

Manufacturer : see UNIGLAS shareholder (www.uniglas.net)

Insulating glass units intended to be used in buildings and construction work

Product: **UNIGLAS® | SAFE**

Pendulum body resistance (EN 12600)

Product identification = Resistance class glazing "RC"

7 B	7 B	7 B	7 B	7 B	7 B	7 B	7 B	7 B	7 B	7 B	7 B	7 B
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Type of film	PVB	PVB	PVB	PVB	PVB	PVB	PVB	PVB	PVB	PVB	PVB	PVB	PVB
Pane configuration* in mm	33.1	33.2	33.4	44.1	44.2	44.4	55.1	55.2	55.4	66.1	66.2	66.4	
outside cavity with inside (optional)	-16- :4	-16- :4	-16- :4	-16- :4	-16- :4	-16- :4	-16- :4	-16- :4	-16- :4	-16- :4	-16- :4	-16- :4	

**Specifics**

Resistance to fire (EN 13501-2)	npd	npd	npd	npd	npd	npd	npd	npd	npd	npd	npd	npd
Reaction to fire (EN 13501-1)	npd	npd	npd	npd	npd	npd	npd	npd	npd	npd	npd	npd
External fire performance (EN 13501-5)	npd	npd	npd	npd	npd	npd	npd	npd	npd	npd	npd	npd
Bullet resistance (EN 1063)	npd	npd	npd	npd	npd	npd	npd	npd	npd	npd	npd	npd
Explosion resistance (EN 13541)	npd	npd	npd	npd	npd	npd	npd	npd	npd	npd	npd	npd
Burglar resistance (EN 356)	npd	npd	npd	npd	npd	npd	npd	npd	npd	npd	npd	npd
Pendulum body resistance (EN 12600)	7 B	7 B	7 B	7 B	7 B	7 B	7 B	7 B	7 B	7 B	7 B	7 B
Resistance against sudden temperature changes and tempertur differentials (EN 12150)	40 K	40 K	40 K	40 K	40 K	40 K	40 K	40 K	40 K	40 K	40 K	40 K
Wind, snow, permanent and imposed load resistance (EN 13474)	2x3 + 4 mm	2x3 + 4 mm	2x3 + 4 mm	2x4 + 4 mm	2x4 + 4 mm	2x4 + 4 mm	2x5 + 4 mm	2x5 + 4 mm	2x5 + 4 mm	2x6 + 4 mm	2x6 + 4 mm	2x6 + 4 mm
Direct airborne sound insulation (EN 12758) R <sub>w</sub> (-C; -C <sub>tr</sub> ): dB	36 (-2;-5)	36 (-2;-5)	36 (-2;-5)	37 (-2;-5)	37 (-2;-5)	37 (-2;-5)	38 (-3;-7)	38 (-3;-7)	38 (-3;-7)	38 (-2;-6)	38 (-2;-6)	38 (-2;-6)
Thermal properties (EN 673) or EN 674: W/m <sup>2</sup> K	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,1
Light Transmission / light reflection (EN 410): %	80/12	80/12	80/12	79/12	79/12	79/12	79/12	79/12	79/12	78/11	78/12	78/11
Solar energy transmission (EN 410) = g-value: %	62	62	61	61	60	60	59	59	58	57	57	56

\* : coating position  
npd = no performance determined

All specifics are nominal values with production tolerances according to EN standards, german building supervisory approval (Bauregelliste BRL) and used basic glass.

Manufacturer : see UNIGLAS shareholder (www.uniglas.net)

Insulating glass units intended to be used in buildings and construction work

Product: <b>UNIGLAS®   SAFE</b>	Resistance against manuel attack EN 356									
Product identification = Resinistance class glazing "RC"	P1A	P2A	P2A	P2A	P2A	P2A	P3A	P4A	P4A	P5A
Pane configuration* in mm	NC	NC	NC	PVB	PVB	PVB	PVB	PVB	PVB	PVB
Type of film	44.2	33.4	44.4	33.2	44.2	55.2	44.3	33.4	44.4	44.6
outside	-16-	-16-	-16-	-16-	-16-	-16-	-16-	-16-	-16-	-16-
cavity width	:4	:4	:4	:4	:4	:4	:4	:4	:4	:4
inside (otional)										

### Specifics

Resistance to fire (EN 13501-2)	npd	npd	npd	npd	npd	npd	npd	npd	npd	npd
Reaction to fire (EN 13501-1)	npd	npd	npd	npd	npd	npd	npd	npd	npd	npd
External fire performance (EN 13501-5)	npd	npd	npd	npd	npd	npd	npd	npd	npd	npd
Bullet resistance (EN 1063)	npd	npd	npd	npd	npd	npd	npd	npd	npd	npd
Explosion resistance (EN 13541)	npd	npd	npd	npd	npd	npd	npd	npd	npd	npd
Burglar resistance (EN 356)	P1A	P2A	P2A	P2A	P2A	P2A	P3A	P4A	P4A	P5A
Pendulum body resistance (EN 12600)	npd	npd	npd	npd	npd	npd	npd	npd	npd	npd
Resistance against sudden temperature changes and tempertur diffentials (EN 12150)	40 K	40 K	40 K	40 K	40 K	40 K	40 K	40 K	40 K	40 K
Wind, snow, permanent and imposed load resistance (EN 13474)	2x4 + 4 mm	2x3 + 4 mm	2x4 + 4 mm	2x3 + 4 mm	2x4 + 4 mm	2x5 + 4 mm	2x4 + 4 mm	2x3 + 4 mm	2x4 + 4 mm	2x5 + 4 mm
Direct airborne sound insulation (EN 12758) R <sub>w</sub> (-C; -C <sub>tr</sub> ): dB	37 (-2;-6)	36 (-3;-5)	38 (-3;-7)	37 (-2;-6)	37 (-2;-5)	40 (-2;-6)	37 (-2;-5)	38 (-2;-6)	38 (-2;-6)	40 (-2;-6)
Thermal properties (EN 673) or EN 674: W/m²K	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,1
Light Transmission / light reflection (EN 410): %	79/12	79/12	79/12	79/12	79/12	79/12	79/12	79/12	79/12	78/12
Solar energy transmission (EN 410) = g-value: %	58	58	57	59	58	57	58	58	57	56

\* : coating position

npd = no performance determined

All specifics are nominal values with production tolerances according to EN standards, german building supervisory approval (Bauregelliste BRL) and used basic glass.