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Flexible sheets for waterproofing - Underlays for discontinuous roof coverings - Artificial ageing procedure

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

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EUROPEAN STANDARD
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English Version

**Flexible sheets for waterproofing - Underlays for
discontinuous roof coverings - Artificial ageing procedure**

Feuilles souples d'étanchéité - Écrans souples de sous-toiture pour couverture en petits éléments discontinus
- Mode opératoire de vieillissement artificiel

Flexible Bahnen für Abdichtungen - Unterdeck- und
Unterspannbahnen für Dacheindeckungen - Verfahren
zur künstlichen Alterung

This European Standard was approved by CEN on 20 November 2023.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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EN 17872:2023 (E)

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European foreword

This document (EN 17872:2023) has been prepared by Technical Committee CEN/TC 254 “Flexible sheets for waterproofing”, the secretariat of which is held by NEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2024, and conflicting national standards shall be withdrawn at the latest by June 2024.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

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EN 17872:2023 (E)**Introduction**

During its time on the roof, a discontinuous roofing underlay is exposed to different climatic conditions. During installation, whilst the roof is open prior to application of the primary covering, the underlay is exposed to UV and direct weathering. After completion of the roof, the underlay is subject to long term oxidation and hydrolysis, being exposed to elevated temperatures in combination with high relative humidity and accelerated air-speed due to wind-driven and thermally-driven air flows. The method described in this document is designed to simulate these relevant exposures, which affect the durability of an underlay.

This document is an additional voluntary artificial ageing test procedure that is intended to be incorporated into the harmonized standard EN 13859-1:2010 at a future revision.

1 Scope

This document specifies a procedure for artificial ageing of flexible underlays which are used under discontinuous roof coverings. This is achieved by exposing test samples to UV-radiation, elevated temperature in combination with high relative humidity and elevated temperature in combination with accelerated air-speed.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 1296:2000, *Flexible sheets for waterproofing — Bitumen, plastic and rubber sheets for roofing — Method of artificial ageing by long term exposure to elevated temperature*

EN 1297:2004, *Flexible sheets for waterproofing — Bitumen, plastic and rubber sheets for roof waterproofing — Method of artificial ageing by long term exposure to the combination of UV radiation, elevated temperature and water*

EN 13859-1:2010, *Flexible sheets for waterproofing — Definitions and characteristics of underlays — Part 1: Underlays for discontinuous laying*

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