



TOSTEM

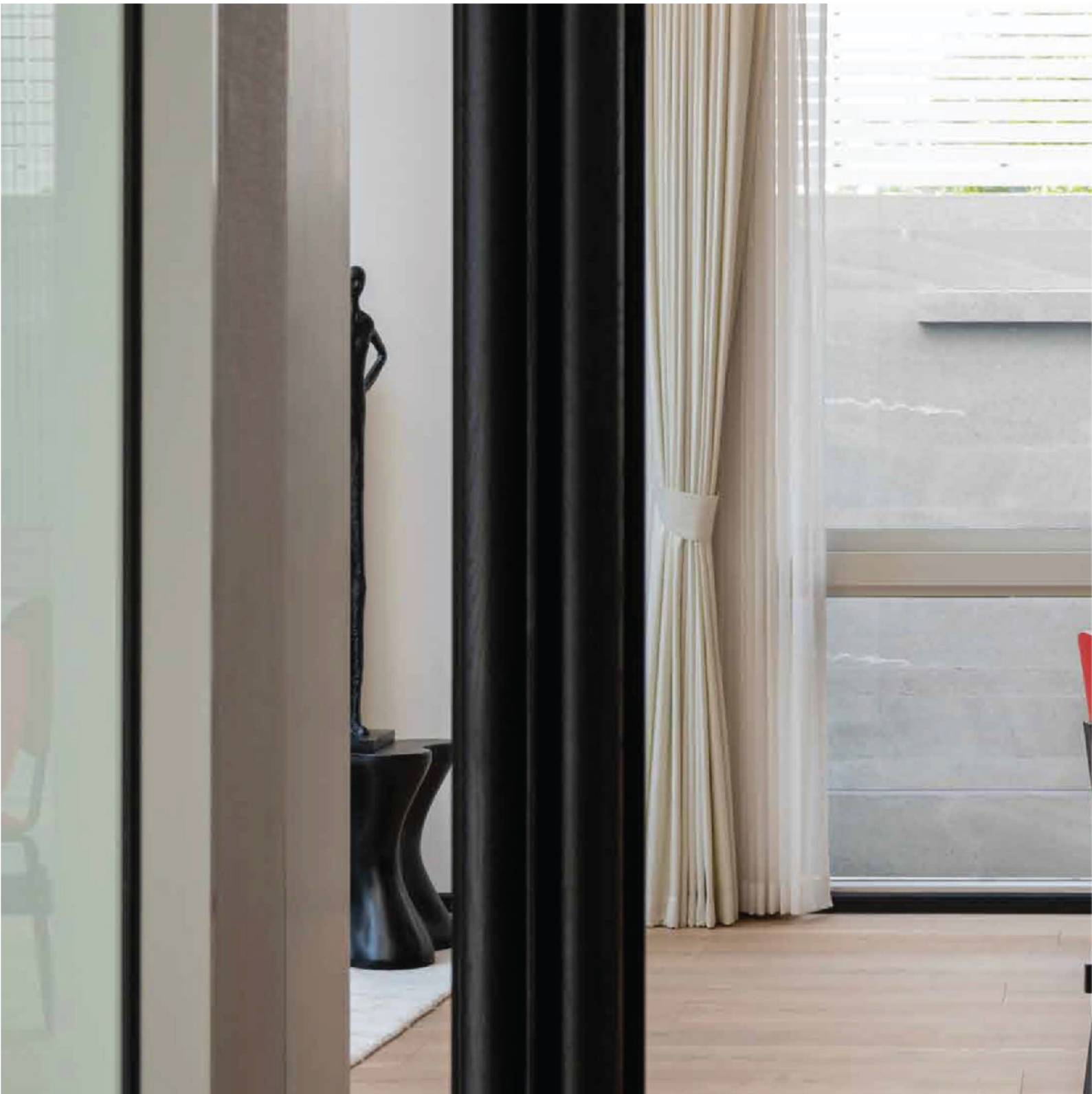
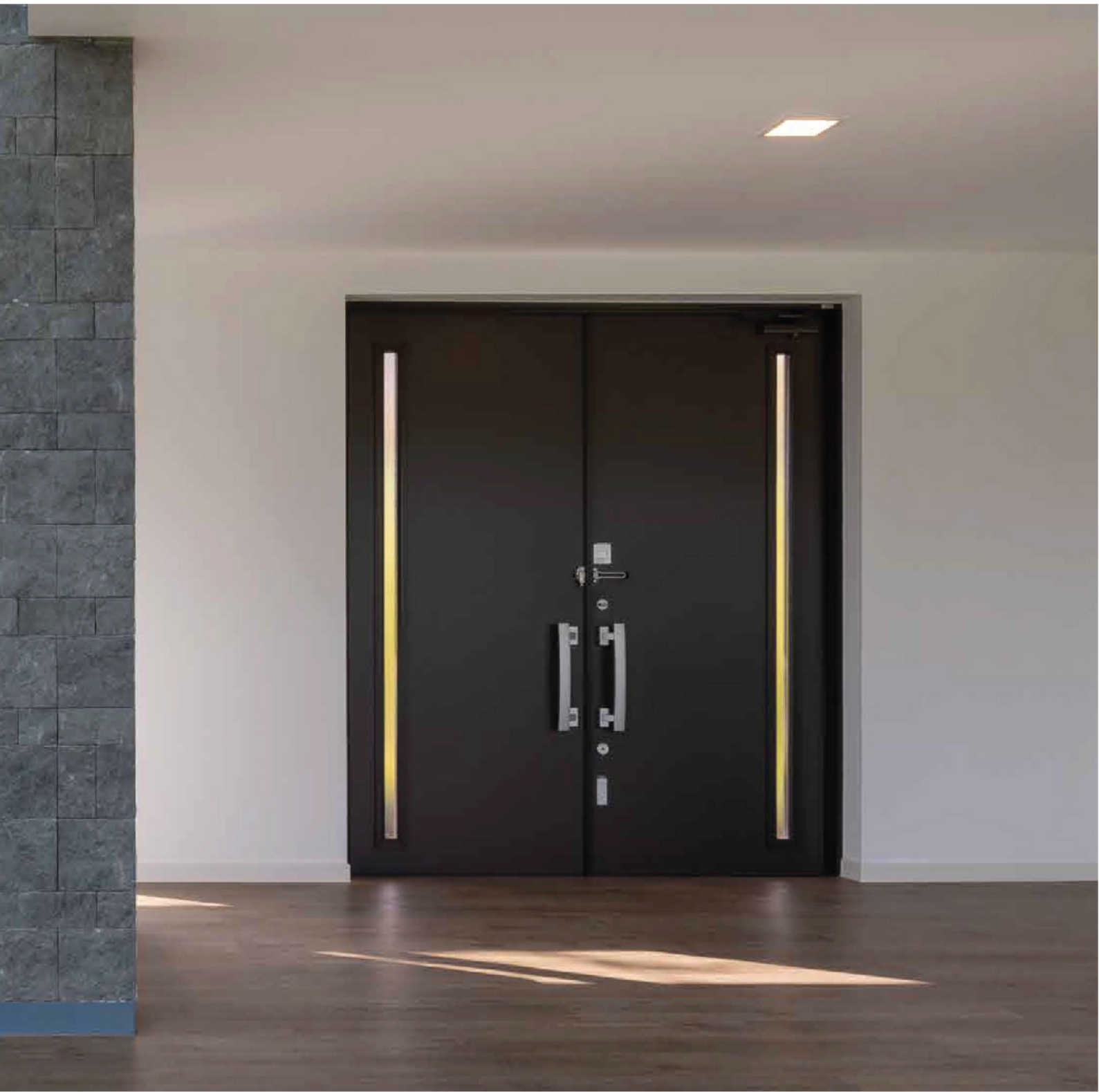




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CORPORATE PROFILE

Making better homes a reality for everyone, everywhere

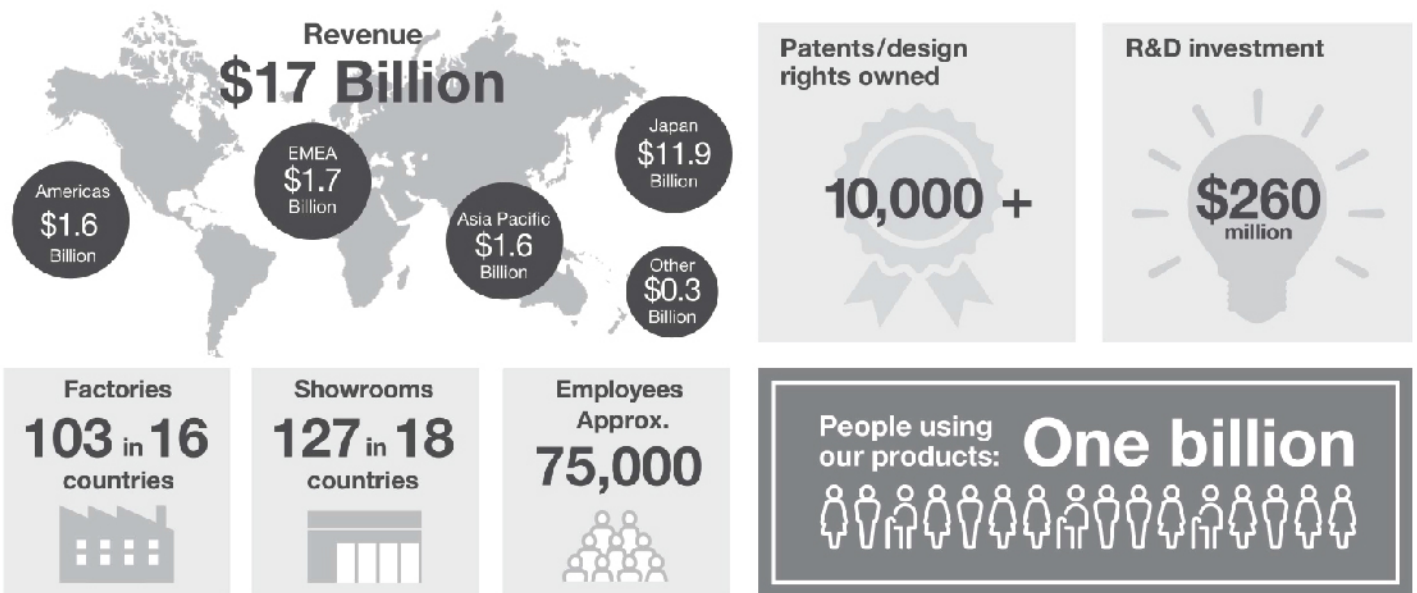
LIXIL GROUP

Every person on the planet dreams of a better home. LIXIL makes that possible with pioneering water and housing products. Born in 2011 through the merger of five of Japan's most successful building materials and housing companies, we draw on our Japanese heritage to create world-leading technology and high-quality products that transform homes. We make things that matter to all sorts of different people, to the many communities we are part of, and to sustainably support the world we live in. Today, our approach comes to life through some of the most trusted global brands in our industry, including INAX, GROHE, American Standard, and TOSTEM. We are proud that our products touch the lives of more than a billion people every day, but believe we have the potential to still do so much more.

Membuat rumah yang lebih baik menjadi nyata bagi semua orang, dimanapun itu

LIXIL GROUP

Setiap orang di planet ini memimpikan rumah yang lebih baik. LIXIL mewujudkannya dengan menjadi pionir produk air dan perumahan. Lahir pada tahun 2011 melalui penggabungan lima perusahaan bahan bangunan dan perumahan paling sukses di Jepang, kami memanfaatkan warisan Jepang kami untuk menciptakan teknologi terkemuka dunia dan produk berkualitas tinggi yang mengubah rumah. Kami membuat berbagai hal yang penting bagi setiap orang, bagi berbagai komunitas dimana kami menjadi bagian, dan untuk mendukung dunia tempat kami tinggal secara berkelanjutan. Saat ini, pendekatan kami telah nyata melalui berbagai merek global terpercaya di industri kami, termasuk INAX, GROHE, American Standard, dan TOSTEM. Kami bangga dengan produk kami yang menyentuh kehidupan lebih dari satu miliar orang setiap hari, dan yakin bahwa kami masih memiliki potensi untuk melakukan lebih banyak lagi.





LIXIL housing business in Indonesia

PT. LIXIL Aluminium Indonesia as part of LIXIL Group brings the heritage of TOSTEM to enhance people's living spaces. Establish in Indonesia since 2013, we grow in the era of innovation with the principles laid and credibility to become one of the most respected names in the building industry.

Bisnis perumahan LIXIL di Indonesia

PT. LIXIL Aluminium Indonesia sebagai bagian dari LIXIL Group menghadirkan warisan TOSTEM dari Jepang untuk meningkatkan ruang hidup. Berdiri di Indonesia sejak tahun 2013, kami berkembang di era inovasi dengan prinsip-prinsip yang ditetapkan dan kredibilitas untuk menjadi salah satu nama yang dihormati di industri bangunan.

TOSTEM Factory in Thailand

Established in 1987

Capacity	: 7,000 tons/month
Products	: Aluminium windows, doors and exteriors Aluminium extrusion bars Aluminium OEM industrial parts
Certification	: ISO 9001, ISO 14001, JIS H4100, JIS H8602, ISO 9002
Factory	: Navanokorn industrial Estate, Phatumthani
Showroom	: Crystal Design Center, Bangkok
Employees	: Approx. 6,200

TOSTEM Factory in Indonesia

Established in 2014

Products	: Aluminium windows, doors OEM automotive parts
Factory	: Pondok ungu, Bekasi West Java
Showroom	: Let. Jend. S. Parman Kav. 32-34, Jakarta

TOSTEM BRAND





As the leading Japanese brand for global housing and building materials, TOSTEM stands apart as a one that deeply understands the needs of people. TOSTEM's comprehensive range of solutions ensures comfortable home living driven by a simple and seamless user experience. We develop our people-centric home solutions by drawing on a half-century of experience and expertise in balancing design and technology to anticipate the needs of people today and their families for generations to come.

TOSTEM engages in product development, manufacturing, and marketing of a diverse range of home products, such as aluminium windows and doors, entrance doors, and exterior products. Our product portfolio allows us to provide complete "lifestyle solutions" that are flexible, integrated, and coordinated to consumer needs, delivering everyday satisfaction.

Sebagai merek Jepang terkemuka secara global untuk perumahan dan bahan bangunan, TOSTEM merupakan salah satu merek berbeda yang sangat memahami kebutuhan orang banyak. Rangkaian solusi TOSTEM yang komprehensif memastikan kehidupan rumah yang nyaman didorong oleh pengalaman pengguna yang sederhana dan tanpa hambatan. Kami mengembangkan solusi rumah yang berpusat pada manusia dengan memanfaatkan 50 tahun pengalaman dan keahlian kami dalam menyeimbangkan desain dan teknologi untuk mengantisipasi berbagai kebutuhan saat ini dan untuk generasi yang akan datang.

TOSTEM terlibat dalam pengembangan produk, manufaktur, dan pemasaran berbagai macam produk perumahan, seperti jendela dan pintu aluminium, pintu utama, dan produk eksterior. Portofolio produk kami memungkinkan kami untuk memberikan "solusi gaya hidup" lengkap yang fleksibel, terintegrasi, dan terkoordinasi dengan kebutuhan konsumen, memberikan kepuasan yang konsisten

TOSTEM PRE-ENGINEERED SYSTEM



All products of TOSTEM are developed and designed, manufactured and assembled under an integrated production process with strict TOSTEM quality control. Extrusion dies, aluminium billet, extrusion profiles, coating, pre-engineered and hardware assembly processes are all done in TOSTEM's factory.

The greatest benefit of TOSTEM's pre-engineered system is the ability to build windows with consistent quality. With a single screw driver, anyone can again and again consistently build the same high quality window system.

We strive to achieve constant excellence in all the production cycles, as well as in our systems.

Semua produk TOSTEM dikembangkan dan dirancang, diproduksi dan dirakit dalam proses produksi terintegrasi dengan kontrol kualitas TOSTEM yang ketat. Proses ekstrusi cetakan, billet aluminium, ekstrusi profil, pelapisan, pra-rekayasa dan perakitan perangkat keras, semuanya dilakukan di pabrik TOSTEM.

Manfaat terbesar dari sistem pra-rekayasa TOSTEM adalah kemampuannya dalam menghasilkan pintu dan jendela dengan kualitas yang konsisten. Dengan satu obeng, siapa pun dapat terus-menerus membangun pintu dan jendela bersistem dengan kualitas tinggi yang sama.

Kami terus berusaha untuk mencapai keunggulan yang konstan di semua siklus produksi, juga dalam sistem kami.

Designing into every details...

L-Fit is a handle design that "fits" in with "living life." This standardized design for the handles of windows and entrance doors creates a sense of uniformity and comfort in living space.

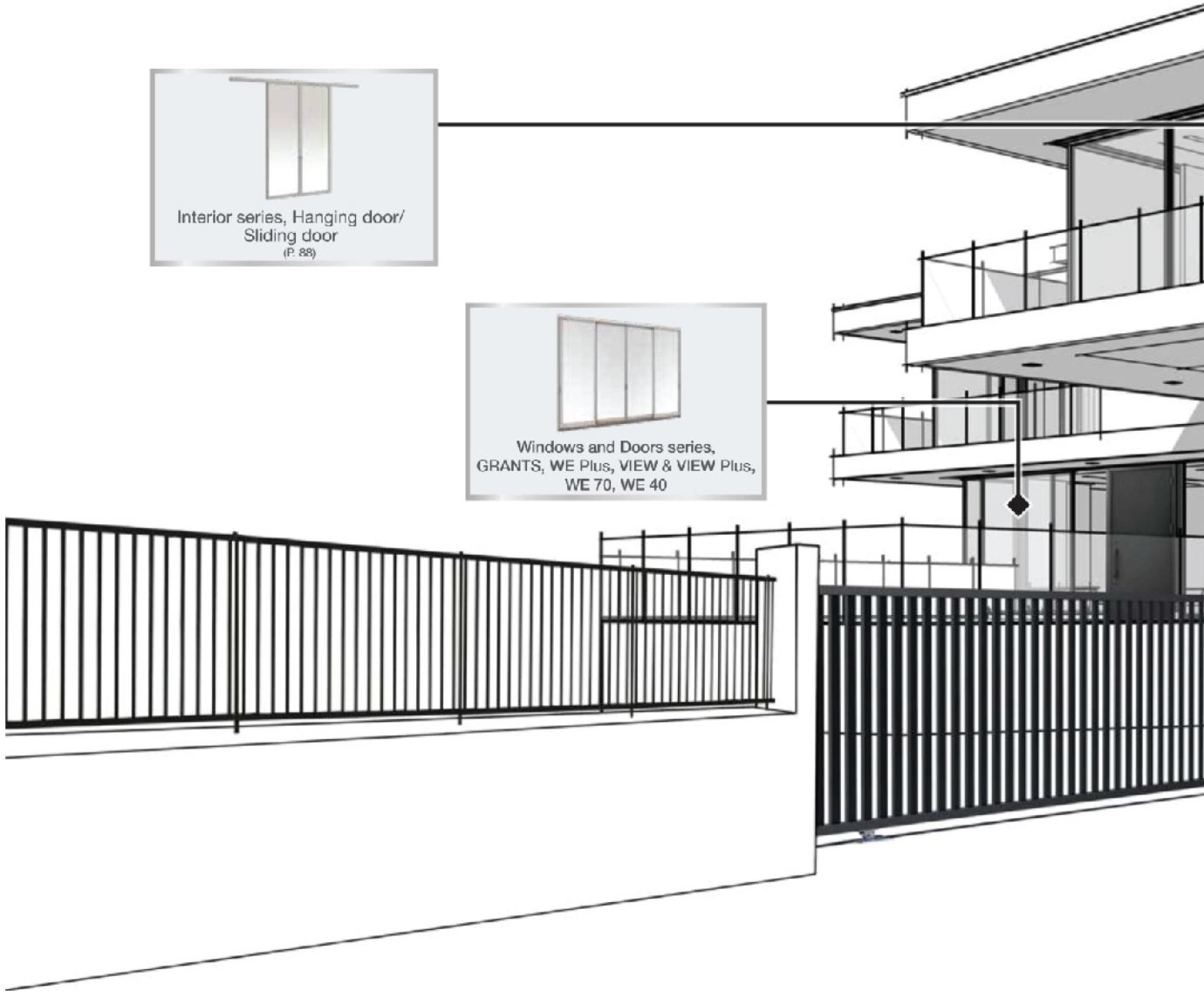
L-Fit adalah desain pegangan yang "pas" dengan "menjalani hidup". Desain terstandarisasi untuk pegangan jendela dan pintu ini menciptakan rasa keseragaman dan kenyamanan di ruang hidup.



L-Fit

TOSTEM HO

A portfolio of housing products delivered



HOUSING SOLUTION

ing comfort for everyone, everywhere ...

TOSTEM HOUSING SOLUTION 11

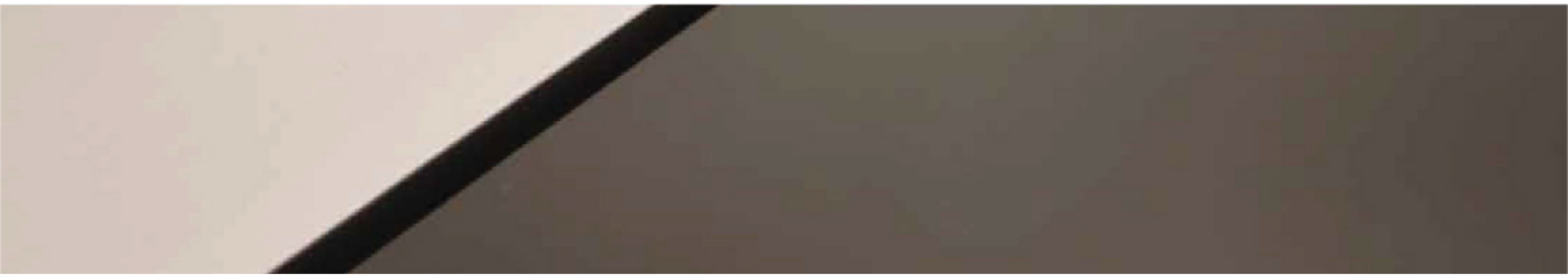
INTRODUCTION



12 COLORING PROCESS



-  Natural White
-  Natural Silver
-  Ivory White
-  Shine Grey
-  Autumn Brown
-  Natural Black





COLORING PROCESS

Maximizing the strength and beauty of aluminium

“TOSTEM’s unique TEXGUARD anodized finish gives a high level of protection, alongside showing the beautiful appearance of natural aluminium. TOSTEM offers a wide range of color variations, which allows you to enjoy its lifelong beauty, adding happiness to your lifestyle.”

Benefit of TEXGUARD

- Color retention – TEXGUARD protect the aluminium against harsh environmental conditions, making the color gloss stay for at least 40 years.
- Increased hardness – Dense coating of TEXGUARD improve hardness and provides scratch resistance for the aluminium surface.
- Ease of cleaning – Dust and dirt accumulation resistance quality of TEXGUARD makes the task of cleaning the surface less effort.

Memaksimalkan kekuatan dan keindahan aluminium

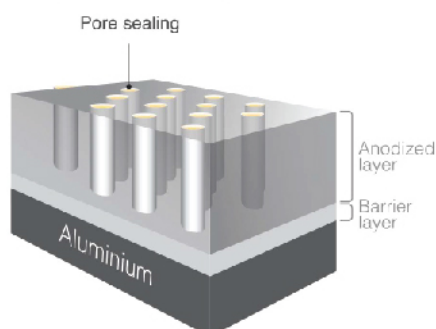
Hasil akhir yang dianodisasi TEXGUARD TOSTEM yang unik memberikan tingkat perlindungan yang tinggi, bersamaan dengan menunjukkan tampilan indah dari aluminium alami. TOSTEM menawarkan berbagai variasi warna, yang keindahannya dapat Anda nikmati dalam jangka waktu yang lama, menambah kebahagiaan ke dalam gaya hidup Anda.

Manfaat TEXGUARD

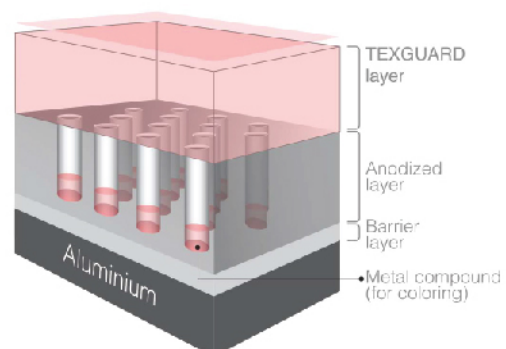
- Retensi warna - TEXGUARD melindungi aluminium dari kondisi lingkungan yang keras, membuat kilap warna bertahan setidaknya selama 40 tahun.
- Peningkatan kekerasan - Lapisan padat TEXGUARD meningkatkan kekerasan dan memberikan ketahanan gores pada permukaan aluminium.
- Kemudahan pembersihan - Kualitas ketahanan TEXGUARD terhadap akumulasi debu dan kotoran membuat kegiatan membersihkan permukaan menjadi lebih mudah.

Certifications

JIS H4100 (No. TH9009), JIS H8602 (No. TH9010), TIS 218-2520, TIS 284-2530, AAMA 612, ISO 9001: 2015 (No. TH98/4848), ISO 14001: 2004 (No. TH60/2399)

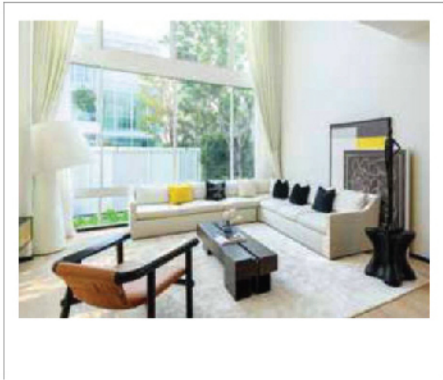


CONVENTIONAL ANODIZE

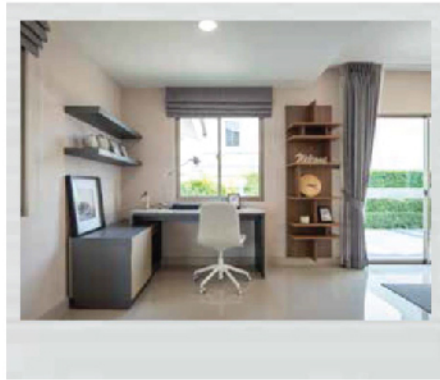


TOSTEM TEXGUARD ANODIZE

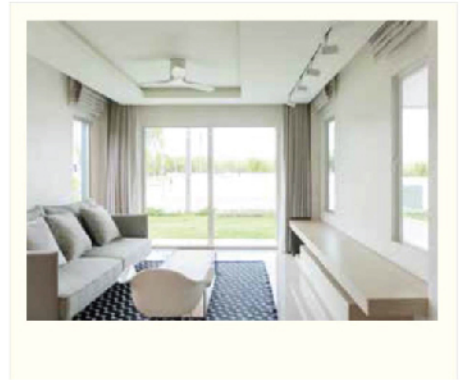
WINDOW AND DOOR COLORS



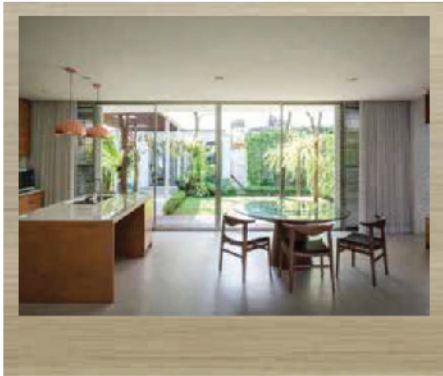
Natural White



Natural Silver



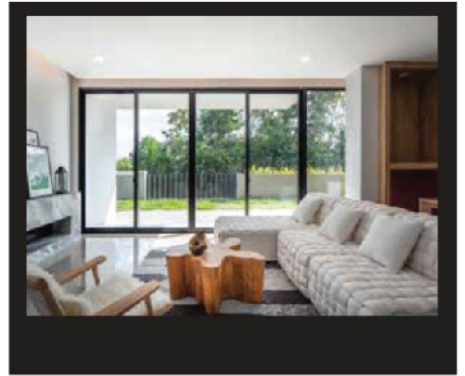
Ivory White



Shine Grey



Autumn Brown

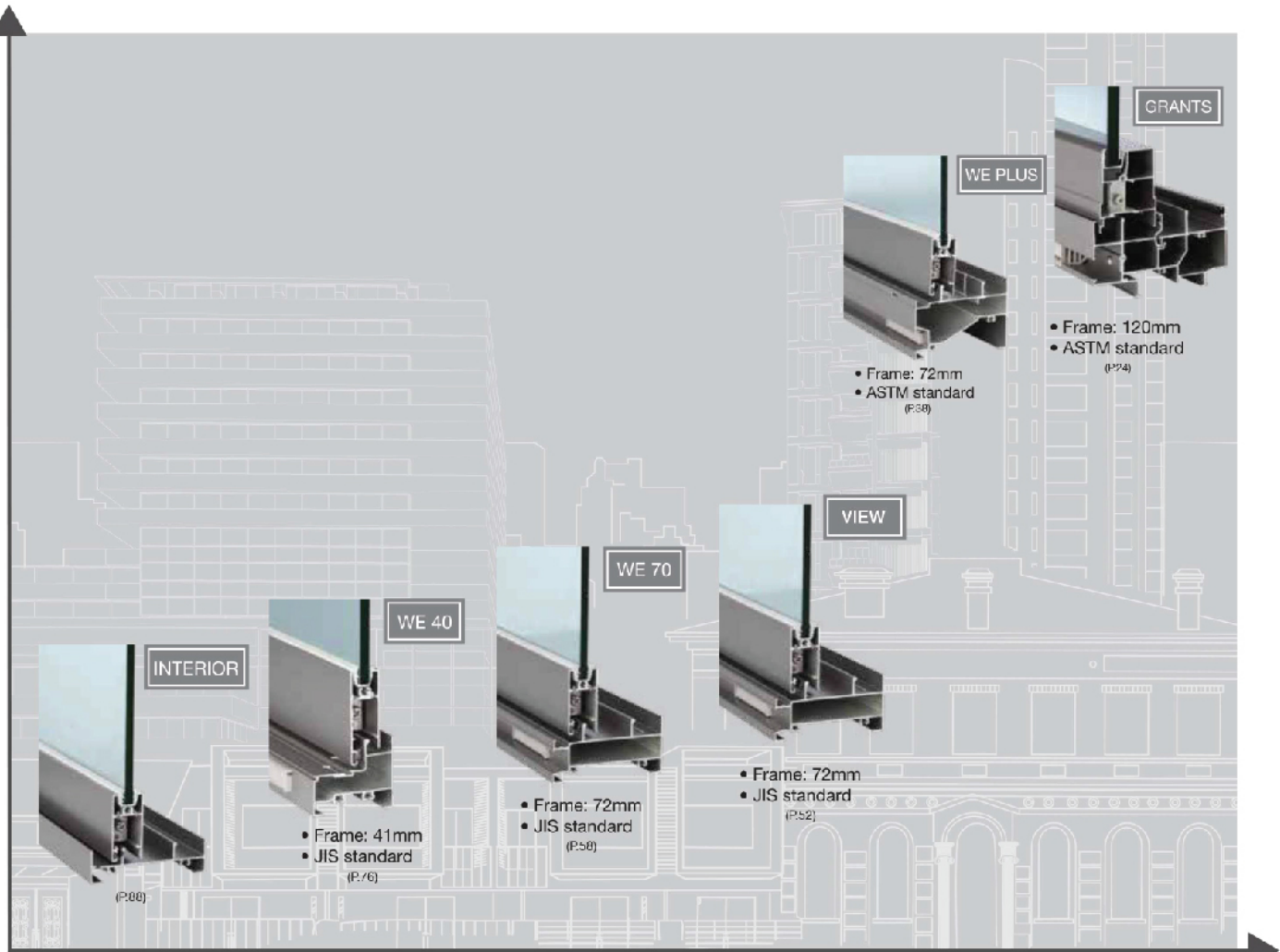


Natural Black



TOSTEM WINDOWS SERIES

WIND LOAD
PERFORMANCE




WATER CONTROL
PERFORMANCE



GRANTS Series (Windows)

							
Sliding Window (2 panels on 2 tracks)	Sliding Window (4 panels on 2 tracks)	Sliding Window (3 panels on 2 tracks) SFS	Fixed Window	Corner Fixed Window	Awning Window	Casement Window	Mixed Window
Product Detail Reference Drawing	P. 32 P. 117	P. 32 P. 118	P. 32 P. 116	P. 35 -	P. 37 P. 119	P. 34 P. 120	P. 35 P. 126-127

GRANTS Series (Doors)

						
Sliding Door (2 panels on 2 tracks)	Sliding Door (4 panels on 2 tracks)	Sliding Door (3 panels on 2 tracks) SFS	Sliding Door (3 panels on 3 tracks)	Sliding Door (6 panels on 3 tracks)	Out-Swing Door (Single)	Insect Screen for Awning & Casement
Product Detail Reference Drawing	P. 34 P. 121	P. 34 P. 122	P. 34 P. 120	P. 35 P. 124	P. 35 P. 125	P. 36 P. 128

WE PLUS Series (Windows)

							
Sliding Window (2 panels on 2 tracks)	Sliding Window (4 panels on 2 tracks)	Sliding Window (3 panels on 3 tracks)	Fixed Window	Corner Fixed Window	Awning Window	Casement Window	Mixed Window
Product detail Reference Drawing	H. 44 P. 130	H. 44 P. 130	H. 44 P. 132	H. 46 P. 133	H. 46 P. 131	H. 46 P. 132	H. 48 P. 138-139

WE PLUS Series (Doors)

						
Sliding Door (2 panels on 2 tracks)	Sliding Door (4 panels on 2 tracks)	Sliding Door (3 panels on 3 tracks)	Out-Swing Door (Single)	Out-Swing Door (Double)	In-Swing Door (Single)	In-Swing Door (Double)
Product detail Reference Drawing	P. 46 P. 134	P. 46 P. 134	P. 47 P. 136	P. 47 P. 136	P. 47 P. 137	P. 47 P. 137

VIEW & VIEW PLUS Series (Windows)

								
2 Panels Sliding Window	3 Panels SFS Sliding Window	4 Panels FSSF Sliding Window	Single Casement Window	Double Casement Window	Top Hung Window	Fixed Window	Corner Fixed Window (Custom size as project drawing)	Fixed Louver
Product detail Reference Drawing	P. 56	P. 56	P. 55-57	-	P. 55-57	-	-	-














VIEW & VIEW PLUS Series (Doors)

						
2 Panels Sliding Door	3 Panels SFS Sliding Door	3 Panels 3 Tracks Sliding Door	4 Panels Sliding Door	6 Panels 3 Tracks Sliding Door	Single Swing Door (Right or Left)	Double Swing Door (Right or Left)
Product detail Reference Drawing	P. 56 H. 141	- H. 141	P. 56	-	P. 141	-

WE 70 Series (Windows)

							
Sliding Window (2 panels on 2 tracks)	Sliding Window (4 panels on 2 tracks)	Sliding Window (3 panels on 2 tracks) SF3	Fixed Window	Corner Fixed Window	Awning Window	Casement Window	Double Casement Window
Product detail P. 68 Reference Drawing R. 142	Product detail P. 68 Reference Drawing R. 142	Product detail P. 68 Reference Drawing R. 142	Product detail P. 36 Reference Drawing R. 147	Product detail P. 68 Reference Drawing R. 147	Product detail P. 36 Reference Drawing R. 143	Product detail P. 68 Reference Drawing R. 144	Product detail P. 68 Reference Drawing R. 145-146
							
Aluminium Louver	Glass Louver	Mixed windows					
Product detail P. 70 Reference Drawing P. 148	Product detail P. 70 Reference Drawing P. 148	Product detail P. 75 Reference Drawing P. 157-158					

WE 70 Series (Doors)

								
Sliding Door (2 panels on 2 tracks)	Sliding Door (4 panels on 2 tracks)	Sliding Door (3 panels on 2 tracks) SF3	Sliding Door (3 panels on 3 tracks)	Sliding Door (6 panels on 3 tracks)	Ventilation Door	Out-Swing Door (Single)	Out-Swing Door (Double)	In-Swing Door (Single)
Product detail P. 71 Reference Drawing P. 149	Product detail P. 71 Reference Drawing P. 149	Product detail P. 71 Reference Drawing P. 149	Product detail P. 71 Reference Drawing P. 150	Product detail P. 72 Reference Drawing P. 150	Product detail P. 72 Reference Drawing P. 152	Product detail P. 72 Reference Drawing P. 150	Product detail P. 72 Reference Drawing P. 150	Product detail P. 73 Reference Drawing P. 154
								
In-Swing Door (Double)	Folding Door	Entrance Sliding Door (2 panels on 2 tracks)	Entrance Sliding Door (4 panels on 2 tracks)					
Product detail P. 73 Reference Drawing P. 154	Product detail P. 70-74 Reference Drawing P. 155-158	Product detail P. 74 Reference Drawing P. 151	Product detail P. 74 Reference Drawing P. 151					

WE 40 Series (Windows)

				
Single Sliding Window	Center Sliding Window	Fixed Window	Awning Window	Casement Window
Product detail P. 77 Reference Drawing P. 130	Product detail P. 77 Reference Drawing P. 130	Product detail P. 77 Reference Drawing P. 151	Product detail P. 77 Reference Drawing P. 161	Product detail P. 77 Reference Drawing P. 161

Interior Series

	On-wall Hanging door (1 panel on 1 track)	On-wall Hanging door (2 panels on 1 track)	In-wall Hanging door (1 panel on 1 track)	Hanging door (2 panels on 2 tracks)	Partition Door (2 panels on 2 tracks)	Partition Door (4 panels on 2 tracks)	Partition Door (3 panels on 3 tracks)	Partition Door (5 panels on 3 tracks)
Product detail	P. 00	P. 00	P. 00	P. 00	P. 01	P. 01	P. 01	P. 01
Reference Drawing	P. 162	P. 162	P. 160	P. 164	P. 165	P. 165	P. 163	P. 166



20 VENTILATION SYSTEM



1

Mullion integrated system

- ASTM: 10.7m³ (when closed)
- Available in GRANTS series



*Exclusive for projects

2

Transom integrated system

- Air tightness JIS: A-3 (when closed)
- Available in WE PLUS, and WE 70 series

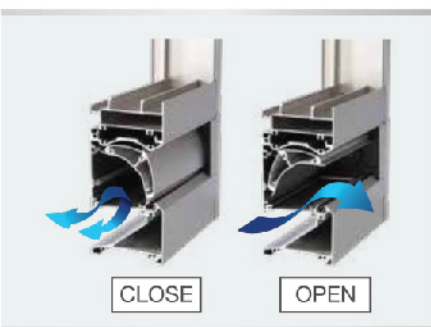
*Available in January 2021



TOSTEM VENTILATION SYSTEM

TOSTEM minimal design ventilation systems let wind and light flow into the living space, enabling us to delight in the atmosphere and the sky, and obtain a sense of complete freshness with style.

Desain ventilasi minimalis dari TOSTEM memberi ruang untuk angin dan cahaya mengalir ke ruang hidup, membuat kita menikmati suasana dan langit, serta merasakan kesegaran dengan indah.

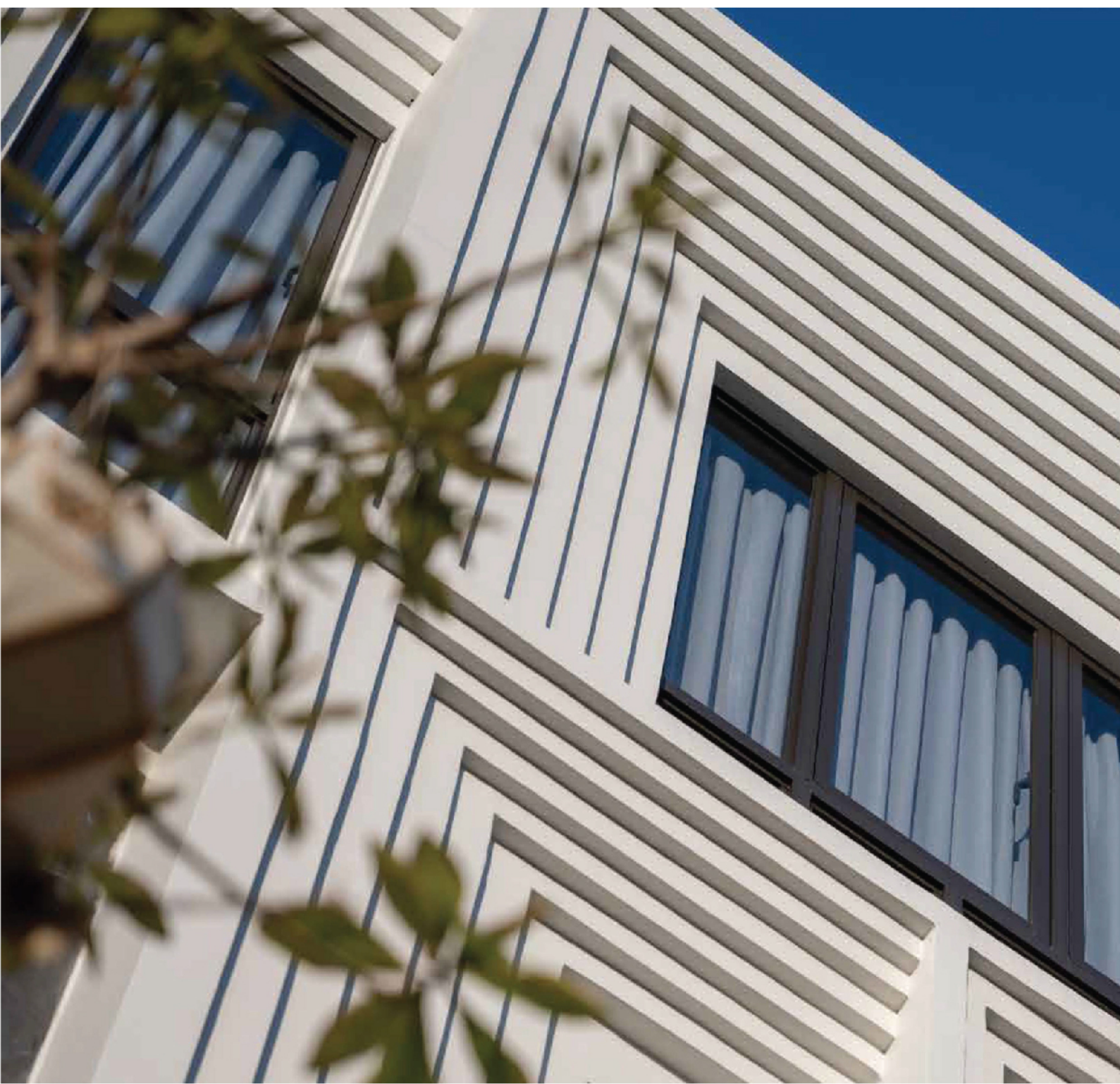


3

Door integrated system

- Air tightness JIS: A-3 (when closed)
- Available in WE 70 series







GRANTS SERIES

GRANTS is TOSTEM's flagship series. It's innovative design results in a larger surface area of glass for panoramic views. This takes the standard of aluminium windows and doors to another level.

GRANTS adalah seri unggulan TOSTEM. Desain inovatifnya menghasilkan area permukaan kaca yang lebih besar untuk pemandangan panorama, yang membawa standar produk jendela dan pintu aluminium ke tingkat yang lebih tinggi.

SPECIFICATIONS

Frame depth Ketebalan kusen	101.6 mm 120 mm (2 tracks sliding) 178 mm (3 tracks sliding)
Height of sill Ketinggian ambang bawah	50 mm
Glass thickness Ketebalan kaca	Up to 31.5 mm

COLORS



PERFORMANCES



Wind pressure

ASTM E330: 2000 Pa



Water tightness

ASTM E330: 300 Pa



Air tightness

ASTM E283: 10.7m³ / hr·m²



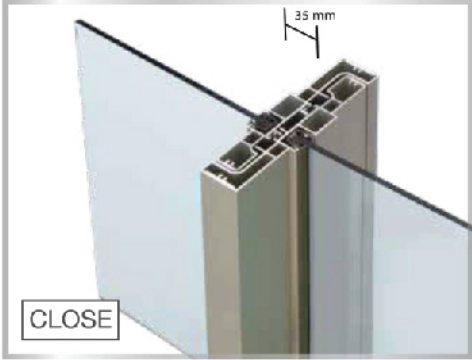
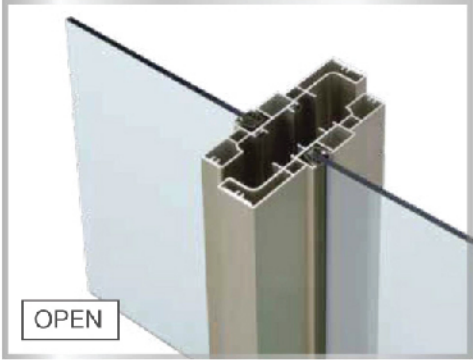
Noise insulation

JIS: 25 dB

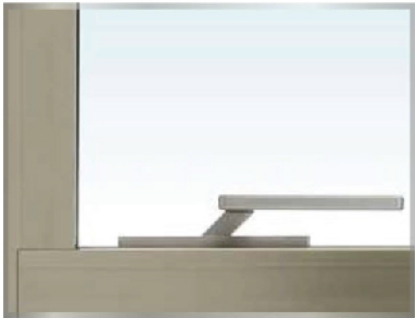
* Sound performance test has been done in JIS standard controlled environment. Performance will vary by room condition. Please consult with sound insulation specialist.

* Uji ketahanan suara telah dilakukan dalam lingkungan terkontrol dengan standar JIS. Tingkat ketahanan akan bervariasi sesuai dengan kondisi ruang. Silakan berkonsultasi dengan spesialis ketahanan suara.

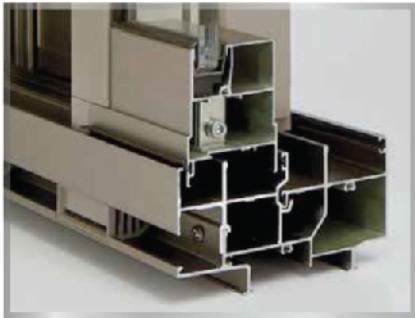
UNIQUE FEATURES



Overlapping meeting stile (4 panels sliding)
 Kusen pertemuan tumpang tindih (jendela dan pintu geser 4 daun)



Conceal panel design
 Desain panel tersembunyi



Double barrier drainage system
 Sistem drainase dengan penghalang ganda



"L-Fit" design hardware
 Perangkat keras dengan desain "L-Fit"

GRANTS VENTILATIONS

*Exclusive for projects



GRANTS ventilation system is a perfect solution for high-rise projects. The ventilation system is fully embedded into the mullion so as to give clear and uninterrupted panoramic views, assures healthy living.

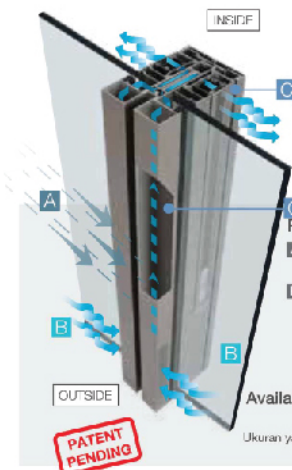
Sistem ventilasi GRANTS adalah solusi sempurna untuk bangunan bertingkat tinggi. Sistem ventilasi tertanam sepenuhnya ke dalam ambang tengah jendela sehingga memberikan pandangan yang jelas dan tanpa gangguan, menjamin kehidupan yang sehat.

UNIQUE FEATURES

GRANTS Ventilation System
Sistem Ventilasi GRANTS

Easy maintenance
Perawatan mudah

Easy to operate
Mudah dioperasikan



Position of air-intake holes

- A** Rain from front side cannot go in. Hujan dari sisi depan tidak dapat masuk.
- B** Air enters from side of mullion. Udara masuk dari sisi ambang tengah.

Position of ventilation slot

- C** Ventilation slots are located higher than air-intake holes, which allows incoming water to drain down while air can flow in. Slot ventilasi terletak lebih tinggi dari lubang masuknya udara, yang memungkinkan air yang masuk mengalir ke bawah sementara udara dapat mengalir masuk.

Available size : Mullion with ventilation slot can be up to 3 m high
: Ventilation slot can be selected from 460 mm and 860 mm
Ukuran yang tersedia : Ambang tengah dengan slot ventilasi dapat mencapai ketinggian 3 m
: Slot ventilasi dapat dipilih dari 460 mm dan 860 mm



SPECIFICATION

ASTM performance

	Slot Open	Slot Close
Air tightness Kekedapapan udara	N/A	10.7m ³ /l·m ²
Water tightness Kekedapapan air	240Pa	300Pa
Wind pressure resistance Ketahanan tekanan angin	2000Pa	2000Pa

Test result



Test Specimen
• Size : H2500 mm, W2100 mm
• 1 bed + 1 fix combination
• Ventilation slots: 360 mm
on both side of mullion

Pressure (Pa)	Wind speed (m/s)	Air flow (m ³ /h)
5	2.08	14.5
10	3.30	23.0
20	5.23	36.4
50	8.70	60.6
75	10.80	75.2
100	12.52	87.1
150	15.35	106.8

GRANTS

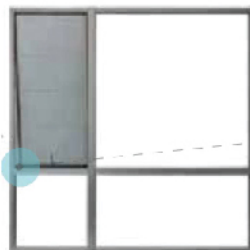
SCREEN SYSTEM

FOR AWNING & CASEMENT WINDOWS

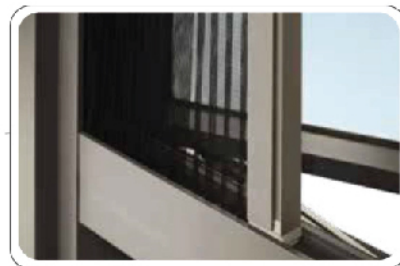
- Fully embedded in the frame
Tertanam sempurna di dalam bingkai
- Easy to remove for maintenance
Mudah dilepas untuk perawatan



OPEN



CLOSE



FOR SLIDING AND SWING DOORS



OPEN



CLOSE



- Same color sub-frame
Sub-bingkai dengan warna yang sama
- Flat sill design for safety
Desain ambang datar untuk keamanan



- Easy to remove
Mudah untuk dilepaskan





GRANTS PROJECT REFERENCE





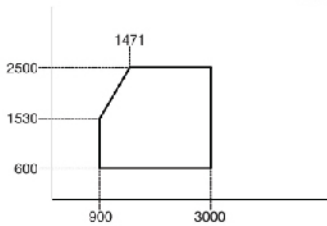
GRANTS PROJECT REFERENCE

WINDOWS

Sliding Window (2 panels on 2 tracks)



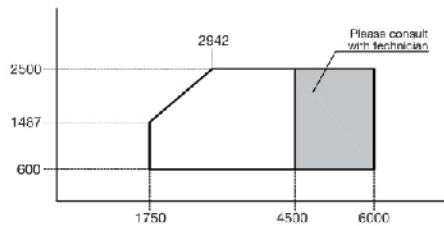
- Available in SG and IG unit
- Select panel position from L/R
- Single slide (L/R) available
- Handle option
- Pleated insect screen available
- Glazing Finish
 - 5 - 6 mm : Sealant
 - 8 - 13.52 mm : Glazing channel
 - 18 - 31.52 mm : Sealant



Sliding Window (4 panels on 2 tracks)



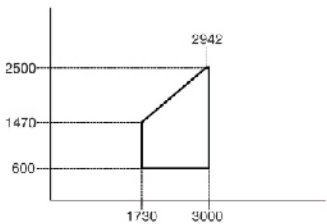
- Available in SG and IG unit
- Handle option
- Pleated insect screen available
- Select from (SSSS, FSSF)
- Glazing Finish
 - 5 - 6 mm : Sealant
 - 8 - 13.52 mm : Glazing channel
 - 18 - 31.52 mm : Sealant



Sliding Window (3 panels on 2 tracks) SFS



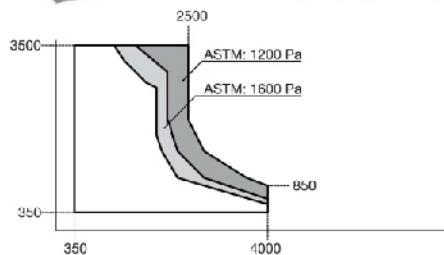
- Available in SG and IG unit
- Handle option
- Pleated insect screen available
- Glazing Finish
 - 5 - 6 mm : Sealant
 - 8 - 13.52 mm : Glazing channel
 - 18 - 31.52 mm : Sealant



Fixed Window



- For oversize fixed windows, please consult with our technician
- Available in SG and IG unit
- Glazing Finish
 - 5 - 6 mm : Sealant
 - 8 - 13.52 mm : Glazing bead
 - 18 - 24 mm : Sealant
 - 25 - 31.52 mm : Glazing bead

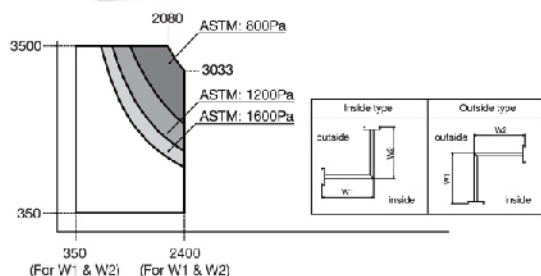


WINDOWS

Corner Fixed Window



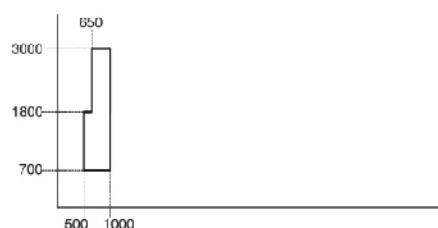
- Only available in SG
- Only available with sealant finish
- Both in/outward corner available



Awning Window



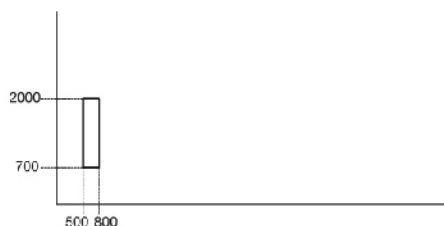
- Available in SG and IG unit
- In case of IG, please consult with our technician for size and performance
- Pleated insect screen available
- Glazing Finish
 - 5 - 6 mm : Sealant
 - 8 - 13.52 mm : Glazing channel
 - 28 - 31.52 mm : Glazing channel



Casement Window (with friction stay)



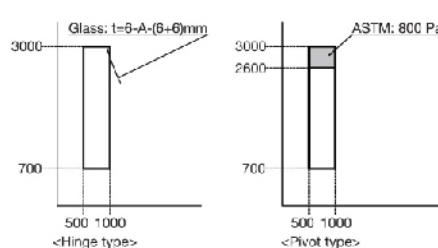
- Available in SG and IG unit
- In case of glass thickness over 8 mm and IG unit please consult with our technician
- Select from L/R
- Pleated insect screen available
- Glazing Finish
 - 5 - 6 mm : Sealant
 - 8 - 13.52 mm : Glazing channel
 - 28 - 31.52 mm : Glazing channel



Casement Window (with hinge or pivot)



- Available in SG and IG unit
- Select from L/R
- Pleated insect screen available
- Glazing Finish
 - 5 - 6 mm : Sealant
 - 8 - 13.52 mm : Glazing channel
 - 28 - 31.52 mm : Glazing channel

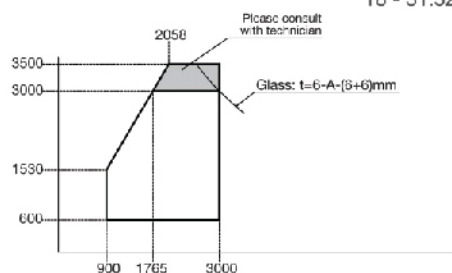


DOORS

Sliding Door (2 panels on 2 tracks)



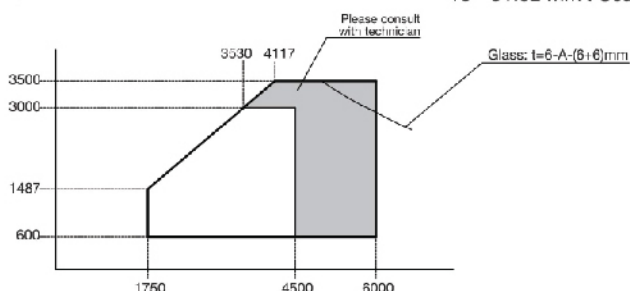
- Available in SG and IG unit
- Select panel position from L/R
- Single slide (L/R) available
- Handle option
- Pleated insect screen available
- Glazing Finish
 - 5 - 6 mm : Sealant
 - 8 - 13.52 mm : Glazing channel
 - 18 - 31.52 mm : Sealant



Sliding Door (4 panels on 2 tracks)



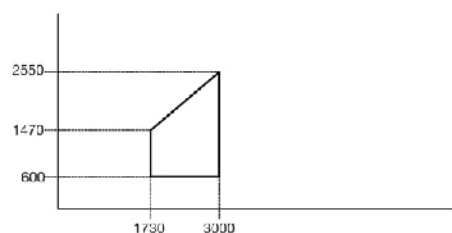
- Available in SG and IG unit
- Handle option
- Pleated insect screen available
- Select from (SSSS, FSSF)
- Glazing Finish
 - 5 - 6 mm : Sealant
 - 8 - 13.52 mm : Glazing channel
 - 18 - 31.52 mm : Sealant



Sliding Door (3 panels on 2 tracks) SFS



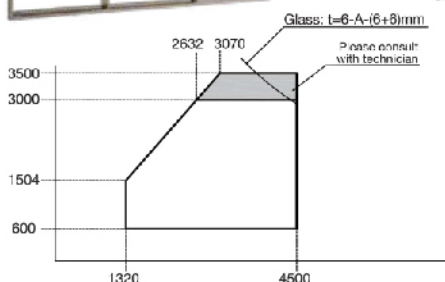
- Available in SG and IG unit
- Handle option
- Pleated insect screen available
- Glazing Finish
 - 5 - 6 mm : Sealant
 - 8 - 13.52 mm : Glazing channel
 - 18 - 31.52 mm : Sealant



Sliding Door (3 panels on 3 tracks)



- Available in SG and IG unit
- Select panel position from L/R
- Handle option
- Pleated insect screen available
- Select from (SSS, FSS, SSF)
- Glazing Finish
 - 5 - 6 mm : Sealant
 - 8 - 13.52 mm : Glazing channel
 - 18 - 31.52 mm : Sealant



DOORS

Sliding Door (6 panels on 3 tracks)

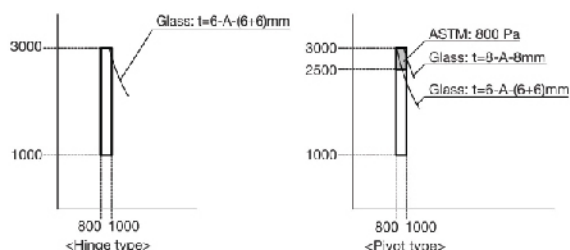
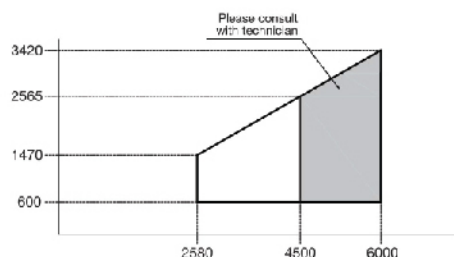
Out-Swing Door (Single)



- Available in SG and IG unit
- Handle option
- Pleated insect screen available
- Select from (SSSSSS, FSSSSF)
- Glazing Finish
 - 5 - 6 mm : Sealant
 - 8 - 13.52 mm : Glazing channel
 - 18 - 31.52 mm : Sealant



- Available in SG and IG unit
- Pivot hinge option
- Door closer NOT available
- Select from L/R
- Pleated insect screen available
- Glazing Finish
 - 5 - 6 mm : Sealant
 - 8 - 13.52 mm : Glazing channel
 - 18 - 27 mm : Sealant
 - 28 - 31.52 mm : Glazing channel



MIXED & COMBINATION WINDOW

- Mullions are available for various windows and doors. Please consult with our sales representative for selection.
 - 180°mullion (standard and reinforced)
 - 90°mullion (only for outward corner)

UNIT WINDOWS

Bottom Windows	Top Windows			
	Single Awning	Single Casement	Single Fix	Sliding
Single Awning			●	
Single Casement			●	
Swing Door			●	
Single Fix	●	●	●	●
Double Fix				●

OPTIONS

Insect screen for awning & casement



- For awning and casement window over 2000 mm in height, use insect sliding screen

