

## Annex A (normative)

### Reference glazing

#### A.1 General

For global product comparisons (glazing unknown) of shutters, external and internal blinds the following reference glazing shall be used:

#### A.2 Glazing A

Clear single glazing (4 mm Float)

**Table A.1 — Glazing A — Thermal properties**

<b>U</b> W/(m <sup>2</sup> K)	<b>g</b>	$\tau_e$	$\rho_e$	$\rho'_e$	$\tau_v$	$\rho_v$	$\rho'_v$
5,8	0,85	0,83	0,08	0,08	0,90	0,08	0,08

Characteristics of components:

**Table A.2 — Glazing A — Optical properties of the single glass pane**

	Single pane
$\tau_e$	0,83
$\rho_e$	0,08
$\rho'_e$	0,08
$\varepsilon$	0,84
$\varepsilon'$	0,84
$\tau_v$	0,90
$\rho_v$	0,08
$\rho'_v$	0,08

#### A.3 Glazing B

Clear double glazing (4 mm Float + 12 mm space + 4 mm Float), space filled with air as specified in Table A.3 and Table A.4.

**Table A.3 — Glazing B — Thermal properties**

<b>U</b> W/(m <sup>2</sup> K)	<b>g</b>	$\tau_e$	$\rho_e$	$\rho'_e$	$\tau_v$	$\rho_v$	$\rho'_v$
2,9	0,76	0,69	0,14	0,14	0,82	0,15	0,15

Characteristics of components:

**Table A.4 — Glazing B — Optical properties of the individual panes**

	Ext. pane	Int. pane
$\tau_e$	0,83	0,83
$\rho_e$	0,08	0,08
$\rho'_e$	0,08	0,08
$\varepsilon$	0,84	0,84
$\varepsilon'$	0,84	0,84
$\tau_v$	0,90	0,90
$\rho_v$	0,08	0,08
$\rho'_v$	0,08	0,08

#### A.4 Glazing C

Double glazing (4 mm Float + 16 mm space + 4 mm Float), with low emissivity coating in position 3 (outer surface of the inner pane), space filled with argon as specified in Table A.5 and Table A.6.

**Table A.5 — Glazing C — Thermal properties**

<b>U</b> W/(m <sup>2</sup> K)	<b>g</b>	$\tau_e$	$\rho_e$	$\rho'_e$	$\tau_v$	$\rho_v$	$\rho'_v$
1,2	0,59	0,49	0,29	0,27	0,80	0,15	0,10

Characteristics of components:

**Table A.6 — Glazing C — Optical properties of the individual panes**

	Ext. pane	Int. pane
$\tau_e$	0,83	0,58
$\rho_e$	0,08	0,30
$\rho'_e$	0,08	0,24
$\varepsilon$	0,84	0,05
$\varepsilon'$	0,84	0,84
$\tau_v$	0,90	0,82
$\rho_v$	0,08	0,08
$\rho'_v$	0,08	0,04

## A.5 Glazing D

Solar control double glazing 4 + 16 + 4 with a low emissivity soft coating in position 2, (inner surface of the outer pane), space filled with Argon as specified in Table A.7 and Table A.8.

**Table A.7 — Glazing D — Thermal properties**

<b>U</b> W/(m <sup>2</sup> K)	<b>g</b>	$\tau_e$	$\rho_e$	$\rho'_e$	$\tau_v$	$\rho_v$	$\rho'_v$
1,1	0,32	0,27	0,29	0,38	0,44	0,43	0,38

Characteristics of components:

**Table A.8 — Glazing D — Optical properties of the individual panes**

	<b>Ext. Pane</b>	<b>Int. pane</b>
$\tau_e$	0,32	0,83
$\rho_e$	0,28	0,08
$\rho'_e$	0,42 (coated)	0,08
$\varepsilon$	0,84	0,84
$\varepsilon'$	0,04	0,84
$\tau_v$	0,47	0,90
$\rho_v$	0,41	0,08
$\rho'_v$	0,35	0,08

## A.6 Glazing E

Triple glazing 4 + 14 + 4 + 14 + 4 with a low emissivity soft coating in position 2 and 5, (inner surface of the outer pane and external surface of the inner pane), space filled with Argon as specified in Table A.9 and Table A.10.

**Table A.9 — Glazing E — Thermal properties**

<b>U</b> W/(m <sup>2</sup> K)	<b>g</b>	$\tau_e$	$\rho_e$	$\rho'_e$	$\tau_v$	$\rho_v$	$\rho'_v$
0,80	0,55	0,50	0,22	0,23	0,73	0,16	0,16