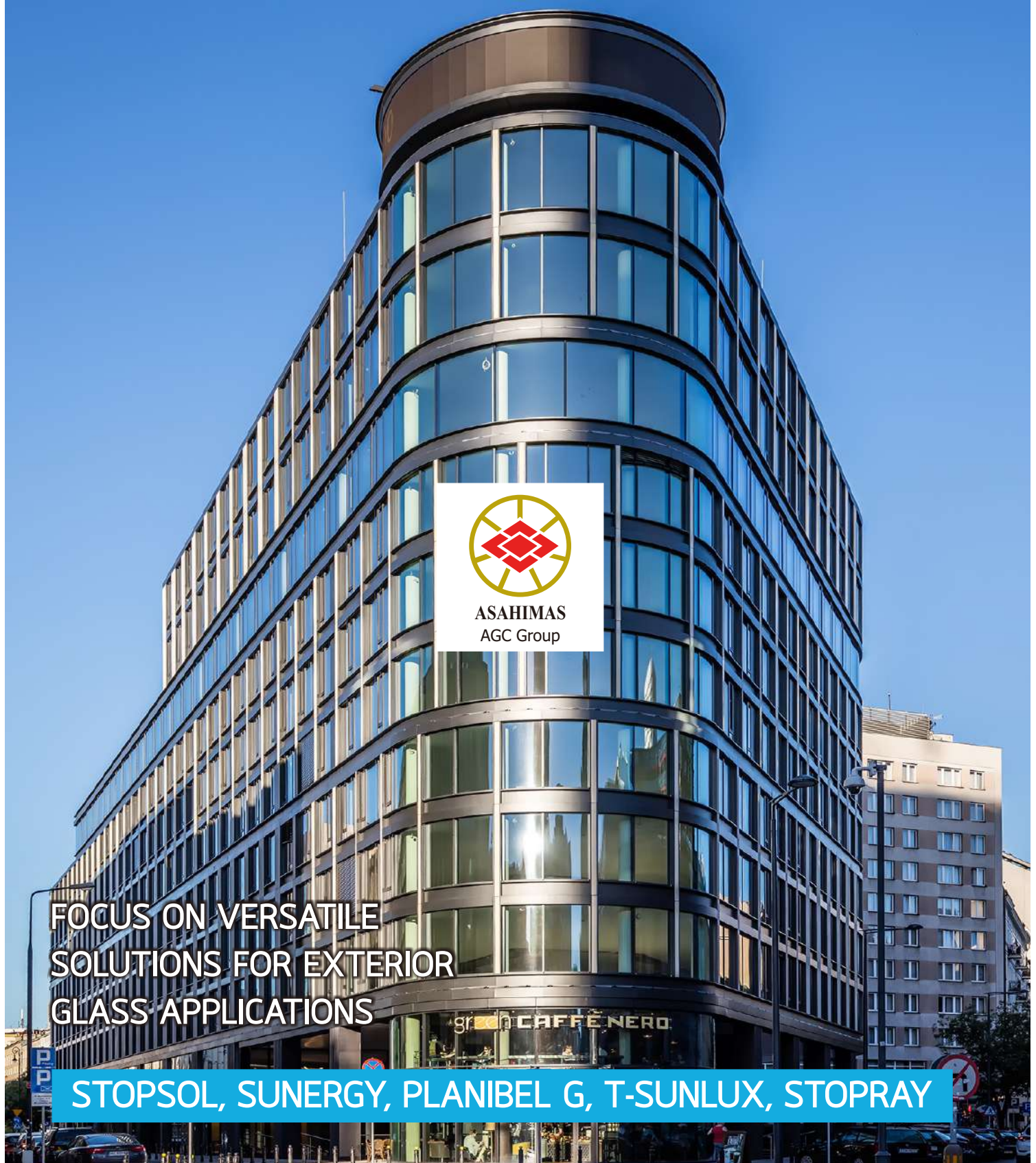


# Asahimas Coated Glass



ASAHIKAS  
AGC Group

FOCUS ON VERSATILE  
SOLUTIONS FOR EXTERIOR  
GLASS APPLICATIONS

STOPSOL, SUNERGY, PLANIBEL G, T-SUNLUX, STOPRAY



## Asahimas Glass presents...



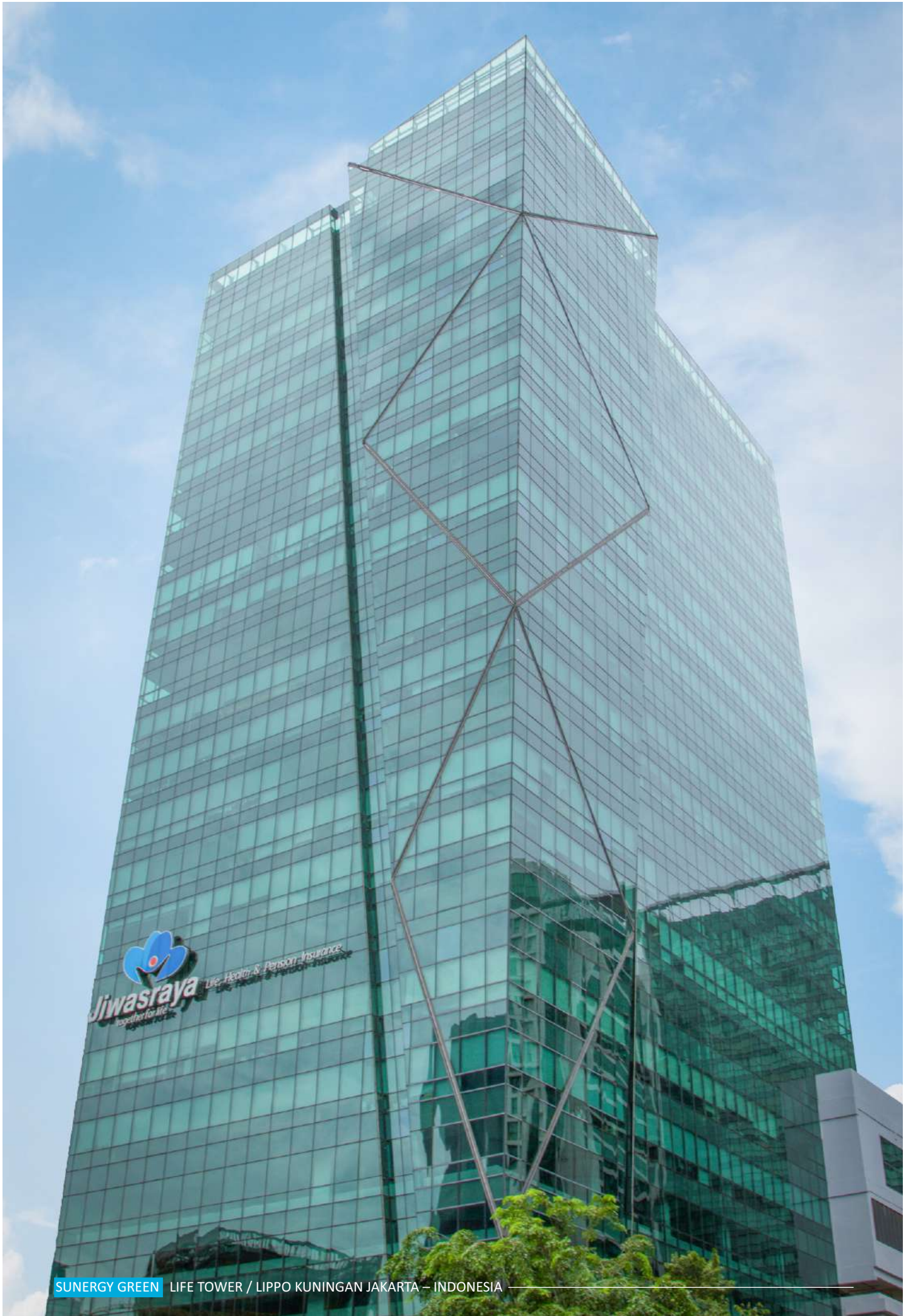
# ...a comprehensive range of Asahimas Coated Glass products



## COATED GLASS

<b>World's leading supplier of flat glass</b>	- 05
<b>Pyrolitic Coated Glass</b>	
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# World's leading supplier of flat glass

—— Asahimas ——

Asahimas offers an extensive range of products for the construction industry, automotive sector and other specialized industries.

With Asahimas' unique network of experience & expertise, our customers enjoy a one stop integrated opportunity to a wide range of world - class products and solutions for all their glass needs.

## **Asahimas coated glass keeps evolving**

Thanks to the right combination of solar and thermal performances, Asahimas' coated glass has made it possible to combine creativity, aesthetics and facade technology while addressing today's environmental constraints.

It is now time we bring you even more! Asahimas' main focus is always to provide you the best coated glass possible, totally understanding your present needs and anticipating your future ones.

## **Bringing Quality Glass Coating Closer To You**

# Combining comfort and privacy

## — STOPSOL —

Stopsol is a reflective pyrolytic coated glass that stands out for its performance durability coupled with good solar control and unique reflective aesthetics. It can be easily used for a large variety of processing options including tempering, laminating, bending and silkscreen printing, offering architects unlimited creativity for its applications.

It is available in 2 types of coatings - namely Stopsol Classic (slightly amber reflection), and Stopsol Supersilver (silver reflection). The final appearance of Stopsol will depend on the colour of the substrate glass, the coating, the thickness and the position of the coating.

With constant strive for innovation and cutting edge technologies, PT. Asahimas Flat Glass Tbk. has improved the performances of the Stopsol Supersilver series by using advanced technology to apply the oxide coating. This new generation of Stopsol Supersilver has a brighter and more attractive appearance.

What's so special about it?

What does it mean for you?

### Wide variety of visual appearances

- Provides architects with an array of aesthetic choices through its reflective appearance.

### Enhanced Solar Control

- Keeps the heat out thereby maintaining comfortable temperatures indoor.
- Reduces energy cost needed for air - conditioning.

### Durable Online Coating

- Withstands harsh environmental conditions such as extreme temperature changes, pollution and corrosion.
- Allows for long term storage due to infinite shell life.
- Provides easy handling and multiple processing options.



STOPSOL SUPERSILVER BLUE GREEN SAMATOR SURABAYA - INDONESIA



# Performance Data

## Stopsol

Type Of Stopsol	Standard Thickness (mm)	Coating Position	Light Performances			Energy Performances			SF (%)	SC	U Value W/m²K
			VLT (%)	VLR Ext (%)	VLR Int (%)	DET (%)	ER (%)	EA (%)			
Stopsol Classic Green (CGN)	5	#1	31	34	20	24	28	48	36	0.42	5.8
		#2	31	20	34	24	11	65	40	0.46	5.7
	6	#1	29	34	19	21	28	51	34	0.39	5.7
		#2	29	19	34	21	10	69	38	0.44	5.7
	8	#1	27	34	16	16	28	56	31	0.35	5.7
		#2	27	16	34	16	9	75	35	0.41	5.6
Stopsol Classic Dark Blue (CDH)	5	#1	28	32	16	28	27	45	40	0.46	5.8
		#2	28	16	32	28	12	60	44	0.50	5.7
	6	#1	26	32	14	25	26	49	37	0.43	5.7
		#2	26	14	32	25	10	65	41	0.48	5.7
	8	#1	22	32	12	20	26	54	34	0.39	5.7
		#2	22	12	32	20	9	71	38	0.44	5.6
New Stopsol Supersilver New Dark Blue (SSDHNF)	5	#1	37	30	13	32	23	45	44	0.50	5.8
		#2	37	13	30	32	10	58	47	0.54	5.7
New Stopsol Supersilver Clear (SSFLF)	6	#1	63	35	33	62	27	11	65	0.75	5.7
		#2	63	33	35	62	23	15	66	0.76	5.7
	8	#1	62	35	33	59	27	14	63	0.72	5.7
		#2	62	33	35	59	23	18	64	0.74	5.6
New Stopsol Supersilver Green (SSGNF)	6	#1	48	34	22	30	26	44	41	0.47	5.7
		#2	48	22	34	30	12	58	44	0.51	5.7
	8	#1	44	34	19	24	25	51	37	0.42	5.7
		#2	44	19	34	24	10	66	41	0.47	5.6
New Stopsol Supersilver Dark Blue (SSDHF)	6	#1	40	36	18	33	27	40	44	0.50	5.7
		#2	40	18	36	33	12	55	47	0.54	5.7
	8	#1	34	35	14	27	27	46	39	0.45	5.7
		#2	34	14	35	27	10	63	43	0.49	5.6
New Stopsol Supersilver Euro Grey (SSGEF)	5	#1	35	34	14	39	26	35	48	0.55	5.8
		#2	35	14	34	39	11	50	52	0.59	5.7
	6	#1	31	34	12	35	26	39	45	0.52	5.7
		#2	31	12	34	35	10	55	49	0.56	5.7
	8	#1	25	34	9	28	26	46	40	0.46	5.7
		#2	25	9	34	28	8	64	44	0.51	5.6
New Stopsol Supersilver Blue Green (SSBNF)	6	#1	43	35	19	30	26	44	41	0.48	5.7
		#2	43	19	35	30	12	58	45	0.52	5.7
	8	#1	38	35	16	24	26	50	37	0.42	5.7
		#2	38	16	35	24	10	66	41	0.47	5.6

### Remark :

- The energy properties are calculated according to ISO 9050 and ISO 10292.
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# Versatile with neutral aesthetics

## SUNERGY

Sunergy is a pyrolytic coated glass that is highly scratch-resistant and can be bent, tempered and laminated, making it one of the favourite choices for complex constructions. Together with its excellent solar control properties, low reflection and neutral appearance, Sunergy is definitely an ideal product in today's architectural world.

PT. Asahimas Flat Glass introduces Sunergy Sigma and Cool, a new series of products that complement the well known Sunergy range of high performance pyrolytic solar control Low-E glass. Sunergy Sigma and Cool has been developed anticipating current architectural trends and offering excellent solar control properties and brighter appearance.

Sunergy is available in several types Sunergy Clear (neutral greyish tone), Sunergy Cool (bluish grey color tone), Sunergy Tinted (Euro Grey, Green, and Blue Green) and Sunergy Sigma (addition of silver reflection at Sunergy Color).

What's so special about it?

What does it mean for you?

### Excellent Solar Control

- Keeps the heat out thereby maintaining comfortable temperatures indoor.
- Reduces energy cost needed for air - conditioning.

### Low Emissivity

- Delivers thermal insulation properties to keep comfortable temperatures within the building.

### Wide variety of visual appearances

- Provides architects with an array of aesthetic choices.

### Durable Online Coating

- Withstands harsh environmental conditions such as extreme temperature changes, pollution and corrosion.
- Allows for long term storage due to infinite shell life.
- Provides easy handling and multiple processing options.



Disclaimer: Illustrated colors are only an indication of actual color. Please refer to actual glass samples to get the accurate glass color.



# Performance Data

Sunergy

Type Of Sunergy	Standard Thickness (mm)	Coating Position	Light Performances			Energy Performances			SF (%)	SC	U Value W/m <sup>2</sup> K
			VLT (%)	VLR Ext (%)	VLR Int (%)	DET (%)	ER (%)	EA (%)			
Clear (SNFL)	3	#2	70	9	11	57	10	33	63	0.73	4.1
	4	#2	70	9	11	56	10	34	62	0.72	4.1
	5	#2	69	9	11	55	9	36	61	0.71	4.1
	6	#2	69	9	11	54	9	37	61	0.70	4.1
	8	#2	68	9	11	52	8	40	59	0.68	4.1
	10	#2	68	9	11	50	8	42	58	0.66	4.0
Green (SNGN)	6	#2	56	7	10	30	6	64	42	0.48	4.1
	8	#2	51	7	9	25	6	69	38	0.43	4.1
Blue Green (SNBN)	6	#2	47	7	9	27	6	67	40	0.46	4.1
	8	#2	42	6	9	22	6	72	36	0.41	4.1
Euro Grey (SNGE)	6	#2	34	6	8	28	6	66	40	0.46	4.1
	8	#2	27	5	8	22	6	72	35	0.41	4.0
Cool (SNCL)	5	#2	50	7	9	39	7	54	49	0.56	4.4
	6	#2	50	6	9	38	7	55	48	0.56	4.4
	8	#2	50	6	9	36	7	57	47	0.55	4.3
Sigma Green (SNSGN)	6	#2	39	12	27	21	8	71	35	0.40	4.4
	8	#2	34	10	28	17	7	76	32	0.37	4.4
Sigma Blue Green (SNSBN)	6	#2	36	11	27	21	8	71	35	0.40	4.3
	8	#2	32	9	27	18	7	75	32	0.37	4.3
Sigma Euro Grey (SNSGE)	6	#2	25	8	27	22	7	71	36	0.41	4.4
	8	#2	21	7	26	18	7	75	33	0.38	4.3
Sigma Dark Blue (SNSDH)	6	#2	35	10	26	24	8	68	37	0.43	4.4
	8	#2	30	9	26	20	7	73	34	0.39	4.4

## Remark :

- The energy properties are calculated according to ISO 9050 and ISO 10292.
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# High Performance Low Emissivity Glass

## — PLANIBEL G —

Planibel G is a coated glass that can be tempered and do not require any edge deletion. Its durability and high - resistant surface make it suitable for both construction and industrial applications, such as home appliances, commercial refrigeration, heated glass, etc.

To achieve better thermal insulation performances, Planibel G can be combined with solar control glass ( Eg. Stopsol, Sunergy and T-Sunlux ) in a double glazing unit. It is particularly suitable for OPTIMA combinations due to its clear and neutral appearance.

What's so special about it?

What does it mean for you?

### High light transmission

- Increase the amount of natural light entering a building and reduce the need for artificial lighting, resulting in a more comfortable environment.

### Low Emissivity

- Delivers thermal insulation properties to keep comfortable temperatures within the building.

### Durable Online Coating

- High levels of scratch resistance, leading to reduced maintenance.
- Withstands harsh environmental conditions such as extreme temperature changes, pollution and corrosion.
- Allows for long term storage due to infinite shell life.
- Provides easy handling and multiple processing options.





# Performance Data

## Planibel G

Type Of Planibel G	Standard Thickness (mm)	Coating Position	Light Performances		Energy Performances			SF (%)	SC	U Value W/m <sup>2</sup> K
			VLT (%)	VLR (%)	DET (%)	ER (%)	EA (%)			
Clear (PNGFL)	3.2	#2	82	10	71	10	19	74	0.85	3.8
	4	#2	82	10	70	10	20	73	0.84	3.7
	5	#2	81	10	68	10	22	72	0.82	3.7
	6	#2	81	10	67	9	24	71	0.81	3.7

### Remark :

- The energy properties are calculated according to ISO 9050 and ISO 10292.
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# Reflective and Temperable

## — T-SUNLUX —

T-Sunlux, a temperable magnetron coated glass, has a strong and durable coating that is able to go through tempering without compromising its appearance.

This high performance solar control coated glass specializes in blocking heat and is a great fit for architectural glass applications where heavy sun makes excessive solar heat gain. In addition to its excellent performance, T-Sunlux is available in various colour substrates and has a wide selection of coatings.

What's so special about it?

What does it mean for you?

Variety of coatings on three colour substrates

- Offers multiple options to provide the right solution for all glass needs.

Excellent Solar Control

- Keeps the heat out thereby maintaining comfortable temperatures indoor.
- Reduces energy cost needed for air-conditioning.

Durable Coating

- Durability exceeds traditional magnetron coated products.
- Allows for long term storage due to long shelf life.
- Provides easy handling and multiple processing options.



T-SUNLUX SS 214 CHAMSHURI SQUARE - THAILAND

# Performance Data

## T-Sunlux

Type Of T-Sunlux	Glass Substrate	Standard Thickness (mm)	Light Characteristic			Energy Characteristic			SF (%)	SC	U Value W/m²K
			VLT (%)	VLR Ext (%)	VLR Int (%)	DET (%)	ER (%)	EA (%)			
CS-108 #2	On Clear	5	9	41	42	8	34	58	19	0.22	4.4
		6	9	41	42	7	33	60	19	0.22	4.4
		8	9	40	42	7	31	62	19	0.22	4.3
CS-120 #2		5	22	26	29	19	21	60	32	0.37	4.9
		6	22	25	29	19	20	61	32	0.37	4.9
		8	21	25	29	18	19	63	32	0.36	4.8
CS-130 #2		5	33	19	26	31	15	54	44	0.50	5.2
		6	33	19	26	30	15	55	43	0.50	5.2
		8	33	18	26	29	14	57	42	0.49	5.1
CS-150 #2		5	51	16	21	50	13	37	59	0.68	5.7
		6	51	16	21	48	13	39	58	0.67	5.7
		8	50	16	21	46	12	42	57	0.65	5.6
CS-308 #2	On Green	5	7	29	42	4	16	80	20	0.23	4.4
		6	7	27	42	4	14	82	20	0.23	4.4
		8	6	23	42	3	12	85	20	0.23	4.3
CS-320 #2		5	18	19	29	11	11	78	28	0.32	4.9
		6	17	17	29	10	10	80	27	0.31	4.9
		8	15	15	29	8	9	83	26	0.30	4.8
CS-330 #2		5	27	14	26	18	9	74	35	0.40	5.2
		6	26	13	26	16	8	76	33	0.38	5.2
		8	23	12	26	13	7	80	31	0.36	5.1
CS-408 #2	On Bronze	5	5	19	42	5	20	75	20	0.23	4.4
		6	5	16	42	5	17	78	20	0.23	4.4
		8	4	13	42	4	13	83	20	0.23	4.3
CS-420 #2		5	14	13	29	14	13	74	30	0.34	4.9
		6	12	11	29	12	11	76	29	0.33	4.9
		8	10	9	29	10	9	80	28	0.32	4.8
CS-430 #2		5	21	10	26	22	9	68	38	0.44	5.2
		6	19	9	26	20	8	71	37	0.42	5.2
		8	16	8	25	17	7	76	35	0.40	5.1
CS-508 #2	On Dark Blue	5	4	17	44	3	14	83	19	0.22	4.4
		6	5	21	44	4	16	80	19	0.22	4.4
		8	4	17	44	3	13	84	19	0.22	4.3
CS-520 #2		5	11	13	29	8	10	82	26	0.29	4.8
		6	12	16	29	9	11	80	26	0.30	4.8
		8	11	13	29	7	10	83	25	0.29	4.8
CS-530 #2		5	23	11	26	20	9	71	36	0.42	5.2
		6	21	10	26	18	8	74	35	0.40	5.2
		8	18	9	26	14	7	79	33	0.37	5.1

### Remark :

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# Energy-efficient glazing

## — STOPRAY —

Stopray, a high performance magnetron coated glass, gives excellent selectivity while retaining a neutral appearance. It offers improved balance between visible light transmittance, solar control and enhanced U-values thereby delivering maximum energy savings that meet or exceed energy code requirements.

Always used as double or triple glazing, it is suitable for use in all climates as it controls heat entering in the summer and keeps heat from escaping during the winter. Stopray is also available in temperable versions ( Stopray T range ), this brand offers architects more design freedom and flexibility in their projects.

Each product...	... has its benefits
<b>Stopray Smart</b>	<ul style="list-style-type: none"> <li>- No edge deletion required</li> <li>- Low internal reflection, making it ideal for residential projects</li> <li>- Longer shelf life compared to other magnetron coating</li> </ul>
<b>Stopray Vision</b>	<ul style="list-style-type: none"> <li>- Offer a wide range of light transmission from 36 % to 72 %</li> <li>- Provides good thermal insulation</li> <li>- Good selectivity ratio ( LT/SF )</li> </ul>



STOPRAY VISION 72T FORTE BANK HEADQUARTERS ASTANA - KAZAKHSTAN



# Performance Data

## Stopray

Type Of Stopray	Light Performances			Energy Performances			SF (%)	SC	U Value W/m <sup>2</sup> K EN 673
	VLT (%)	VLR Ext (%)	VLR Int (%)	DET (%)	ER (%)	EA (%)			
	EN 410	EN 410	EN 410	ISO 9050	ISO 9050	ISO 9050	ISO 9050	ISO 9050	EN 673
<b>6mm Stopray (#2)+12mm AS+6mm Clear Glass</b>									
Smart 32T	33	19	16	20	19	60	27	0.31	1.8
Smart 30/20	30	28	15	16	31	53	21	0.24	1.6
Smart 51/33	50	25	17	28	32	40	32	0.37	1.6
Vision 40T	40	19	15	18	44	38	21	0.24	1.5
Vision 51T	51	14	14	23	38	39	26	0.30	1.5
Vision 61T	61	13	13	28	37	35	32	0.37	1.5
Vision 72T	71	13	14	33	40	27	36	0.41	1.5
<b>8mm Stopray (#2)+12mm AS+6mm Clear Glass</b>									
Smart 32T	33	18	16	20	18	62	26	0.30	1.8
Smart 30/20	29	28	15	16	28	56	20	0.23	1.6
Smart 51/33	50	25	17	27	29	44	31	0.36	1.6
Vision 40T	40	19	15	17	41	42	21	0.24	1.5
Vision 51T	50	14	14	23	36	41	26	0.30	1.5
Vision 61T	60	13	13	28	34	38	31	0.36	1.5
Vision 72T	71	13	14	33	37	30	36	0.41	1.5

### Remark :

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- This coating must be tempered to reach its final performances and aesthetics. It can not be used annealed



STOPRAY SMART30/20 AMITY UNIVERSITY DUBAI - UNITED ARAB EMIRATES

## Processing Option

		Stopsol	Sunergy	Planibel G	T-Sunlux	Stopray Smart series	Stopray Vision series
Safety	Tempering & Heat strengthening	Yes	Yes	Yes	Yes	Yes	Yes
	Laminating	Yes	Yes <sup>(1)</sup>	Yes <sup>(2)</sup>	Yes	Yes <sup>(2)</sup>	Yes <sup>(2)</sup>
Insulation	IGU	Yes <sup>(3)</sup>	Yes <sup>(3)</sup>	Yes <sup>(3)</sup>	Yes <sup>(3)</sup>	Yes <sup>(3)</sup>	Yes <sup>(3)</sup>
Cutting	Straight or circular <sup>(6)</sup>	Yes	Yes	Yes	Yes	Yes	Yes
Shaping and edge finishing	Edge grinding <sup>(6)</sup>	Yes	Yes	Yes	Yes	Yes	Yes
	Hole drilling <sup>(6)</sup>	Yes	Yes	Yes	Yes	Yes	Yes
	Notches <sup>(6)</sup>	Yes	Yes	Yes	Yes	Yes	Yes
	Edge deletion	No	No	Yes	No	No	Yes
Special Treatment	Curving or Bending	Yes	Yes	Yes	Yes	Yes	No
	Silkscreen printing	Yes <sup>(5)</sup>	Yes <sup>(5)</sup>	Yes	Yes	Yes	No

<sup>(1)</sup> Coating is not low-E if placed next to PVB

<sup>(2)</sup> Coating must not come in contact with PVB

<sup>(3)</sup> Recommended position #2

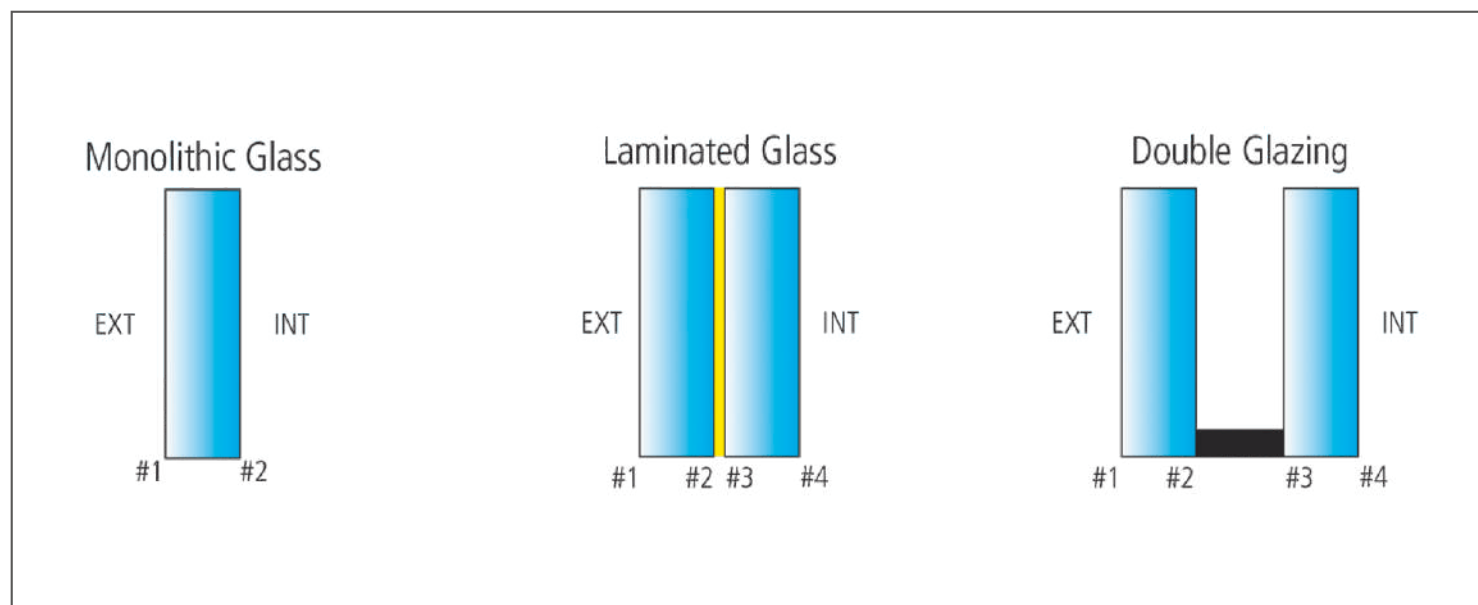
<sup>(4)</sup> Recommended position #3

<sup>(5)</sup> Certain conditions apply

<sup>(6)</sup> After tempering, all glasses cannot be cut, edge grind, drill and notches

## Glass Configurations

The numbering of glass surfaces and position of coating for various glass configurations are given below

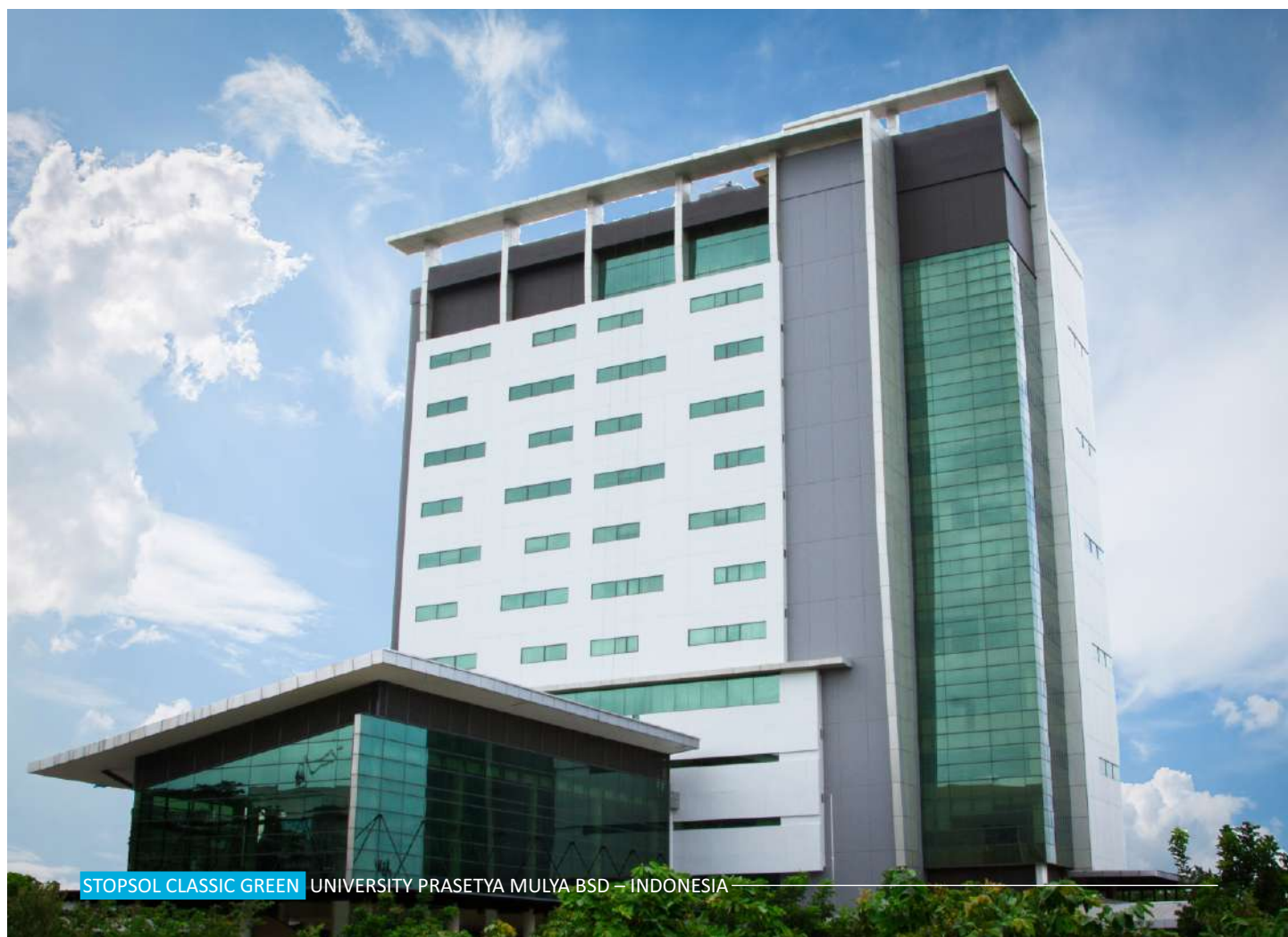


#1 : Outer Glass, Coating Outside/ Exterior

#2 : Outer Glass, Coating Inside Facing Air Space/ PVB

#3 : Inner Glass, Coating Inside Facing Air Space/ PVB

#4 : Inner Glass, Coating Inside/ Interior





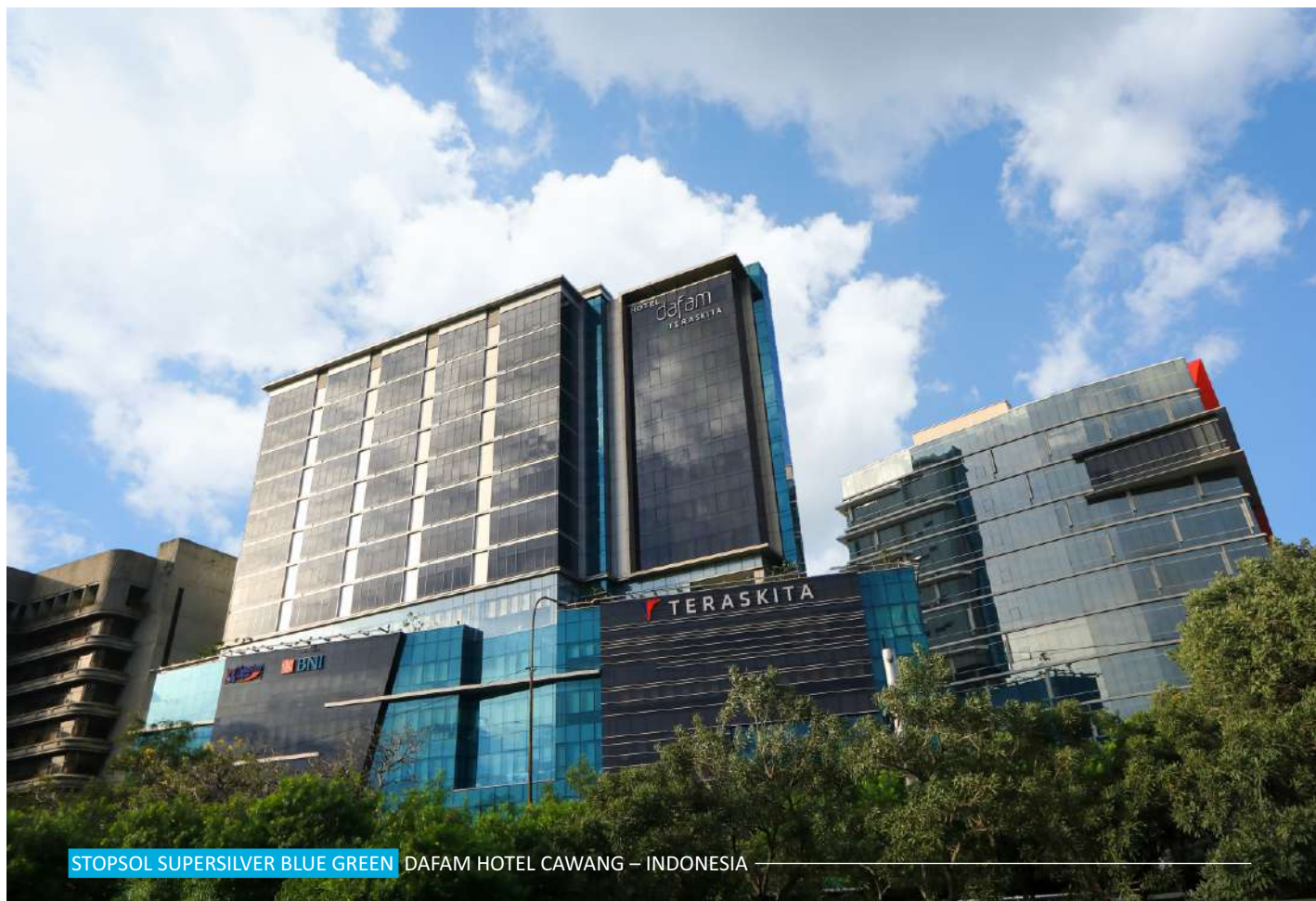


STOPSOL SUPERSILVER DARK BLUE DELEGATS WINERY - NEW ZEALAND



SUNERGY CLEAR MERCEDES BENZ WITBANK TRUCK FACILITY - SOUTH AFRICA



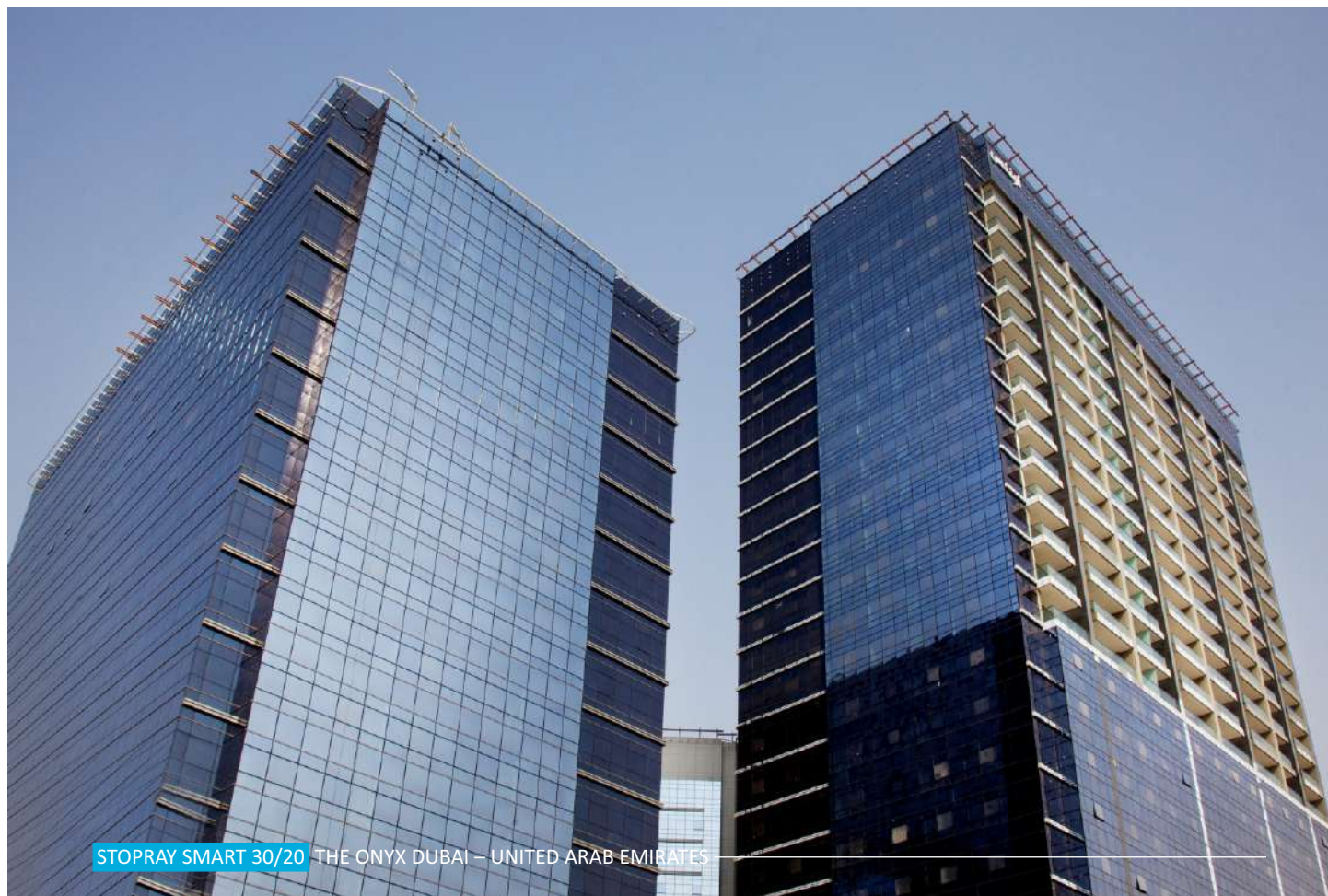


STOPSOL SUPERSILVER BLUE GREEN DAFAM HOTEL CAWANG – INDONESIA



T-SUNLUX CS130 THE STOCK EXCHANGE – THAILAND



















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