

DIN EN 14501:2025-04 (E)

Blinds and shutters - Thermal and visual comfort - Performance characteristics and classification (includes Amendment :2025)

Contents		Page
European foreword		4
Introduction		5
1 Scope		6
2 Normative references		6
3 Terms, definitions and symbols		7
4 Notations used		9
4.1 General		9
4.2 Visual or solar properties		9
4.3 Geometry of the radiation		10
4.4 Optical factors		11
5 Thermal comfort		11
5.1 General		11
5.2 Control of solar gains - Total solar energy transmittance g_{tot}		11
5.3 Secondary heat gains - Secondary heat transfer factor $q_{i, tot}$		13
5.4 Protection from direct transmission - Normal/normal solar transmittance $e, n-n$		14
6 Visual comfort		14
6.1 General		14
6.2 Darkening performance		16
6.3 Glare control		17
6.4 Night privacy		19
6.5 Visual contact with the outside		20
6.6 Daylight utilization		21
6.7 Rendering of colours		21
Annex A (normative) Reference glazing		22
A.1 General		22
A.2 Reference glazing with integrated data only		22
A.2.1 Glazing A		22
A.2.2 Glazing B		22
A.2.3 Glazing C		23
A.2.4 Glazing D		24
A.2.5 Glazing E		24
A.3 Reference glazing with spectral data		25
A.3.1 General		25
A.3.2 Glazing F		25
A.3.3 Glazing G		26
A.3.4 Glazing H		26
A.3.5 Spectral data for the panes		26
Annex B (informative) The meaning of the secondary internal heat transfer factor $q_{i, tot}$		33
Annex C (informative) Example of performance presentation		34

C.1	Thermal comfort	34
C.2	Visual comfort	34
Annex D (informative) Daylight Glare Probability		36
D.1	General	36
D.2	Glare	36
D.3	Daylight Glare Probability	36
D.3.1	General	36
D.3.2	Annual evaluation	37
D.3.3	Simplified annual glare evaluation	38
Annex E (normative) Opacity performance of curtain material		44
Bibliography		45