



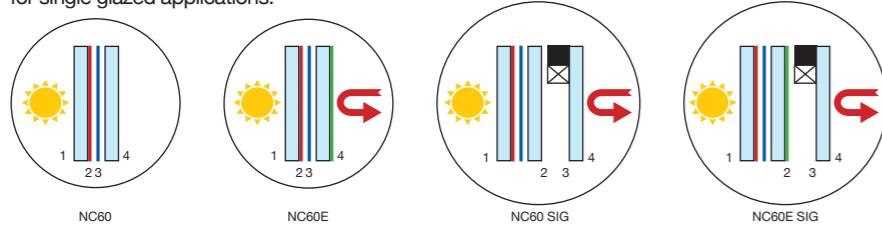
ENVIROSOL NC60 AND NC60E

Envirosol NC60 Solar Control laminated glass contains a metallic coating (applied by cathodic sputtering) on surface # 2 of the laminate and is therefore permanently protected within the glass sandwich. This, however, means that Envirosol NC60 is a "sided" product which must be installed in accordance with our instructions. External reflectance is light neutral grey with excellent transparency and colour rendering with no perceived alteration. Envirosol NC60E is a Low-E version in which a pyrolytic Low-E coating is located on surface # 4 of the laminate. Envirosol NC60 & NC60E are suitable for use in SIG Double Glazing where the Low-E coating is located on Surface # 2 of the unit when installed in typical South African conditions.

TINTS: Envirosol NC60 is available with a Grey PVB interlayer for single and double glazed applications. Envirosol NC60E is available with a Grey PVB interlayer and is recommended only for single glazed applications.



Citadel Building, Claremont, CPT. Architects: Robert Silke and Partners / Louis Karol.



APPLICATIONS	CHARACTERISTICS
COMMERCIAL ✓✓	LIGHT TRANSMISSION ✓✓✓✓
EDUCATIONAL ✓✓✓	GLARE CONTROL ✓
MEDICAL ✓✓	SOLAR CONTROL ✓✓
RESIDENTIAL ✓✓✓	APPEARANCE LIGHT NEUTRAL GREY
RETAIL ✓✓✓✓	UV LIGHT ELIMINATION 98%

PERFORMANCE DATA FOR SINGLE GLAZING				
DESCRIPTION	VLT %	L Rout %	SHGC	U-VALUE
NC60	63	10	0.60	5.2
NC60E	57	11	0.54	2.9
NC60 GREY	33	9	0.47	5.2
NC60E GREY	30	9	0.43	3.0

AVAILABILITY				
T (mm) NOMINAL	6	8	10	12
PVB (SABS 1263 1 & 2)	NS	HPR	HI	
MAX. STOCKSHEET (mm)	3660 x 2440			

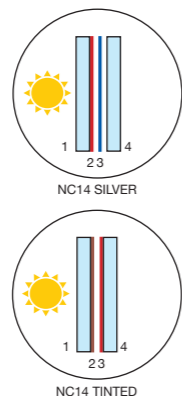
PERFORMANCE DATA FOR DOUBLE GLAZING WITH 12mm AIR-FILLED SPACE				
DESCRIPTION	VLT %	L Rout %	SHGC	U-VALUE
NC60	56	13	0.50	2.6
NC60E	51	14	0.43	2.0
NC60 GREY	29	10	0.36	2.6

NOTE: ALSO AVAILABLE IN FULLY TOUGHENED AND HEAT STRENGTHENED CONDITION

All data measured in accordance with ASHRAE/NFRC 100 (summer) 200 + 300 Boundary Conditions.



Table Bay Mall: skylight design by LH Consulting Engineers.



ENVIROSOL NC14 SILVER

Envirosol NC14 Silver high performance solar control laminated glass contains a dense nickel-chrome (NiCr) metallic coating (applied by cathodic sputtering) on surface # 2 of the laminate and is therefore permanently protected within the glass sandwich. This, however, means that Envirosol NC14 Silver is a "sided" product which must be installed in accordance with our instructions. External and Internal light reflectance are both bright silver which accounts for the excellent solar control characteristics of this product. Nevertheless, colour rendering remains very good when viewed from the Interior and with only moderate perceived alteration. Envirosol NC14 Silver can be used in structurally glazed applications with no "read-through" of the bonding sealants. Envirosol NC14 Silver is suitable for single and double glazing. Envirosol NC14 Silver is not available with Low-E. Envirosol NC14 Silver provides excellent one-way vision performance for high security and privacy applications.

TINTS: Envirosol NC14 Silver is also available with GREY and BRONZE PVB interlayers. Tinted NC14 is best installed with the tinted side facing the sun.

NOTE: ALSO AVAILABLE IN FULLY TOUGHENED AND HEAT STRENGTHENED CONDITION

APPLICATIONS	CHARACTERISTICS
COMMERCIAL ✓✓✓	LIGHT TRANSMISSION ✓
EDUCATIONAL ✓✓	GLARE CONTROL ✓✓✓
MEDICAL ✓✓✓	SOLAR CONTROL ✓✓✓✓
RESIDENTIAL ✓	APPEARANCE BRIGHT SILVER
RETAIL ✓✓✓✓	UV LIGHT ELIMINATION 99%
ONE WAY VISION/PRIVACY ✓✓✓✓	

PERFORMANCE DATA FOR SINGLE GLAZING					
DESCRIPTION	VLT %	L Rout %	L Rin %	SHGC	U-VALUE
NC14 SILVER # 2	16	35	31	0.29	5.22
NC14 GREY # 3	7	11	35	0.32	5.22
NC14 BRONZE # 3	9	14	35	0.32	5.22

All data measured in accordance with ASHRAE/NFRC 100 (summer) 200 + 300 Boundary Conditions.

AVAILABILITY				
T (mm) NOMINAL	6	8	10	12
PVB (SABS 1263 1 & 2)	NS	HPR	HI	
MAX. STOCKSHEET (mm)	3660 x 2440			

Affiliated to

Certified

BS EN 12150, 12600

Level 6 BBBEE Contributor

Valid SABS Certification

Standard Ref #	Category
SABS 1263 - 1 2006	NS, HPR
SABS 1263 - 2 2007	HI
SABS 1263 - 3 2007	BRG
SABS 1192 2005	Lam for vehicles
SABS 1193 2008	TSG for vehicles

OTBB166 June 2018

Compass Glass

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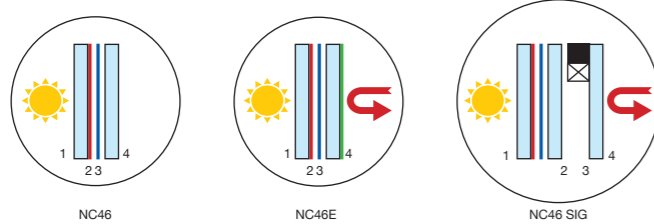
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Citadel Building, Claremont, CPT. Architects: Robert Silke and Partners / Louis Karol.



APPLICATIONS

COMMERCIAL	✓✓✓✓
EDUCATIONAL	✓✓✓✓
MEDICAL	✓✓✓✓
RESIDENTIAL	✓✓
RETAIL	✓

AVAILABILITY

T (mm) NOMINAL	6	8	10	12
PVB (SABS 1263 1 & 2)	NS		HPR	HI
MAX. STOCKSHEET (mm)	3660 x 2440			

PERFORMANCE DATA FOR SINGLE GLAZING

DESCRIPTION	VLT %	L Rout %	L Rin %	SHGC	U-VALUE
NC46	35	21	17	0.45	5.22
NC46E	32	21	20	0.36	2.86
NC46 GREY	16	20	7	0.38	5.22

All data measured in accordance with ASHRAE/NFRC 100 (summer) 200 + 300 Boundary Conditions.

ENVIROSOL NC46 AND NC46E

Envirosol NC46 Solar Control laminated glass contains a nickel-chrome (NiCr) metallic coating (applied by cathodic sputtering in a vacuum) on surface # 2 of the laminate and is therefore permanently protected within the glass sandwich. This, however, means that Envirosol NC46 is a "Sided" product which must be installed in accordance with our instructions. External reflectance is a subdued Neutral Grey and internal reflectance is soft grey. Excellent colour rendering is obtained with no perceived alteration. Envirosol NC46 can be used in structural silicone glazed applications with minimum "read-through" of the bonding sealants. NC46 is suitable for Single or Double Glazing. Envirosol NC46E is a Low-E version in which a Pyrolytic coating is located on surface # 4 of the laminate NC46E is not recommended for use in SIG Double Glazing due to excessive energy absorption and the unacceptable risk of thermal cracking.

TINTS: Envirosol NC46 is available with a Grey tinted PVB Interlayer but we do not offer NC46E Grey due to high thermal safety risk.

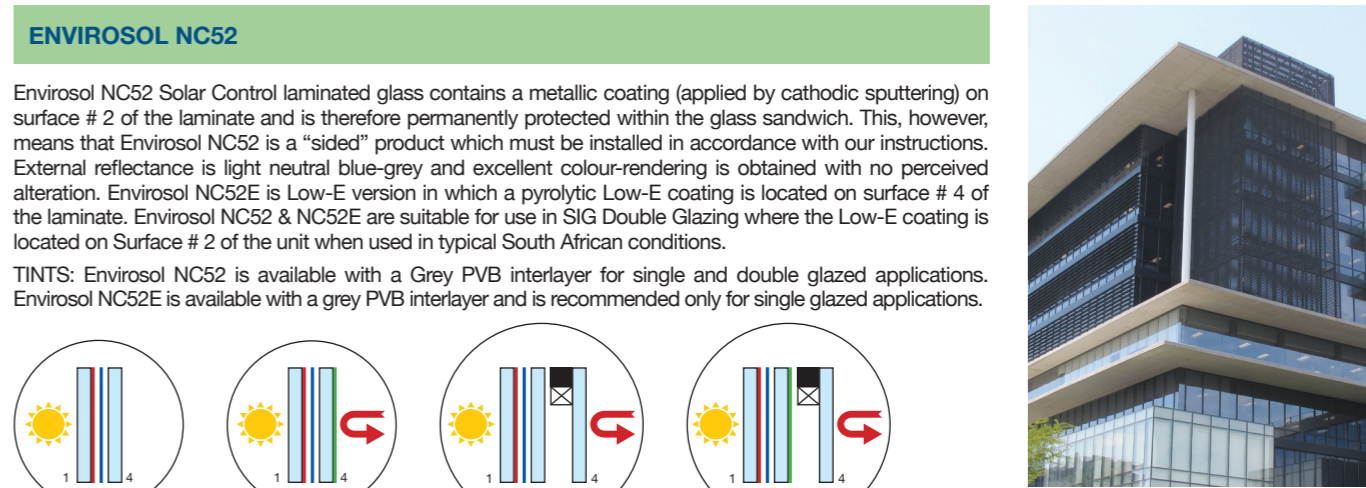
CHARACTERISTICS

LIGHT TRANSMISSION	✓✓
GLARE CONTROL	✓✓✓✓
SOLAR CONTROL	✓✓✓✓
APPEARANCE	NEUTRAL GREY REFLECTIVE
UV LIGHT ELIMINATION	99%

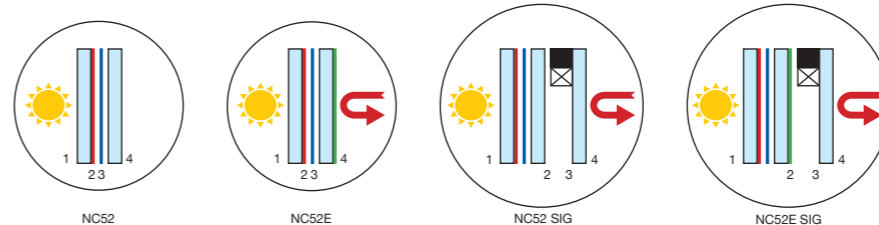
NOTE: ALSO AVAILABLE IN FULLY TOUGHENED AND HEAT STRENGTHENED CONDITION

PERFORMANCE DATA FOR DOUBLE GLAZING WITH 12mm AIR-FILLED SPACE

DESCRIPTION	VLT %	L Rout %	SHGC	U-VALUE
NC46 (OUTER)	32	22	0.35	2.8
NC46E	ON ENQUIRY			
NC46 GREY	ON ENQUIRY			



Santam Office, Tyger Valley, CPT. BAM Architects.



APPLICATIONS

COMMERCIAL	✓✓✓✓
EDUCATIONAL	✓✓✓✓
MEDICAL	✓✓✓✓
RESIDENTIAL	✓✓✓✓
RETAIL	✓✓

AVAILABILITY

T (mm) NOMINAL	6	8	10	12
PVB (SABS 1263 1 & 2)	NS		HPR	HI
MAX. STOCKSHEET (mm)	3660 x 2440			

PERFORMANCE DATA FOR SINGLE GLAZING

DESCRIPTION	VLT %	L Rout %	SHGC	U-VALUE
NC52	54	15	0.59	5.2
NC52E	50	16	0.49	2.9
NC52 GREY	26	14	0.48	5.2

All data measured in accordance with ASHRAE/NFRC 100 (summer) 200 + 300 Boundary Conditions.

CHARACTERISTICS

LIGHT TRANSMISSION	✓✓✓✓
GLARE CONTROL	✓✓
SOLAR CONTROL	✓✓
APPEARANCE	NEUTRAL BLUE-GREY
UV LIGHT ELIMINATION	98%

NOTE: ALSO AVAILABLE IN FULLY TOUGHENED AND HEAT STRENGTHENED CONDITION

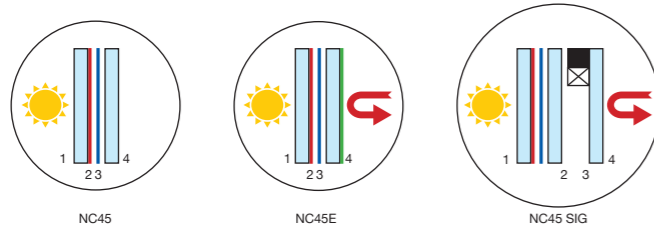
PERFORMANCE DATA FOR DOUBLE GLAZING WITH 12mm AIR-FILLED SPACE

DESCRIPTION	VLT %	L Rout %	SHGC	U-VALUE
NC52	49	18	0.49	2.8
NC52E	45	18	0.42	2.0
NC52 GREY	23	15	0.36	2.8

ENVIROSOL NC45 ADVANCED

Envirosol NC45 Advanced is a solar control laminated glass with a metallic coating applied on # 2 of the laminate. External reflectance is medium silver grey with excellent colour-rendering and no perceived alteration. Envirosol NC45 Advanced can be used in single glazed applications or as the outer pane of a SIG Unit.

Envirosol NC45 Advanced is also available with Grey PVB as well as a Low-E version, Envirosol NC45E Advanced, but both of these versions are not recommended for double glazing due to the high thermal safety risk.



APPLICATIONS

COMMERCIAL	✓✓✓✓
EDUCATIONAL	✓✓✓✓
MEDICAL	✓✓✓✓
RESIDENTIAL	✓✓
RETAIL	✓

AVAILABILITY

T (mm) NOMINAL	6	8	10	12
PVB (SABS 1263 1 & 2)			HPR	HI
MAX. STOCKSHEET (mm)	NS	3660	2440	

PERFORMANCE DATA FOR SINGLE GLAZING

DESCRIPTION	VLT %	L Rout %	SHGC	U-VALUE
NC45 ADV	43	19	0.52	5.22
NC45E ADV	40	19	0.42	2.86
NC45 GREY	20	18	0.43	5.22

All data measured in accordance with ASHRAE/NFRC 100 (summer) 200 + 300 Boundary Conditions.



FFG Head Office, Paarl.

CHARACTERISTICS

LIGHT TRANSMISSION	✓✓
GLARE CONTROL	✓✓✓✓
SOLAR CONTROL	✓✓✓✓
APPEARANCE	NEUTRAL GREY REFLECTIVE
UV LIGHT ELIMINATION	99%

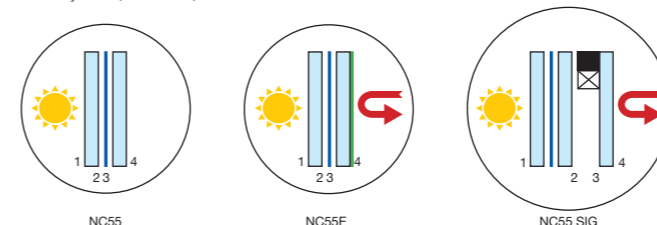
NOTE: ALSO AVAILABLE IN FULLY TOUGHENED AND HEAT STRENGTHENED CONDITION

PERFORMANCE DATA FOR DOUBLE GLAZING WITH 12mm AIR-FILLED SPACE

DESCRIPTION	VLT %	L Rout %	SHGC	U-VALUE
NC45 ADV	36	21	0.41	2.74
NC45E	36	21	0.36	1.94
NC45 GREY	18	18	0.32	2.83



Waterway House, Dock Road, CPT. DHK Architects.



APPLICATIONS

COMMERCIAL	✓✓✓✓
EDUCATIONAL	✓✓✓✓
MEDICAL	✓✓✓✓
RESIDENTIAL	✓✓✓✓
RETAIL	✓✓✓✓

AVAILABILITY

T (mm) NOMINAL	6	8	10	12
PVB (SABS 1263 1 & 2)	NS		HPR	HI
MAX. STOCKSHEET (mm)	3660 x 2440			

PERFORMANCE DATA FOR SINGLE GLAZING

DESCRIPTION	VLT %	L Rout %	SHGC	U-VALUE
NC55	76	8	0.53	5.7
NC55E	70	10	0.46	2.9

All data measured in accordance with ASHRAE/NFRC 100 (summer) 200 + 300 Boundary Conditions.

ENVIROSOL NC55 AND NC55E

ENVIROSOL NC55 / 55E is a range of un-coated high performance laminated glass in which the outstanding spectral and solar control properties are given by a 0.76mm HPR Grade solar-absorbing PVB interlayer between two lites of standard clear float glass. No metallic coatings are required and therefore the glass is not "sided" and can be installed in any orientation. However, ENVIROSOL NC55E has a Pyrolytic Low-E coating on surface # 4 (room-side of the glazing) and must be installed in this orientation. In double glazing the Low-E coating will be on Surface # 2 of the Sealed SIG Unit. The 0.76mm HPR-Grade interlayer also provides enhanced acoustic insulation performance and furthermore is classed as "Break-Through" resistant under SABS 1263 Part 1. ENVIROSOL NC55 is a spectrally-selective glass type having exceptional visible light transmission combined with very good solar resistance. Light / Solar Gain (LSG) ratio is given by VLT divided by SHGC and glass is considered "Spectrally Selective" when this ratio is ≥ 1.25 . The following results indicate that ENVIROSOL NC55 is a spectrally selective glass.

$$\begin{aligned} \text{Single Glazing} & \quad \text{Double Glazing} \\ \text{VLT / SHGC} = 77 / 55 & \quad \text{VLT / SHGC} = 67 / 37 \\ = 1.39 (> 1.25) & \quad = 1.81 (> 1.25) \end{aligned}$$

CHARACTERISTICS

LIGHT TRANSMISSION	✓✓✓✓
GLARE CONTROL	✓✓
SOLAR CONTROL	✓✓✓
APPEARANCE	LIGHT AQUAMARINE
UV LIGHT ELIMINATION	99%

NOTE: ALSO AVAILABLE IN FULLY TOUGHENED AND HEAT STRENGTHENED CONDITION

PERFORMANCE DATA FOR DOUBLE GLAZING WITH 12mm AIR-FILLED SPACE

DESCRIPTION	VLT %	L Rout %	SHGC	U-VALUE
NC55	67	12	0.37	2.6
NC55E	62	14	0.34	1.95