




CE		Leistungserklärung														Thermoglas Niederrhein GmbH Am Wasserturm 5, D-47906 Kempen					CLIMAplus SECURITY Glastechnik Glasgerüstbau Innenaussenglas		THERMO GLAS	
EN 1279-5:2006+A2:2010		Verwendungszweck: Isolierglas zur Verwendung in Gebäuden und Bauwerken																						
Wesentliche Merkmale		Aufbau	Außen/Mitte/Innen	Feuerwiderstand	Brandverhalten incl. External FP	Beschuss-hemmung	Sprengwirkungshemmung	Durchbruch-hemmung	Widerstand gegen Penderschlag	Widerstand gg. Plötl. Temperaturwechsel und gradienten (K)	Widerstand gg. Wind Schnee, Dauerhafte und kurzfristiger Lasten.	Luftschalldämmung(dB)	Deklarierte Emissivität	Ug-Wert (W/m²K)	Lichttransmission	Lichtreflektion	Energie-Transmission	Energie-reflektion	g-Wert	Dauerhaftigkeit				
AVCP systems				1	3, 4	1	1	3	3	4	4	3	3	3	3	3	3	3	3	3				
SGG CLIMATOP SECURIT	Luft	4/12/4/12/4	NPD	NPD	NPD	NPD	NPD	1C3/NPD/1C3	200K/40K/200K	4/12/4/12/4	NPD	NPD	1,90	73,20	0,20/0,20	59,10	0,17/0,17	0,68	PASS					
SGG CLIMATOP ULTRA N	Argon	4/12/4/12/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	4/12/4/12/4	31 (-1;-5)	NPD	0,72	70,70	0,14/0,14	41,40	0,28/0,28	0,50	PASS					
SGG CLIMATOP ULTRA N	Argon	4/14/4/14/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	4/14/4/14/4	NPD	NPD	0,6	71	0,15/0,15	42	0,31/0,31	0,50	PASS					
SGG CLIMATOP ULTRA N	Argon	4/16/4/16/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	4/16/4/16/4	32(-2;-5)	NPD	0,58	70,70	0,14/0,14	41,40	0,28/0,28	0,50	PASS					
SGG CLIMATOP ULTRA N	Argon	6/12/4/12/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	6/12/4/12/4	36(-1;-5)	NPD	0,71	69,90	0,14/0,14	40,10	0,25/0,28	0,49	PASS					
SGG CLIMATOP ULTRA N	Krypton	4/10/4/10/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	4/10/4/10/4	NPD	NPD	0,6	71	0,15/0,15	42	0,31/0,31	0,50	PASS					
SGG CLIMATOP ULTRA N	Krypton	6/10/6/10/6	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	6/10/6/10/6	NPD	NPD	0,6	69	0,15/0,15	39	0,28/0,28	0,49	PASS					
SGG CLIMATOP ULTRA N	Argon	8/12/4/12/6	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40 K	8/12/4/12/6	39(-1;-4)	NPD	0,7	69	0,15/0,15	40	0,26/0,28	0,48	PASS					
SGG CLIMATOP ULTRA N	Argon	4/15/4/15/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	4/15/4/15/4	NPD	NPD	0,6	63	0,14/0,16	33	0,34/0,33	0,38	PASS					
SGG CLIMATOP ULTRA N	Argon	4/10/4/10/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	4/10/4/10/4	NPD	NPD	0,83	70,70	0,14/0,14	41,40	0,28/0,28	0,50	PASS					
SGG CLIMATOP ULTRA N	Argon	8/16/6/16/6	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	8/16/6/16/6	NPD	NPD	0,7	70	0,15/0,15	41	0,32/0,28	0,51	PASS					
SGG CLIMATOP ULTRA N	Argon	4/8/4/8/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	4/8/4/8/4	NPD	NPD	1,02	70,70	0,15/0,15	40,30	0,27/0,27	0,50	PASS					
SGG CLIMATOP ULTRA N	Argon	4/14/4/12/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	4/14/4/12/4	NPD	NPD	0,72	70,70	0,15/0,15	40,30	0,27/0,27	0,50	PASS					
SGG CLIMATOP ULTRA N	Argon	4/14/4/14/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	4/14/4/14/4	NPD	NPD	0,68	70,70	0,15/0,15	40,30	0,27/0,27	0,50	PASS					
SGG CLIMATOP ULTRA N	Argon	4/12/6/12/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	4/12/6/12/4	NPD	NPD	0,76	69,90	0,15/0,15	39,90	0,27/0,27	0,49	PASS					
SGG CLIMATOP ULTRA N	Argon	6/18/6/18/6	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	6/18/6/18/6	NPD	NPD	0,5	69	0,15/0,15	39	0,28/0,28	0,49	PASS					
SGG CLIMATOP ULTRA N	Krypton	8/10/6/10/8	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	8/10/6/10/8	NPD	NPD	0,6	68	0,15/0,15	38	0,26/0,26	0,48	PASS					
SGG CLIMATOP ULTRA N	Argon	8/18/6/18/8	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	8/18/6/18/8	NPD	NPD	0,5	68	0,15/0,15	38	0,26/0,26	0,48	PASS					
SGG CLIMATOP ULTRA N	Argon	5/12/5/12/5	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	5/12/5/12/5	NPD	NPD	0,72	69,50	0,14/0,14	39,60	0,26/0,26	0,49	PASS					
SGG CLIMATOP ULTRA N	Luft	4/10/4/10/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	4/10/4/10/4	NPD	NPD	1,4	73	0,18/0,18	48	0,29/0,27	0,54	PASS					
SGG CLIMATOP ULTRA N	Argon	6/12/6/12/6	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	6/12/6/12/6	NPD	NPD	0,76	68,30	0,15/0,15	37,00	0,24/0,24	0,48	PASS					
SGG CLIMATOP ULTRA N	Argon	6/12/6/12/6	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	6/12/6/12/6	NPD	NPD	0,7	69	0,15/0,15	39	0,28/0,28	0,49	PASS					
SGG CLIMATOP ULTRA N SWS	Argon	4/18/4/18/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	4/18/4/18/4	NPD	NPD	0,5	71	0,14/0,14	41	0,28/0,28	0,50	PASS					
SGG CLIMATOP ULTRA N SWS	Argon	4/14/4/14/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	4/14/4/14/4	NPD	NPD	0,6	71	0,15/0,15	42	0,31/0,31	0,50	PASS					
SGG CLIMATOP ULTRA N SWS	Argon	4/16/4/16/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	4/16/4/16/4	32(-2;-5)	NPD	0,6	71	0,15/0,15	42	0,31/0,31	0,50	PASS					
SGG CLIMATOP ULTRA N SWS	Argon	4/12/4/12/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	4/12/4/12/4	31 (-1;-5)	NPD	0,7	71	0,15/0,15	42	0,31/0,31	0,50	PASS					
SGG CLIMATOP ULTRA N PROTECT	Argon	33,2/14/4/16/4	NPD	NPD	NPD	NPD	NPD	P1A/NPD	1B1/NPD/NPD	40K/40K/40K	7/14/4/16/4	NPD	NPD	0,61	69,50	0,14/0,14	38,30	0,22/0,28	0,46	PASS				
SGG CLIMATOP ULTRA N PROTECT	Argon	33,2/12/4/14/4	NPD	NPD	NPD	NPD	NPD	P1A/NPD	1B1/NPD/NPD	40K/40K/40K	7/12/4/14/4	NPD	NPD	0,68	69,50	0,14/0,14	38,30	0,22/0,28	0,46	PASS				
SGG CLIMATOP ULTRA N PROTECT	Argon	44,2/12/4/12/6	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40 K	9/12/4/12/6	NPD	NPD	0,7	69	0,15/0,15	38	0,22/0,28	0,46	PASS					
SGG CLIMATOP ULTRA N PROTECT	Argon	33,2/18/4/18/33,2	NPD	NPD	NPD	NPD	NPD	P1A/NPD/P1A	1B1/NPD/1B1	40K/40K/40 K	7/18/4/18/7	NPD	NPD	0,5	69	0,15/0,15	38	0,24/0,24	0,47	PASS				
SGG CLIMATOP ULTRA N PROTECT	Argon	44,2/12/4/12/33,1	NPD	NPD	NPD	NPD	NPD	P1A/NPD/NPD	1B1/NPD/2B2	40K/40K/40K	9/12/4/12/6	NPD	NPD	0,7	68	0,15/0,15	37	0,22/0,25	0,46	PASS				
SGG CLIMATOP ULTRA N SAFE	Argon	4/12/4/12/44,1	NPD	NPD	NPD	NPD	NPD	NPD	NPD/NPD/2B2	40K/40K/40K	4/12/4/12/8	NPD	NPD	1,0	71	0,17/0,18	44	0,29/0,21	0,53	PASS				
SGG CLIMATOP ULTRA N SAFE	Argon	33,1/10/4/10/44,1	NPD	NPD	NPD	NPD	NPD	NPD	2B2/NPD/2B2	40K/40K/40K	6/10/4/10/8	NPD	NPD	10,8	69	0,15/0,15	38	0,25/0,24	0,47	PASS				
SGG CLIMATOP ULTRA N DIAMANT	Argon	4/12/4/12/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	4/12/4/12/4	NPD	NPD	0,72	73,30	0,14/0,14	45,90	0,34/0,34	0,53	PASS					
SGG CLIMATOP ULTRA N SILENCE 44/47	Argon	44,1 Si/12/4/12/44,1 Si	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40 K	8/12/4/12/8	47(-2;-6)	NPD	0,72	67,10	0,13/0,13	35,30	0,20/0,20	0,45	PASS					
SGG CLIMATOP ULTRA N SILENCE 44/47 PROTECT	Argon	44,2 Si/12/4/12/44,2 Si	NPD	NPD	NPD	NPD	NPD	NPD	1B1/NPD/1B1	40K/40K/40K	9/12/4/12/9	47(-2;-6)	NPD	0,70	67	0,13/0,13	35	0,19/0,19	0,45	PASS				
SGG CLIMATOP ULTRA N SILENCE 48/46	Argon	10/12/6/12/44,1 Si	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	10/12/6/12/8	46(-2;-6)	NPD	0,71	66,60	0,13/0,13	34,90	0,22/0,20	0,47	PASS					
SGG CLIMATOP ULTRA N SILENCE 50/50	Argon	66,1 Si/12/6/12/44,1 Si	NPD	NPD	NPD	NPD	NPD	NPD	2B2/NPD/2B2	40K/40K/40K	12/12/6/12/8	50(-2;-6)	NPD	0,71	65,50	0,13/0,13	33,50	0,18/0,20	0,44	PASS				
SGG CLIMATOP ULTRA N ACOUSTIC 42/38	Krypton	8/12/4/12/6	NPD	NPD	NPD	NPD	NPD	NPD	NPD/NPD/2B2	40K/40K/40K	8/12/4/12/6	38(-1;-3)	NPD	0,49	68,30	0,14/0,14	38,00	0,23/0,25	0,47	PASS				
SGG CLIMATOP ULTRA N SILENCE 44/45	Krypton	8/12/4/12/8	NPD	NPD	NPD	NPD	NPD	NPD	NPD/NPD/2B2	40K/40K/40K	8/12/4/12/8	45(-2;-6)	NPD	0,49	67,30	0,13/0,13	35,80	0,23/0,20	0,47	PASS				
SGG CLIMATOP ULTRA N ACOUSTIC 38/36	Argon	6/12/4/12/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	6/12/4/12/4	36(-1;-5)	NPD	0,72	69,90	0,14/0,14	40,20	0,25/0,28	0,49	PASS					
SGG CLIMATOP ULTRA N ACOUSTIC 40/37	Argon	8/12/4/12/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	8/12/4/12/4	37(-1;-5)	NPD	0,72	69,10	0,14/0,14	39,10	0,23/0,28	0,47	PASS					
SGG CLIMATOP ULTRA N ACOUSTIC 40/38	Argon	44,1/12/4/12/4	NPD	NPD	NPD	NPD	NPD	NPD	2B2/NPD/NPD	40K/40K/40K	9/12/4/12/4	37 (-1;-5)	NPD	0,72	68,90	0,14/0,14	37,80	0,21/0,28	0,46	PASS				
SGG CLIMATOP ULTRA N ACOUSTIC 40/38	Argon	44,2/12/4/12/4	NPD	NPD	NPD	NPD	NPD	P2A/NPD/NPD	1B1/NPD/NPD	40K/40K/40K	9/12/4/12/4	37 (-2;-6)	NPD	0,72	68,70	0,14/0,14	37,30	0,19/0,28	0,45	PASS				
SGG CLIMATOP ULTRA N SILENCE 40/38	Argon	44,1 Si/12/4/12/4	NPD	NPD	NPD	NPD	NPD	NPD	2B2/NPD/NPD	40K/40K/40K	9/12/4/12/4	38 (-1;-5)	NPD	0,72	68,90	0,14/0,13	37,80	0,20/0,28	0,48	PASS				
SGG CLIMATOP ULTRA N ACOUSTIC 42/39	Argon	8/12/4/12/6	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	8/12/4/12/6	39(-1;-4)	NPD	0,72	68,30	0,14/0,14	38,00	0,23/0,25	0,47	PASS					
SGG CLIMATOP ULTRA N ACOUSTIC 44/40	Argon	10/12/4/12/6	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	10/12/4/12/6	40(-1;-3)	NPD	0,72	68,40	0,14/0,14	38,00	0,23/0,25	0,47	PASS					
SGG CLIMATOP ULTRA N SILENCE 42/42	Argon	6/12/4/12/44,1 Si	NPD	NPD	NPD	NPD	NPD	NPD	NPD/NPD/2B2	40K/40K/40K	6/12/4/12/8	42(-1;-5)	NPD	0,72	68,10	0,14/0,13	36,80	0,25/0,21	0,49	PASS				
SGG CLIMATOP ULTRA N SILENCE 44/45	Argon	8/12/4/12/44,1 Si	NPD	NPD	NPD	NPD	NPD	NPD	NPD/NPD/2B2	40K/40K/40K	8/12/4/12/8	45(-2;-6)	NPD	0,72	67,30	0,13/0,13	35,80	0,23/0,20	0,47	PASS				
SGG CLIMATOP ULTRA N SILENCE 42/42 PROTECT	Argon	6/12/4/12/44,2 Si	NPD	NPD	NPD	NPD	NPD	NPD	NPD/NPD/1B1	40K/40K/40K	6/12/4/12/9	42(-1;-5)	NPD	0,7	68	0,14/0,13	36	0,25/0,19	0,48	PASS				
SGG CLIMATOP ULTRA N SILENCE NPD PROTECT	Argon	6/16/6/24/66,2 Si	NPD	NPD	NPD	NPD	NPD	NPD/NPD/P2A	NPD/NPD/1B1	40K/40K/40K	6/16/6/24/13	NPD	NPD	0,6	67	0,15/0,15	35	0,28/0,19	0,49	PASS				
SGG CLIMATOP ULTRA N SILENCE NPD PROTECT	Argon	8/16/6/16/66,2 Si	NPD	NPD	NPD	NPD	NPD	NPD/NPD/P2A	NPD/NPD/1B1	40K/40K/40K	8/16/6/16/13	NPD	NPD	0,6	66	0,15/0,14	35	0,26/0,19	0,48	PASS				
SGG CLIMATOP ONE	Argon	4/16/4/16/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	4/16/4/16/4	34(-2;-5)	NPD	0,53	58	0,31/0,31	31	0,43/0,43	0,37	PASS					
SGG CLIMATOP ONE	Argon	4/12/4/12/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	4/12/4/12/4	31(-1;-5)	NPD	0,67	58	0,31/0,31	31	0,43/0,43	0,37	PASS					
SGG CLIMATOP ONE	Krypton	4/12/4/12/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	4/12/4/12/4	31(-1;-5)	NPD	0,44	58	0,31/0,31	31	0,43/0,43	0,37	PASS					
SGG CLIMATOP ONE	Krypton	4/10/4/10/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	4/10/4/10/4	NPD	NPD	0,51	58	0,31/0,31	31	0,43/0,43	0,37	PASS					

 EN 1279-5:2006+A2:2010		Thermoglas Niederrhein GmbH Am Wasserturm 5, D-47906 Kempen										 								
		Leistungserklärung Verwendungszweck: Isolierglas zur Verwendung in Gebäuden und Bauwerken																		
Wesentliche Merkmale	Aufbau	Außen/Mitte/Innen	Feuerwiderstand	Brandverhalten	Beschuss-hemmung	Sprengwirkung-hemmung	Durchbruch-hemmung	Widerstand gegen Pendelschlag	Widerstand gg. Plötl. Temperaturwechsel und gradienten (K)	Widerstand gg. Wind-Schnee, Dauerhafte und kurzfristiger Lasten.	Luftschalldämmung(dB)	Deklarierte Emittivität	Ug-Wert (W/m²K)	Lichttransmission	Lichtreflektion	Energie-transmission	Energie-reflektion	g-Wert	Dauerhaftigkeit	
																				1
AVCP systems																				
SGG CLIMATOP ULTRA N BIOCLEAR	Argon	4/12/4/12/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40 K	4/12/4/12/4	NPD	NPD	0,73	68,80	0,17/0,16	40,50	0,32/0,29	0,49	PASS	
SGG CLIMATOP ULTRA N BIOCLEAR	Argon	6/12/4/12/4	NPD	NPD	NPD	NPD	NPD	NPD/NPD/2B2	40K/40K/40 K	6/12/4/12/4	36(-1;-5)	NPD	0,73	68,00	0,16/0,16	39,30	0,29/0,29	0,48	PASS	
SGG CLIMATOP ULTRA N BIOCLEAR PROTECT	Argon	44.2/10/4/10/44.2	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40 K	9/10/4/10/9	NPD	NPD	0,84	64,8	0,16/0,15	33,8	0,23/0,20	0,44	PASS	
SGG CLIMATOP ULTRA N BIOCLEAR PROTECT	Argon	44.2/12/4/12/44.2	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40 K	9/12/4/12/9	NPD	NPD	0,73	64,8	0,16/0,15	33,8	0,23/0,20	0,44	PASS	
SGG CLIMATOP ULTRA N BIOCLEAR PROTECT	Argon	44.2/14/4/14/44.2	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40 K	9/14/4/14/9	NPD	NPD	0,65	64,8	0,16/0,15	33,8	0,23/0,20	0,44	PASS	
SGG CLIMATOP ULTRA N BIOCLEAR PROTECT	Argon	44.2/16/4/16/44.2	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40 K	9/16/4/16/9	NPD	NPD	0,59	64,8	0,16/0,15	33,8	0,23/0,20	0,44	PASS	
SGG CLIMATOP ULTRA N BIOCLEAR PROTECT	Argon	4/10/4/10/44.2	NPD	NPD	NPD	NPD	NPD/NPD/P2A	NPD/NPD/1B1	40K/40K/40 K	4/10/4/10/9	NPD	NPD	1,15	67,90	0,19/0,19	40,30	0,30/0,18	0,52	PASS	
SGG CLIMATOP ULTRA N BIOCLEAR PROTECT	Argon	4/12/4/12/44.2	NPD	NPD	NPD	NPD	NPD/NPD/P2A	NPD/NPD/1B1	40K/40K/40 K	4/12/4/12/9	NPD	NPD	1,03	67,90	0,19/0,19	40,30	0,30/0,18	0,52	PASS	
SGG CLIMATOP ULTRA N BIOCLEAR SILENCE	Argon	4/10/4/10/44.1 Si	NPD	NPD	NPD	NPD	NPD/NPD/P2A	NPD/NPD/1B1	40K/40K/40 K	4/10/4/10/8	NPD	NPD	1,15	68,20	0,19/0,19	40,90	0,30/0,19	0,52	PASS	
SGG CLIMATOP ULTRA N BIOCLEAR SILENCE	Argon	4/12/4/12/44.1 Si	NPD	NPD	NPD	NPD	NPD/NPD/P2A	NPD/NPD/1B1	40K/40K/40 K	4/12/4/12/8	NPD	NPD	1,03	68,20	0,19/0,19	40,90	0,30/0,19	0,52	PASS	
SGG CLIMATOP PLANISTAR PROTECT	Argon	66.2/12/5/12/66.2	NPD	NPD	NPD	NPD	NPD	P2A/NPD/1B1	40K/40K/40 K	13/12/5/12/13	NPD	NPD	0,7	53	0,26/0,23	26	0,28/0,24	0,33	PASS	
SGG CLIMATOP PLANISTAR BIOCLEAR	Argon	4/10/4/10/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40 K	4/10/4/10/4	NPD	NPD	0,84	61,40	0,17/0,17	31,40	0,38/0,31	0,37	PASS	
SGG CLIMATOP PLANISTAR BIOCLEAR	Argon	4/12/4/12/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40 K	4/12/4/12/4	NPD	NPD	0,73	61,40	0,17/0,17	31,40	0,38/0,31	0,37	PASS	
SGG CLIMATOP PLANISTAR BIOCLEAR	Argon	4/14/4/14/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40 K	4/14/4/14/4	NPD	NPD	0,64	61,40	0,17/0,17	31,40	0,38/0,31	0,37	PASS	
SGG CLIMATOP PLANISTAR BIOCLEAR	Argon	4/16/4/16/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40 K	4/16/4/16/4	35(-1;-6)	NPD	0,59	61,40	0,17/0,17	31,40	0,38/0,31	0,37	PASS	
SGG CLIMATOP PLANISTAR BIOCLEAR PROTECT	Argon	4/10/4/10/44.2	NPD	NPD	NPD	NPD	NPD/NPD/P2A	NPD/NPD/1B1	40K/40K/40 K	4/10/4/10/9	NPD	NPD	0,84	59,60	0,17/0,16	29,10	0,38/0,21	0,37	PASS	
SGG CLIMATOP PLANISTAR BIOCLEAR PROTECT	Argon	4/12/4/12/44.2	NPD	NPD	NPD	NPD	NPD/NPD/P2A	NPD/NPD/1B1	40K/40K/40 K	4/12/4/12/9	NPD	NPD	0,73	59,60	0,17/0,16	29,10	0,38/0,21	0,37	PASS	
SGG CLIMATOP PLANISTAR BIOCLEAR SILENCE	Argon	4/10/4/10/44.1 Si	NPD	NPD	NPD	NPD	NPD	NPD/NPD/2B2	40K/40K/40 K	4/10/4/10/8	NPD	NPD	0,84	59,80	0,17/0,16	29,40	0,38/0,23	0,37	PASS	
SGG CLIMATOP PLANISTAR BIOCLEAR SILENCE	Argon	4/12/4/12/44.1 Si	NPD	NPD	NPD	NPD	NPD	NPD/NPD/2B2	40K/40K/40 K	4/12/4/12/8	NPD	NPD	0,73	59,80	0,17/0,16	29,40	0,38/0,23	0,37	PASS	
SGG CLIMATOP PLANISTAR BIOCLEAR	Argon	6/10/4/10/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40 K	6/10/4/10/4	NPD	NPD	0,84	60,70	0,17/0,17	30,70	0,34/0,31	0,36	PASS	
SGG CLIMATOP PLANISTAR BIOCLEAR	Argon	6/12/4/12/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40 K	6/12/4/12/4	36(-1;-5)	NPD	0,73	60,70	0,17/0,17	30,70	0,34/0,31	0,36	PASS	
SGG CLIMATOP PLANISTAR BIOCLEAR	Argon	6/14/4/14/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40 K	6/14/4/14/4	NPD	NPD	0,64	60,70	0,17/0,17	30,70	0,34/0,31	0,36	PASS	
SGG CLIMATOP MAX	Krypton	4/10/4/10/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	4/10/4/10/4	NPD	NPD	0,58	74,50	0,15/0,15	54,40	0,27/0,27	0,60	PASS	
SGG CLIMATOP MAX	Krypton	4/12/4/12/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	4/12/4/12/4	NPD	NPD	0,51	74,50	0,15/0,15	54,40	0,27/0,27	0,60	PASS	
SGG CLIMATOP MAX	Argon	4/10/4/10/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	4/10/4/10/4	NPD	NPD	0,9	74	0,15/0,15	53	0,27/0,27	0,60	PASS	
SGG CLIMATOP MAX	Argon	4/12/4/12/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	4/12/4/12/4	NPD	NPD	0,73	74	0,15/0,15	53	0,27/0,27	0,60	PASS	
SGG CLIMATOP MAX	Argon	4/14/4/14/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	4/14/4/14/4	NPD	NPD	0,7	74	0,15/0,15	53	0,27/0,27	0,60	PASS	
SGG CLIMATOP MAX	Argon	4/16/4/16/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	4/16/4/16/4	NPD	NPD	0,6	74	0,15/0,15	53	0,27/0,27	0,60	PASS	
SGG CLIMATOP LUX	Argon	4/12/4/12/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	4/12/4/12/4	31(-1;-5)	NPD	0,8	73	0,17/0,17	53	0,20/0,20	0,62	PASS	
SGG CLIMATOP LUX	Argon	4/14/4/14/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	4/14/4/14/4	NPD	NPD	0,7	73	0,17/0,17	53	0,20/0,20	0,62	PASS	
SGG CLIMATOP LUX	Argon	6/14/6/14/6	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	6/14/6/14/6	NPD	NPD	0,7	71	0,16/0,16	49	0,19/0,19	0,60	PASS	
SGG CLIMATOP LUX	Argon	6/14/6/14/6	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	6/14/6/14/6	32(-2;-5)	NPD	0,7	73	0,17/0,17	53	0,20/0,20	0,62	PASS	
SGG CLIMATOP LUX	Argon	6/16/4/16/6	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	6/16/4/16/6	NPD	NPD	0,7	72	0,17/0,17	50	0,19/0,19	0,60	PASS	
SGG CLIMATOP LUX	Argon	8/15/4/15/6	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	8/15/4/15/6	NPD	NPD	0,7	71	0,16/0,16	49	0,18/0,19	0,58	PASS	
SGG CLIMATOP LUX SWS	Argon	4/14/4/14/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	4/14/4/14/4	NPD	NPD	0,7	73	0,17/0,17	53	0,20/0,20	0,62	PASS	
SGG CLIMATOP LUX PROTECT	Argon	33.1/16/4/16/44.2	NPD	NPD	NPD	NPD	NPD/NPD/P1A	2B2/NPD/1B1	40K/40K/40K	6/16/4/16/9	NPD	NPD	0,7	70	0,16/0,16	46	0,17/0,15	0,58	PASS	
SGG CLIMATOP XN	Argon	4/10/4/10/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	4/10/4/10/4	27(-1;-3)	NPD	0,8	74,50	0,16/0,16	48,00	0,33/0,33	0,54	PASS	
SGG CLIMATOP XN	Argon	4/12/4/12/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	4/12/4/12/4	31(-1;-5)	NPD	0,7	74,50	0,16/0,16	48,00	0,33/0,33	0,54	PASS	
SGG CLIMATOP XN	Argon	4/14/4/14/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	4/14/4/14/4	28(-1;-5)	NPD	0,6	74,50	0,16/0,16	48,00	0,33/0,33	0,54	PASS	
SGG CLIMATOP XN	Argon	4/15/4/15/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	4/15/4/15/4	29(-1;-5)	NPD	0,6	74,50	0,16/0,16	48,00	0,33/0,33	0,54	PASS	
SGG CLIMATOP XN	Argon	4/16/4/16/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	4/16/4/16/4	30(-2;-6)	NPD	0,6	74,50	0,16/0,16	48,00	0,33/0,33	0,54	PASS	
SGG CLIMATOP XN	Argon	6/12/4/12/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	6/12/4/12/4	36(-1;-5)	NPD	0,7	74,00	0,16/0,16	47,20	0,31/0,33	0,53	PASS	
SGG CLIMATOP XN	Argon	6/12/6/12/6	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	6/12/6/12/6	31(-2;-5)	NPD	0,7	73,00	0,16/0,16	45,50	0,31/0,31	0,53	PASS	
SGG CLIMATOP XN	Argon	8/12/4/12/4	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	8/12/4/12/4	35(-2;-6)	NPD	0,7	73,50	0,16/0,16	46,40	0,30/0,33	0,52	PASS	
SGG CLIMATOP XN	Argon	8/12/4/12/6	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	8/12/4/12/6	39(-1;-5)	NPD	0,7	73,00	0,16/0,16	45,60	0,30/0,31	0,52	PASS	
SGG CLIMATOP XN	Argon	8/16/6/16/6	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	8/16/6/16/6	37(-2;-5)	NPD	0,6	72,60	0,16/0,16	44,80	0,29/0,31	0,52	PASS	
SGG CLIMATOP XN SAFE	Argon	44.1/12/4/12/4	NPD	NPD	NPD	NPD	NPD	2B2/NPD/NPD	40K/40K/40K	9/12/4/12/4	35(-1;-5)	NPD	0,7	73,30	0,16/0,16	44,80	0,26/0,33	0,50	PASS	
SGG CLIMATOP XN SAFE	Argon	44.1/12/4/12/33.1	NPD	NPD	NPD	NPD	NPD	2B2/NPD/2B2	40K/40K/40K	8/12/4/12/6	37(-2;-6)	NPD	0,7	72,60	0,16/0,16	43,40	0,26/0,28	0,50	PASS	
SGG CLIMATOP XN PROTECT	Argon	44.2/12/4/12/4	NPD	NPD	NPD	NPD	NPD	P2A/NPD/NPD	40K/40K/40K	9/12/4/12/4	36(-2;-6)	NPD	0,7	73,10	0,16/0,16	44,20	0,25/0,33	0,50	PASS	
SGG CLIMATOP XN PROTECT	Argon	44.2/12/4/12/6	NPD	NPD	NPD	NPD	NPD	NPD	40K/40K/40K	9/12/4/12/6	39(-1;-4)	NPD	0,7	72,60	0,16/0,16	43,50	0,25/0,31	0,50	PASS	
SGG CLIMATOP XN PROTECT	Argon	44.2/12/4/12/33.1	NPD	NPD	NPD	NPD	NPD	P2A/NPD/NPD	40K/40K/40K	9/12/4/12/6	31(-1;-4)	NPD	0,7	72,40	0,16/0,16	43,00	0,25/0,28	0,50	PASS	
SGG CLIMATOP XN SILENCE 40/38	Argon	4/12/4/12/44.1 Si	NPD	NPD	NPD	NPD	NPD	NPD/NPD/2B2	40K/40K/40K											



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Leistungserklärung

Thermoglas Niederrhein GmbH
Am Wasserturm 5, D-47906 Kempen

Verwendungszweck: Isolierglas zur Verwendung in Gebäuden und Bauwerken

Wesentliche Merkmale	Aufbau	Außen/Mitte/Innen	Feuerwiderstand	Brandverhalten	Beschuss-hemmung	Sprengwirkungshemmung	Durchbruch-hemmung	Widerstand gegen Pendelschlag	Widerstand gg. Plötzl. Temperaturwechsel und gradienten (K)	Widerstand gg. Wind-Schnee, Dauerhafte und kurzfristiger Lasten.	Luftschalldämmung (dB)	Deklarierte Emissivität	Ug-Wert (W/m²K)	Lichttransmission	Lichtreflektion	Energie-Transmission	Energie-reflektion	g-Wert	Dauerhaftigkeit		
																				1	3, 4
AVCP systems																					
SGG CLIMATOP SECURIT ULTRA N II	Argon	4/10/4/10/4	NPD	NPD	NPD	NPD	NPD	NPD	1C3/NPD/1C3	200K/40K/200K	4/10/4/10/4	NPD	NPD	0,8	71	0,15/0,15	42	0,31/0,31	0,50	PASS	
SGG CLIMATOP SECURIT ULTRA N II	Argon	12/18/10/18/10	NPD	NPD	NPD	NPD	NPD	NPD	1C1/1C1/1C1	200K/200K/200K	12/18/10/18/10	NPD	NPD	0,5	65	0,14/0,14	33	0,21/0,23	0,46	PASS	
SGG CLIMATOP SECURIT ULTRA N II	Argon	10/18/6/18/8	NPD	NPD	NPD	NPD	NPD	NPD	1C1/1C2/1C2	200K/200K/200K	10/18/6/18/8	NPD	NPD	0,5	67	0,15/0,15	37	0,23/0,26	0,46	PASS	
SGG CLIMATOP SECURIT ULTRA N II	Argon	10/16/6/14/8	NPD	NPD	NPD	NPD	NPD	NPD	1C1/1C2/1C2	200K/200K/200K	10/16/6/14/8	NPD	NPD	0,6	67	0,15/0,15	37	0,23/0,26	0,49	PASS	
SGG CLIMATOP SECURIT ULTRA N II	Argon	8/18/8/18/8	NPD	NPD	NPD	NPD	NPD	NPD	1C2/1C2/1C2	200K/200K/200K	8/18/8/18/8	NPD	NPD	0,5	67	0,15/0,15	37	0,25/0,25	0,47	PASS	
SGG CLIMATOP SECURIT ULTRA N II	Argon	12/14/6/14/8	NPD	NPD	NPD	NPD	NPD	NPD	1C1/1C2/1C2	200K/200K/200K	12/14/6/14/8	NPD	NPD	0,6	66	0,14/0,15	36	0,21/0,26	0,47	PASS	
SGG CLIMATOP SECURIT ULTRA N II	Argon	10/16/6/14/8	NPD	NPD	NPD	NPD	NPD	NPD	1C1/1C2/1C2	200K/200K/200K	10/16/6/14/8	NPD	NPD	0,6	67	0,15/0,15	37	0,23/0,26	0,46	PASS	
SGG CLIMATOP SECURIT ULTRA N II	Argon	8/14/8/14/8	NPD	NPD	NPD	NPD	NPD	NPD	1C2/1C2/1C2	200K/200K/200K	8/14/8/14/8	NPD	NPD	0,6	67	0,15/0,15	37	0,25/0,25	0,47	PASS	
SGG CLIMATOP SECURIT ULTRA N II	Argon	8/14/6/14/8	NPD	NPD	NPD	NPD	NPD	NPD	1C2/1C2/1C2	200K/200K/200K	8/14/6/14/8	NPD	NPD	0,6	68	0,15/0,15	38	0,26/0,26	0,48	PASS	
SGG CLIMATOP SECURIT ULTRA N II	Argon	8/16/6/16/8	NPD	NPD	NPD	NPD	NPD	NPD	1C2/1C2/1C2	200K/200K/200K	8/16/6/16/8	NPD	NPD	0,6	68	0,15/0,15	38	0,26/0,26	0,48	PASS	
SGG CLIMATOP SECURIT ULTRA N II	Argon	8/18/6/16/6	NPD	NPD	NPD	NPD	NPD	NPD	1C2/1C2/1C2	200K/200K/200K	8/18/6/16/6	NPD	NPD	0,5	68	0,15/0,15	38	0,26/0,26	0,48	PASS	
SGG CLIMATOP SECURIT ULTRA N II	Argon	6/18/6/18/6	NPD	NPD	NPD	NPD	NPD	NPD	1C2/1C2/1C2	200K/200K/200K	6/18/6/18/6	NPD	NPD	0,5	69	0,15/0,15	39	0,28/0,28	0,49	PASS	
SGG CLIMATOP SECURIT ULTRA N II	Argon	6/16/6/16/6	NPD	NPD	NPD	NPD	NPD	NPD	1C2/1C2/1C2	200K/200K/200K	6/16/6/16/6	NPD	NPD	0,6	69	0,15/0,15	39	0,28/0,28	0,49	PASS	
SGG CLIMATOP SECURIT ULTRA N II PROTECT	Argon	44.2/16/4/14/6	NPD	NPD	NPD	NPD	NPD	NPD	P2A/NPD/NPD	40K/40K/200K	9/16/4/14/6	NPD	NPD	0,6	69	0,15/0,15	38	0,22/0,28	0,46	PASS	
SGG CLIMATOP SECURIT ULTRA N II PROTECT	Argon	44.2/12/6/12/6	NPD	NPD	NPD	NPD	NPD	NPD	P2A/NPD/NPD	1B1/NPD/1C2	40K/40K/200K	9/12/6/12/6	NPD	NPD	0,7	68	0,15/0,15	37	0,22/0,28	0,45	PASS
SGG CLIMATOP SECURIT ULTRA N II PROTECT	Argon	44.2/12/4/12/4	NPD	NPD	NPD	NPD	NPD	NPD	P2A/NPD/NPD	1B1/NPD/1C2	40K/40K/200K	9/12/4/12/4	NPD	NPD	0,7	69	0,15/0,15	39	0,22/0,31	0,46	PASS
SGG CLIMATOP SECURIT ULTRA N II PROTECT	Argon	44.2/14/6/14/8	NPD	NPD	NPD	NPD	NPD	NPD	P2A/NPD/NPD	1B1/1C2/1C2	40K/200K/200K	9/14/6/14/8	NPD	NPD	0,6	67	0,15/0,15	36	0,22/0,26	0,45	PASS
SGG CLIMATOP SECURIT ULTRA N II PROTECT	Argon	44.2/16/6/16/8	NPD	NPD	NPD	NPD	NPD	NPD	P2A/NPD/NPD	1B1/1C2/1C2	40K/200K/200K	9/16/6/16/8	NPD	NPD	0,6	67	0,15/0,15	36	0,22/0,26	0,45	PASS
SGG CLIMATOP SECURIT ULTRA N II PROTECT	Argon	44.2/18/6/18/8	NPD	NPD	NPD	NPD	NPD	NPD	P2A/NPD/NPD	1B1/1C2/1C2	40K/200K/200K	9/18/6/18/8	NPD	NPD	0,5	67	0,15/0,15	36	0,22/0,26	0,45	PASS
SGG CLIMATOP SECURIT ULTRA N II PROTECT	Argon	8/14/6/14/55.2	NPD	NPD	NPD	NPD	NPD	NPD/NPD/P2A	1C2/1C2/1B1	200K/200K/40K	8/14/6/14/11	NPD	NPD	0,6	67	0,15/0,15	35	0,26/0,20	0,50	PASS	
SGG CLIMATOP SECURIT ULTRA N II DIAMANT	Argon	6/10/6/10/6	NPD	NPD	NPD	NPD	NPD	NPD	1C2/1C2/1C2	200K/200K/200K	6/10/6/10/6	NPD	NPD	0,8	73	0,16/0,16	46	0,35/0,35	0,53	PASS	
SGG CLIMATOP SECURIT ULTRA N II DIAMANT	Argon	6/10/4/8/4	NPD	NPD	NPD	NPD	NPD	NPD	1C2/NPD/1C3	200K/40K/200K	6/10/4/8/4	NPD	NPD	0,9	73	0,16/0,16	47	0,35/0,36	0,53	PASS	
SGG CLIMATOP SECURIT ULTRA N II DIAMANT PROTECT	Argon	6/10/4/10/44.2	NPD	NPD	NPD	NPD	NPD	NPD/NPD/P2A	1C2/NPD/1B1	200K/40K/40K	6/10/4/10/9	NPD	NPD	0,8	72	0,16/0,15	43	0,35/0,26	0,52	PASS	
SGG CLIMATOP SECURIT ONE II PROTECT	Argon	44.2/12/6/12/6	NPD	NPD	NPD	NPD	NPD	NPD	P2A/NPD/NPD	1B1/NPD/1C2	40K/40K/200K	9/12/6/12/6	NPD	NPD	0,7	55	0,30/0,31	28	0,33/0,42	0,34	PASS
SGG CLIMATOP SECURIT ONE II PROTECT	Argon	44.2/16/4/14/6	NPD	NPD	NPD	NPD	NPD	NPD	P2A/NPD/NPD	1B1/NPD/1C2	40K/40K/200K	9/16/4/14/6	NPD	NPD	0,6	56	0,31/0,31	28	0,34/0,42	0,34	PASS
SGG CLIMATOP SECURIT MAX II	Argon	4/12/4/12/4	NPD	NPD	NPD	NPD	NPD	NPD	1C3/NPD/1C3	200K/40K/200K	4/12/4/12/4	NPD	NPD	0,74	74,3	0,15/0,15	53,7	0,28/0,28	0,60	PASS	
SGG CLIMATOP SECURIT MAX II	Krypton	4/12/4/12/4	NPD	NPD	NPD	NPD	NPD	NPD	1C3/NPD/1C3	200K/40K/200K	4/12/4/12/4	NPD	NPD	0,51	74,3	0,15/0,15	53,7	0,28/0,28	0,60	PASS	
SGG CLIMATOP SECURIT MAX II	Argon	4/10/4/10/4	NPD	NPD	NPD	NPD	NPD	NPD	1C3/NPD/1C3	200K/40K/200K	4/10/4/10/4	NPD	NPD	0,9	74,3	0,15/0,15	53,7	0,28/0,28	0,60	PASS	
SGG CLIMATOP SECURIT MAX II	Krypton	4/10/4/10/4	NPD	NPD	NPD	NPD	NPD	NPD	1C3/NPD/1C3	200K/40K/200K	4/10/4/10/4	NPD	NPD	0,58	74,3	0,15/0,15	53,7	0,28/0,28	0,60	PASS	
SGG CLIMATOP SECURIT MAX II	Argon	4/12/4/12/4	NPD	NPD	NPD	NPD	NPD	NPD	NPD/NPD/1C3	40K/40K/200K	4/12/4/12/4	NPD	NPD	0,74	74,1	0,15/0,15	54	0,27/0,28	0,60	PASS	
SGG CLIMATOP SECURIT MAX II	Krypton	4/12/4/12/4	NPD	NPD	NPD	NPD	NPD	NPD	NPD/NPD/1C3	40K/40K/200K	4/12/4/12/4	NPD	NPD	0,51	74,1	0,15/0,15	54	0,27/0,28	0,60	PASS	
SGG CLIMATOP SECURIT MAX II	Argon	4/10/4/10/4	NPD	NPD	NPD	NPD	NPD	NPD	NPD/NPD/1C3	40K/40K/200K	4/10/4/10/4	NPD	NPD	0,9	74,1	0,15/0,15	54	0,27/0,28	0,60	PASS	
SGG CLIMATOP SECURIT MAX II	Krypton	4/10/4/10/4	NPD	NPD	NPD	NPD	NPD	NPD	NPD/NPD/1C3	40K/40K/200K	4/10/4/10/4	NPD	NPD	0,59	74,1	0,15/0,15	54	0,27/0,28	0,60	PASS	
SGG CLIMATOP SECURIT MAX II	Argon	4/12/4/12/4	NPD	NPD	NPD	NPD	NPD	NPD	1C3/NPD/NPD	200K/40K/40K	4/12/4/12/4	NPD	NPD	0,74	74,1	0,15/0,15	54	0,28/0,27	0,60	PASS	
SGG CLIMATOP SECURIT MAX II	Krypton	4/12/4/12/4	NPD	NPD	NPD	NPD	NPD	NPD	1C3/NPD/NPD	200K/40K/40K	4/12/4/12/4	NPD	NPD	0,51	74,1	0,15/0,15	54	0,28/0,27	0,60	PASS	
SGG CLIMATOP SECURIT MAX II	Argon	4/10/4/10/4	NPD	NPD	NPD	NPD	NPD	NPD	1C3/NPD/NPD	200K/40K/40K	4/10/4/10/4	NPD	NPD	0,9	74,1	0,15/0,15	54	0,28/0,27	0,60	PASS	
SGG CLIMATOP SECURIT MAX II	Krypton	4/10/4/10/4	NPD	NPD	NPD	NPD	NPD	NPD	1C3/NPD/NPD	200K/40K/40K	4/10/4/10/4	NPD	NPD	0,58	74,1	0,15/0,15	54	0,28/0,27	0,60	PASS	
SGG CLIMATOP SECURIT COOL-LITE SKN174H PROTECT	Argon	8/12/6/12/44.4	NPD	NPD	NPD	NPD	NPD	NPD/NPD/P4A	1C2/1C2/1B1	200K/200K/40K	8/12/6/12/10	NPD	NPD	0,7	58	0,13/0,15	28	0,26/0,21	0,36	PASS	
SGG CLIMATOP SECURIT COOL-LITE SKN174H PROTECT	Argon	8/12/8/12/HN113-S	NPD	NPD	NPD/NPD/BRNPD	NPD/NPD/P4A	NPD/NPD/P4A	NPD/NPD/P4A	1C2/1C2/1B1	200K/200K/40K	8/12/8/12/14	NPD	NPD	0,7	57	0,13/0,14	27	0,26/0,18	NPD	PASS	
SGG CLIMATOP SECURIT COOL-LITE SKN165II	Argon	8/10/6/10/8	NPD	NPD	NPD	NPD	NPD	NPD	1C2/NPD/NPD	40K/40K	8/10/6/10/8	NPD	NPD	1,1	53	0,19/0,21	26	0,29/0,29	0,30	PASS	
SGG CLIMATOP SECURIT COOL-LITE SKN165 II PROTECT	Argon	8/12/6/12/BS 433-NS	NPD	NPD	NPD	NPD/NPD/ER4-NS	NPD	NPD	1C2/1C2/1B1	200K/200K/200K	8/12/6/12/33	NPD	NPD	0,9	46	0,17/0,16	19	0,28/0,12	0,29	PASS	
SGG CLIMATOP SECURIT COOL-LITE SKN165 II PROTECT	Argon	8/12/6/12/BS 110-S	NPD	NPD	NPD	NPD/NPD/ER1-S	NPD	NPD	1C2/1C2/1B1	200K/200K/40K	8/12/6/12/10	NPD	NPD	1,0	51	0,17/0,19	23	0,28/0,22	0,30	PASS	
SGG CLIMATOP SECURIT COOL-LITE SKN165 II PROTECT	Argon	8/12/6/12/BS 118-NS	NPD	NPD	NPD	NPD/NPD/ER1-NS	NPD/NPD/P5A	NPD/NPD/P5A	1C2/1C2/1B1	200K/200K/40K	8/12/6/12/18	NPD	NPD	1,0	49	0,17/0,18	21	0,28/0,17	0,29	PASS	
SGG CLIMATOP SECURIT XN II	Argon	6/16/6/16/6	NPD	NPD	NPD	NPD	NPD	NPD	1C2/1C2/1C2	200K/200K/200K	6/16/6/16/6	33 (-3-7)	NPD	0,6	73	0,16/0,16	45,8	0,31/0,31	0,53	PASS	
SGG CLIMATOP SECURIT XN II	Argon	8/14/6/14/8	NPD	NPD	NPD	NPD	NPD	NPD	1C2/1C2/1C2	200K/200K/200K	8/14/6/14/8	36 (-2-6)	NPD	0,6	72,1	0,16/0,16	44,4	0,29/0,29	0,52	PASS	
SGG CLIMATOP SECURIT XN II	Argon	8/16/6/16/8	NPD	NPD	NPD	NPD	NPD	NPD	1C2/1C2/1C2	200K/200K/200K	8/16/6/16/8	37 (-2-6)	NPD	0,6	72,1	0,16/0,16	44,4	0,29/0,29	0,52	PASS	
SGG CLIMATOP SECURIT XN II PROTECT	Argon	44.2/12/6/12/6	NPD	NPD	NPD	NPD	NPD	NPD	P2A/NPD/NPD	1B1/NPD/1C2	40K/40K/200K	9/12/6/12/6	37 (-2-5)	NPD	0,7	72,1	0,16/0,16	42,6	0,24/0,31	0,49	PASS
SGG CLIMATOP SECURIT XN II PROTECT	Argon	44.2/12/4/12/4	NPD	NPD	NPD	NPD	NPD	NPD	P2A/NPD/NPD	1B1/NPD/1C2	40K/40K/200K	9/12/4/12/4	36 (-2-6)	NPD	0,7	73,1	0,16/0,16	44,1	0,25/0,33	0,49	PASS
SGG CLIMATOP SECURIT XN II PROTECT	Argon	44.2/14/6/14/8	NPD	NPD</																	