



### Leistungserklärung

## Thermoglas Niederrhein GmbH Am Wasserturm 5, D-47906 Kempen



EN 1279-5:2006+A2:2010

Verwendungszweck: Isolierglas zur Verwendung in Gebäuden und Bauwerken

Wesentliche Merkmale	Aufbau D=Diamond Si=Silence	Außen/Innen	Feuer- widerstand	Brand-verhalten incl. External FP	Beschuss- hemmung	Sprengwirk- ungshemmung	Durchbruch- hemmung	Widerstand gegen Pendelschlag	Widerstand gg. Plötzl. Temperaturwechsel und -gradienten (K)	Widerstand gg. Wind-, Schnee, Dauerhafte und kurzfristiger Lasten.	Luftschall- dämmung(dB)	Deklarierte Emissivität	Ug-Wert (W/m²K)	Licht- transmission	Licht- reflektion	Energie- transmission	Energie- reflektion	g-Wert	Dauer- haftigkeit	
																				1
AVCP systems (Wärmeschutz Ultra N)																				
SGG CLIMAPLUS ULTRA N	Argon	4/12/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	4/12/4	29(0;-3)	NPD	1,3	79,85	0,12/0,12	54,69	0,26/0,27	0,58	PASS	
SGG CLIMAPLUS ULTRA N	Argon	4/14/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	4/14/4	29(-1;-4)	NPD	1,2	79,85	0,12/0,12	54,69	0,27/0,26	0,63	PASS	
SGG CLIMAPLUS ULTRA N	Krypron	4/14/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	4/14/4	29(-1;-4)	NPD	1,08	79,50	0,12/0,11	53,50	0,24/0,25	0,63	PASS	
SGG CLIMAPLUS ULTRA N	Argon	4/15/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	4/15/4	29(-1;-4)	NPD	1,1	79,85	0,12/0,12	54,69	0,26/0,27	0,58	PASS	
SGG CLIMAPLUS ULTRA N	Argon	4/16/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	4/16/4	30(-1;-3)	NPD	1,1	79,85	0,12/0,12	54,69	0,27/0,26	0,63	PASS	
SGG CLIMAPLUS ULTRA N	Krypron	4/16/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	4/16/4	29(-1;-4)	NPD	1,1	79,85	0,12/0,12	54,69	0,27/0,26	0,63	PASS	
SGG CLIMAPLUS ULTRA N SWWS	Argon	4/16/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	4/16/4	30(-1;-3)	NPD	1,1	79,85	0,12/0,12	54,69	0,27/0,26	0,63	PASS	
SGG CLIMAPLUS ULTRA N SWWS	Argon	4/18/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	4/18/4	NPD	NPD	1,1	79,85	0,12/0,12	54,69	0,27/0,26	0,63	PASS	
SGG CLIMAPLUS ULTRA N	Argon	4/22/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	4/22/4	NPD	NPD	1,16	79,50	0,12/0,11	53,50	0,24/0,25	0,63	PASS	
SGG CLIMAPLUS ULTRA N	Argon	4/24/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	4/24/4	NPD	NPD	1,2	79,85	0,12/0,12	54,69	0,27/0,26	0,63	PASS	
SGG CLIMAPLUS ULTRA N	Argon	4/18/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	4/18/4	NPD	NPD	1,1	79,85	0,12/0,12	54,69	0,27/0,26	0,63	PASS	
SGG CLIMAPLUS ULTRA N	Argon	4/20/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	4/20/4	NPD	NPD	1,1	79,85	0,12/0,12	54,69	0,27/0,26	0,63	PASS	
SGG CLIMAPLUS ULTRA N	Argon	4/15/5	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	4/15/5	NPD	NPD	1,1	79,49	0,12/0,12	53,95	0,26/0,26	0,58	PASS	
SGG CLIMAPLUS ULTRA N	Argon	4/16/5	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	4/16/5	NPD	NPD	1,1	79,49	0,12/0,12	53,95	0,26/0,26	0,58	PASS	
SGG CLIMAPLUS ULTRA N	Argon	5/12/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	5/12/4	33(-1;-4)	NPD	1,3	79,49	0,12/0,12	53,95	0,26/0,26	0,62	PASS	
SGG CLIMAPLUS ULTRA N	Argon	5/14/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	5/14/4	NPD	NPD	1,1	79,49	0,12/0,12	53,95	0,26/0,26	0,62	PASS	
SGG CLIMAPLUS ULTRA N	Argon	5/15/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	5/15/4	33(-1;-4)	NPD	1,1	79,49	0,12/0,12	53,95	0,26/0,26	0,62	PASS	
SGG CLIMAPLUS ULTRA N SWWS	Argon	5/15/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	5/15/4	33(-1;-4)	NPD	1,1	79,49	0,12/0,12	53,95	0,26/0,26	0,62	PASS	
SGG CLIMAPLUS ULTRA N	Argon	5/16/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	5/16/4	NPD	NPD	1,1	79,49	0,12/0,12	53,95	0,26/0,26	0,62	PASS	
SGG CLIMAPLUS ULTRA N	Argon	5/15/5	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	5/15/5	NPD	NPD	1,1	79,13	0,12/0,12	53,22	0,26/0,25	0,62	PASS	
SGG CLIMAPLUS ULTRA N	Argon	5/18/5	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	5/18/5	NPD	NPD	1,1	79,13	0,12/0,12	53,22	0,26/0,25	0,62	PASS	
SGG CLIMAPLUS ULTRA N	Argon	5/12/6	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	5/12/6	NPD	NPD	1,3	78,77	0,12/0,12	52,52	0,26/0,24	0,62	PASS	
SGG CLIMAPLUS ULTRA N	Argon	5/14/6	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	5/14/6	NPD	NPD	1,1	78,77	0,12/0,12	52,52	0,26/0,24	0,62	PASS	
SGG CLIMAPLUS ULTRA N	Argon	5/15/6	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	5/15/6	NPD	NPD	1,1	78,77	0,12/0,12	52,52	0,26/0,24	0,62	PASS	
SGG CLIMAPLUS ULTRA N	Krypton	6/12/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/12/4	34(-2;-5)	NPD	1,1	79,13	0,12/0,12	53,22	0,25/0,26	0,61	PASS	
SGG CLIMAPLUS ULTRA N	Argon	6/12/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/12/4	33(-1;-4)	NPD	1,3	79,13	0,12/0,12	53,22	0,25/0,26	0,61	PASS	
SGG CLIMAPLUS ULTRA N	Argon	6/14/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/14/4	NPD	NPD	1,1	79,13	0,12/0,12	53,22	0,25/0,26	0,61	PASS	
SGG CLIMAPLUS ULTRA N	Argon	6/15/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/15/4	32(-1;-4)	NPD	1,1	79,13	0,12/0,12	53,22	0,25/0,26	0,61	PASS	
SGG CLIMAPLUS ULTRA N	Argon	6/16/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/16/4	35(-2;-5)	NPD	1,1	79,13	0,12/0,12	53,22	0,25/0,26	0,61	PASS	
SGG CLIMAPLUS ULTRA N	Argon	6/18/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/18/4	NPD	NPD	1,1	79,13	0,12/0,12	53,22	0,25/0,26	0,61	PASS	
SGG CLIMAPLUS ULTRA N	Argon	6/20/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/20/4	34(-1;-5)	NPD	1,1	79,13	0,12/0,12	53,22	0,24/0,27	0,57	PASS	
SGG CLIMAPLUS ULTRA N	Argon	6/12/5	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/12/5	NPD	NPD	1,3	78,77	0,12/0,12	52,52	0,25/0,25	0,61	PASS	
SGG CLIMAPLUS ULTRA N	Argon	6/15/5	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/15/5	NPD	NPD	1,1	78,77	0,12/0,12	52,52	0,25/0,25	0,61	PASS	
SGG CLIMAPLUS ULTRA N	Luft	6/12/6	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/12/6	31(-1;-4)	NPD	1,6	78,42	0,12/0,12	51,83	0,25/0,24	0,60	PASS	
SGG CLIMAPLUS ULTRA N	Krypron	6/12/6	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/12/6	31(-1;-4)	NPD	1,1	78,42	0,12/0,12	51,83	0,24/0,25	0,57	PASS	
SGG CLIMAPLUS ULTRA N	Argon	6/14/6	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/14/6	31(-1;-4)	NPD	1,1	78,42	0,12/0,12	51,83	0,25/0,24	0,61	PASS	
SGG CLIMAPLUS ULTRA N	Argon	6/15/6	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/15/6	31(-1;-4)	NPD	1,1	78,42	0,12/0,12	51,83	0,25/0,24	0,61	PASS	
SGG CLIMAPLUS ULTRA N	Argon	6/16/6	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/16/6	31(-1;-4)	NPD	1,1	78,42	0,12/0,12	51,83	0,25/0,24	0,61	PASS	
SGG CLIMAPLUS ULTRA N	Krypron	6/16/6	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/16/6	31(-1;-4)	NPD	1,1	78,42	0,12/0,12	51,83	0,25/0,24	0,61	PASS	
SGG CLIMAPLUS ULTRA N SWWS	Argon	6/16/6	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/16/6	31(-1;-4)	NPD	1,1	78,42	0,12/0,12	51,83	0,25/0,24	0,61	PASS	
SGG CLIMAPLUS ULTRA N	Argon	6/15/8	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/15/8	34(-1;-3)	NPD	1,1	77,71	0,12/0,12	50,50	0,24/0,22	0,61	PASS	
SGG CLIMAPLUS ULTRA N	Argon	8/12/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	8/12/4	36(-2;-5)	NPD	1,3	78,42	0,12/0,12	51,83	0,23/0,26	0,59	PASS	
SGG CLIMAPLUS ULTRA N SWWS	Argon	8/16/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	8/16/4	36(-2;-5)	NPD	1,1	78,42	0,12/0,12	51,83	0,23/0,26	0,59	PASS	
SGG CLIMAPLUS ULTRA N	Argon	8/18/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	8/18/4	NPD	NPD	1,3	78,42	0,12/0,12	51,83	0,22/0,27	0,56	PASS	
SGG CLIMAPLUS ULTRA N	Argon	8/15/5	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	8/15/5	NPD	NPD	1,1	78,06	0,12/0,12	51,16	0,23/0,25	0,59	PASS	
SGG CLIMAPLUS ULTRA N	Argon	8/12/6	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	8/12/6	35(-2;-6)	NPD	1,3	77,71	0,12/0,12	50,50	0,23/0,24	0,59	PASS	
SGG CLIMAPLUS ULTRA N	Argon	8/15/6	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	8/15/6	34(-1;-3)	NPD	1,1	77,71	0,12/0,12	50,50	0,23/0,24	0,59	PASS	
SGG CLIMAPLUS ULTRA N	Argon	8/16/6	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	8/16/6	36(-1;-4)	NPD	1,1	77,71	0,12/0,12	50,50	0,23/0,24	0,59	PASS	
SGG CLIMAPLUS ULTRA N	Argon	8/12/8	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	8/12/8	NPD	NPD	1,3	77,01	0,12/0,12	49,23	0,23/0,22	0,59	PASS	
SGG CLIMAPLUS ULTRA N	Argon	8/15/8	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	8/15/8	NPD	NPD	1,1	77,01	0,12/0,12	49,23	0,23/0,22	0,59	PASS	
SGG CLIMAPLUS ULTRA N	Argon	8/16/8	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	8/16/8	NPD	NPD	1,1	77,01	0,12/0,12	49,23	0,23/0,22	0,59	PASS	
SGG CLIMAPLUS ULTRA N	Argon	10/14/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	10/14/4	35(-2;-5)	NPD	1,1	77,69	0,12/0,12	50,13	0,20/0,26	0,58	PASS	
SGG CLIMAPLUS ULTRA N SWWS	Argon	10/16/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	10/16/4	35(-2;-5)	NPD	1,1	77,69	0,12/0,12	50,13	0,20/0,26	0,58	PASS	
SGG CLIMAPLUS ULTRA N	Argon	10/12/6	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	10/12/6	35(-1;-3)	NPD	1,3	76,99	0,12/0,12	48,88	0,20/0,24	0,57	PASS	
SGG CLIMAPLUS ULTRA N	Argon	10/15/6	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	10/15/6	36(-1;-3)	NPD	1,1	76,99	0,12/0,12	48,88	0,20/0,24	0,57	PASS	
SGG CLIMAPLUS ULTRA N	Argon	10/16/6	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	10/16/6	35(-1;-3)	NPD	1,1	76,99	0,12/0,12	48,88	0,20/0,24	0,57	PASS	
SGG CLIMAPLUS ULTRA N	Argon	10/20/6	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	10/20/6	37(-1;-2)	NPD	1,1	76,99	0,12/0,12	48,88	0,20/0,24	0,57	PASS	
SGG CLIMAPLUS ULTRA N SATINOVO	Argon	4Sat/15/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	4/15/4	29(-1;-4)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	PASS
SGG CLIMAPLUS ULTRA N SATINOVO	Argon	6Sat/15/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/15/4	32(-1;-4)	NPD	1,12	78,60	0,12/0,11	51,60	0,22/0,24	0,60	PASS	
SGG CLIMAPLUS ULTRA N SATINOVO	Argon	4Sat/12/5	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	4/12/5	32(0;-3)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	PASS
SGG CLIMAPLUS ULTRA N SATINOVO	Argon	4Sat/15/5	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	4/15/5	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	PASS



EN 1279-5:2006+A2:2010

## Leistungserklärung

Thermoglas Niederrhein GmbH  
Am Wasserturm 5, D-47906 Kempen

Verwendungszweck: Isolierglas zur Verwendung in Gebäuden und Bauwerken

Wesentliche Merkmale	Aufbau D=Diamond Si=Silence	Außen/Innen	Feuer- widerstand	Brand-verhalten incl. External FP	Beschuss- hemmung	Sprengwirk- ungshemmung	Durchbruch- hemmung	Widerstand gegen Pendelschlag	Widerstand gg. Plötzl. Temperaturwechsel und -gradienten (K)	Widerstand gg. Wind-, Schnee-, Dauerhafte und kurzfristiger Lasten.	Luftschall- dämmung(dB)	Deklarierte Emissivität	Ug-Wert (W/m²K)	Licht- transmission	Licht- reflektion	Energie- transmission	Energie- reflektion	g-Wert	Dauer- haftigkeit
SGG CLIMAPLUS ULTRA N SAFE	Argon	4/12/33.1	NPD	NPD	NPD	NPD	NPD	NPD/2B2	40K/40K	4/12/6	NPD	NPD	1,3	78,89	0,12/0,12	51,01	0,27/0,22	0,62	PASS
SGG CLIMAPLUS ULTRA N SAFE SWS	Argon	4/12/33.1	NPD	NPD	NPD	NPD	NPD	NPD/2B2	40K/40K	4/12/6	NPD	NPD	1,3	78,89	0,12/0,12	51,01	0,27/0,22	0,62	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	4/15/33.1	NPD	NPD	NPD	NPD	NPD	NPD/2B2	40K/40K	4/15/6	NPD	NPD	1,1	78,89	0,12/0,12	51,01	0,26/0,22	0,58	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	4/12/33.2	NPD	NPD	NPD	NPD	NPD/P1A	NPD/1B1	40K/40K	4/12/7	NPD	NPD	1,3	78,66	0,12/0,12	50,23	0,26/0,21	0,58	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	4/15/33.2	NPD	NPD	NPD	NPD	NPD/P1A	NPD/1B1	40K/40K	4/15/7	NPD	NPD	1,1	78,66	0,12/0,12	50,23	0,26/0,21	0,58	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	4/12/44.1	NPD	NPD	NPD	NPD	NPD	NPD/2B2	40K/40K	4/12/8	NPD	NPD	1,3	78,18	0,12/0,12	49,72	0,26/0,20	0,58	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	4/16/44.1	NPD	NPD	NPD	NPD	NPD	NPD/2B2	40K/40K	4/16/8	NPD	NPD	1,1	78,18	0,12/0,12	49,72	0,26/0,20	0,58	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	4/12/44.2	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	4/12/9	NPD	NPD	1,3	77,95	0,12/0,12	48,96	0,26/0,19	0,58	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	4/15/44.2	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	4/15/9	NPD	NPD	1,1	77,95	0,12/0,12	48,96	0,26/0,19	0,58	PASS
SGG CLIMAPLUS ULTRA N SAFE SWS	Argon	4/15/44.2	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	4/15/9	NPD	NPD	1,1	77,95	0,12/0,12	48,96	0,26/0,19	0,58	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	4/16/44.2	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	4/16/9	37(-2;-6)	NPD	1,1	77,95	0,12/0,12	48,96	0,26/0,19	0,62	PASS
SGG CLIMAPLUS ULTRA N SAFE SWS	Argon	4/16/44.2	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	4/16/9	37(-2;-6)	NPD	1,1	77,95	0,12/0,12	48,96	0,26/0,19	0,58	PASS
SGG CLIMAPLUS ULTRA N SAFE DIAMANT	Argon	4D/16/44.1D	NPD	NPD	NPD	NPD	NPD	NPD/2B2	40K/40K	4/16/8	NPD	NPD	1,1	80,14	0,12/0,12	53,69	0,26/0,26	0,58	PASS
SGG CLIMAPLUS ULTRA N SAFE P4A	Argon	4/16/44.4	NPD	NPD	NPD	NPD	NPD/P4A	NPD/1B1	40K/40K	4/16/10	NPD	NPD	1,1	77,49	0,12/0,12	47,88	0,17/0,26	0,55	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	5/12/33.1	NPD	NPD	NPD	NPD	NPD	NPD/2B2	40K/40K	5/12/6	NPD	NPD	1,28	77,90	0,12/0,11	48,70	0,23/0,20	0,61	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	5/15/33.1	NPD	NPD	NPD	NPD	NPD	NPD/2B2	40K/40K	5/15/6	NPD	NPD	1,12	77,90	0,12/0,11	48,70	0,23/0,20	0,61	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	5/12/44.2	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	5/12/9	NPD	NPD	1,27	76,80	0,12/0,11	46,40	0,23/0,17	0,61	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	5/15/44.2	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	5/15/9	NPD	NPD	1,11	76,80	0,12/0,11	46,40	0,23/0,17	0,61	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	6/12/33.1	NPD	NPD	NPD	NPD	NPD	NPD/2B2	40K/40K	6/12/6	NPD	NPD	1,3	78,18	0,12/0,12	49,72	0,24/0,22	0,56	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	6/15/33.1	NPD	NPD	NPD	NPD	NPD	NPD/2B2	40K/40K	6/15/6	NPD	NPD	1,1	78,18	0,12/0,12	49,72	0,24/0,22	0,56	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	6/16/44.1	NPD	NPD	NPD	NPD	NPD	NPD/2B2	40K/40K	6/16/8	NPD	NPD	1,1	77,48	0,12/0,12	48,49	0,24/0,20	0,56	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	6/15/44.2	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	6/15/9	36(-1;-4)	NPD	1,1	75,11	0,15/0,14	46,79	0,25/0,21	0,58	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	6/16/44.2	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	6/16/9	39(-1;-5)	NPD	1,1	74,88	0,15/0,14	46,10	0,25/0,20	0,58	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	6/12/44.2	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	6/12/9	37(-1;-4)	NPD	1,3	77,25	0,12/0,12	47,75	0,24/0,19	0,56	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	6/15/44.2	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	6/15/9	36(-1;-4)	NPD	1,1	77,25	0,12/0,12	47,75	0,24/0,19	0,56	PASS
SGG CLIMAPLUS ULTRA N SAFE SWS	Argon	6/15/44.2	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	6/15/9	36(-1;-4)	NPD	1,1	77,25	0,12/0,12	47,75	0,24/0,19	0,60	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	6/16/44.2	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	6/16/9	39(-1;-5)	NPD	1,1	77,25	0,12/0,12	47,75	0,24/0,19	0,56	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	6/18/44.2	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	6/18/9	NPD	NPD	1,1	77	0,12/0,12	48	0,24/0,19	0,60	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	6/12/55.2	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	6/12/11	NPD	NPD	1,3	76,56	0,12/0,12	46,60	0,24/0,18	0,56	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	6/15/55.2	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	6/15/11	NPD	NPD	1,1	76,56	0,12/0,12	46,60	0,24/0,18	0,56	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	6/12/66.2	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	6/12/13	38(0;-3)	NPD	1,3	75,87	0,12/0,12	45,50	0,24/0,16	0,60	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	6/15/66.2	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	6/15/13	NPD	NPD	1,1	75,87	0,12/0,12	45,50	0,24/0,16	0,60	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	8/15/44.2	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	8/15/9	36(-1;-5)	NPD	1,1	76,56	0,12/0,12	46,60	0,23/0,19	0,59	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	8/16/44.2	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	8/16/9	37(-2;-5)	NPD	1,1	76,56	0,12/0,12	46,60	0,23/0,19	0,59	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	8/15/55.2	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	8/15/11	41(-2;-5)	NPD	1,1	75,87	0,12/0,12	45,50	0,22/0,18	0,55	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	8/16/55.2	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	8/16/11	41(-2;-5)	NPD	1,1	75,87	0,12/0,12	45,50	0,22/0,18	0,55	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	8/18/55.2	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	8/18/11	NPD	NPD	1,1	76	0,12/0,12	45	0,22/0,18	0,55	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	10/15/44.2	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	10/15/9	42(-2;-5)	NPD	1,1	75,85	0,12/0,12	45,16	0,20/0,19	0,57	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	10/16/44.2	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	10/16/9	40(-2;-5)	NPD	1,1	75,85	0,12/0,12	45,16	0,20/0,19	0,57	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	10/16/66.2	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	10/16/13	41(-1;-4)	NPD	1,1	74,50	0,12/0,12	43,13	0,20/0,16	0,57	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	33.1/12/4	NPD	NPD	NPD	NPD	NPD	2B2/NPD	40K/40K	6/12/4	NPD	NPD	1,3	78,89	0,12/0,12	51,01	0,22/0,26	0,58	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	33.1/14/4	NPD	NPD	NPD	NPD	NPD	2B2/NPD	40K/40K	6/14/4	NPD	NPD	1,1	78,89	0,12/0,12	51,01	0,22/0,26	0,58	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	33.1/15/4	NPD	NPD	NPD	NPD	NPD	2B2/NPD	40K/40K	6/15/4	NPD	NPD	1,1	78,89	0,12/0,12	51,01	0,22/0,26	0,58	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	33.1/16/4	NPD	NPD	NPD	NPD	NPD	2B2/NPD	40K/40K	6/16/4	NPD	NPD	1,1	78,89	0,12/0,12	51,01	0,22/0,26	0,58	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	33.1/12/5	NPD	NPD	NPD	NPD	NPD	2B2/NPD	40K/40K	6/12/5	NPD	NPD	1,28	77,90	0,12/0,11	48,70	0,19/0,23	0,58	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	33.1/15/5	NPD	NPD	NPD	NPD	NPD	2B2/NPD	40K/40K	6/15/5	NPD	NPD	1,12	77,90	0,12/0,11	48,70	0,19/0,23	0,58	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	33.1/15/6	NPD	NPD	NPD	NPD	NPD	2B2/NPD	40K/40K	6/15/6	NPD	NPD	1,1	78,18	0,12/0,12	49,72	0,22/0,24	0,58	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	33.1/16/6	NPD	NPD	NPD	NPD	NPD	2B2/NPD	40K/40K	6/16/6	NPD	NPD	1,1	78	0,12/0,12	50	0,22/0,24	0,58	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	33.1/12/33.1	NPD	NPD	NPD	NPD	NPD	2B2/2B2	40K/40K	6/12/6	NPD	NPD	1,3	77,95	0,12/0,12	48,96	0,22/0,22	0,58	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	33.1/15/33.1	NPD	NPD	NPD	NPD	NPD	2B2/2B2	40K/40K	6/15/6	NPD	NPD	1,1	77,95	0,12/0,12	48,96	0,22/0,22	0,58	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	33.1/16/33.1	NPD	NPD	NPD	NPD	NPD	2B2/2B2	40K/40K	6/16/6	NPD	NPD	1,1	77,95	0,12/0,12	48,96	0,22/0,22	0,54	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	33.1/12/44.1	NPD	NPD	NPD	NPD	NPD	2B2/2B2	40K/40K	6/12/8	NPD	NPD	1,3	77,25	0,12/0,12	47,75	0,22/0,20	0,54	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	33.1/16/44.1	NPD	NPD	NPD	NPD	NPD	2B2/2B2	40K/40K	6/16/8	NPD	NPD	1,1	77,25	0,12/0,12	47,75	0,22/0,20	0,58	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	33.2/12/4	NPD	NPD	NPD	NPD	P1A/NPD	1B1/NPD	40K/40K	7/12/4	NPD	NPD	1,3	78,66	0,12/0,12	50,23	0,21/0,26	0,57	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	33.2/14/4	NPD	NPD	NPD	NPD	P1A/NPD	1B1/NPD	40K/40K	7/14/4	NPD	NPD	1,1	78,66	0,12/0,12	50,23	0,21/0,26	0,57	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	33.2/15/4	NPD	NPD	NPD	NPD	P1A/NPD	1B1/NPD	40K/40K	7/15/4	36(-1;-5)	NPD	1,1	78,66	0,12/0,12	50,23	0,21/0,26	0,57	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	33.2/16/4	NPD	NPD	NPD	NPD	P1A/NPD	1B1/NPD	40K/40K	7/16/4	NPD	NPD	1,1	78,66	0,12/0,12	50,23	0,21/0,26	0,57	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	33.2/12/6	NPD	NPD	NPD	NPD	P1A/NPD	1B1/NPD	40K/40K	7/12/6	NPD	NPD	1,3	77,95	0,12/0,12	48,96	0,21/0,24	0,57	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	33.2/12/33.2	NPD	NPD	NPD	NPD	P1A/P1A	1B1/1B1	40K/40K	7/12/7	NPD	NPD	1,3	77,49	0,12/0,12	47,87	0,20/0,20	0,57	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	33.2/15/33.2	NPD	NPD	NPD	NPD	P1A/P1A	1B1/1B1	40K/40K	7/15/7	NPD	NPD	1,1	77,49	0,12/0,12	47,87	0,20/0,20	0,57	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	3																	



EN 1279-5:2006+A2:2010

## Leistungserklärung

Thermoglas Niederrhein GmbH  
Am Wasserturm 5, D-47906 KempenGlastechnik  
Glasgründhandel  
Vollverglasproduktion

Verwendungszweck: Isolierglas zur Verwendung in Gebäuden und Bauwerken

Wesentliche Merkmale	Aufbau	Außen/Innen	Feuer- widerstand	Brand-verhalten incl. External FP	Beschuss- hemmung	Sprengwirk- ungshemmung	Durchbruch- hemmung	Widerstand gegen Pendelschlag	Widerstand gg. Plötzl. Temperaturwechsel und -gradienten (K)	Widerstand gg. Wind-, Schnee-, Dauerhafte und kurzfristiger Lasten.	Luftschall- dämmung(dB)	Deklarierte Emissivität	Ug-Wert (W/m <sup>2</sup> K)	Licht- transmission	Licht- reflektion	Energie- transmission	Energie- reflektion	g-Wert	Dauer- haftigkeit
SGG CLIMAPLUS ULTRA N SAFE	Argon	44.1/16/6	NPD	NPD	NPD	NPD	NPD	2B2/NPD	40K/40K	8/16/6	NPD	NPD	1,1	77,48	0,12/0,12	48,49	0,20/0,24	0,57	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	44.1/16/33.1	NPD	NPD	NPD	NPD	NPD	2B2/2B2	40K/40K	8/16/6	NPD	NPD	1,1	77,25	0,12/0,12	47,75	0,20/0,22	0,53	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	44.1/12/33.1	NPD	NPD	NPD	NPD	NPD	2B2/2B2	40K/40K	8/12/6	NPD	NPD	1,3	77,25	0,12/0,12	47,75	0,20/0,22	0,53	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	44.2/12/4	NPD	NPD	NPD	NPD	P1A/NPD	1B1/NPD	40K/40K	9/12/4	NPD	NPD	1,3	77,95	0,12/0,12	48,96	0,19/0,26	0,56	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	44.2/14/4	NPD	NPD	NPD	NPD	P1A/NPD	1B1/NPD	40K/40K	9/14/4	NPD	NPD	1,1	77,95	0,12/0,12	48,96	0,19/0,26	0,56	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	44.2/16/4	NPD	NPD	NPD	NPD	P1A/NPD	1B1/NPD	40K/40K	9/16/4	37(-2;-6)	NPD	1,1	77,95	0,12/0,12	48,96	0,19/0,26	0,56	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	44.2/12/6	NPD	NPD	NPD	NPD	P1A/NPD	1B1/NPD	40K/40K	9/12/6	NPD	NPD	1,3	77,25	0,12/0,12	47,75	0,19/0,24	0,56	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	44.2/15/6	NPD	NPD	NPD	NPD	P1A/NPD	1B1/NPD	40K/40K	9/15/6	NPD	NPD	1,1	77,25	0,12/0,12	47,75	0,19/0,24	0,56	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	44.2/16/6	NPD	NPD	NPD	NPD	P2A/NPD	1B1/NPD	40K/40K	9/16/6	39(-1;-5)	NPD	1,1	77,25	0,12/0,12	47,75	0,24/0,19	0,56	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	44.2/20/6	NPD	NPD	NPD	NPD	P2A/NPD	1B1/NPD	40K/40K	9/20/6	NPD	NPD	1,1	77,25	0,12/0,12	47,75	0,19/0,24	0,56	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	44.2/12/44.2	NPD	NPD	NPD	NPD	P2A/P2A	1B1/1B1	40K/40K	9/12/9	NPD	NPD	1,3	76,10	0,12/0,12	45,59	0,19/0,19	0,56	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	44.2/15/44.2	NPD	NPD	NPD	NPD	P2A/P2A	1B1/1B1	40K/40K	9/15/9	36(-2;-5)	NPD	1,1	76,10	0,12/0,12	45,59	0,19/0,19	0,56	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	44.2/12/33.1	NPD	NPD	NPD	NPD	P2A/NPD	1B1/2B2	40K/40K	9/12/6	NPD	NPD	1,3	77,02	0,12/0,12	47,19	0,19/0,22	0,56	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	44.2/15/33.1	NPD	NPD	NPD	NPD	P2A/NPD	1B1/2B2	40K/40K	9/15/6	NPD	NPD	1,1	77,02	0,12/0,12	47,19	0,19/0,22	0,56	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	44.2/16/44.2	NPD	NPD	NPD	NPD	P2A/P2A	1B1/1B1	40K/40K	9/16/9	36(-2;-5)	NPD	1,1	76,10	0,12/0,12	45,59	0,19/0,19	0,52	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	44.2/16/8	NPD	NPD	NPD	NPD	NPD	1B1/NPD	40K/40K	9/16/8	NPD	NPD	1,3	76,56	0,12/0,12	46,60	0,19/0,23	0,53	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	44.2/16/4	NPD	NPD	NPD	NPD	P2A/NPD	1B1/NPD	40K/40K	9/16/4	37(-2;-6)	NPD	1,1	77,95	0,12/0,12	48,96	0,19/0,26	0,56	PASS
SGG CLIMAPLUS ULTRA N SAFE P4A	Argon	44.2/15/44.4	NPD	NPD	NPD	NPD	P2A/P4A	1B1/1B1	40K/40K	9/15/10	NPD	NPD	1,1	75,65	0,12/0,12	44,73	0,19/0,17	0,52	PASS
SGG CLIMAPLUS ULTRA N SAFE P4A	Argon	44.2/16/44.4	NPD	NPD	NPD	NPD	P2A/P4A	1B1/1B1	40K/40K	9/16/10	NPD	NPD	1,1	75,20	0,12/0,12	43,94	0,17/0,17	0,54	PASS
SGG CLIMAPLUS ULTRA N SAFE P4A	Argon	44.4/15/44.2	NPD	NPD	NPD	NPD	P4A/P2A	1B1/1B1	40K/40K	10/15/9	NPD	NPD	1,1	75,65	0,12/0,12	44,73	0,17/0,19	0,51	PASS
SGG CLIMAPLUS ULTRA N SAFE P4A	Argon	44.4/14/4	NPD	NPD	NPD	NPD	P4A/NPD	1B1/NPD	40K/40K	10/14/4	NPD	NPD	1,1	77,49	0,12/0,12	47,88	0,17/0,26	0,55	PASS
SGG CLIMAPLUS ULTRA N SAFE P4A	Argon	44.4/15/44.2	NPD	NPD	NPD	NPD	P4A/P2A	1B1/1B1	40K/40K	10/15/9	NPD	NPD	1,1	75,65	0,12/0,12	44,73	0,17/0,19	0,55	PASS
SGG CLIMAPLUS ULTRA N SAFE P4A	Argon	44.4/16/44.2	NPD	NPD	NPD	NPD	P4A/P2A	1B1/1B1	40K/40K	10/16/9	NPD	NPD	1,1	75,20	0,12/0,12	43,94	0,17/0,17	0,54	PASS
SGG CLIMAPLUS ULTRA N SAFE P4A	Argon	44.4/16/44.4	NPD	NPD	NPD	NPD	P4A/P4A	1B1/1B1	40K/40K	10/16/10	NPD	NPD	1,1	75,20	0,12/0,12	43,94	0,17/0,17	0,54	PASS
SGG CLIMAPLUS ULTRA N SAFE P4A	Argon	44.4/15/33.1	NPD	NPD	NPD	NPD	P4A/NPD	1B1/NPD	40K/40K	10/15/6	NPD	NPD	1,1	76,56	0,12/0,12	46,26	0,17/0,22	0,55	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	44.4/12/4	NPD	NPD	NPD	NPD	P4A/NPD	1B1/NPD	40K/40K	10/12/4	NPD	NPD	1,3	77,49	0,12/0,12	47,88	0,17/0,26	0,55	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	44.4/15/4	NPD	NPD	NPD	NPD	P4A/NPD	1B1/NPD	40K/40K	10/15/4	NPD	NPD	1,1	77,49	0,12/0,12	47,88	0,17/0,26	0,55	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	55.2/12/6	NPD	NPD	NPD	NPD	P2A/NPD	1B1/NPD	40K/40K	11/12/6	NPD	NPD	1,3	76,56	0,12/0,12	46,60	0,18/0,24	0,55	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	55.2/15/44.2	NPD	NPD	NPD	NPD	P2A/P2A	1B1/1B1	40K/40K	11/15/9	NPD	NPD	1,1	75,42	0,12/0,12	44,52	0,18/0,19	0,54	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	55.2/16/44.2	NPD	NPD	NPD	NPD	P2A/P2A	1B1/1B1	40K/40K	11/16/9	NPD	NPD	1,1	75,42	0,12/0,12	44,52	0,18/0,19	0,54	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	55.2/15/66.2	NPD	NPD	NPD	NPD	P2A/P2A	1B1/1B1	40K/40K	11/15/13	NPD	NPD	1,1	74,07	0,11/0,11	42,52	0,18/0,16	0,54	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	66.2/16/66.2	NPD	NPD	NPD	NPD	P2A/P2A	1B1/1B1	40K/40K	13/16/13	NPD	NPD	1,1	73,41	0,11/0,11	41,57	0,16/0,16	0,53	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	66.2/15/8	NPD	NPD	NPD	NPD	P2A/NPD	1B1/NPD	40K/40K	13/15/8	NPD	NPD	1,1	75,19	0,11/0,12	44,44	0,16/0,22	0,53	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	66.2/15/44.2	NPD	NPD	NPD	NPD	P2A/P2A	1B1/1B1	40K/40K	13/15/9	40(-1;-4)	NPD	1,1	74,74	0,11/0,12	43,50	0,16/0,19	0,53	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	66.2/12/44.2	NPD	NPD	NPD	NPD	P2A/P2A	1B1/1B1	40K/40K	13/12/9	NPD	NPD	1,3	74,74	0,11/0,12	43,50	0,16/0,19	0,53	PASS
SGG CLIMAPLUS ULTRA N SAFE	Argon	66.2/15/44.2	NPD	NPD	NPD	NPD	P2A/P2A	1B1/1B1	40K/40K	13/15/9	40(-1;-4)	NPD	1,1	74,74	0,11/0,12	43,50	0,16/0,19	0,53	PASS
SGG CLIMAPLUS ULTRA N BIOCLEAR	Argon	10/20/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	10/20/4	NPD	NPD	1,1	75,31	0,14/0,14	48,18	0,22/0,27	0,55	PASS
SGG CLIMAPLUS ULTRA N BIOCLEAR	Argon	10/15/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	10/15/4	35(-2;-5)	NPD	1,1	75,31	0,14/0,14	48,18	0,22/0,27	0,55	PASS
SGG CLIMAPLUS ULTRA N BIOCLEAR	Argon	10/16/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	10/16/4	35(-2;-5)	NPD	1,1	75,31	0,14/0,14	48,18	0,22/0,27	0,55	PASS
SGG CLIMAPLUS ULTRA N BIOCLEAR	Argon	6/15/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/15/4	32(-1;-4)	NPD	1,1	76,71	0,15/0,14	51,16	0,26/0,28	0,59	PASS
SGG CLIMAPLUS ULTRA N BIOCLEAR	Argon	6/16/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/16/4	35(-2;-5)	NPD	1,1	76,71	0,15/0,14	51,16	0,26/0,28	0,59	PASS
SGG CLIMAPLUS ULTRA N BIOCLEAR	Krypton	6/12/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/12/4	34(-2;-5)	NPD	1,1	76,71	0,15/0,14	51,16	0,26/0,28	0,59	PASS
SGG CLIMAPLUS ULTRA N BIOCLEAR	Krypton	8/12/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	8/12/4	36(-2;-5)	NPD	1,1	76,02	0,15/0,14	49,82	0,24/0,28	0,57	PASS
SGG CLIMAPLUS ULTRA N BIOCLEAR	Argon	8/15/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	8/15/4	33(-1;-4)	NPD	1,1	76,02	0,15/0,14	49,82	0,24/0,28	0,57	PASS
SGG CLIMAPLUS ULTRA N BIOCLEAR	Argon	8/16/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	8/16/4	36(-2;-5)	NPD	1,1	76,02	0,15/0,14	49,82	0,24/0,28	0,57	PASS
SGG CLIMAPLUS ULTRA N BIOCLEAR	Argon	10/20/6	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	10/20/6	37(-1;-2)	NPD	1,1	74,63	0,14/0,14	46,98	0,22/0,25	0,55	PASS
SGG CLIMAPLUS ULTRA N BIOCLEAR	Argon	6/15/6	NPD	NPD	NPD	NPD	NPD	1C2/NPD	200K/40K	6/15/6	31(-1;-4)	NPD	1,1	76,02	0,15/0,14	49,82	0,26/0,26	0,58	PASS
SGG CLIMAPLUS ULTRA N BIOCLEAR	Argon	6/15/6	NPD	NPD	NPD	NPD	NPD	1C2/NPD	200K/40K	6/15/6	31(-1;-4)	NPD	1,1	76,02	0,15/0,14	49,82	0,26/0,26	0,58	PASS
SGG CLIMAPLUS ULTRA N BIOCLEAR	Argon	8/15/8	NPD	NPD	NPD	NPD	NPD	1C2/NPD	200K/40K	8/15/8	NPD	NPD	1,1	74,65	0,14/0,14	47,33	0,24/0,24	0,57	PASS
SGG CLIMAPLUS ULTRA N BIOCLEAR	Argon	8/16/8	NPD	NPD	NPD	NPD	NPD	1C2/NPD	200K/40K	8/16/8	NPD	NPD	1,1	74,65	0,14/0,14	47,33	0,24/0,24	0,57	PASS
SGG CLIMAPLUS ULTRA N BIOCLEAR	Argon	4/15/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	4/15/4	29(-1;-4)	NPD	1,1	77,41	0,15/0,15	52,57	0,28/0,28	0,60	PASS
SGG CLIMAPLUS ULTRA N BIOCLEAR	Argon	6/12/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/12/4	33(-1;-4)	NPD	1,3	76,71	0,15/0,14	51,16	0,26/0,28	0,59	PASS
SGG CLIMAPLUS ULTRA N BIOCLEAR	Argon	6/14/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/14/4	NPD	NPD	1,1	76,71	0,15/0,14	51,16	0,26/0,28	0,59	PASS
SGG CLIMAPLUS ULTRA N BIOCLEAR	Argon	6/12/6	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/12/6	31(-1;-4)	NPD	1,3	76,02	0,15/0,14	49,82	0,26/0,26	0,58	PASS
SGG CLIMAPLUS ULTRA N BIOCLEAR	Argon	6/15/6	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/15/6	31(-1;-4)	NPD	1,1	76,02	0,15/0,14	49,82	0,26/0,26	0,58	PASS
SGG CLIMAPLUS ULTRA N BIOCLEAR	Argon	6/16/6	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/16/6	31(-1;-4)	NPD	1,1	76,02	0,15/0,14	49,82	0,26/0,26	0,58	PASS
SGG CLIMAPLUS ULTRA N BIOCLEAR SAFE	Argon	4/15/44.2	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	4/15/9	NPD	NPD	1,1	75,57	0,15/0,14	47,28	0,27/0,20	0,60	PASS
SGG CLIMAPLUS ULTRA N BIOCLEAR SAFE	Argon	6/15/44.2	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	6/15/9	36(-1;-4)	NPD	1,1	74,88	0,15/0,14	46,10	0,25/0,20	0,58	PASS
SGG CLIMAPLUS ULTRA N BIOCLEAR SAFE	Argon	44.2/15/4	NPD	NPD	NPD	NPD	P2A/NPD	1B1/NPD	40K/40K	9/15/4	NPD	NPD	1,1	75,56	0,14/0,14	47,27	0,21/0,27	0,54	PASS
SGG CLIMAPLUS ULTRA N BIOCLEAR SAFE	Argon	44.2/16/4	NPD	NPD	NPD	NPD	P2A/NPD	1B1/NPD											



EN 1279-5:2006+A2:2010

## Leistungserklärung

Thermoglas Niederrhein GmbH  
Am Wasserturm 5, D-47906 KempenGlastechnik  
Glasprodukte  
Vollglasproduktion

Verwendungszweck: Isolierglas zur Verwendung in Gebäuden und Bauwerken

Wesentliche Merkmale	Aufbau D=Diamant Si=Silence	Außen/Innen	Feuer- widerstand	Brand-verhalten incl. External FP	Beschuss- hemmung	Sprengwirk- ungshemmung	Durchbruch- hemmung	Widerstand gegen Pendelschlag	Widerstand gg. Pfeilz. Temperaturwechsel und -gradienten (K)	Widerstand gg. Wind-, Schnee-, Dauerhafte und kurzfristiger Lasten.	Luftschall- dämmung(dB)	Deklarierte Emissivität	Ug-Wert (W/m²K)	Licht- transmission	Licht- reflektion	Energie- transmission	Energie- reflektion	g-Wert	Dauer- haftigkeit	
																				1
SGG CLIMAPLUS ULTRA N ACOUSTIC 30/38	Argon	10/15/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	10/15/4	38(-1;-4)	NPD	1,1	77,69	0,12/0,12	50,13	0,20/0,26	0,59	PASS	
SGG CLIMAPLUS ULTRA N ACOUSTIC 30/38	Argon	10/16/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	10/16/4	38(-1;-4)	NPD	1,1	77,69	0,12/0,12	50,13	0,20/0,26	0,59	PASS	
SGG CLIMAPLUS ULTRA N ACOUSTIC 34/39	Argon	10/20/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	10/20/4	39(-1;-5)	NPD	1,1	77,69	0,12/0,12	50,13	0,20/0,26	0,58	PASS	
SGG CLIMAPLUS ULTRA N ACOUSTIC 24/37 KR	Krypton	8/12/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	8/12/4	37(-2;-6)	NPD	1,1	78,42	0,12/0,12	51,83	0,23/0,26	0,59	PASS	
SGG CLIMAPLUS ULTRA N ACOUSTIC 28/37	Argon	8/15/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	8/15/4	37(-2;-6)	NPD	1,1	78,42	0,12/0,12	51,83	0,23/0,26	0,59	PASS	
SGG CLIMAPLUS ULTRA N ACOUSTIC 28/37	Argon	8/16/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	8/16/4	37(-2;-6)	NPD	1,1	78,42	0,12/0,12	51,83	0,23/0,26	0,59	PASS	
SGG CLIMAPLUS ULTRA N SILENCE	Argon	33.1 Si/15/4	NPD	NPD	NPD	NPD	NPD	NPD	2B2/NPD	6/15/4	NPD	NPD	1,1	78,89	0,12/0,12	51,01	0,22/0,26	0,58	PASS	
SGG CLIMAPLUS ULTRA N SILENCE	Argon	33.1 Si/16/4	NPD	NPD	NPD	NPD	NPD	NPD	2B2/NPD	40K/40K	6/16/4	NPD	NPD	1,1	78,89	0,12/0,12	51,01	0,22/0,26	0,58	PASS
SGG CLIMAPLUS ULTRA N SILENCE	Argon	44.1 Si/15/4	NPD	NPD	NPD	NPD	NPD	NPD	2B2/NPD	40K/40K	8/15/4	NPD	NPD	1,1	78,18	0,12/0,12	49,72	0,20/0,26	0,57	PASS
SGG CLIMAPLUS ULTRA N SILENCE	Argon	44.1 Si/16/4	NPD	NPD	NPD	NPD	NPD	NPD	2B2/NPD	40K/40K	8/16/4	NPD	NPD	1,1	78,18	0,12/0,12	49,72	0,20/0,26	0,57	PASS
SGG CLIMAPLUS ULTRA N SILENCE	Argon	33.1 Si/15/6	NPD	NPD	NPD	NPD	NPD	NPD	2B2/NPD	40K/40K	6/15/6	NPD	NPD	1,1	78,18	0,12/0,12	49,72	0,22/0,24	0,58	PASS
SGG CLIMAPLUS ULTRA N SILENCE	Argon	33.1 Si/16/6	NPD	NPD	NPD	NPD	NPD	NPD	2B2/NPD	40K/40K	6/16/6	NPD	NPD	1,1	78,18	0,12/0,12	49,72	0,22/0,24	0,58	PASS
SGG CLIMAPLUS ULTRA N SILENCE	Krypton	33.1 Si/12/6	NPD	NPD	NPD	NPD	NPD	NPD	2B2/NPD	40K/40K	6/12/6	NPD	NPD	1,1	78,18	0,12/0,12	49,72	0,22/0,24	0,58	PASS
SGG CLIMAPLUS ULTRA N SILENCE	Argon	44.1 Si/15/6	NPD	NPD	NPD	NPD	NPD	NPD	2B2/NPD	40K/40K	8/15/6	40(-2;-6)	NPD	1,1	77,48	0,12/0,12	48,49	0,20/0,24	0,57	PASS
SGG CLIMAPLUS ULTRA N SILENCE	Argon	44.1 Si/16/6	NPD	NPD	NPD	NPD	NPD	NPD	2B2/NPD	40K/40K	8/16/6	40(-2;-6)	NPD	1,1	77,48	0,12/0,12	48,49	0,20/0,24	0,57	PASS
SGG CLIMAPLUS ULTRA N SILENCE	Argon	33.1 Si/20/8	NPD	NPD	NPD	NPD	NPD	NPD	2B2/NPD	40K/40K	6/20/8	NPD	NPD	1,1	77,48	0,12/0,12	48,48	0,22/0,22	0,58	PASS
SGG CLIMAPLUS ULTRA N SILENCE	Krypton	44.1 Si/12/6	NPD	NPD	NPD	NPD	NPD	NPD	2B2/NPD	40K/40K	8/12/6	38(-1;-4)	NPD	1,1	77,48	0,12/0,12	48,49	0,20/0,24	0,57	PASS
SGG CLIMAPLUS ULTRA N SILENCE	Argon	44.1 Si/20/6	NPD	NPD	NPD	NPD	NPD	NPD	2B2/NPD	40K/40K	8/20/6	NPD	NPD	1,1	77,48	0,12/0,12	48,49	0,20/0,24	0,57	PASS
SGG CLIMAPLUS ULTRA N SILENCE	Argon	33.1 Si/15/10	NPD	NPD	NPD	NPD	NPD	NPD	2B2/NPD	40K/40K	6/15/10	NPD	NPD	1,1	76,76	0,12/0,12	46,95	0,22/0,20	0,58	PASS
SGG CLIMAPLUS ULTRA N SILENCE	Argon	33.1 Si/16/10	NPD	NPD	NPD	NPD	NPD	NPD	2B2/NPD	40K/40K	6/16/10	NPD	NPD	1,1	76,76	0,12/0,12	46,95	0,22/0,20	0,58	PASS
SGG CLIMAPLUS ULTRA N SILENCE	Argon	44.1 Si/20/8	NPD	NPD	NPD	NPD	NPD	NPD	2B2/NPD	40K/40K	8/20/8	NPD	NPD	1,1	76,78	0,12/0,12	47,31	0,20/0,22	0,57	PASS
SGG CLIMAPLUS ULTRA N SILENCE	Argon	44.1 Si/15/10	NPD	NPD	NPD	NPD	NPD	NPD	2B2/NPD	40K/40K	8/15/10	NPD	NPD	1,1	76,08	0,12/0,12	45,84	0,20/0,20	0,56	PASS
SGG CLIMAPLUS ULTRA N SILENCE	Argon	44.1 Si/16/10	NPD	NPD	NPD	NPD	NPD	NPD	2B2/NPD	40K/40K	8/16/10	43(-1;-5)	NPD	1,1	76,08	0,12/0,12	45,84	0,20/0,20	0,56	PASS
SGG CLIMAPLUS ULTRA N SILENCE	Argon	44.1 Si/24/8	NPD	NPD	NPD	NPD	NPD	NPD	2B2/NPD	40K/40K	8/24/8	NPD	NPD	1,2	76,78	0,12/0,12	47,31	0,20/0,22	0,57	PASS
SGG CLIMAPLUS ULTRA N SILENCE	Argon	55.1 Si/15/44.1 Si	NPD	NPD	NPD	NPD	NPD	NPD	2B2/2B2	40K/40K	10/15/8	NPD	NPD	1,1	75,87	0,12/0,12	45,49	0,19/0,20	0,55	PASS
SGG CLIMAPLUS ULTRA N SILENCE	Argon	55.1 Si/16/44.1 Si	NPD	NPD	NPD	NPD	NPD	NPD	2B2/2B2	40K/40K	10/16/8	45(-2;-7)	NPD	1,1	75,87	0,12/0,12	45,49	0,19/0,20	0,55	PASS
SGG CLIMAPLUS ULTRA N SILENCE	Argon	10/20/44.1 Si	NPD	NPD	NPD	NPD	NPD	NPD	NPD/2B2	40K/40K	10/20/8	45(-1;-5)	NPD	1,1	76,08	0,12/0,12	45,84	0,20/0,20	0,53	PASS
SGG CLIMAPLUS ULTRA N SILENCE	Argon	44.1 Si/24/10	NPD	NPD	NPD	NPD	NPD	NPD	2B2/NPD	40K/40K	8/24/10	NPD	NPD	1,2	76,08	0,12/0,12	45,84	0,20/0,20	0,56	PASS
SGG CLIMAPLUS ULTRA N SILENCE	Argon	44.2 Si/12/6	NPD	NPD	NPD	NPD	P2A/NPD	1B1/NPD	40K/40K	9/12/6	NPD	NPD	1,3	77,25	0,12/0,12	47,75	0,19/0,24	0,56	PASS	
SGG CLIMAPLUS ULTRA N SILENCE	Argon	44.2 Si/15/6	NPD	NPD	NPD	NPD	P2A/NPD	1B1/NPD	40K/40K	9/15/6	NPD	NPD	1,1	77,25	0,12/0,12	47,75	0,19/0,24	0,56	PASS	
SGG CLIMAPLUS ULTRA N SILENCE	Argon	66.2 Si/15/44.2 Si	NPD	NPD	NPD	NPD	P2A/P2A	1B1/1B1	40K/40K	13/15/9	NPD	NPD	1,1	74,74	0,11/0,12	43,50	0,16/0,19	0,53	PASS	
SGG CLIMAPLUS ULTRA N SILENCE	Argon	66.2 Si/16/44.2 Si	NPD	NPD	NPD	NPD	P2A/P2A	1B1/1B1	40K/40K	13/16/9	NPD	NPD	1,1	74,74	0,11/0,12	43,50	0,16/0,19	0,53	PASS	
SGG CLIMAPLUS ULTRA N SILENCE	Argon	66.2 Si/20/44.2 Si	NPD	NPD	NPD	NPD	P2A/P2A	1B1/1B1	40K/40K	13/20/9	49(-2;-6)	NPD	1,1	74,74	0,11/0,12	43,50	0,16/0,19	0,53	PASS	
SGG CLIMAPLUS ULTRA N SILENCE	Argon	66.2 Si/24/44.2 Si	NPD	NPD	NPD	NPD	P2A/P2A	1B1/1B1	40K/40K	13/24/9	50(-2;-7)	NPD	1,2	74,74	0,11/0,12	43,50	0,16/0,19	0,53	PASS	
SGG CLIMAPLUS ULTRA N SILENCE	Argon	6/15/44.2 Si	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	6/15/9	39(-2;-6)	NPD	1,1	77,25	0,12/0,12	47,75	0,24/0,19	0,56	PASS	
SGG CLIMAPLUS ULTRA N SILENCE	Argon	6/16/44.1 Si	NPD	NPD	NPD	NPD	NPD/NPD	40K/2B2	40K/40K	6/16/8	40(-2;-6)	NPD	1,1	77,48	0,12/0,12	48,49	0,24/0,20	0,56	PASS	
SGG CLIMAPLUS ULTRA N SILENCE	Argon	6/15/55.2 Si	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	6/15/11	41(-2;-6)	NPD	1,1	76,56	0,12/0,12	46,60	0,24/0,18	0,60	PASS	
SGG CLIMAPLUS ULTRA N SILENCE	Argon	6/16/44.2 Si	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/16/9	39(-1;-5)	NPD	1,1	77,25	0,12/0,12	47,75	0,24/0,19	0,56	PASS	
SGG CLIMAPLUS ULTRA N SILENCE	Argon	8/15/44.2 Si	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	8/15/9	41(-2;-6)	NPD	1,1	76,56	0,12/0,12	46,60	0,23/0,19	0,59	PASS	
SGG CLIMAPLUS ULTRA N SILENCE	Argon	4/15/33.2 Si	NPD	NPD	NPD	NPD	NPD/P1A	NPD/1B1	40K/40K	4/15/7	36(-1;-5)	NPD	1,1	78,66	0,12/0,12	50,23	0,26/0,21	0,58	PASS	
SGG CLIMAPLUS ULTRA N SILENCE	Argon	44.2 Si/15/55.2 Si	NPD	NPD	NPD	NPD	P2A/P2A	1B1/1B1	40K/40K	9/15/11	44(-1;-6)	NPD	1,1	75,42	0,12/0,12	44,52	0,19/0,18	0,52	PASS	
SGG CLIMAPLUS ULTRA N SILENCE	Argon	44.2 Si/20/55.2 Si	NPD	NPD	NPD	NPD	P2A/P2A	1B1/1B1	40K/40K	9/20/11	46(-2;-7)	NPD	1,1	75,42	0,12/0,12	44,52	0,19/0,18	0,52	PASS	
SGG CLIMAPLUS ULTRA N SILENCE	Argon	44.2 Si/20/66.2 Si	NPD	NPD	NPD	NPD	P2A/P2A	1B1/1B1	40K/40K	9/20/13	49(-2;-6)	NPD	1,1	74,74	0,12/0,11	43,50	0,19/0,16	0,52	PASS	
SGG CLIMAPLUS ULTRA N SILENCE	Argon	55.1/16/44.1 Si	NPD	NPD	NPD	NPD	NPD/P2A	2B2/2B2	40K/40K	10/16/8	44(-1;-6)	NPD	1,1	75,87	0,12/0,12	45,49	0,19/0,20	0,52	PASS	
SGG CLIMAPLUS ULTRA N SILENCE	Argon	44.1/16/44.1 Si	NPD	NPD	NPD	NPD	NPD	2B2/2B2	40K/40K	8/16/8	NPD	NPD	1,1	76,56	0,12/0,12	46,60	0,20/0,20	0,53	PASS	
SGG CLIMAPLUS ULTRA N SILENCE	Argon	66.2/15/44.2 Si	NPD	NPD	NPD	NPD	P2A/P2A	1B1/1B1	40K/40K	13/15/9	46(-2;-6)	NPD	1,1	74,74	0,11/0,12	43,50	0,16/0,19	0,53	PASS	
SGG CLIMAPLUS ULTRA N SILENCE	Argon	66.2/20/44.2 Si	NPD	NPD	NPD	NPD	P2A/P2A	1B1/1B1	40K/40K	13/20/9	49(-2;-7)	NPD	1,1	74,74	0,12/0,12	43,50	0,16/0,19	0,53	PASS	
SGG CLIMAPLUS ULTRA N SILENCE	Argon	4/15/44.2 Si	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	4/15/9	NPD	NPD	1,1	77,95	0,12/0,12	48,96	0,26/0,19	0,58	PASS	
SGG CLIMAPLUS ULTRA N SILENCE P4A	Argon	6/16/44.4 Si	NPD	NPD	NPD	NPD	NPD/P4A	NPD/1B1	40K/40K	6/16/10	NPD	NPD	1,1	76,79	0,12/0,12	46,71	0,24/0,17	0,60	PASS	
SGG CLIMAPLUS ULTRA N BIOCLEAR SILENCE	Argon	44.1 Si/15/4	NPD	NPD	NPD	NPD	NPD	2B2/NPD	40K/40K	8/15/4	NPD	NPD	1,1	75,79	0,15/0,14	47,97	0,22/0,27	0,55	PASS	
SGG CLIMAPLUS ULTRA N BIOCLEAR SILENCE	Argon	44.1 Si/16/4	NPD	NPD	NPD	NPD	NPD	2B2/NPD	40K/40K	8/16/4	NPD	NPD	1,1	75,79	0,15/0,14	47,97	0,22/0,27	0,55	PASS	
SGG CLIMAPLUS ULTRA N BIOCLEAR SILENCE	Argon	44.1 Si/15/6	NPD	NPD	NPD	NPD	NPD	2B2/NPD	40K/40K	8/15/6	40(-2;-6)	NPD	1,1	75,11	0,14/0,14	46,78	0,22/0,25	0,55	PASS	
SGG CLIMAPLUS ULTRA N BIOCLEAR SILENCE	Argon	44.1 Si/16/6	NPD	NPD	NPD	NPD	NPD	2B2/NPD	40K/40K	8/16/6	40(-2;-6)	NPD	1,1	75,11	0,14/0,14	46,78	0,22/0,25	0,55	PASS	
SGG CLIMAPLUS ULTRA N BIOCLEAR SILENCE	Argon	44.1 Si/20/6	NPD	NPD	NPD	NPD	NPD	2B2/NPD	40K/40K	8/20/6	NPD	NPD	1,1	75,11	0,14/0,14	46,78	0,22/0,25	0,55	PASS	
SGG CLIMAPLUS ULTRA N BIOCLEAR SILENCE	Argon	44.1 Si/20/8	NPD	NPD	NPD	NPD	NPD	2B2/NPD	40K/40K	8/20/8	NPD	NPD	1,1	74,43	0,14/0,14	45,64	0,22/0,23	0,55	PASS	
SGG CLIMAPLUS ULTRA N BIOCLEAR SILENCE	Argon	44.1 Si/15/10	NPD	NPD	NPD	NPD	NPD	2B2/NPD	40K/40K	8/15/10	NPD	NPD	1,1	73,74	0,14/0,14	44,22	0,22/0,21	0,54	PASS	
SGG CLIMAPLUS ULTRA N BIOCLEAR SILENCE	Argon	44.1 Si/16/10	NPD	NPD	NPD	NPD	NPD	2B2/NPD	40K/40K	8/16/10	NPD	NPD	1,1	73,74	0,14/0,14	44,22	0,22/0,21	0,54	PASS	
SGG CLIMAPLUS ULTRA N BIOCLEAR SILENCE	Argon	44.1 Si/24/8	NPD	NPD	NPD	NPD	NPD	2B2/NPD	40K/40K	8/24/8</										



EN 1279-5:2006+A2:2010

## Leistungserklärung

Thermoglas Niederrhein GmbH  
Am Wasserturm 5, D-47906 Kempen

Verwendungszweck: Isolierglas zur Verwendung in Gebäuden und Bauwerken

Wesentliche Merkmale	Aufbau Außen/Innen D=Diamant Si=Silence	Feuer- widerstand	Brand-verhalten incl. External FP	Beschuss- hemmung	Sprengwirk- ungshemmung	Durchbruch- hemmung	Widerstand gegen Pendelschlag	Widerstand gg. Plötzl. Temperaturwechsel und -gradienten (K)	Widerstand gg. Wind-, Schnee-, Dauerhafte und kurzfristiger Lasten.	Luftschall- dämmung(dB)	Deklarierte Emissivität	Ug-Wert (W/m <sup>2</sup> K)	Licht- transmission	Licht- reflektion	Energie- transmission	Energie- reflektion	g-Wert	Dauer- haftigkeit
AVCP systems (Wärmeschutz Planistar)																		
SGG CLIMAPLUS PLANISTAR	Argon 4/12/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	4/12/4	29(0;-3)	NPD	1,3	71,10	0,12/0,13	39,14	0,33/0,34	0,42	PASS
SGG CLIMAPLUS PLANISTAR	Argon 4/14/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	4/14/4	29(-1;-4)	NPD	1,2	71,10	0,12/0,13	39,14	0,33/0,34	0,42	PASS
SGG CLIMAPLUS PLANISTAR	Argon 4/15/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	4/15/4	29(-1;-4)	NPD	1,1	71,10	0,12/0,13	39,14	0,33/0,34	0,42	PASS
SGG CLIMAPLUS PLANISTAR	Argon 4/16/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	4/16/4	29(-1;-4)	NPD	1,1	71,10	0,12/0,13	39,14	0,33/0,34	0,42	PASS
SGG CLIMAPLUS PLANISTAR	Argon 4/15/5	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	4/15/5	NPD	NPD	1,1	70,78	0,12/0,13	38,76	0,33/0,33	0,42	PASS
SGG CLIMAPLUS PLANISTAR	Argon 4/15/6	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	4/15/6	32(-1;-4)	NPD	1,1	70,46	0,12/0,13	38,39	0,33/0,31	0,42	PASS
SGG CLIMAPLUS PLANISTAR	Argon 6/12/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/12/4	33(-1;-4)	NPD	1,3	70,46	0,12/0,13	38,39	0,30/0,34	0,41	PASS
SGG CLIMAPLUS PLANISTAR	Argon 6/14/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/14/4	NPD	NPD	1,1	70,46	0,12/0,13	38,39	0,30/0,34	0,41	PASS
SGG CLIMAPLUS PLANISTAR	Argon 6/16/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/16/4	35(-2;-5)	NPD	1,1	70,46	0,12/0,13	38,39	0,30/0,34	0,41	PASS
SGG CLIMAPLUS PLANISTAR	Argon 6/12/5	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/12/5	NPD	NPD	1,3	70,14	0,12/0,13	38,02	0,30/0,33	0,41	PASS
SGG CLIMAPLUS PLANISTAR	Argon 6/15/5	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/15/5	NPD	NPD	1,1	70,14	0,12/0,13	38,02	0,30/0,33	0,41	PASS
SGG CLIMAPLUS PLANISTAR	Argon 6/12/6	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/12/6	31(-1;-4)	NPD	1,3	69,83	0,12/0,13	37,66	0,30/0,31	0,41	PASS
SGG CLIMAPLUS PLANISTAR	Argon 6/14/6	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/14/6	31(-1;-4)	NPD	1,1	69,83	0,12/0,13	37,66	0,30/0,31	0,41	PASS
SGG CLIMAPLUS PLANISTAR	Argon 6/15/6	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/15/6	31(-1;-4)	NPD	1,1	69,83	0,12/0,13	37,66	0,30/0,31	0,41	PASS
SGG CLIMAPLUS PLANISTAR	Argon 6/16/6	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/16/6	31(-1;-4)	NPD	1,1	69,83	0,12/0,13	37,66	0,30/0,31	0,41	PASS
SGG CLIMAPLUS PLANISTAR	Argon 6/12/8	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/12/8	34(-1;-3)	NPD	1,3	69,20	0,12/0,13	36,97	0,30/0,29	0,41	PASS
SGG CLIMAPLUS PLANISTAR	Argon 6/15/8	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/15/8	34(-1;-3)	NPD	1,1	69,20	0,12/0,13	36,97	0,30/0,29	0,41	PASS
SGG CLIMAPLUS PLANISTAR	Argon 6/16/8	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/16/8	NPD	NPD	1,1	69,20	0,12/0,13	36,97	0,30/0,29	0,41	PASS
SGG CLIMAPLUS PLANISTAR	Argon 6/12/10	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/12/10	37(-1;-3)	NPD	1,3	68,57	0,12/0,13	36,18	0,30/0,26	0,41	PASS
SGG CLIMAPLUS PLANISTAR SAFE	Argon 6/16/33.1	NPD	NPD	NPD	NPD	NPD	NPD/2B2	40K/40K	6/16/6	NPD	NPD	1,1	69,62	0,12/0,13	36,16	0,30/0,28	0,41	PASS
SGG CLIMAPLUS PLANISTAR SAFE	Argon 6/15/33.2	NPD	NPD	NPD	NPD	NPD/P1A	NPD/1B1	40K/40K	6/15/7	NPD	NPD	1,1	69,41	0,12/0,13	35,70	0,30/0,27	0,41	PASS
SGG CLIMAPLUS PLANISTAR SAFE	Argon 6/12/44.2	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	6/12/9	37(-1;-4)	NPD	1,3	68,79	0,12/0,13	35,08	0,30/0,24	0,41	PASS
SGG CLIMAPLUS PLANISTAR SAFE	Argon 6/15/44.2	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	6/15/9	36(-1;-4)	NPD	1,1	68,79	0,12/0,13	35,08	0,30/0,24	0,41	PASS
SGG CLIMAPLUS PLANISTAR SAFE	Argon 6/16/44.2	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	6/16/9	39(-1;-5)	NPD	1,1	68,79	0,12/0,13	35,08	0,30/0,24	0,41	PASS
SGG CLIMAPLUS PLANISTAR SAFE	Argon 8/16/33.1	NPD	NPD	NPD	NPD	NPD	NPD/2B2	40K/40K	8/16/6	NPD	NPD	1,1	69,00	0,12/0,13	35,53	0,27/0,28	0,40	PASS
SGG CLIMAPLUS PLANISTAR SAFE	Argon 8/16/44.1	NPD	NPD	NPD	NPD	NPD	NPD/2B2	40K/40K	8/16/8	NPD	NPD	1,1	68,38	0,12/0,13	34,92	0,27/0,26	0,40	PASS
SGG CLIMAPLUS PLANISTAR SAFE	Argon 33.1/16/4	NPD	NPD	NPD	NPD	NPD	2B2/NPD	40K/40K	6/16/4	NPD	NPD	1,1	70,25	0,12/0,13	36,81	0,27/0,34	0,40	PASS
SGG CLIMAPLUS PLANISTAR SAFE	Argon 33.1/16/6	NPD	NPD	NPD	NPD	NPD	2B2/1C2	40K/200K	6/16/6	NPD	NPD	1,1	69,62	0,12/0,13	36,16	0,27/0,31	0,40	PASS
SGG CLIMAPLUS PLANISTAR SAFE	Argon 44.1/12/6	NPD	NPD	NPD	NPD	NPD	2B2/1C2	40K/200K	8/12/6	NPD	NPD	1,3	69,00	0,12/0,13	35,53	0,25/0,31	0,39	PASS
SGG CLIMAPLUS PLANISTAR SAFE	Argon 44.1/15/6	NPD	NPD	NPD	NPD	NPD	2B2/1C2	40K/200K	8/15/6	NPD	NPD	1,1	69,00	0,12/0,13	35,53	0,25/0,31	0,39	PASS
SGG CLIMAPLUS PLANISTAR SAFE	Argon 44.2/12/33.1	NPD	NPD	NPD	NPD	P2A/NPD	1B1/2B2	40K/40K	9/12/6	NPD	NPD	1,27	68,10	0,12/0,13	34,40	0,22/0,26	0,39	PASS
SGG CLIMAPLUS PLANISTAR SAFE	Argon 44.2/15/33.1	NPD	NPD	NPD	NPD	P2A/NPD	1B1/2B2	40K/40K	9/15/6	NPD	NPD	1,11	68,10	0,12/0,13	34,40	0,22/0,26	0,39	PASS
SGG CLIMAPLUS PLANISTAR SAFE	Argon 44.2/15/44.2	NPD	NPD	NPD	NPD	P2A/P2A	1B1/1B1	40K/40K	9/15/9	36(-2;-5)	NPD	1,1	68	0,11/0,13	34	0,23/0,24	0,39	PASS
SGG CLIMAPLUS PLANISTAR SAFE	Argon 44.2/16/44.2	NPD	NPD	NPD	NPD	P2A/P2A	1B1/1B1	40K/40K	9/16/9	NPD	NPD	1,12	67,10	0,12/0,13	33,60	0,23/0,21	0,39	PASS
SGG CLIMAPLUS PLANISTAR SUN	Argon 4/15/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	4/15/4	29(-1;-4)	NPD	1,0	71,43	0,13/0,15	35,49	0,35/0,39	0,38	PASS
SGG CLIMAPLUS PLANISTAR SUN	Argon 4/16/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	4/16/4	30(-1;-3)	NPD	1,0	71,43	0,13/0,15	35,49	0,35/0,39	0,38	PASS
SGG CLIMAPLUS PLANISTAR SUN	Argon 4/18/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	4/18/4	NPD	NPD	1,1	71,43	0,13/0,15	35,49	0,35/0,39	0,38	PASS
SGG CLIMAPLUS PLANISTAR SUN SATINOVO	Argon 4/16/6Sat	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	4/16/6	NPD	NPD	1,0	NPD	NPD	NPD	NPD	NPD	PASS
SGG CLIMAPLUS PLANISTAR SUN	Argon 6/15/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/15/4	33(-1;-4)	NPD	1,0	70,78	0,13/0,15	34,91	0,32/0,39	0,37	PASS
SGG CLIMAPLUS PLANISTAR SUN	Argon 6/12/6	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/12/6	NPD	NPD	1,2	64	0,26/0,24	38	0,38/0,37	0,41	PASS
SGG CLIMAPLUS PLANISTAR SUN	Argon 6/16/6	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/16/6	NPD	NPD	1,0	63,81	0,26/0,24	37,89	0,38/0,37	0,41	PASS
SGG CLIMAPLUS PLANISTAR SUN	Argon 8/16/8	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	8/16/8	NPD	NPD	1,0	69	0,13/0,15	33	0,29/0,32	0,37	PASS
SGG CLIMAPLUS PLANISTAR SUN SAFE	Argon 4/14/33.1	NPD	NPD	NPD	NPD	NPD	NPD/2B2	40K/40K	4/14/6	NPD	NPD	1,1	70,57	0,13/0,15	33,65	0,35/0,32	0,38	PASS
SGG CLIMAPLUS PLANISTAR SUN SAFE	Argon 4/16/33.1	NPD	NPD	NPD	NPD	NPD	NPD/2B2	40K/40K	4/16/6	NPD	NPD	1,0	70,57	0,13/0,15	33,65	0,35/0,32	0,38	PASS
SGG CLIMAPLUS PLANISTAR SUN SAFE	Argon 4/12/33.2	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	4/12/7	NPD	NPD	1,2	70,36	0,13/0,15	33,25	0,35/0,30	0,38	PASS
SGG CLIMAPLUS PLANISTAR SUN SAFE	Argon 4/15/44.2	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	4/15/9	NPD	NPD	1,0	69,73	0,13/0,15	32,75	0,35/0,28	0,38	PASS
SGG CLIMAPLUS PLANISTAR SUN SAFE	Argon 6/16/44.1	NPD	NPD	NPD	NPD	NPD	NPD/2B2	40K/40K	6/16/8	NPD	NPD	1,0	69,31	0,13/0,15	32,65	0,32/0,29	0,37	PASS
SGG CLIMAPLUS PLANISTAR SUN SAFE	Argon 8/15/55.2	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	8/15/11	NPD	NPD	1,1	67,56	0,11/0,13	33,90	0,27/0,22	0,40	PASS
SGG CLIMAPLUS PLANISTAR SUN SAFE	Argon 8/18/55.2	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	8/18/11	NPD	NPD	1,0	68	0,13/0,14	31	0,29/0,25	0,37	PASS
SGG CLIMAPLUS PLANISTAR SUN SAFE	Argon 8/16/66.1	NPD	NPD	NPD	NPD	NPD	NPD/2B2	40K/40K	8/16/12	NPD	NPD	1,0	61	0,24/0,24	33	0,34/0,28	0,46	PASS
SGG CLIMAPLUS PLANISTAR SUN SAFE	Argon 44.1/16/33.1	NPD	NPD	NPD	NPD	NPD	2B2/2B2	40K/40K	8/16/6	NPD	NPD	1,0	69,10	0,13/0,15	32,27	0,26/0,32	0,36	PASS
SGG CLIMAPLUS PLANISTAR SUN SAFE	Argon 44.1/16/55.1	NPD	NPD	NPD	NPD	NPD	2B2/2B2	40K/40K	8/16/10	NPD	NPD	1,0	67,87	0,13/0,14	31,34	0,26/0,27	0,36	PASS
SGG CLIMAPLUS PLANISTAR SUN SAFE	Argon 44.2/16/6	NPD	NPD	NPD	NPD	P2A/NPD	1B1/NPD	40K/40K	9/16/6	NPD	NPD	1,0	69	0,13/0,15	32	0,25/0,35	0,35	PASS
SGG CLIMAPLUS PLANISTAR SUN SAFE	Argon 44.2/16/33.2	NPD	NPD	NPD	NPD	P2A/P1A	1B1/1B1	40K/40K	9/16/7	NPD	NPD	1,0	69	0,13/0,15	32	0,25/0,30	0,35	PASS
SGG CLIMAPLUS PLANISTAR SUN SAFE	Argon 44.2/15/44.2	NPD	NPD	NPD	NPD	P2A/P2A	1B1/1B1	40K/40K	9/15/9	36(-2;-5)	NPD	1,0	68,08	0,12/0,14	31,30	0,25/0,28	0,35	PASS
SGG CLIMAPLUS PLANISTAR SUN SAFE	Argon 44.2/18/44.2	NPD	NPD	NPD	NPD	P2A/P2A	1B1/1B1	40K/40K	9/18/9	NPD	NPD	1,0	61,90	0,25/0,23	33,46	0,31/0,29	0,38	PASS
SGG CLIMAPLUS PLANISTAR SUN SAFE	Argon 44.2/18/4	NPD	NPD	NPD	NPD	P2A/NPD	1B1/NPD	40K/40K</										



EN 1279-5:2006+A2:2010

## Leistungserklärung

Thermoglas Niederrhein GmbH  
Am Wasserturm 5, D-47906 KempenGlastechnik  
Glasgründhandel  
Vollverglasproduktion

Verwendungszweck: Isolierglas zur Verwendung in Gebäuden und Bauwerken

Wesentliche Merkmale	Aufbau	Außen/Innen	D=Diamant Si=Silence	Feuer- widerstand	Brand-verhalten incl. External FP	Beschuss- hemmung	Sprengwirk- ungshemmung	Durchbruch- hemmung	Widerstand gegen Pendelschlag	Widerstand gg. Plötzl. Temperaturwechsel und -gradienten (K)	Widerstand gg. Wind-, Schnee-, Dauerhafte und kurzfristiger Lasten.	Luftschall- dämmung(dB)	Deklarierte Emissivität	Ug-Wert (W/m <sup>2</sup> K)	Licht- transmission	Licht- reflektion	Energie- transmission	Energie- reflektion	g-Wert	Dauer- haftigkeit
AVCP systems (Wärmeschutz One / Relax / Lux)																				
SGG CLIMAPLUS ONE	Argon	4/15/4		NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	4/15/4	29(-1;-4)	NPD	1,0	71,00	0,22/0,23	44,10	0,39/0,39	0,50	PASS
SGG CLIMAPLUS ONE	Argon	4/16/4		NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	4/16/4	30(-1;-3)	NPD	1,0	71,00	0,22/0,23	44,10	0,39/0,39	0,50	PASS
SGG CLIMAPLUS ONE	Argon	4/18/4		NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	4/18/4	30(-1;-3)	NPD	1,1	71,00	0,22/0,23	44,10	0,39/0,39	0,50	PASS
SGG CLIMAPLUS ONE	Argon	4/20/4		NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	4/20/4	30(-0;-4)	NPD	1,07	70,90	0,22/0,22	44	0,36/0,37	0,49	PASS
SGG CLIMAPLUS ONE	Argon	4/16/6		NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	4/16/6	34(-1;-4)	NPD	1,0	70,35	0,23/0,22	43,04	0,39/0,36	0,47	PASS
SGG CLIMAPLUS ONE	Argon	6/14/4		NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/14/4	34(-1;-4)	NPD	1,1	70,35	0,22/0,23	43,04	0,36/0,39	0,49	PASS
SGG CLIMAPLUS ONE	Argon	6/15/4		NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/15/4	33(-1;-4)	NPD	1,0	70,35	0,22/0,23	43,04	0,36/0,39	0,49	PASS
SGG CLIMAPLUS ONE	Argon	6/16/4		NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/16/4	33(-1;-4)	NPD	1,0	70,35	0,22/0,23	43,04	0,36/0,39	0,49	PASS
SGG CLIMAPLUS ONE	Argon	6/16/6		NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/16/6	33(-1;-4)	NPD	1,0	69,71	0,22/0,23	42,02	0,36/0,36	0,49	PASS
SGG CLIMAPLUS ONE	Argon	8/16/4		NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	8/16/4	36(-2;-5)	NPD	1,0	69,71	0,22/0,23	42,02	0,33/0,39	0,48	PASS
SGG CLIMAPLUS ONE	Argon	10/16/4		NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	10/16/4	36(-1;-4)	NPD	1,0	69,06	0,21/0,23	40,81	0,30/0,38	0,47	PASS
SGG CLIMAPLUS ONE	Argon	10/15/6		NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	10/15/6	36(-1;-3)	NPD	1,0	68,43	0,21/0,23	39,90	0,30/0,35	0,46	PASS
SGG CLIMAPLUS ONE SAFE	Argon	4/16/33.1		NPD	NPD	NPD	NPD	NPD	NPD/2B2	40K/40K	4/16/6	NPD	NPD	1,0	70,14	0,23/0,22	41,42	0,39/0,32	0,47	PASS
SGG CLIMAPLUS ONE SAFE	Argon	6/16/33.1		NPD	NPD	NPD	NPD	NPD	NPD/2B2	40K/40K	6/16/6	NPD	NPD	1,0	69,50	0,23/0,22	40,48	0,36/0,32	0,46	PASS
SGG CLIMAPLUS ONE SAFE	Argon	33.2/15/33.2		NPD	NPD	NPD	NPD	P2A/P2A	1B1/1B1	40K/40K	7/15/7	NPD	NPD	1,0	68,88	0,22/0,23	39,14	0,30/0,30	0,46	PASS
SGG CLIMAPLUS ONE SAFE	Argon	6/15/33.2		NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	6/15/7	NPD	NPD	1,0	69,29	0,22/0,23	39,93	0,35/0,30	0,49	PASS
SGG CLIMAPLUS ONE SAFE	Argon	44.2/15/44.2		NPD	NPD	NPD	NPD	P2A/P2A	1B1/1B1	40K/40K	9/15/9	36(-2;-5)	NPD	1,0	67,63	0,21/0,22	37,46	0,28/0,28	0,45	PASS
SGG CLIMAPLUS ONE SAFE	Argon	4/15/44.2		NPD	NPD	NPD	NPD	NPD/P2A	NPD	40K/40K	4/15/9	NPD	NPD	1,0	69,29	0,22/0,22	39,93	0,38/0,28	0,50	PASS
SGG CLIMAPLUS ONE SAFE	Argon	55.2/15/44.2		NPD	NPD	NPD	NPD	P2A/P2A	1B1/1B1	40K/40K	9/15/9	36(-2;-5)	NPD	1,0	67,02	0,21/0,22	36,67	0,26/0,28	0,44	PASS
SGG CLIMAPLUS ONE SAFE	Argon	66.2/15/44.2		NPD	NPD	NPD	NPD	P2A/P2A	1B1/1B1	40K/40K	13/15/9	40(-1;-4)	NPD	1,0	66,41	0,21/0,22	35,92	0,24/0,28	0,44	PASS
SGG CLIMAPLUS ONE SAFE	Argon	6/16/44.2		NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	6/16/9	37(-1;-4)	NPD	1,0	68,66	0,23/0,21	39,05	0,35/0,28	0,45	PASS
SGG CLIMAPLUS ONE SAFE	Argon	6/15/44.2		NPD	NPD	NPD	NPD	NPD/P4A	NPD	40K/40K	6/15/9	NPD	NPD	1,0	68,66	0,22/0,22	39,05	0,35/0,28	0,49	PASS
SGG CLIMAPLUS ONE SAFE	Argon	6/16/33.1		NPD	NPD	NPD	NPD	NPD/2B2	NPD	40K/40K	6/16/6	NPD	NPD	1,0	69,50	0,22/0,23	40,48	0,36/0,32	0,49	PASS
SGG CLIMAPLUS ONE SAFE	Argon	44.2/16/4		NPD	NPD	NPD	NPD	P2A/NPD	1B1/NPD	40K/40K	9/16/4	NPD	NPD	1,0	69,29	0,21/0,23	39,93	0,28/0,38	0,46	PASS
SGG CLIMAPLUS ONE SAFE	Argon	33.2/14/4		NPD	NPD	NPD	NPD	P2A/NPD	1B1/NPD	40K/40K	7/14/4	NPD	NPD	1,1	69,93	0,22/0,23	40,85	0,30/0,38	0,46	PASS
SGG CLIMAPLUS ONE SAFE	Argon	55.2/15/44.2		NPD	NPD	NPD	NPD	P2A/P2A	1B1/1B1	40K/40K	11/15/9	NPD	NPD	1,0	67,02	0,21/0,22	36,67	0,26/0,28	0,44	PASS
SGG CLIMAPLUS ONE SAFE P4A	Argon	4/16/44.4		NPD	NPD	NPD	NPD	NPD/P4A	NPD/1B1	40K/40K	4/16/10	NPD	NPD	1,0	68,87	0,22/0,22	39,15	0,38/0,26	0,50	PASS
SGG CLIMAPLUS ONE SILENCE	Argon	8/15/44.2 Si		NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	8/15/9	36(-1;-5)	NPD	1,0	68,04	0,21/0,22	38,20	0,33/0,28	0,47	PASS
SGG CLIMAPLUS ONE SILENCE	Argon	44.2 Si/15/44.2 Si		NPD	NPD	NPD	NPD	P2A/P2A	1B1/1B1	40K/40K	9/15/9	42(-2;-6)	NPD	1,0	67,63	0,21/0,22	37,46	0,28/0,28	0,45	PASS
SGG CLIMAPLUS ONE SILENCE	Argon	44.2 Si/14/8		NPD	NPD	NPD	NPD	P2A/NPD	1B1/NPD	40K/40K	9/14/8	NPD	NPD	1,1	68,04	0,21/0,22	38,20	0,28/0,33	0,45	PASS
SGG CLIMAPLUS ONE SILENCE	Argon	6/15/66.2 Si		NPD	NPD	NPD	NPD	NPD/P2A	1C2/1B1	200K/40K	6/15/13	NPD	NPD	1,0	67,42	0,22/0,22	37,39	0,35/0,25	0,48	PASS
SGG CLIMAPLUS ONE SILENCE	Argon	6/15/44.2 Si		NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/15/8	39(-1;-6)	NPD	1,0	68,66	0,22/0,22	39,05	0,35/0,28	0,49	PASS
SGG CLIMAPLUS ONE BIOCLEAR	Argon	4/15/4		NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	4/15/4	29(-1;-4)	NPD	1,0	69,07	0,24/0,25	42,63	0,38/0,40	0,48	PASS
SGG CLIMAPLUS LUX	Argon	8/16/4		NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	8/16/4	NPD	NPD	1,3	79,52	0,12/0,13	61,05	0,15/0,16	0,69	PASS
SGG CLIMAPLUS LUX SAFE	Argon	10/16/44.1		NPD	NPD	NPD	NPD	NPD/NPD	NPD/2B2	40K/40K	10/16/8	NPD	NPD	1,2	77,14	0,12/0,13	53,04	0,14/0,13	0,65	PASS
SGG CLIMAPLUS LUX SILENCE	Argon	10/16/44.1 Si		NPD	NPD	NPD	NPD	NPD/NPD	NPD/2B2	40K/40K	10/16/8	43(-1;-2)	NPD	1,2	77,14	0,12/0,13	53,04	0,14/0,13	0,65	PASS
SGG CLIMAPLUS XN	Argon	4/12/4		NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	4/12/4	29(0;-3)	NPD	1,3	82,00	0,12/0,13	60,00	0,27/0,27	0,65	PASS
SGG CLIMAPLUS XN	Argon	4/15/4		NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	4/15/4	29(-1;-4)	NPD	1,1	82,00	0,12/0,13	60,00	0,27/0,27	0,65	PASS
SGG CLIMAPLUS XN	Argon	4/16/4		NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	4/16/4	30(-1;-3)	NPD	1,1	82,00	0,12/0,13	60,00	0,27/0,27	0,65	PASS
SGG CLIMAPLUS XN	Argon	4/16/5		NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	4/16/5	32(-1;-4)	NPD	1,1	81,80	0,12/0,13	59,40	0,27/0,26	0,65	PASS
SGG CLIMAPLUS XN	Argon	6/16/6		NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/16/6	31(-2;-5)	NPD	1,1	81,00	0,12/0,13	57,50	0,26/0,26	0,64	PASS
SGG CLIMAPLUS XN	Argon	8/16/6		NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	8/16/6	35(-2;-5)	NPD	1,1	80,50	0,12/0,13	56,60	0,24/0,26	0,63	PASS
SGG CLIMAPLUS XN	Argon	8/16/8		NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	8/16/8	33(-2;-6)	NPD	1,1	80,00	0,12/0,12	55,60	0,24/0,24	0,63	PASS
SGG CLIMAPLUS XN	Argon	10/16/6		NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	10/16/6	37(-2;-5)	NPD	1,1	80,00	0,12/0,12	55,60	0,23/0,26	0,62	PASS
SGG CLIMAPLUS XN SAFE	Argon	4/16/44.1		NPD	NPD	NPD	NPD	NPD	NPD/2B2	40K/40K	4/16/8	35(-2;-6)	NPD	1,1	80,70	0,12/0,12	55,20	0,27/0,22	0,65	PASS
SGG CLIMAPLUS XN SAFE	Argon	4/16/44.2		NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	4/16/9	36(-3;-7)	NPD	1,1	80,50	0,12/0,12	54,30	0,27/0,20	0,65	PASS
SGG CLIMAPLUS XN SAFE P4A	Argon	4/16/44.4		NPD	NPD	NPD	NPD	NPD/P4A	NPD/1B1	40K/40K	4/16/10	37(-4;-8)	NPD	1,1	80,00	0,12/0,12	53,00	0,27/0,19	0,65	PASS
SGG CLIMAPLUS XN SAFE	Argon	6/16/44.1		NPD	NPD	NPD	NPD	NPD	NPD/2B2	40K/40K	6/16/8	36(-2;-5)	NPD	1,1	80,20	0,12/0,12	54,20	0,26/0,21	0,64	PASS
SGG CLIMAPLUS XN SAFE	Argon	6/16/44.2		NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	6/16/9	37(-2;-6)	NPD	1,1	80,00	0,12/0,12	53,30	0,26/0,20	0,63	PASS
SGG CLIMAPLUS XN SAFE	Argon	8/16/44.2		NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	8/16/9	35(-2;-6)	NPD	1,1	79,50	0,12/0,12	52,40	0,24/0,20	0,62	PASS
SGG CLIMAPLUS XN SAFE	Argon	8/16/55.2		NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	8/15/11	39(-2;-5)	NPD	1,1	79,00	0,12/0,12	51,50	0,24/0,19	0,62	PASS
SGG CLIMAPLUS XN SAFE	Argon	33.1/16/33.1		NPD	NPD	NPD	NPD	NPD	2B2/2B2	40K/40K	6/16/6	38(-2;-6)	NPD	1,1	80,50	0,12/0,12	54,30	0,23/0,23	0,61	PASS
SGG CLIMAPLUS XN SAFE	Argon	33.1/16/44.1		NPD	NPD	NPD	NPD	NPD	2B2/2B2	40K/40K	6/16/8	37(-2;-6)	NPD	1,1	80,00	0,12/0,12	53,30	0,23/		



EN 1279-5:2006+A2:2010

## Leistungserklärung

Thermoglas Niederrhein GmbH  
Am Wasserturm 5, D-47906 KempenGlas-technik  
Glas-erweiternde  
Verfahrenstechnologien

Verwendungszweck: Isolierglas zur Verwendung in Gebäuden und Bauwerken

Wesentliche Merkmale	Aufbau	Außen/Innen	D=Diamant Si=Silence	Feuer- widerstand	Brand-verhalten incl. External FP	Beschuss- hemmung	Sprengwirk- ungshemmung	Durchbruch- hemmung	Widerstand gegen Pendelschlag	Widerstand gg. Plötzl. Temperaturwechsel und -gradienten (K)	Widerstand gg. Wind-, Schnee-, Dauerhafte und kurzfristiger Lasten.	Luftschall- dämmung(dB)	Deklarierte Emissivität	Ug-Wert (W/m²K)	Licht- transmission	Licht- reflektion	Energie- transmission	Energie- reflektion	g-Wert	Dauer- haftigkeit
SGG CLIMAPLUS COOL-LITE SKN 174	Argon	6/16/4	NPD	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/16/4	35(-2;-5)	NPD	1,1	68,62	0,11/0,12	38,09	0,28/0,34	0,41	PASS
SGG CLIMAPLUS COOL-LITE SKN 174	Argon	6/15/4	NPD	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/15/4	33(-1;-4)	NPD	1,1	68,62	0,11/0,12	38,09	0,28/0,34	0,41	PASS
SGG CLIMAPLUS COOL-LITE SKN 174	Argon	6/15/6	NPD	NPD	NPD	NPD	NPD	NPD	NPD/NPD	40K/40K	6/15/6	NPD	NPD	1,1	68,01	0,11/0,12	37,36	0,28/0,31	0,41	PASS
SGG CLIMAPLUS COOL-LITE SKN 174	Argon	8/15/6	NPD	NPD	NPD	NPD	NPD	NPD	NPD/NPD	40K/40K	8/15/6	NPD	NPD	1,1	67,40	0,11/0,12	36,65	0,26/0,31	0,40	PASS
SGG CLIMAPLUS COOL-LITE SKN 174 SAFE	Argon	8/15/88.2	NPD	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	8/15/17	NPD	NPD	1,1	64,07	0,11/0,11	31,96	0,26/0,17	0,40	PASS
SGG CLIMAPLUS COOL-LITE SKN 174 SAFE	Argon	44.2/15/33.1	NPD	NPD	NPD	NPD	NPD	P2A/NPD	1B1/2B2	40K/40K	9/15/6	NPD	NPD	1,1	67	0,11/0,12	35	0,22/0,27	0,39	PASS
SGG CLIMAPLUS COOL-LITE SKN 174 SAFE	Argon	6/15/66.2	NPD	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	6/15/13	NPD	NPD	1,1	65,81	0,11/0,12	33,64	0,28/0,20	0,41	PASS
SGG CLIMAPLUS COOL-LITE SKN 174 SAFE	Argon	66.2/16/6	NPD	NPD	NPD	NPD	NPD	P2A/NPD	1B1/NPD	40K/40K	13/16/6	NPD	NPD	1,1	65,81	0,11/0,12	33,64	0,19/0,31	0,37	PASS
SGG CLIMAPLUS COOL-LITE SKN 174 SAFE	Argon	6/16/44.2	NPD	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	6/16/9	NPD	NPD	1,1	67,00	0,11/0,12	34,86	0,28/0,24	0,41	PASS
SGG CLIMAPLUS COOL-LITE SKN 174 SAFE	Argon	6/16/33.2	NPD	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	6/16/7	NPD	NPD	1,1	67,60	0,11/0,12	35,49	0,28/0,26	0,41	PASS
SGG CLIMAPLUS COOL-LITE SKN 165	Argon	6/15/4	NPD	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/15/4	32(-1;-4)	NPD	1,1	60,55	0,16/0,17	30,26	0,32/0,39	0,33	PASS
SGG CLIMAPLUS COOL-LITE SKN 165	Argon	6/12/4	NPD	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/12/4	33(-1;-4)	NPD	1,3	60,55	0,16/0,17	30,26	0,32/0,39	0,33	PASS
SGG CLIMAPLUS COOL-LITE SKN 165	Argon	6/16/4	NPD	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/16/4	35(-2;-5)	NPD	1,1	60,55	0,16/0,17	30,26	0,32/0,39	0,33	PASS
SGG CLIMAPLUS COOL-LITE SKN 165	Argon	6/12/6	NPD	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/12/6	31(-1;-4)	NPD	1,3	60,01	0,16/0,17	29,75	0,32/0,36	0,33	PASS
SGG CLIMAPLUS COOL-LITE SKN 165	Argon	6/15/6	NPD	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/15/6	31(-1;-4)	NPD	1,1	60,01	0,16/0,17	29,75	0,32/0,36	0,33	PASS
SGG CLIMAPLUS COOL-LITE SKN 165	Argon	6/16/6	NPD	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/16/6	31(-1;-4)	NPD	1,1	60,01	0,16/0,17	29,75	0,32/0,36	0,33	PASS
SGG CLIMAPLUS COOL-LITE SKN 165	Argon	6/12/5	NPD	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/12/5	NPD	NPD	1,3	60,28	0,16/0,17	30,01	0,32/0,38	0,33	PASS
SGG CLIMAPLUS COOL-LITE SKN 165	Argon	6/15/5	NPD	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/15/5	NPD	NPD	1,1	60,28	0,16/0,17	30,01	0,32/0,38	0,33	PASS
SGG CLIMAPLUS COOL-LITE SKN 165 SWS	Argon	8/16/8	NPD	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	8/16/8	NPD	NPD	1,1	58,94	0,16/0,17	28,79	0,29/0,33	0,32	PASS
SGG CLIMAPLUS COOL-LITE SKN 165	Argon	8/22/8	NPD	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	8/22/8	NPD	NPD	1,15	58,10	0,15/0,16	28,20	0,27/0,29	0,33	PASS
SGG CLIMAPLUS COOL-LITE SKN 165	Argon	6/20/6	NPD	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/20/6	NPD	NPD	1,1	60,01	0,16/0,17	29,75	0,32/0,36	0,33	PASS
SGG CLIMAPLUS COOL-LITE SKN 165 SAFE	Argon	44.2/20/33.2	NPD	NPD	NPD	NPD	NPD	P2A/P2A	1B1/1B1	40K/40K	9/20/7	NPD	NPD	1,1	59	0,15/0,17	27	0,24/0,31	0,31	PASS
SGG CLIMAPLUS COOL-LITE SKN 165 SAFE	Argon	44.2/15/66.4	NPD	NPD	NPD	NPD	NPD	P2A/P4A	1B1/1B1	40K/40K	9/15/14	NPD	NPD	1,1	57	0,15/0,16	26	0,24/0,22	0,31	PASS
SGG CLIMAPLUS COOL-LITE SKN 165 SAFE	Argon	6/12/33.2	NPD	NPD	NPD	NPD	NPD	NPD/P1A	NPD/1B1	40K/40K	6/12/7	NPD	NPD	1,3	59,65	0,16/0,17	28,13	0,32/0,31	0,33	PASS
SGG CLIMAPLUS COOL-LITE SKN 165 SAFE	Argon	6/12/55.2	NPD	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	6/12/11	NPD	NPD	1,3	58,59	0,16/0,16	27,28	0,32/0,26	0,33	PASS
SGG CLIMAPLUS COOL-LITE SKN 165 SAFE	Argon	6/15/55.2	NPD	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	6/15/11	NPD	NPD	1,1	58,59	0,16/0,16	27,28	0,32/0,26	0,33	PASS
SGG CLIMAPLUS COOL-LITE SKN 165 SAFE	Argon	44.2/12/33.1	NPD	NPD	NPD	NPD	NPD	P2A/NPD	1B1/2B2	40K/40K	9/12/6	NPD	NPD	1,27	58,40	0,15/0,17	27,70	0,24/0,29	0,32	PASS
SGG CLIMAPLUS COOL-LITE SKN 165 SAFE	Argon	44.2/15/33.1	NPD	NPD	NPD	NPD	NPD	P2A/NPD	1B1/2B2	40K/40K	9/15/6	NPD	NPD	1,11	58,40	0,15/0,17	27,70	0,24/0,29	0,32	PASS
SGG CLIMAPLUS COOL-LITE SKN 165 SAFE	Argon	6/15/33.2	NPD	NPD	NPD	NPD	NPD	NPD/P1A	NPD/1B1	40K/40K	6/15/7	NPD	NPD	1,1	59,65	0,16/0,17	28,13	0,32/0,31	0,33	PASS
SGG CLIMAPLUS COOL-LITE SKN 165 SAFE	Argon	6/16/33.2	NPD	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	6/16/7	NPD	NPD	1,1	59,65	0,16/0,17	28,13	0,32/0,31	0,33	PASS
SGG CLIMAPLUS COOL-LITE SKN 165 SAFE	Argon	8/16/44.1	NPD	NPD	NPD	NPD	NPD	NPD	NPD/2B2	40K/40K	8/16/8	NPD	NPD	1,1	58,76	0,16/0,17	27,63	0,29/0,30	0,32	PASS
SGG CLIMAPLUS COOL-LITE SKN 165 SAFE SWS	Argon	8/16/44.2	NPD	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	8/16/9	37(-2;-5)	NPD	1,1	58,59	0,16/0,17	27,29	0,29/0,28	0,32	PASS
SGG CLIMAPLUS COOL-LITE SKN 165 SILENCE	Argon	6/16/44.2 Si	NPD	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	6/16/9	NPD	NPD	1,1	58,23	0,16/0,17	27,16	0,26/0,30	0,32	PASS
SGG CLIMAPLUS COOL-LITE SKN 165 SILENCE	Argon	8/15/66.2 Si	NPD	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	8/15/13	NPD	NPD	1,1	57,55	0,16/0,16	26,49	0,29/0,24	0,32	PASS
SGG CLIMAPLUS COOL-LITE SKN 154	Argon	6/12/4	NPD	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/12/4	33(-1;-4)	NPD	1,2	50,46	0,18/0,22	24,44	0,34/0,42	0,27	PASS
SGG CLIMAPLUS COOL-LITE SKN 154	Argon	6/15/4	NPD	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/15/4	33(-1;-4)	NPD	1,0	50,46	0,18/0,22	24,44	0,34/0,42	0,27	PASS
SGG CLIMAPLUS COOL-LITE SKN 154	Argon	6/16/4	NPD	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/16/4	34(-1;-4)	NPD	1,0	50,46	0,18/0,22	24,44	0,34/0,42	0,27	PASS
SGG CLIMAPLUS COOL-LITE SKN 154	Argon	6/18/4	NPD	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/18/4	NPD	NPD	1,14	50,40	0,18/0,20	24,10	0,33/0,39	0,27	PASS
SGG CLIMAPLUS COOL-LITE SKN 154	Argon	6/12/6	NPD	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/12/6	31(-1;-4)	NPD	1,2	50,01	0,18/0,22	24,05	0,34/0,38	0,27	PASS
SGG CLIMAPLUS COOL-LITE SKN 154	Argon	6/15/6	NPD	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/15/6	NPD	NPD	1,0	50,01	0,18/0,22	24,05	0,34/0,38	0,27	PASS
SGG CLIMAPLUS COOL-LITE SKN 154	Argon	6/16/6	NPD	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/16/6	33(-1;-4)	NPD	1,0	50,01	0,18/0,22	24,05	0,34/0,38	0,27	PASS
SGG CLIMAPLUS COOL-LITE SKN 154	Argon	8/16/6	NPD	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	8/16/6	36(-1;-4)	NPD	1,0	49,56	0,18/0,22	23,68	0,31/0,38	0,27	PASS
SGG CLIMAPLUS COOL-LITE SKN 154	Argon	6/15/4	NPD	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/15/4	33(-1;-4)	NPD	1,0	50,46	0,18/0,22	24,44	0,34/0,42	0,27	PASS
SGG CLIMAPLUS COOL-LITE SKN 154	Argon	6/12/5	NPD	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/12/5	NPD	NPD	1,0	50	0,18/0,23	24	0,34/0,40	0,27	PASS
SGG CLIMAPLUS COOL-LITE SKN 154	Argon	6/15/6	NPD	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/15/6	NPD	NPD	1,0	50,01	0,18/0,22	24,05	0,34/0,38	0,27	PASS
SGG CLIMAPLUS COOL-LITE SKN 154	Argon	6/15/8	NPD	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/15/8	NPD	NPD	1,0	49,56	0,18/0,22	23,67	0,34/0,35	0,27	PASS
SGG CLIMAPLUS COOL-LITE SKN 154	Argon	6/15/10	NPD	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/15/10	NPD	NPD	1,0	49,12	0,18/0,21	23,28	0,34/0,32	0,27	PASS
SGG CLIMAPLUS COOL-LITE SKN 154	Argon	8/15/6	NPD	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	8/15/6	NPD	NPD	1,0	49,56	0,18/0,22	23,68	0,31/0,38	0,27	PASS
SGG CLIMAPLUS COOL-LITE SKN 154	Krypton	6/12/4	NPD	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/12/4	34(-1;-5)	NPD	1,0	50	0,18/0,22	24	0,34/0,42	0,27	PASS
SGG CLIMAPLUS COOL-LITE SKN 154 SAFE	Argon	44.2/16/55.2	NPD	NPD	NPD	NPD	NPD	P2A/P2A	1B1/1B1	40K/40K	9/16/11	NPD	NPD	1,0	48,10	0,18/0,21	21,44	0,27/0,29	0,25	PASS
SGG CLIMAPLUS COOL-LITE SKN 154 SAFE	Argon	6/15/33.2	NPD	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	6/12/7	NPD	NPD	1,0	49,71	0,18/0,22	22,76	0,34/0,33	0,27	PASS
SGG CLIMAPLUS COOL-LITE SKN 154 SAFE	Argon	6/15/44.2	NPD	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	6/15/9	36(-1;-4)	NPD	1,0	49,26	0,18/0,21	22,43	0,34/0,31	0,27	PASS
SGG CLIMAPLUS COOL-LITE SKN 154 SAFE	Argon	6/15/55.2	NPD	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	6/15/11	NPD	NPD	1,0	48,83	0,18/0,21	22,11	0,34/0,29	0,27	PASS
SGG CLIMAPLUS COOL-LITE SKN 154 SAFE	Argon	6/15/66.2	NPD	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	6/15/13	NPD	NPD	1,0	48,39	0,18/0,21	21,80	0,34/0,27	0,27	PASS
SGG CLIMAPLUS COOL-LITE SKN 154 SAFE	Argon	8/15/55.2	NPD	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	8/15/11	NPD	NPD	1,0	48,39	0,18/0,21	21,80	0,31/0,29	0,26	PASS
SGG CLIMAPLUS COOL-LITE SKN 154 SAFE	Argon	6/12/33.1	NPD	NPD	NPD	NPD	NPD	NPD	NPD/2B2	40K/40K	6/12/6	NPD	NPD	1,2	49,86	0,18/0,22	23,05	0,34/0,35	0,27	PASS
SGG CLIMAPLUS COOL-LITE SKN 154 SAFE	Argon	6/12/44.2	NPD	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	6/12/9	37(-1;-4)	NPD	1,2	49,26	0,18/0,21	22,43	0,34/0,31	0,27	PASS
SGG CLIMAPLUS COOL-LITE SKN 154 SAFE	Argon	6/15/44.2	NPD	NPD																



EN 1279-5:2006+A2:2010

## Leistungserklärung

Thermoglas Niederrhein GmbH  
Am Wasserturm 5, D-47906 KempenGlasfachhandel  
Industrieproduktion

Verwendungszweck: Isolierglas zur Verwendung in Gebäuden und Bauwerken

Wesentliche Merkmale	Aufbau D=Diamant Si=Silence	Außen/Innen	Feuer- widerstand	Brand-verhalten incl. External FP	Beschuss- hemmung	Sprengwirk- ungshemmung	Durchbruch- hemmung	Widerstand gegen Pendelschlag	Widerstand gg. Plötzl. Temperaturwechsel und -gradienten (K)	Widerstand gg. Wind-, Schnee, Dauerhafte und kurzfristiger Lasten	Luftschall- dämmung(dB)	Deklarierte Emissivität	Ug-Wert (W/m²K)	Licht- transmission	Licht- reflektion	Energie- transmission	Energie- reflektion	g-Wert	Dauer- haftigkeit	
																				1
AVCP systems (Sonnenschutz Cool-Lite / Antelio)																				
SGG CLIMAPLUS COOL-LITE XTREME 60/28	Argon	6/15/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/15/4	33(-1;-4)	NPD	1,0	60,27	0,14/0,16	25,83	0,39/0,46	0,28	PASS	
SGG CLIMAPLUS COOL-LITE XTREME 60/28	Argon	6/16/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/16/4	34(-1;-4)	NPD	1,0	60,27	0,14/0,16	25,83	0,39/0,46	0,28	PASS	
SGG CLIMAPLUS COOL-LITE XTREME 60/28	Argon	6/15/6	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/15/6	NPD	NPD	1,0	59,73	0,14/0,16	25,50	0,39/0,42	0,28	PASS	
SGG CLIMAPLUS COOL-LITE XTREME 60/28	Argon	6/15/10	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/15/10	NPD	NPD	1,0	58,66	0,14/0,16	24,87	0,39/0,34	0,28	PASS	
SGG CLIMAPLUS COOL-LITE XTREME 60/28	Argon	8/15/6	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	8/15/6	NPD	NPD	1,0	59,20	0,14/0,16	25,18	0,36/0,42	0,28	PASS	
SGG CLIMAPLUS COOL-LITE XTREME 60/28	Argon	8/16/6	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	8/16/6	NPD	NPD	1,0	59,20	0,14/0,16	25,18	0,36/0,42	0,28	PASS	
SGG CLIMAPLUS COOL-LITE XTREME 60/28 SAFE	Argon	8/16/55.1	NPD	NPD	NPD	NPD	NPD	NPD	NP2/2B2	8/16/10	NPD	NPD	1,0	57,98	0,14/0,15	23,86	0,36/0,32	0,28	PASS	
SGG CLIMAPLUS COOL-LITE XTREME 60/28 SAFE	Argon	6/15/33.2	NPD	NPD	NPD	NPD	NPD	NPD/P1A	NP2/1B1	40K/40K	6/15/7	NPD	1,0	59	0,14/0,16	24	0,39/0,36	0,28	PASS	
SGG CLIMAPLUS COOL-LITE XTREME 60/28 SAFE	Argon	6/15/44.2	NPD	NPD	NPD	NPD	NPD	NPD/P1A	NP2/1B1	40K/40K	6/15/9	39(-2;-6)	NPD	1,0	59	0,14/0,16	24	0,39/0,33	0,28	PASS
SGG CLIMAPLUS COOL-LITE XTREME 60/28 SAFE	Argon	6/15/55.2	NPD	NPD	NPD	NPD	NPD	NPD/P1A	NP2/1B1	40K/40K	6/15/11	NPD	NPD	1,0	58	0,14/0,15	24	0,39/0,30	0,28	PASS
SGG CLIMAPLUS COOL-LITE XTREME 60/28 SAFE	Argon	44.2/15/33.2	NPD	NPD	NPD	NPD	NPD	P2A/P2A	1B1/1B1	40K/40K	9/15/7	NPD	NPD	1,0	58	0,14/0,16	24	0,31/0,36	0,27	PASS
SGG CLIMAPLUS COOL-LITE XTREME 60/28 SAFE	Argon	44.2/15/44.2	NPD	NPD	NPD	NPD	NPD	P2A/P2A	1B1/1B1	40K/40K	9/15/9	36(-2;-5)	NPD	1,0	58	0,14/0,16	24	0,31/0,33	0,27	PASS
SGG CLIMAPLUS COOL-LITE XTREME 60/28 SAFE	Argon	6/15/44.2	NPD	NPD	NPD	NPD	NPD	NPD/P2A	NP2/1B1	40K/40K	6/15/9	NPD	NPD	1,0	59	0,14/0,16	24	0,39/0,33	0,28	PASS
SGG CLIMAPLUS COOL-LITE XTREME 60/28 SAFE	Argon	6/15/66.2	NPD	NPD	NPD	NPD	NPD	NPD/P2A	NP2/1B1	40K/40K	6/15/13	NPD	NPD	1,0	58	0,14/0,15	24	0,39/0,28	0,28	PASS
SGG CLIMAPLUS COOL-LITE XTREME 60/28 SAFE	Argon	66.2/15/44.2	NPD	NPD	NPD	NPD	NPD	P2A/P2A	1B1/1B1	40K/40K	13/15/9	40(-1;-4)	NPD	1,0	57	0,13/0,15	23	0,26/0,33	0,27	PASS
SGG CLIMAPLUS COOL-LITE SKN 074 SAFE DIAMANT	Argon	10D/16/66.1D	NPD	NPD	NPD	NPD	NPD	NPD	NP2/2B2	40K/40K	10/16/12	41(-1;-3)	NPD	1,1	70	0,11/0,12	39	0,33/0,33	0,42	PASS
SGG CLIMAPLUS COOL-LITE SKN 074 SAFE DIAMANT	Argon	12D/16/66.1D	NPD	NPD	NPD	NPD	NPD	NPD	NP2/2B2	40K/40K	12/16/12	NPD	NPD	1,1	69	0,11/0,12	38	0,32/0,32	0,42	PASS
SGG CLIMAPLUS COOL-LITE SKN 065 SAFE DIAMANT	Argon	66.1D/16/44.1D	NPD	NPD	NPD	NPD	NPD	NPD	2B2/2B2	40K/40K	12/16/8	NPD	NPD	1,1	61	0,16/0,17	30	0,32/0,39	0,32	PASS
SGG CLIMAPLUS COOL-LITE STB 136 ULTRA N	Argon	4/14/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	4/14/4	NPD	NPD	1,2	32,35	0,18/0,19	21,78	0,19/0,33	0,27	PASS	
SGG CLIMAPLUS COOL-LITE STB 136 ULTRA N SAFE	Argon	10/16/66.1	NPD	NPD	NPD	NPD	NPD	NPD	1C2/1B1	200K/40K	10/16/12	41(-1;-3)	NPD	1,1	31,14	0,22/0,19	17,82	0,18/0,22	0,25	PASS
SGG CLIMAPLUS COOL-LITE ST 150	Argon	6/15/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/15/4	32(-1;-4)	NPD	1,1	45,42	0,19/0,19	30,23	0,20/0,31	0,36	PASS	
SGG CLIMAPLUS COOL-LITE ST 150	Argon	6/16/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/16/4	35(-2;-5)	NPD	1,1	45,42	0,19/0,19	30,23	0,20/0,31	0,36	PASS	
SGG CLIMAPLUS COOL-LITE KB 159	Argon	6/15/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/15/4	32(-1;-4)	NPD	1,4	52,57	0,25/0,15	37,31	0,23/0,24	0,41	PASS	
SGG CLIMAPLUS COOL-LITE KB 159	Argon	6/16/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/16/4	35(-2;-5)	NPD	1,4	52,57	0,25/0,15	37,31	0,23/0,24	0,41	PASS	
SGG CLIMAPLUS COOL-LITE KS 147	Argon	6/15/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/15/4	32(-1;-4)	NPD	1,1	43,64	0,44/0,41	26,50	0,45/0,50	0,29	PASS	
SGG CLIMAPLUS COOL-LITE KS 147	Argon	6/16/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/16/4	35(-2;-5)	NPD	1,1	43,64	0,44/0,41	26,50	0,45/0,50	0,29	PASS	
SGG CLIMAPLUS COOL-LITE KS 147 BIOCLEAR	Argon	6/16/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/16/4	35(-2;-5)	NPD	1,12	43,00	0,45/0,42	25,40	0,48/0,48	0,28	PASS	
SGG CLIMAPLUS ANTELIO silber	Argon	6/15/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/15/4	32(-1;-4)	NPD	1,1	59,50	0,32/0,31	41,57	0,36/0,37	0,48	PASS	
SGG CLIMAPLUS ANTELIO silber	Argon	6/16/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/16/4	35(-2;-5)	NPD	1,1	59,50	0,32/0,31	41,57	0,36/0,37	0,48	PASS	
SGG CLIMAPLUS ANTELIO klar	Argon	6/15/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/15/4	32(-1;-4)	NPD	1,1	40,90	0,27/0,31	31,24	0,32/0,37	0,37	PASS	
SGG CLIMAPLUS ANTELIO klar	Argon	6/16/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/16/4	35(-2;-5)	NPD	1,1	40,90	0,27/0,31	31,24	0,32/0,37	0,37	PASS	
SGG CLIMAPLUS ANTELIO bronze	Argon	6/15/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/15/4	32(-1;-4)	NPD	1,12	38,50	0,28/0,31	27,40	0,27/0,35	0,34	PASS	
SGG CLIMAPLUS ANTELIO bronze	Argon	6/16/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/16/4	35(-2;-5)	NPD	1,12	38,50	0,28/0,31	27,40	0,27/0,35	0,34	PASS	
SGG CLIMAPLUS PARSOOL bronze	Argon	6/16/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/16/4	35(-2;-5)	NPD	1,1	43,50	0,07/0,10	30,73	0,13/0,25	0,37	PASS	








EN 1279-5:2006+A2:2010

## Leistungserklärung

Thermoglas Niederrhein GmbH  
Am Wasserturm 5, D-47906 KempenGlastechnik  
Glasgründhandel  
Isoliertglasproduktion

Verwendungszweck: Isolierglas zur Verwendung in Gebäuden und Bauwerken

Wesentliche Merkmale	Aufbau Außen/innen Da-Diamant Sil-Silence * =ESG unbeschichtet	Feuer- widerstand	Brand-verhalten incl. External FP	Beschuss- hemmung	Sprengwirk- ungshemmung	Durchbruch- hemmung	Widerstand gegen Pendelschlag	Widerstand gg. Plötzl. Temperaturwechsel und -gradienten (K)	Widerstand gg. Wind-, Schnee-, Dauerhafte und kurzfristiger Lasten.	Luftschall- dämmung(dB)	Deklarierte Emissivität	Ug-Wert (W/m²K)	Licht- transmission	Licht- reflektion	Energie- transmission	Energie- reflektion	g-Wert	Dauer- haftigkeit	
																			1
SGG CLIMAPLUS SECURIT ULTRA N II	Argon 4/12/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	4/12/4	29(0;-3)	NPD	1,3	79,85	0,12/0,12	54,78	0,27/0,27	0,58	PASS	
SGG CLIMAPLUS SECURIT ULTRA N II	Argon 4/12/5	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	4/12/5	33(-1;-4)	NPD	1,3	79,49	0,12/0,12	54,03	0,27/0,26	0,58	PASS	
SGG CLIMAPLUS SECURIT ULTRA N II	Argon 4/12/6	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	4/12/6	33(-1;-3)	NPD	1,3	79,13	0,12/0,12	53,30	0,27/0,25	0,58	PASS	
SGG CLIMAPLUS SECURIT ULTRA N II	Argon 4/12/8	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	4/12/8	36(-2;-5)	NPD	1,3	78,41	0,12/0,12	51,89	0,26/0,23	0,58	PASS	
SGG CLIMAPLUS SECURIT ULTRA N II SWS	Argon 6/16/4	NPD	NPD	NPD	NPD	NPD	NPD	1C2/1C3	200K/200K	32(-2;-4)	NPD	1,12	78,60	0,12/0,11	51,60	0,22/0,24	0,60	PASS	
SGG CLIMAPLUS SECURIT ULTRA N II SWS	Argon 4/16/4	NPD	NPD	NPD	NPD	NPD	NPD	1C3/1C3	200K/200K	29(-1;-4)	NPD	1,13	79,50	0,12/0,11	53,50	0,24/0,25	0,63	PASS	
SGG CLIMAPLUS SECURIT ULTRA N II	Argon 4/16/6	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	4/16/6	35(-2;-5)	NPD	1,1	79,13	0,12/0,12	53,30	0,27/0,25	0,58	PASS	
SGG CLIMAPLUS SECURIT ULTRA N II	Argon 4/16/8	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	4/16/8	35(-2;-5)	NPD	1,1	78,41	0,12/0,12	51,89	0,26/0,23	0,58	PASS	
SGG CLIMAPLUS SECURIT ULTRA N II	Argon 5/12/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	5/12/4	33(-1;-4)	NPD	1,3	79,49	0,12/0,12	54,03	0,25/0,27	0,58	PASS	
SGG CLIMAPLUS SECURIT ULTRA N II	Argon 5/15/8	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	5/15/8	35(-1;-4)	NPD	1,1	78,06	0,12/0,12	51,21	0,25/0,23	0,57	PASS	
SGG CLIMAPLUS SECURIT ULTRA N II	Argon 6/12/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/12/4	33(-1;-4)	NPD	1,3	79,13	0,12/0,12	53,30	0,25/0,27	0,61	PASS	
SGG CLIMAPLUS SECURIT ULTRA N II	Argon 6/15/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/15/4	33(-1;-4)	NPD	1,1	79,13	0,12/0,12	53,30	0,25/0,27	0,61	PASS	
SGG CLIMAPLUS SECURIT ULTRA N II	Argon 6/15/8	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/15/8	34(-1;-3)	NPD	1,1	77,71	0,12/0,12	50,55	0,24/0,23	0,57	PASS	
SGG CLIMAPLUS SECURIT ULTRA N II	Argon 6/20/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/20/4	34(-1;-5)	NPD	1,1	79,13	0,12/0,12	53,30	0,24/0,27	0,57	PASS	
SGG CLIMAPLUS SECURIT ULTRA N II	Argon 10/15/6	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	10/15/6	36(-1;-3)	NPD	1,1	76,99	0,12/0,12	48,91	0,20/0,24	0,54	PASS	
SGG CLIMAPLUS SECURIT ULTRA N II	Argon 4/16/4	NPD	NPD	NPD	NPD	NPD	NPD	NPD/1C3	40K/200K	4/16/4	NPD	1,1	79,85	0,12/0,12	54,78	0,27/0,27	0,63	PASS	
SGG CLIMAPLUS SECURIT ULTRA N II	Argon 12/14/10	NPD	NPD	NPD	NPD	NPD	NPD	1C1/1C1	200K/200K	12/14/10	NPD	NPD	1,1	74,72	0,11/0,12	44,82	0,18/0,20	0,55	PASS
SGG CLIMAPLUS SECURIT ULTRA N II	Argon 12/14/10	NPD	NPD	NPD	NPD	NPD	NPD	1C1/1C1	200K/200K	12/14/10	NPD	NPD	1,1	75,41	0,11/0,12	46,18	0,18/0,22	0,56	PASS
SGG CLIMAPLUS SECURIT ULTRA N II	Argon 10/18/8	NPD	NPD	NPD	NPD	NPD	NPD	1C1/1C2	200K/200K	10/18/8	NPD	NPD	1,1	76,30	0,12/0,12	47,71	0,20/0,22	0,57	PASS
SGG CLIMAPLUS SECURIT ULTRA N II	Argon 8/16/10	NPD	NPD	NPD	NPD	NPD	NPD	1C2/1C1	200K/200K	8/16/10	NPD	NPD	1,1	76,30	0,12/0,12	47,71	0,23/0,20	0,59	PASS
SGG CLIMAPLUS SECURIT ULTRA N II	Argon 10/16/6	NPD	NPD	NPD	NPD	NPD	NPD	1C1/1C2	200K/200K	10/16/6	NPD	NPD	1,1	76,99	0,12/0,12	48,91	0,20/0,24	0,57	PASS
SGG CLIMAPLUS SECURIT ULTRA N II	Argon 8/20/8	NPD	NPD	NPD	NPD	NPD	NPD	1C2/1C2	200K/200K	8/20/8	NPD	NPD	1,1	77,01	0,12/0,12	49,27	0,23/0,22	0,59	PASS
SGG CLIMAPLUS SECURIT ULTRA N II	Argon 8/16/8	NPD	NPD	NPD	NPD	NPD	NPD	1C2/1C2	200K/200K	8/16/8	NPD	NPD	1,1	77,01	0,12/0,12	49,27	0,23/0,22	0,59	PASS
SGG CLIMAPLUS SECURIT ULTRA N II	Argon 6/20/6	NPD	NPD	NPD	NPD	NPD	NPD	1C2/1C2	200K/200K	6/20/6	NPD	NPD	1,1	78,41	0,12/0,12	51,89	0,25/0,24	0,61	PASS
SGG CLIMAPLUS SECURIT ULTRA N II SAFE	Argon 6/15/44.2	NPD	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	6/15/9	36(-1;-4)	NPD	1,11	76,30	0,11/0,11	45,60	0,22/0,16	0,56	PASS
SGG CLIMAPLUS SECURIT ULTRA N II SAFE	Argon 44.2/16/8	NPD	NPD	NPD	NPD	NPD	P2A/NPD	1B1/1C2	40K/200K	9/16/8	NPD	NPD	1,1	76,55	0,12/0,12	46,65	0,19/0,22	0,56	PASS
SGG CLIMAPLUS SECURIT ULTRA N II SAFE	Argon 44.2/16/8	NPD	NPD	NPD	NPD	NPD	NPD	1B1/1C2	40K/200K	9/16/8	NPD	NPD	1,3	76,56	0,12/0,12	46,60	0,19/0,23	0,53	PASS
SGG CLIMAPLUS SECURIT ULTRA N II SAFE	Argon 6/16/33.1	NPD	NPD	NPD	NPD	NPD	NPD	1C2/2B2	200K/40K	6/16/6	NPD	NPD	1,1	78,18	0,12/0,12	49,72	0,24/0,22	0,61	PASS
SGG CLIMAPLUS SECURIT ULTRA N II SAFE	Argon 8/16/44.2	NPD	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	8/16/9	37(-2;-5)	NPD	1,12	75,40	0,11/0,11	44,20	0,20/0,16	0,54	PASS
SGG CLIMAPLUS SECURIT ULTRA N II SAFE	Argon 10/16/44.2	NPD	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	10/16/9	40(-2;-5)	NPD	1,11	75,50	0,11/0,11	44,40	0,20/0,16	0,54	PASS
SGG CLIMAPLUS SECURIT ULTRA N II SAFE	Argon 4/15/44.2	NPD	NPD	NPD	NPD	NPD	NPD/P2A	1C3/1B1	200K/40K	4/15/9	NPD	NPD	1,1	77,95	0,12/0,12	48,96	0,26/0,19	0,62	PASS
SGG CLIMAPLUS SECURIT ULTRA N II SAFE	Argon 4/16/33.1	NPD	NPD	NPD	NPD	NPD	NPD	1C3/2B2	200K/40K	4/16/6	NPD	NPD	1,1	78,89	0,12/0,12	51,01	0,27/0,22	0,62	PASS
SGG CLIMAPLUS SECURIT ULTRA N II SAFE	Argon 4/16/44.2	NPD	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	4/16/9	37(-2;-6)	NPD	1,12	77,20	0,11/0,11	47,10	0,24/0,17	0,58	PASS
SGG CLIMAPLUS SECURIT ULTRA N II SAFE	Argon 8/15/44.2	NPD	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	8/15/9	36(-1;-5)	NPD	1,11	75,40	0,11/0,11	44,20	0,20/0,16	0,54	PASS
SGG CLIMAPLUS SECURIT ULTRA N II SAFE	Argon 10/16/66.2	NPD	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	10/16/13	41(-1;-4)	NPD	1,1	74,50	0,12/0,11	43,15	0,20/0,16	0,53	PASS
SGG CLIMAPLUS SECURIT ULTRA N II SAFE	Argon 44.2/15/6	NPD	NPD	NPD	NPD	NPD	P2A/NPD	1B1/1C2	40K/200K	9/15/6	36(-1;-4)	NPD	1,1	77,25	0,12/0,12	47,76	0,19/0,24	0,53	PASS
SGG CLIMAPLUS SECURIT ULTRA N II SAFE	Argon 55.2/20/8	NPD	NPD	NPD	NPD	NPD	P2A/NPD	1B1/(1C2/1C2*)	40K/200K	11/20/8	NPD	NPD	1,1	75,87	0,12/0,12	45,50	0,18/0,22	0,54	PASS
SGG CLIMAPLUS SECURIT ULTRA N II SILENCE	Argon 8/15/44.2 Si	NPD	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	8/15/9	41(-2;-6)	NPD	1,1	76,55	0,12/0,12	46,65	0,22/0,19	0,55	PASS
SGG CLIMAPLUS SECURIT ULTRA N II SILENCE	Argon 4/15/33.2 Si	NPD	NPD	NPD	NPD	NPD	NPD/P1A	NPD/1B1	40K/40K	4/15/7	36(-1;-5)	NPD	1,1	78,65	0,12/0,12	50,31	0,26/0,21	0,58	PASS
SGG CLIMAPLUS SECURIT ULTRA N II SILENCE	Argon 6/12/44.2 Si	NPD	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	6/12/9	39(-1;-5)	NPD	1,3	77,25	0,12/0,12	47,82	0,24/0,19	0,56	PASS
SGG CLIMAPLUS SECURIT ULTRA N II SILENCE	Argon 6/15/44.2 Si	NPD	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	6/15/9	39(-2;-6)	NPD	1,1	77,25	0,12/0,12	47,82	0,24/0,19	0,56	PASS
SGG CLIMAPLUS SECURIT ULTRA N II SILENCE	Argon 6/15/55.2 Si	NPD	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	40K/40K	6/15/11	41(-2;-6)	NPD	1,1	76,55	0,12/0,12	46,65	0,24/0,18	0,56	PASS
SGG CLIMAPLUS SECURIT ULTRA N II SILENCE	Argon 6/16/44.1 Si	NPD	NPD	NPD	NPD	NPD	NPD/NPD	1C2/2B2	200K/40K	6/16/8	40(-2;-6)	NPD	1,1	77,48	0,12/0,12	48,56	0,24/0,20	0,56	PASS
SGG CLIMAPLUS SECURIT ULTRA N II SILENCE	Argon 6/16/44.2 Si	NPD	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K	6/16/9	39(-1;-5)	NPD	1,1	77,25	0,12/0,12	47,82	0,24/0,19	0,56	PASS
SGG CLIMAPLUS SECURIT ULTRA N	Argon 6*/16/4	NPD	NPD	NPD	NPD	NPD	NPD	1C2/NPD	200K/40K	6/16/4	32(-2;-4)	NPD	1,1	78,60	0,12/0,11	51,60	0,22/0,24	0,60	PASS
SGG CLIMAPLUS SECURIT ULTRA N	Argon 6*/15/6	NPD	NPD	NPD	NPD	NPD	NPD	1C2/NPD	200K/40K	6/15/6	31(-1;-4)	NPD	1,1	78,42	0,12/0,12	51,83	0,25/0,24	0,61	PASS
SGG CLIMAPLUS SECURIT ULTRA N	Argon 6*/16/6	NPD	NPD	NPD	NPD	NPD	NPD	1C2/NPD	200K/40K	6/16/6	31(-1;-4)	NPD	1,1	78,42	0,12/0,12	51,83	0,25/0,24	0,61	PASS
SGG CLIMAPLUS SECURIT ULTRA N	Argon 8*/15/8	NPD	NPD	NPD	NPD	NPD	NPD	1C2/NPD	200K/40K	8/15/8	NPD	NPD	1,1	77,01	0,12/0,12	49,23	0,23/0,22	0,59	PASS
SGG CLIMAPLUS SECURIT ULTRA N	Argon 8*/16/8	NPD	NPD	NPD	NPD	NPD	NPD	1C2/NPD	200K/40K	8/16/8	NPD	NPD	1,1	77,01	0,12/0,12	49,23	0,23/0,22	0,59	PASS
SGG CLIMAPLUS SECURIT ULTRA N SAFE	Argon 8*/16/44.2	NPD	NPD	NPD	NPD	NPD	NPD/P2A	1C2/1B1	200K/40K	8/16/9	NPD	NPD	1,1	75	0,11/0,11	44	0,19/0,17	0,58	PASS
SGG CLIMAPLUS SECURIT ULTRA N SAFE	Argon 8*/16/55.2	NPD	NPD	NPD	NPD	NPD	NPD/P2A	1C2/1B1	200K/40K	8/16/11	NPD	NPD	1,1	75,87	0,12/0,12	45,50	0,22/0,18	0,59	PASS
SGG CLIMAPLUS SECURIT ULTRA N SAFE	Argon 8*/16/66.2	NPD	NPD	NPD	NPD	NPD	NPD/P2A	1C2/1B1	200K/40K	8/16/13	NPD	NPD	1,1	74	0,11/0,10	42	0,19/0,14	0,58	PASS
SGG CLIMAPLUS SECURIT ONE II DIAMANT	Argon 4D/16/4D	NPD	NPD	NPD	NPD	NPD	NPD	NPD/1C3	40K/200K	4/16/4	30(-1;-3)	NPD	1,0	72,95	0,22/0,23	48,89	0,43/0,44	0,54	PASS
SGG CLIMAPLUS SECURIT ONE II SWS	Argon 6/16/8	NPD	NPD	NPD	NPD	NPD	NPD	1C2/1C2	200K/200K	6/16/8	NPD	NPD	1,0	69,22	0,21/0,22	41,84	0,34/0,33	0,50	PASS
SGG CLIMAPLUS SECURIT ONE II SWS	Argon 6/16/6	NPD	NPD	NPD	NPD	NPD	NPD	1C2/NPD	200K/40K	6/16/6	NPD	NPD	1,0	69,71	0,22/0,23	42,02	0,36/0,36	0,49	PASS
SGG CLIMAPLUS SECURIT ONE II SWS	Argon 6/15/6	NPD	NPD	NPD	NPD	NPD	NPD	1C2/NPD	200K/40K	6/15/6	NPD	NPD	1,0	69,71	0,22/0,23	42,02	0,36/0,36	0,49	PASS
SGG CLIMAPLUS SECURIT ONE II SAFE	Argon 6/15/66.2	NPD	NPD	NPD	NPD	NPD	NPD/P2A	1C2/1B1	200K/40K	6/15/13	NPD	NPD	1,0	67,42	0,22/0,22	37,39	0,35/0,25	0,48	PASS
SGG CLIMAPLUS SECURIT ONE II SAFE SWS	Argon 13/16/8	NPD	NPD	NPD	NPD	NPD	P2A/NPD	1B1/1C2	40K/200K	13/16/8	NPD	NPD	1,0	67	0,20/0,22	37	0,24/0,33	0,44	PASS
SGG CLIMAPLUS SECURIT ONE SAFE	Argon 6*/16/44.2	NPD	NPD	NPD	NPD	NPD	NPD/P2A	1C2/1B1	200K/40K	6/16/10	NPD	NPD	1,0	68,25	0,22/0,22	38,29	0,35/0,		

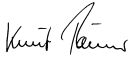
 EN 1279-5:2006+A2:2010		<b>Leistungserklärung</b> <b>Thermoglas Niederrhein GmbH</b> <b>Am Wasserturm 5, D-47906 Kempen</b>										 Glasfachwerk Glasrandband Isolierglasproduktion							
Wesentliche Merkmale		Verwendungszweck: Isolierglas zur Verwendung in Gebäuden und Bauwerken																	
Aufbau Außen/Innen		Feuerwiderstand	Brandverhalten incl. External FP	Beschuss-hemmung	Sprengwirk-ungshemmung	Durchbruch-hemmung	Widerstand gegen Pendelschlag	Widerstand gg. Plötzl. Temperaturwechsel und -gradienten (K)	Widerstand gg. Wind-, Schnee-, Dauerhafte und kurzfristiger Lasten	Luftschall-dämmung(dB)	Deklarierte Emissivität	Ug-Wert (W/m²K)	Licht-transmission	Licht-reflektion	Energie-transmission	Energie-reflektion	g-Wert	Dauer-haftigkeit	
* =ESG unbeschichtet		1	3, 4	1	1	3	3	4	4	3	3	3	3	3	3	3	3	3	
AVCP systems (Wärmeschutz mit SECURIT)		1	3, 4	1	1	3	3	4	4	3	3	3	3	3	3	3	3	3	
SGG CLIMAPLUS SECURIT COOL-LITE SKN 174 II	Argon 6/16/4	NPD	NPD	NPD	NPD	NPD	1C2/1C2	200K/200K	6/16/4	35(-2;-5)	NPD	1,1	68,61	0,11/0,12	38,04	0,27/0,33	0,41	PASS	
SGG CLIMAPLUS SECURIT COOL-LITE SKN 174 II	Argon 6/16/6	NPD	NPD	NPD	NPD	NPD	1C2/1C2	200K/200K	6/16/6	33(-1;-4)	NPD	1,1	68,00	0,11/0,12	37,32	0,27/0,30	0,41	PASS	
SGG CLIMAPLUS SECURIT COOL-LITE SKN 174 II	Argon 8/16/6	NPD	NPD	NPD	NPD	NPD	1C2//1C2	200K/200K	8/16/6	35(-2;-6)	NPD	1,1	67,39	0,11/0,12	36,62	0,25/0,30	0,40	PASS	
SGG CLIMAPLUS SECURIT COOL-LITE SKN 174 II SAFE	Argon 6/14/33.1	NPD	NPD	NPD	NPD	NPD	1C2/2B2	40K/40K	6/14/6	NPD	NPD	1,1	67,80	0,11/0,12	35,96	0,28/0,28	0,41	PASS	
SGG CLIMAPLUS SECURIT COOL-LITE SKN 174 II SAFE	Argon 6/16/44.2	NPD	NPD	NPD	NPD	NPD/P2A	1C2/1B1	200K/40K	8/16/9	NPD	NPD	1,1	66,39	0,11/0,12	34,17	0,25/0,23	0,40	PASS	
SGG CLIMAPLUS SECURIT COOL-LITE SKN 174 II SAFE P4A	Argon 8/16/44.4	NPD	NPD	NPD	NPD	NPD/P4A	(1C2/1C2)/1B	200K/40K	8/16/10	NPD	NPD	1,1	66,00	0,11/0,12	33,58	0,25/0,21	0,40	PASS	
SGG CLIMAPLUS SECURIT COOL-LITE SKN 174 II SILENCE	Argon 8/16/55.2 Si	NPD	NPD	NPD	NPD	NPD/P2A	1C2//1B1	200K/40K	8/16/11	NPD	NPD	1,1	65,80	0,11/0,12	33,59	0,25/0,22	0,40	PASS	
SGG CLIMAPLUS SECURIT COOL-LITE SKN 165 II SILENCE	Argon 6/15/66.1 Si	NPD	NPD	NPD	NPD	NPD	1C2/2B2	200K/40K	6/15/12	42(-2;-6)	NPD	1,0	58,24	0,16/0,16	27,13	0,30/0,25	0,32	PASS	
SGG CLIMAPLUS SECURIT COOL-LITE SKN 154 II	Argon 8/16/6	NPD	NPD	NPD	NPD	NPD	1C2/1C2*	200K/200K	8/16/6	36(-1;-4)	NPD	1,0	49,57	0,18/0,26	23,58	0,30/0,43	0,27	PASS	
SGG CLIMAPLUS SECURIT COOL-LITE SKN 154 II	Argon 6/15/6	NPD	NPD	NPD	NPD	NPD	1C2/NPD	200K/40K	6/15/6	NPD	NPD	1,0	50,01	0,18/0,26	23,96	0,32/0,43	0,27	PASS	
SGG CLIMAPLUS SECURIT COOL-LITE SKN 154 II	Argon 6/15/44.2	NPD	NPD	NPD	NPD	NPD/P2A	NPD/1B1	200K/40K	6/15/9	36(-1;-4)	NPD	1,0	49,27	0,18/0,25	22,44	0,32/0,35	0,27	PASS	
SGG CLIMAPLUS SECURIT COOL-LITE SKN 154 II SAFE	Argon 8/15/55.2	NPD	NPD	NPD	NPD	NPD/P2A	1C2/1B1	200K/40K	8/15/11	NPD	NPD	1,0	48,40	0,18/0,25	21,79	0,30/0,32	0,26	PASS	
SGG CLIMAPLUS SECURIT COOL-LITE SKN 154 II SAFE	Argon 8/16/88.4	NPD	NPD	NPD	NPD	NPD/P4A	1C1/1B1	200K/40K	8/16/18	NPD	NPD	1,0	46,83	0,18/0,24	20,54	0,30/0,24	0,26	PASS	
SGG CLIMAPLUS SECURIT COOL-LITE SKN 154 II SAFE	Argon 6/14/44.2	NPD	NPD	NPD	NPD	P2A/NPD	1B1/1C2	40K/200K	6/14/9	NPD	NPD	1,1	49,27	0,18/0,22	22,43	0,27/0,38	0,25	PASS	
SGG CLIMAPLUS SECURIT COOL-LITE SKN 154 II SAFE	Argon 6/20/44.1	NPD	NPD	NPD	NPD	NPD	1C2/2B2	200K/40K	6/20/8	NPD	NPD	1,1	49,42	0,18/0,25	22,71	0,32/0,36	0,27	PASS	
SGG CLIMAPLUS SECURIT ANTELIO Klar ULTRA N	Argon 6/16/4	NPD	NPD	NPD	NPD	NPD	1C2/NPD	200K/40K	6/16/4	NPD	NPD	1,1	41	0,27/0,31	31	0,32/0,37	0,37	PASS	
SGG CLIMAPLUS SECURIT ANTELIO Klar ULTRA N SAFE	Argon 6/12/44.2	NPD	NPD	NPD	NPD	NPD/P2A	1C2/1B1	200K/40K	6/12/9	37(-1;-4)	NPD	1,3	40	0,27/0,30	28	0,32/0,28	0,37	PASS	
SGG CLIMAPLUS SECURIT XN II	Argon 4*/16/4*	NPD	NPD	NPD	NPD	NPD	1C3/1C3	200K/200K	4/16/4	30(-1;-3)	NPD	1,1	82,00	0,12/0,13	59,90	0,28/0,27	0,65	PASS	
SGG CLIMAPLUS SECURIT XN II	Argon 4/16/4*	NPD	NPD	NPD	NPD	NPD	NPD/1C3	40K/200K	4/16/4	30(-1;-3)	NPD	1,1	82,00	0,12/0,13	59,90	0,28/0,27	0,65	PASS	
SGG CLIMAPLUS SECURIT XN II	Argon 6*/16/4*	NPD	NPD	NPD	NPD	NPD	1C2/1C3	200K/200K	6/16/4	34(-1;-4)	NPD	1,1	81,50	0,12/0,13	58,70	0,26/0,27	0,64	PASS	
SGG CLIMAPLUS SECURIT XN II	Argon 8*/16/8*	NPD	NPD	NPD	NPD	NPD	1C2/1C2	200K/200K	8/16/8	33(-2;-6)	NPD	1,1	79,90	0,12/0,12	55,50	0,25/0,24	0,63	PASS	
SGG CLIMAPLUS SECURIT XN II	Argon 8*/16/10*	NPD	NPD	NPD	NPD	NPD	1C2/1C1	200K/200K	8/16/10	38(-1;-4)	NPD	1,1	79,40	0,12/0,12	54,50	0,25/0,23	0,62	PASS	
SGG CLIMAPLUS SECURIT XN II	Argon 10*/16/6*	NPD	NPD	NPD	NPD	NPD	1C1/1C2	200K/200K	10/16/6	37(-2;-5)	NPD	1,1	79,90	0,12/0,12	55,50	0,23/0,26	0,62	PASS	
SGG CLIMAPLUS SECURIT XN II SAFE	Argon 44.2/16/6*	NPD	NPD	NPD	NPD	NPD/P2A	1B1/1C2	40K/200K	9/16/6	36(-2;-5)	NPD	1,1	80,00	0,12/0,12	52,90	0,21/0,26	0,59	PASS	
SGG CLIMAPLUS SECURIT XN II SAFE	Argon 44.2/16/8*	NPD	NPD	NPD	NPD	P2A/NPD	1B1/1C2	40K/200K	9/16/8	35(-2;-6)	NPD	1,1	79,50	0,12/0,12	52,00	0,21/0,24	0,59	PASS	
SGG CLIMAPLUS SECURIT XN	Argon 6*/16/4	NPD	NPD	NPD	NPD	NPD	1C2/NPD	200K/40K	6/16/4	34(-1;-4)	NPD	1,1	81,50	0,12/0,13	58,80	0,26/0,27	0,64	PASS	
SGG CLIMAPLUS SECURIT XN	Argon 6*/16/6	NPD	NPD	NPD	NPD	NPD	1C2/NPD	200K/40K	6/16/6	31(-2;-5)	NPD	1,1	81,00	0,12/0,13	57,70	0,26/0,26	0,64	PASS	
SGG CLIMAPLUS SECURIT XN	Argon 8*/16/8	NPD	NPD	NPD	NPD	NPD	1C2/NPD	200K/40K	8/16/8	33(-2;-6)	NPD	1,1	80,00	0,12/0,12	55,60	0,24/0,24	0,63	PASS	
SGG CLIMAPLUS SECURIT XN SAFE	Argon 4*/16/33.1	NPD	NPD	NPD	NPD	NPD	1C3/2B2	200K/40K	4/16/6	34(-1;-5)	NPD	1,1	81,20	0,12/0,13	55,80	0,27/0,23	0,65	PASS	
SGG CLIMAPLUS SECURIT XN SAFE	Argon 6*/16/33.1	NPD	NPD	NPD	NPD	NPD	1C2/2B2	200K/40K	6/16/6	33(-2;-5)	NPD	1,1	80,70	0,12/0,12	54,80	0,26/0,23	0,63	PASS	
SGG CLIMAPLUS SECURIT XN SAFE	Argon 4*/16/44.2	NPD	NPD	NPD	NPD	NPD/P2A	1C3/1B1	200K/40K	4/16/9	36(-3;-7)	NPD	1,1	80,50	0,12/0,12	53,90	0,27/0,21	0,64	PASS	
SGG CLIMAPLUS SECURIT XN SAFE	Argon 8*/16/44.2	NPD	NPD	NPD	NPD	NPD/P2A	1C2/1B1	200K/40K	8/16/9	35(-2;-6)	NPD	1,1	79,50	0,12/0,12	52,00	0,24/0,20	0,62	PASS	
SGG CLIMAPLUS SECURIT XN SAFE	Argon 8*/16/55.2	NPD	NPD	NPD	NPD	NPD/P2A	1C2/1B1	200K/40K	8/16/11	39(-2;-5)	NPD	1,1	79,00	0,12/0,12	51,10	0,24/0,19	0,62	PASS	
SGG CLIMAPLUS SECURIT XN SAFE	Argon 8*/16/66.2	NPD	NPD	NPD	NPD	NPD/P2A	1C2/1B1	200K/40K	8/16/13	40(-2;-5)	NPD	1,1	78,50	0,12/0,12	50,20	0,24/0,19	0,62	PASS	
SGG CLIMAPLUS SECURIT XN SILENCE	Argon 6*/16/44.1 Si	NPD	NPD	NPD	NPD	NPD/NPD	1C2/2B2	200K/40K	6/16/8	39(-2;-7)	NPD	1,1	80,10	0,12/0,12	53,50	0,26/0,21	0,63	PASS	
SGG CLIMAPLUS SECURIT XN SILENCE	Argon 6*/16/44.2 Si	NPD	NPD	NPD	NPD	NPD/P2A	1C2/1B1	200K/40K	6/16/9	NPD	NPD	1,1	79,80	0,12/0,12	52,50	0,26/0,20	0,63	PASS	
SGG CLIMAPLUS SECURIT XN SILENCE	Argon 6*/16/55.2 Si	NPD	NPD	NPD	NPD	NPD/P2A	1C2/1B1	200K/40K	6/16/11	NPD	NPD	1,1	79,30	0,12/0,12	51,60	0,26/0,19	0,63	PASS	

\* = ESG SECURIT

**NEU**

Die Leistung des Produkts entspricht der oben deklarierten Leistung.  
 Diese Leistungserklärung wurde in der alleinigen Verantwortung des Herstellers erstellt.  
 Nicht gelistete Produkte sind Sonderaufbauten und werden mit NPD deklariert.

Unterschieden für und auf Anweisung des Herstellers von:

Name und Funktion Knut-Ulrich Röttger, GF	Ort und Datum der Erstellung Kempen, 01.06.2015	Unterschrift 
--	--	---