

# DIN EN 12898:2019-06 (E)

## Glass in building - Determination of the emissivity

---

Contents	Page
European foreword.....	4
1 Scope .....	5
2 Normative references .....	5
3 Terms, definitions and abbreviations .....	5
3.1 Terms and definitions .....	5
3.2 Abbreviations .....	7
4 Brief outline of the procedure to determine corrected emissivity .....	7
5 Spectral normal reflectance measurements and calculations.....	8
5.1 Sample preparation.....	8
5.2 Spectral normal reflectance measurements .....	8
5.2.1 General.....	8
5.2.2 Test apparatus.....	8
5.2.3 Measurement.....	9
5.2.4 Accuracy .....	9
5.3 Interpolation.....	9
5.4 Determination of normal reflectance .....	9
5.4.1 General.....	9
5.4.2 Calculation method.....	10
5.4.3 Noise criterion.....	10
6 Calculation of total normal emissivity and corrected emissivity .....	11
6.1 Total normal emissivity .....	11
6.2 Corrected emissivity .....	11
7 Test report.....	11
Annex A (normative) Table for determining total normal reflectance .....	13
Annex B (informative) Procedures to improve the accuracy of spectral normal reflectance measurements.....	14
B.1 General.....	14
B.2 Spectrophotometer .....	14
B.3 Reference mirror.....	14
B.4 Reflectance accessory.....	14
Annex C (informative) Transmittance and diffuse reflectance measurements and calculation of total normal transmittance .....	15
C.1 Transmittance measurements .....	15
C.2 Calculation of total normal transmittance .....	15
C.3 Diffuse reflectance measurements .....	15
Annex D (informative) Determination of absolute reflectance by comparing the energy of the beam reflected from the sample to that of the incident beam .....	16
D.1 General.....	16

<b>D.2</b>	<b>VW absolute reflectance accessory (also known as a “Strong-type” accessory) .....</b>	<b>16</b>
<b>D.3</b>	<b>IV absolute reflection accessories .....</b>	<b>19</b>
<b>D.4</b>	<b>Uncertainty .....</b>	<b>20</b>
	<b>Bibliography .....</b>	<b>21</b>