ICS:

91.120.10 Toplotna izolacija stavb Thermal insulation of buildings

SIST EN 17990:2025**en,fr,de**

EUROPEAN STANDARD

EN 17990

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2025

ICS 91.120.10

English Version

Thermal insulation and energy economy in buildings -
Method to determine the durability of bondings with
adhesive tapes and adhesive masses for the establishment
of airtight layers under climatic conditions representative
for indoor environments

Isolation thermique et économie d'énergie dans les
bâtiments - Méthode de détermination de la durabilité
des collages avec des rubans adhésifs et des masses
adhésives pour l'établissement de couches étanches à
l'air dans des conditions climatiques représentatives
des environnements intérieurs

Wärmeschutz und Energieeinsparung in Gebäuden -
Methoden zum Nachweis der Dauerhaftigkeit von
Verklebungen mit Klebebändern und Klebemassen zur
Herstellung von luftdichten Schichten unter
klimatischen Bedingungen von Innenräumen

This European Standard was approved by CEN on 21 April 2025.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Contents	Page
European foreword.....	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	6
4 Symbols and units	7
5 Testing	7
5.1 General	7
5.2 Test substrate	8
5.2.1 Reference substrate	8
5.2.2 Product combinations	8
5.3 Climatic boundary conditions	8
5.4 Apparatus	8
5.4.1 Pressure roller and support	8
5.4.2 Device for cutting sample strips (test pieces)	9
5.4.3 Tensile testing machine	9
5.4.4 Climatic chamber for artificial ageing	9
5.4.5 Conditioned room	9
5.4.6 Heating cabinet	9
5.5 Preparation for testing	9
5.5.1 General	9
5.5.2 Sample preparation for the test of single-sided and double-sided adhesive tapes ..	10
5.5.3 Sample preparation for the test of adhesive masses	12
5.5.4 Tables regarding sample preparation, conditioning and test procedures	13
5.6 Procedure	15
5.6.1 General	15
5.6.2 Execution of T-peel tests (adhesive tapes)	15
5.6.3 Execution of 180° peel test (adhesive masses)	17
5.6.4 Static peel test	18
5.7 Evaluation of tests	20
5.7.1 Determination of maximum and mean peel strength for the T-peel test and the 180° peel test according to 5.6.2 and 5.6.3	20
5.7.2 Evaluation of static peel test	22
6 Test report	22
Annex A (normative) Detailed description of the sample preparation for adhesive masses ..	23
Annex B (informative) Detailed description of the sample preparation for double sided adhesive tapes	25
B.1 General preparation for double sided adhesive tapes	25

B.2	Subsequent procedure for membranes.....	26
B.3	Subsequent procedure for beech wood substrates.....	27
	Bibliography.....	28

iTeh Standards
(<https://standards.itih.ai>)
Document Preview

[SIST EN 17990:2025](https://standards.itih.ai/catalog/standards/sist/e2119199-2dc6-412d-8b8a-356fda3e9375/sist-en-17990-2025)

<https://standards.itih.ai/catalog/standards/sist/e2119199-2dc6-412d-8b8a-356fda3e9375/sist-en-17990-2025>