

# SVENSK STANDARD

## SS-EN 17190:2018



Fastställt/Approved: 2018-10-24  
Utgåva/Edition: 1  
Språk/Language: engelska/English  
ICS: 91.100.50

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### **Flexibla tätskikt – Index för solreflektans**

### **Flexible sheets for waterproofing – Solar Reflectance Index**

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EUROPEAN STANDARD

**EN 17190**

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2018

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ICS 91.100.50

English Version

## Flexible sheets for waterproofing - Solar Reflectance Index

Feuilles souples d'étanchéité - Indice de Réflectance  
Solaire

Abdichtungsbahnen - Index des Reflexionsvermögens

This European Standard was approved by CEN on 20 May 2018.

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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.

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

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

**SS-EN 17190:2018 (E)**

<b>Contents</b>		<b>Page</b>
<b>European foreword .....</b>		<b>3</b>
<b>1</b>	<b>Scope.....</b>	<b>4</b>
<b>2</b>	<b>Normative references.....</b>	<b>4</b>
<b>3</b>	<b>Terms and definitions .....</b>	<b>4</b>
<b>4</b>	<b>Sampling.....</b>	<b>5</b>
<b>5</b>	<b>Solar reflectivity .....</b>	<b>5</b>
<b>6</b>	<b>Thermal emissivity.....</b>	<b>5</b>
<b>7</b>	<b>Solar Reflectance Index .....</b>	<b>5</b>
<b>8</b>	<b>Expression of the results .....</b>	<b>5</b>
<b>9</b>	<b>Test report.....</b>	<b>6</b>
<b>Bibliography.....</b>		<b>7</b>

## **European foreword**

This document (EN 17190:2018) 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of an identical text or by endorsement, at the latest by April 2019, and conflicting national standards shall be withdrawn at the latest by April 2019

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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## SS-EN 17190:2018 (E)

### 1 Scope

This European Standard gives a calculation method of the Solar Reflectance Index (SRI) and the determination of solar reflectivity and thermal emissivity for waterproofing flexible sheets for roofs with a slope smaller than 10°.

### 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 15976, *Flexible sheets for waterproofing - Determination of emissivity*

ASTM C1549-16, *Standard test method for determination of solar reflectance near ambient temperature using a portable solar reflectometer*

ASTM E1980-11, *Standard practice for calculating Solar Reflectance Index of horizontal and low-sloped opaque surfaces*

ASTM E903-12, *Standard Test Method for Solar Absorptance, Reflectance, and Transmittance of Materials Using Integrating Spheres*

### 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

#### 3.1

##### **Solar Reflectance Index**

relative temperature of a surface with respect to the standard white (SRI = 100) and standard black (SRI = 0) under the standard solar and ambient conditions

[SOURCE: ASTM E1980-11, definition 3.1.9]

#### 3.2

##### **solar reflectivity**

ratio of the reflected irradiation to the solar irradiation from a surface of the sheet

#### 3.3

##### **thermal emissivity**

emissivity of a material (usually written  $\epsilon$ ) is the ratio (proportion) of the energy radiated by a surface relative to the energy radiated by a blackbody at the same temperature; it is a measure of a material's ability to radiate heat

[SOURCE: EN 15976:2011, definition 3.1]