

## CE marking

### EN 12150-2:2004; EN 14179-2:2005

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## **Introduction**

This document gives CE declarations and performances for thermally toughened soda lime silicate safety glass and heat soaked Thermally toughened soda lime silicate safety glass produced by Steinfort Glas.

General information concerning CE-marking for flat glass is available in Dutch at [www.steinfort.nl/ce-markering](http://www.steinfort.nl/ce-markering)

**Thermally toughened soda lime silicate safety glass**

**EN 12150-2:2004**



**STEINFÖRT**  
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**Steinfort Glas B.V.  
Marconistraat 6  
8801 PM Franeker**

**2016**

Thermally toughened soda lime silicate safety glass  
**Toughened glass 4 mm**

**EN 12150-2:2004**  
**Thermally toughened soda lime silicate safety glass**  
intended to be used in buildings and construction works

**Characteristics**

Resistance to fire	npd
Reaction to fire	A1
External fire performance	npd
Bullet resistance	npd
Explosion resistance	npd
Burglar resistance	npd
Pendulum body impact resistance	1 (C) 3
Resistance against sudden temperature changes and temperature differentials	200 K
Wind, snow, permanent and imposed load resistance	4 mm
Direct airborne sound insulation	29 (-2;-3) dB
Thermal properties	5.8 W/m <sup>2</sup> K
Light transmission and reflection	0.90/0.08
Solar energy characteristics	0.84/0.08

*npd = no performance determined*



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**2016**

Thermally toughened soda lime silicate safety glass  
**Toughened glass 5 mm**

**EN 12150-2:2004**  
**Thermally toughened soda lime silicate safety glass**  
intended to be used in buildings and construction works

**Characteristics**

Resistance to fire	npd
Reaction to fire	A1
External fire performance	npd
Bullet resistance	npd
Explosion resistance	npd
Burglar resistance	npd
Pendulum body impact resistance	1 (C) 2
Resistance against sudden temperature changes and temperature differentials	200 K
Wind, snow, permanent and imposed load resistance	5 mm
Direct airborne sound insulation	30 (-1;-2) dB
Thermal properties	5.7 W/m <sup>2</sup> K
Light transmission and reflection	0.89/0.08
Solar energy characteristics	0.83/0.08

*npd = no performance determined*



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**2016**

Thermally toughened soda lime silicate safety glass  
**Toughened glass 6 mm**

**EN 12150-2:2004**  
**Thermally toughened soda lime silicate safety glass**  
intended to be used in buildings and construction works

**Characteristics**

Resistance to fire	npd
Reaction to fire	A1
External fire performance	npd
Bullet resistance	npd
Explosion resistance	npd
Burglar resistance	npd
Pendulum body impact resistance	1 (C) 1
Resistance against sudden temperature changes and temperature differentials	200 K
Wind, snow, permanent and imposed load resistance	6 mm
Direct airborne sound insulation	31 (-2;-3) dB
Thermal properties	5.7 W/m <sup>2</sup> K
Light transmission and reflection	0.89/0.08
Solar energy characteristics	0.82/0.07

*npd = no performance determined*



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**2016**

Thermally toughened soda lime silicate safety glass  
**Toughened glass 6 mm K-Glass**

**EN 12150-2:2004**  
**Thermally toughened soda lime silicate safety glass**  
intended to be used in buildings and construction works

**Characteristics**

Resistance to fire	npd
Reaction to fire	A1
External fire performance	npd
Bullet resistance	npd
Explosion resistance	npd
Burglar resistance	npd
Pendulum body impact resistance	1 (C) 1
Resistance against sudden temperature changes and temperature differentials	200 K
Wind, snow, permanent and imposed load resistance	6 mm
Direct airborne sound insulation	31 (-2;-3) dB
Thermal properties	5.7 W/m <sup>2</sup> K
Light transmission and reflection	0.89/0.08
Solar energy characteristics	0.82/0.07

*npd = no performance determined*



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Thermally toughened soda lime silicate safety glass  
**Toughened glass 8 mm**

**EN 12150-2:2004**  
**Thermally toughened soda lime silicate safety glass**  
intended to be used in buildings and construction works

**Characteristics**

Resistance to fire	npd
Reaction to fire	A1
External fire performance	npd
Bullet resistance	npd
Explosion resistance	npd
Burglar resistance	npd
Pendulum body impact resistance	1 (C) 1
Resistance against sudden temperature changes and temperature differentials	200 K
Wind, snow, permanent and imposed load resistance	8 mm
Direct airborne sound insulation	32 (-2;-3) dB
Thermal properties	5.6 W/m <sup>2</sup> K
Light transmission and reflection	0.88/0.08
Solar energy characteristics	0.79/0.07

*npd = no performance determined*





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Thermally toughened soda lime silicate safety glass  
**Toughened glass 10 mm**

**EN 12150-2:2004**  
**Thermally toughened soda lime silicate safety glass**  
intended to be used in buildings and construction works

**Characteristics**

Resistance to fire	npd
Reaction to fire	A1
External fire performance	npd
Bullet resistance	npd
Explosion resistance	npd
Burglar resistance	npd
Pendulum body impact resistance	1 (C) 1
Resistance against sudden temperature changes and temperature differentials	200 K
Wind, snow, permanent and imposed load resistance	10 mm
Direct airborne sound insulation	33(-2;-3) dB
Thermal properties	5.6 W/m <sup>2</sup> K
Light transmission and reflection	0.87/0.08
Solar energy characteristics	0.76/0.07

*npd = no performance determined*



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Thermally toughened soda lime silicate safety glass  
**Toughened glass 12 mm**

**EN 12150-2:2004**  
**Thermally toughened soda lime silicate safety glass**  
intended to be used in buildings and construction works

**Characteristics**

Resistance to fire	<b>npd</b>
Reaction to fire	<b>A1</b>
External fire performance	<b>npd</b>
Bullet resistance	<b>npd</b>
Explosion resistance	<b>npd</b>
Burglar resistance	<b>npd</b>
Pendulum body impact resistance	<b>1 (C) 1</b>
Resistance against sudden temperature changes and temperature differentials	<b>200 K</b>
Wind, snow, permanent and imposed load resistance	<b>12 mm</b>
Direct airborne sound insulation	<b>34 (0;-2) dB</b>
Thermal properties	<b>5.5 W/m<sup>2</sup>K</b>
Light transmission and reflection	<b>0.87/0.08</b>
Solar energy characteristics	<b>0.73/0.07</b>

*npd = no performance determined*



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Thermally toughened soda lime silicate safety glass  
**Toughened glass 15 mm**

**EN 12150-2:2004**  
**Thermally toughened soda lime silicate safety glass**  
intended to be used in buildings and construction works

**Characteristics**

Resistance to fire	npd
Reaction to fire	A1
External fire performance	npd
Bullet resistance	npd
Explosion resistance	npd
Burglar resistance	npd
Pendulum body impact resistance	1 (C) 1
Resistance against sudden temperature changes and temperature differentials	200 K
Wind, snow, permanent and imposed load resistance	15 mm
Direct airborne sound insulation	36 (-1;-3) dB
Thermal properties	5.4 W/m <sup>2</sup> K
Light transmission and reflection	0.85/0.08
Solar energy characteristics	0.70/0.07

*npd = no performance determined*



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**2016**

Thermally toughened soda lime silicate safety glass  
**Toughened glass 19 mm**

**EN 12150-2:2004**  
**Thermally toughened soda lime silicate safety glass**  
intended to be used in buildings and construction works

**Characteristics**

Resistance to fire	npd
Reaction to fire	A1
External fire performance	npd
Bullet resistance	npd
Explosion resistance	npd
Burglar resistance	npd
Pendulum body impact resistance	1 (C) 1
Resistance against sudden temperature changes and temperature differentials	200 K
Wind, snow, permanent and imposed load resistance	19 mm
Direct airborne sound insulation	37 (-1;-3) dB
Thermal properties	5.3 W/m <sup>2</sup> K
Light transmission and reflection	0.84/0.07
Solar energy characteristics	0.66/0.07

*npd = no performance determined*

**Heat soaked**  
**Thermally toughened soda lime silicate safety glass**  
**EN 14179-2:2005**



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Heat soaked thermally toughened soda lime silicate safety glass  
**Toughened glass 4 mm**

**EN 14179-2:2005**  
**Heat soaked thermally toughened soda lime silicate safety glass**  
intended to be used in buildings and construction works

**Characteristics**

Resistance to fire	npd
Reaction to fire	A1
External fire performance	npd
Bullet resistance	npd
Explosion resistance	npd
Burglar resistance	npd
Pendulum body impact resistance	1 (C) 3
Resistance against sudden temperature changes and temperature differentials	200 K
Wind, snow, permanent and imposed load resistance	4 mm
Direct airborne sound insulation	29 (-2;-3) dB
Thermal properties	5.8 W/m <sup>2</sup> K
Light transmission and reflection	0.90/0.08
Solar energy characteristics	0.84/0.08

*npd = no performance determined*



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**2016**

Heat soaked thermally toughened soda lime silicate safety glass  
**Toughened glass 5 mm**

**EN 14179-2:2005**  
**Heat soaked thermally toughened soda lime silicate safety glass**  
intended to be used in buildings and construction works

**Characteristics**

Resistance to fire	npd
Reaction to fire	<b>A1</b>
External fire performance	npd
Bullet resistance	npd
Explosion resistance	npd
Burglar resistance	npd
Pendulum body impact resistance	<b>1 (C) 2</b>
Resistance against sudden temperature changes and temperature differentials	<b>200 K</b>
Wind, snow, permanent and imposed load resistance	<b>5 mm</b>
Direct airborne sound insulation	<b>30 (-1;-2) dB</b>
Thermal properties	<b>5.7 W/m<sup>2</sup>K</b>
Light transmission and reflection	<b>0.89/0.08</b>
Solar energy characteristics	<b>0.83/0.08</b>

*npd = no performance determined*



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Heat soaked thermally toughened soda lime silicate safety glass  
**Toughened glass 6 mm**

**EN 14179-2:2005**  
**Heat soaked thermally toughened soda lime silicate safety glass**  
intended to be used in buildings and construction works

**Characteristics**

Resistance to fire	npd
Reaction to fire	<b>A1</b>
External fire performance	npd
Bullet resistance	npd
Explosion resistance	npd
Burglar resistance	npd
Pendulum body impact resistance	<b>1 (C) 1</b>
Resistance against sudden temperature changes and temperature differentials	<b>200 K</b>
Wind, snow, permanent and imposed load resistance	<b>6 mm</b>
Direct airborne sound insulation	<b>31 (-2;-3) dB</b>
Thermal properties	<b>5.7 W/m<sup>2</sup>K</b>
Light transmission and reflection	<b>0.89/0.08</b>
Solar energy characteristics	<b>0.82/0.07</b>

*npd = no performance determined*





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**2016**

Heat soaked thermally toughened soda lime silicate safety glass  
**Toughened glass 6 mm K-Glass**

**EN 14179-2:2005**  
**Heat soaked thermally toughened soda lime silicate safety glass**  
intended to be used in buildings and construction works

**Characteristics**

Resistance to fire	npd
Reaction to fire	A1
External fire performance	npd
Bullet resistance	npd
Explosion resistance	npd
Burglar resistance	npd
Pendulum body impact resistance	1 (C) 1
Resistance against sudden temperature changes and temperature differentials	200 K
Wind, snow, permanent and imposed load resistance	6 mm
Direct airborne sound insulation	31 (-2;-3) dB
Thermal properties	5.7 W/m <sup>2</sup> K
Light transmission and reflection	0.89/0.08
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*npd = no performance determined*



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Heat soaked thermally toughened soda lime silicate safety glass  
**Toughened glass 8 mm**

**EN 14179-2:2005**  
**Heat soaked thermally toughened soda lime silicate safety glass**  
intended to be used in buildings and construction works

**Characteristics**

Resistance to fire	npd
Reaction to fire	A1
External fire performance	npd
Bullet resistance	npd
Explosion resistance	npd
Burglar resistance	npd
Pendulum body impact resistance	1 (C) 1
Resistance against sudden temperature changes and temperature differentials	200 K
Wind, snow, permanent and imposed load resistance	8 mm
Direct airborne sound insulation	32 (-2;-3) dB
Thermal properties	5.6 W/m <sup>2</sup> K
Light transmission and reflection	0.88/0.08
Solar energy characteristics	0.79/0.07

*npd = no performance determined*



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**2016**

Heat soaked thermally toughened soda lime silicate safety glass  
**Toughened glass 10 mm**

**EN 14179-2:2005**  
**Heat soaked thermally toughened soda lime silicate safety glass**  
intended to be used in buildings and construction works

**Characteristics**

Resistance to fire	npd
Reaction to fire	A1
External fire performance	npd
Bullet resistance	npd
Explosion resistance	npd
Burglar resistance	npd
Pendulum body impact resistance	1 (C) 1
Resistance against sudden temperature changes and temperature differentials	200 K
Wind, snow, permanent and imposed load resistance	10 mm
Direct airborne sound insulation	33(-2;-3) dB
Thermal properties	5.6 W/m <sup>2</sup> K
Light transmission and reflection	0.87/0.08
Solar energy characteristics	0.76/0.07

*npd = no performance determined*



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**2016**

Heat soaked thermally toughened soda lime silicate safety glass  
**Toughened glass 12 mm**

**EN 14179-2:2005**  
**Heat soaked thermally toughened soda lime silicate safety glass**  
intended to be used in buildings and construction works

**Characteristics**

Resistance to fire	<b>npd</b>
Reaction to fire	<b>A1</b>
External fire performance	<b>npd</b>
Bullet resistance	<b>npd</b>
Explosion resistance	<b>npd</b>
Burglar resistance	<b>npd</b>
Pendulum body impact resistance	<b>1 (C) 1</b>
Resistance against sudden temperature changes and temperature differentials	<b>200 K</b>
Wind, snow, permanent and imposed load resistance	<b>12 mm</b>
Direct airborne sound insulation	<b>34 (0;-2) dB</b>
Thermal properties	<b>5.5 W/m<sup>2</sup>K</b>
Light transmission and reflection	<b>0.87/0.08</b>
Solar energy characteristics	<b>0.73/0.07</b>

*npd = no performance determined*



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**2016**

Heat soaked thermally toughened soda lime silicate safety glass  
**Toughened glass 15 mm**

**EN 14179-2:2005**  
**Heat soaked thermally toughened soda lime silicate safety glass**  
intended to be used in buildings and construction works

**Characteristics**

Resistance to fire	npd
Reaction to fire	A1
External fire performance	npd
Bullet resistance	npd
Explosion resistance	npd
Burglar resistance	npd
Pendulum body impact resistance	1 (C) 1
Resistance against sudden temperature changes and temperature differentials	200 K
Wind, snow, permanent and imposed load resistance	15 mm
Direct airborne sound insulation	36 (-1;-3) dB
Thermal properties	5.4 W/m <sup>2</sup> K
Light transmission and reflection	0.85/0.08
Solar energy characteristics	0.70/0.07

*npd = no performance determined*



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**2016**

Heat soaked thermally toughened soda lime silicate safety glass  
**Toughened glass 19 mm**

**EN 14179-2:2005**  
**Heat soaked thermally toughened soda lime silicate safety glass**  
intended to be used in buildings and construction works

**Characteristics**

Resistance to fire	npd
Reaction to fire	<b>A1</b>
External fire performance	npd
Bullet resistance	npd
Explosion resistance	npd
Burglar resistance	npd
Pendulum body impact resistance	<b>1 (C) 1</b>
Resistance against sudden temperature changes and temperature differentials	<b>200 K</b>
Wind, snow, permanent and imposed load resistance	<b>19 mm</b>
Direct airborne sound insulation	<b>37 (-1;-3) dB</b>
Thermal properties	<b>5.3 W/m<sup>2</sup>K</b>
Light transmission and reflection	<b>0.84/0.07</b>
Solar energy characteristics	<b>0.66/0.07</b>

*npd = no performance determined*