

TOSTEM

FRAME

Framing the Beauty of Living

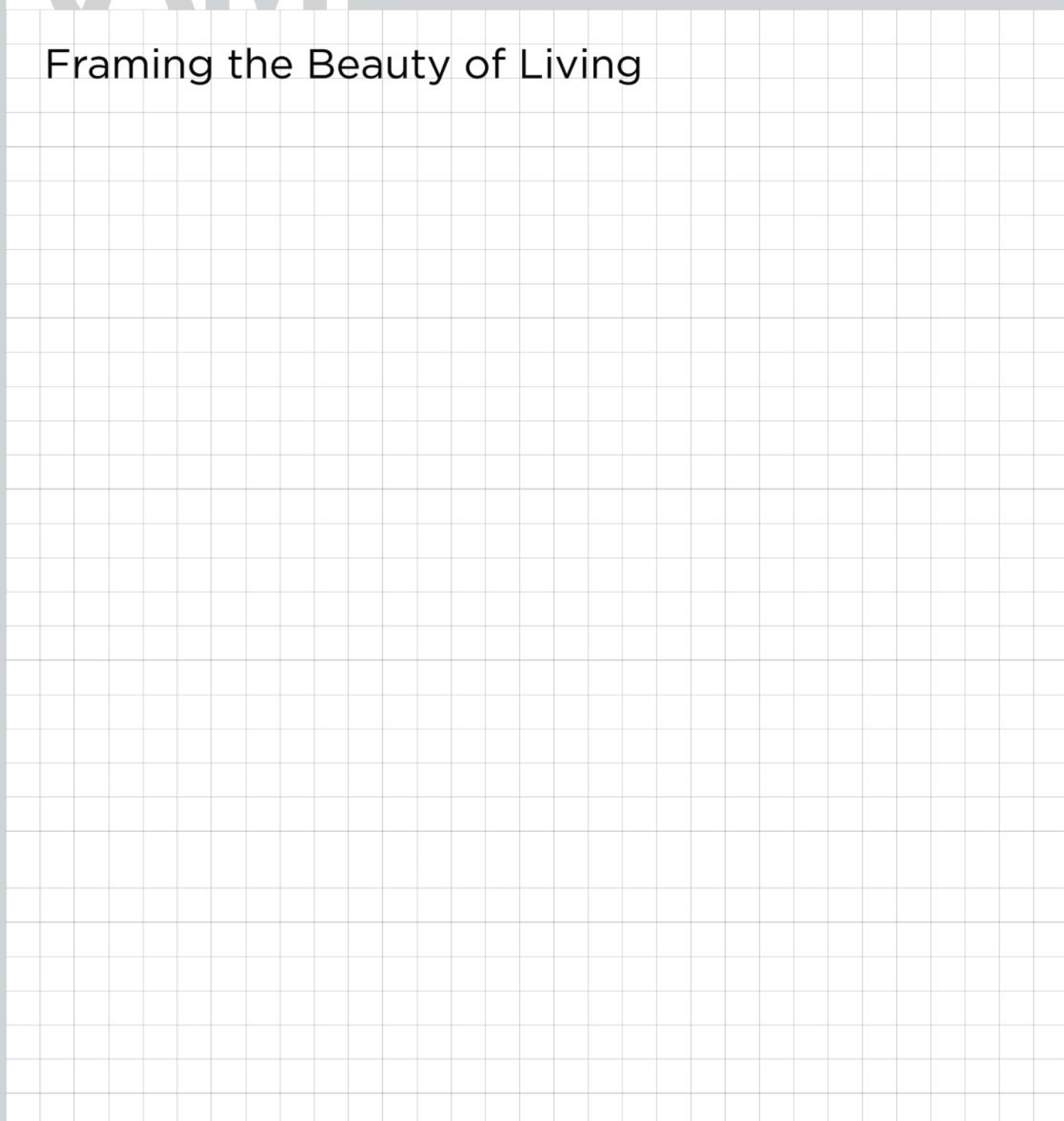


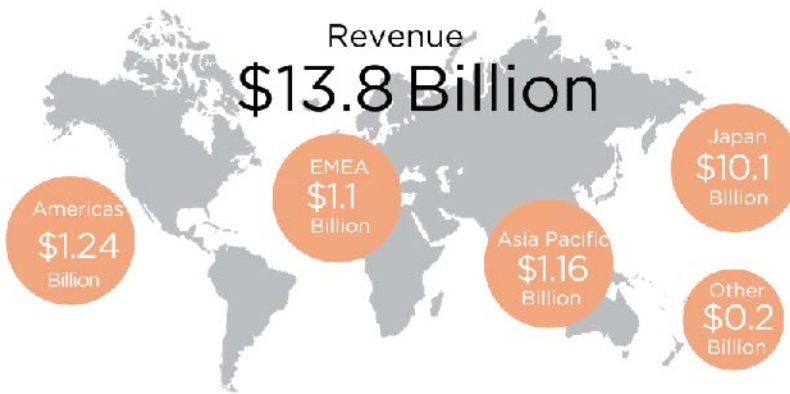
TABLE of CONTENTS

CORPORATE PROFILE	4
TOSTEM BRAND	6
TOSTEM TOTAL HOUSING SOLUTION	10-11
COLOR PROCESSING	12-13
PRE ENGINEERED SYSTEM	14-15
L-FIT DESIGN	16-17
QUALITY ASSURANCE	18-19
TOSTEM AIRFLOW SYSTEM	20-21
TOSTEM WINDOW AND DOOR SERIES	22-23
PRODUCTS INDEX	24-27
GRANTS SERIES	30-39
ATIS PLUS SERIES	40-45
WE PLUS SERIES	46-55
VIEW & VIEW PLUS SERIES	56-61
ATIS SERIES	64-75
WE 70 SERIES	76-93
E'Z SERIES	94-97
MATSU SERIES	98-101
INTERIOR SERIES	102-105
ENTRANCE DOOR	106-123
GIESTA SERIES	108-123
REFERENCE DRAWINGS	126-197
CONTACT	200



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.

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. Established 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.

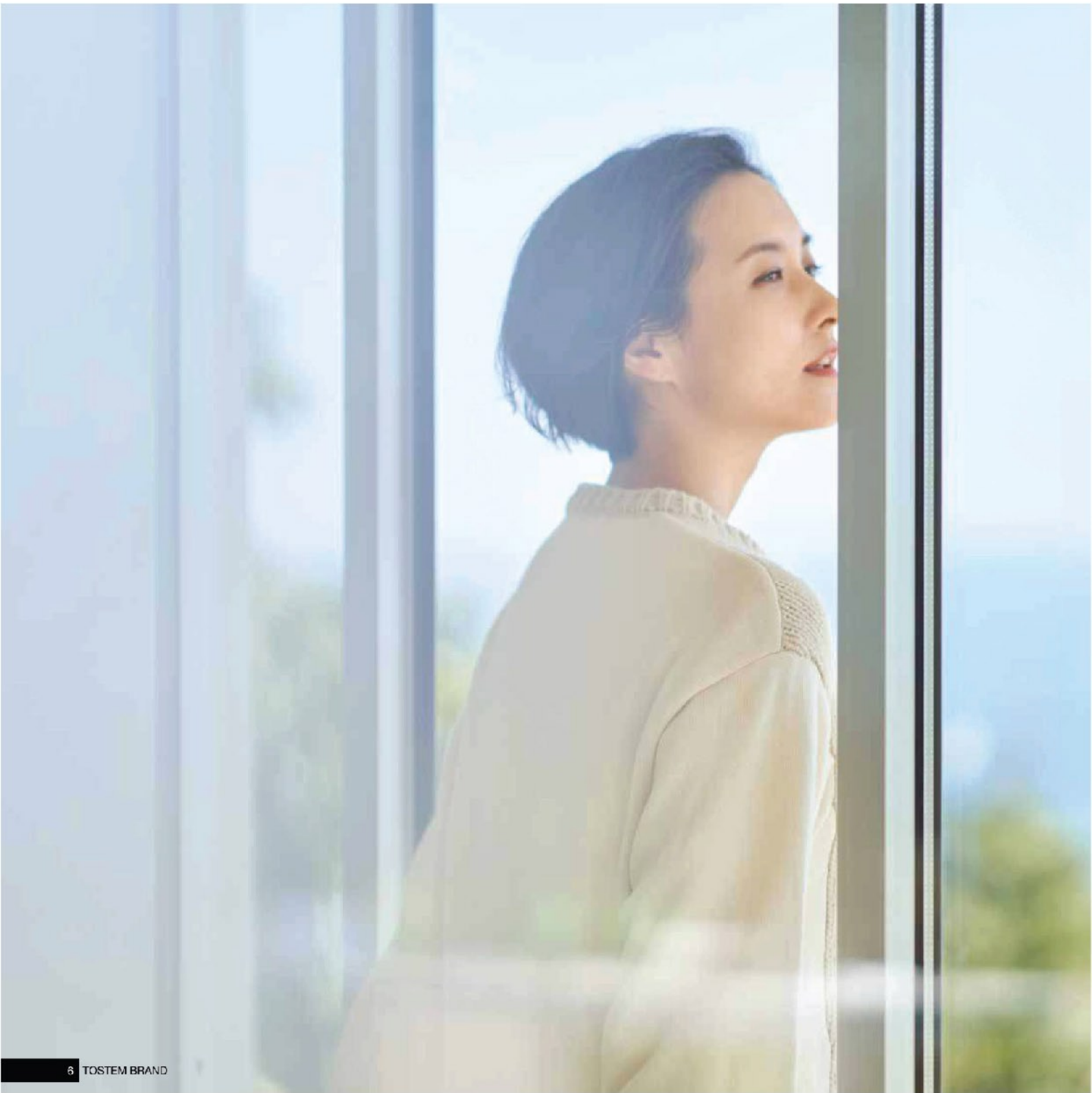
TOSTEM Factory in Thailand Established in 1987

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

TOSTEM Factory in Indonesia Established in 2014

Products : Aluminium windows, doors and exteriors
Aluminium extrusion bars,
Aluminium OEM industrial parts
Factory : Pondok Ungu, Bekasi, West Java
Showroom : Let. Jend. S. Parman Kav. 32-34,
Jakarta







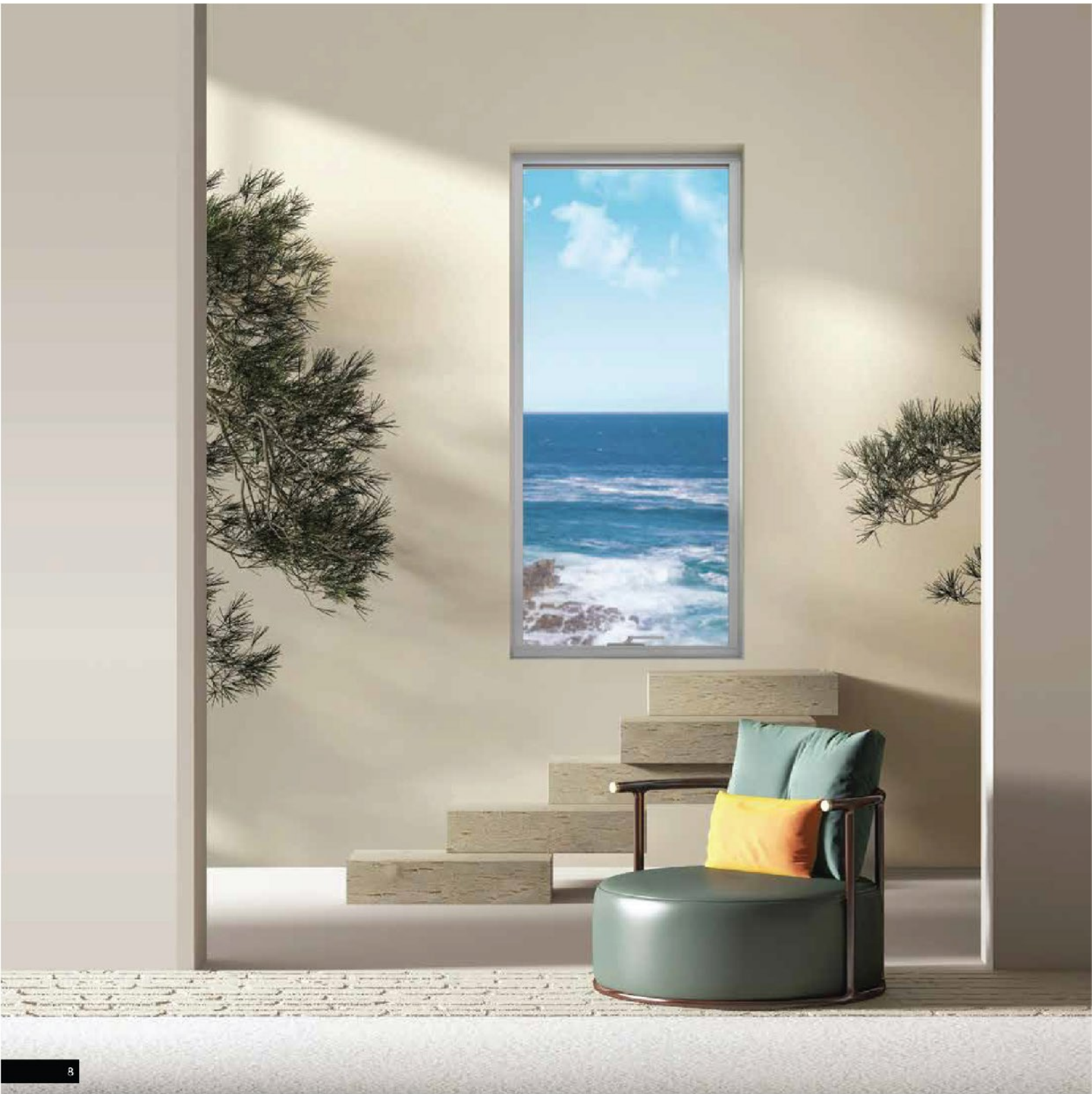
TOSTEM BRAND

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.





FRAMING THE BEAUTY OF LIVING



It is not a window-frame; It is moving art.
Our end goal is not just window frames.
It is beauty.

Because we believe nothing is
more beautiful than life.

We invite you to enjoy.

TOSTEM TOTAL HOUSING SOLUTION





Interior Series

Windows and Doors

GIESTA Entrance Door Series

TOSTEM engages in product development, manufacturing, and marketing of a diverse range of home products, such as window sashes, 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.

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.

WINDOWS & DOORS

Let our aluminum windows and doors frame your world. Our windows and doors come in a variety of sturdy frames to offer you effortless maintenance, years of satisfied use and of course, a great view.

JENDELA & PINTU

Biarkan jendela dan pintu aluminium kami membingkai dunia Anda. Jendela dan pintu kami hadir dalam berbagai bingkai kokoh untuk menawarkan perawatan yang mudah, penggunaan yang memuaskan selama bertahun-tahun, dan tentu saja, pemandangan yang indah.

ENTRANCE DOOR

Stepping into your home should make you relieved, comfortable, and happy. GIESTA high quality wood-pattern or metallic finish door, equipped with user-friendly handle with high security lock system gives better convenience to both family and visitors and make us feel glad to be home.

PINTU MASUK


Masuk ke rumah Anda seharusnya membuat Anda merasa lega, nyaman dan bahagia. Pintu dengan hasil akhir pola kayu atau metalik berkualitas tinggi dari GIESTA, dilengkapi dengan pegangan yang mudah digunakan dengan sistem kunci keamanan tinggi memberikan kenyamanan yang lebih bagi keluarga maupun pengunjung, serta membuat Anda merasa senang berada di rumah.

EXTERIOR

FENCE & GATE is a perfect fencing choice for your residence. Our fence and gate solution will enhance the look, feel and overall value of your property, and provide you with the safety and security that your family needs.

EKSTERIOR

FENCE & GATE adalah pilihan pagar yang sempurna untuk tempat tinggal Anda. Solusi pagar dan gerbang kami akan meningkatkan tampilan, nuansa, dan nilai keseluruhan properti Anda, serta memberi keselamatan dan keamanan yang dibutuhkan keluarga Anda.



IVORY WHITE

NATURAL WHITE

NATURAL SILVER

SHINE GREY

AUTUMN BROWN

NATURAL BLACK

COLOR PROCESSING

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

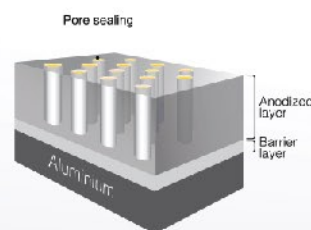
Hasil akhir yang dianodisasi TEXGUARD TOSTEM yang unik memberikan tingkat perlindungan yang tinggi, bersamaan dengan menunjukkan tampilan indah dari aluminium alami. TOSTEM menawarkan berbagai variasi warna, yang keindahannya dapat Anda nikmati dalam jangka waktu yang lama, menambah kebahagiaan ke dalam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

Manfaat TEXGUARD

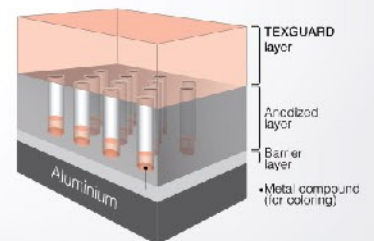
- Retensi warna - TEXGUARD melindungi aluminium dari kondisi lingkungan yang keras, membuat kilap warna perlahan selidaknya selama 40 tahun.
- Peringkatan kekerasan - Lapisan padat TEXGUARD meningkatkan kekerasan dan memberikan ketahanan gores pada permukaan aluminium.
- Kemudahan pembersihan - Kualitas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

Certification / Sertifikasi

JIS H4100 (No. TH9009), JIS H8602 (No. TH9010), TIS 218-2520,
TIS 234-2530, AAMA 612, ISO 9001:2015 (No. TI193/4848),
ISO 14001:2004 (No. TH60/2399)



CONVENTIONAL ANODIZE



TOSTEM TEXGUARD ANODIZE



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, aluminum 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.

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 sistem dengan kualitas tinggi yang sama.



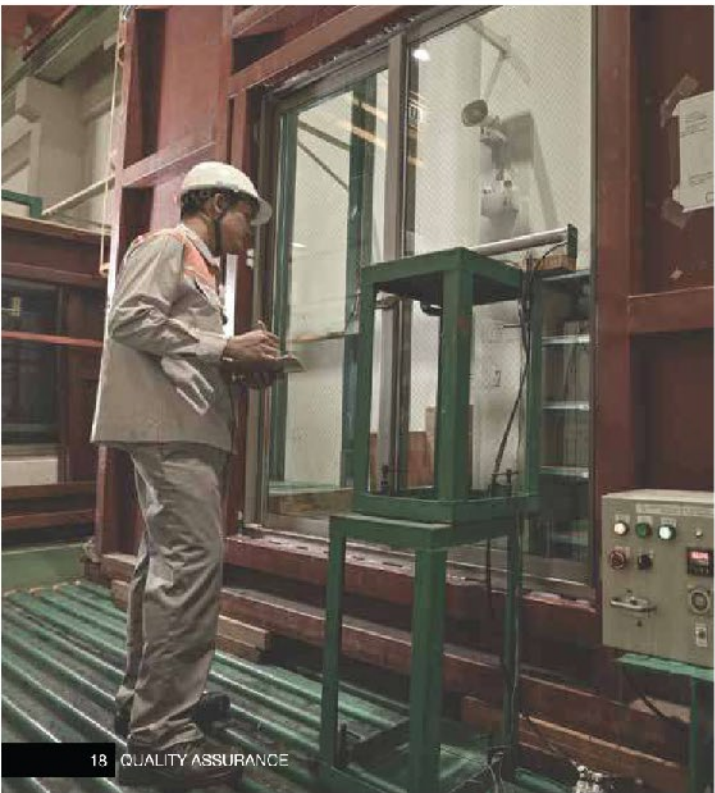


L-FIT DESIGN

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.







QUALITY ASSURANCE

Quality and standard is the core of TOSTEM product. Japan is well-known for their rigorous standard control by Quality Assurance and Quality Control systems to ensure that the product meets international industrial standard: Japanese Industrial Standard (JIS) and ASTM International.

Kualitas dan standar adalah inti dari produk TOSTEM. Jepang terkenal dengan kontrol standar yang ketat dengan Sistem Jaminan Kualitas dan Kontrol Kualitas untuk memastikan bahwa produk memenuhi standar industri internasional: Standar Industri Jepang (JIS) dan ASTM Internasional.



WATER PENETRATION TESTING

PENGUJIAN PENETRASI AIR



SOUND INSULATION TESTING

PENGUJIAN ISOLASI SUARA



AIR LEAKAGE TESTING

PENGUJIAN KEBOCORAN UDARA



STRUCTURAL PERFORMANCE TESTING

PENGUJIAN KINERJA STRUKTURAL



DURABILITY TESTING

PENGUJIAN KETAHANAN



ENVIRONMENTAL TESTING

PENGUJIAN LINGKUNGAN



LIGHT IRRADIATION TESTING

PENGUJIAN PENYINARAN CAHAYA



SUNSHINE WEATHER TESTING

PENGUJIAN CUACA







TOSTEM AIRFLOW SYSTEM

TOSTEM AirFlow System includes GIESTA AirFlow: steel wooden pattern door with integrated ventilation, AirFlow Door: ventilation door with sliding window for multiple ventilation levels and AirFlow Slot: slot for ventilation with flap in top-notch design compatible with various TOSTEM window designs seamlessly.

TOSTEM AirFlow System termasuk GIESTA AirFlow: pintu baja pola kayu dengan ventilasi terintegrasi, AirFlow Door: pintu ventilasi dengan jendela geser untuk beberapa tingkat ventilasi dan AirFlow Slot: slot untuk ventilasi dengan penutup dalam desain terbaik yang kompatibel dengan berbagai desain jendela TOSTEM.

1 GIESTA AIRFLOW



Close



Open

2 AIRFLOW SLOT (available for WE 70 & WE Plus)



Close



Open

3 AIRFLOW DOOR



Close



Open

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

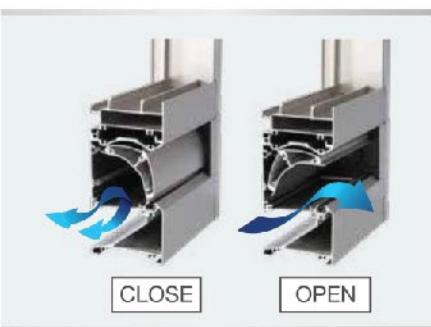
*Available in January 2021

3

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



TOSTEM WINDOW AND DOOR SERIES

FRAME DEPTH

100 mm
(Glass: Up to 32 mm)

88 mm
(Glass: Up to 22 mm)

70 mm
(Glass: Up to 8 mm)

ATIS

- Frame depth : 80-132 mm
- Height of sill : 55 mm
- Wind load : 1200Pa (JIS)
- Water : 250Pa (JIS)



(P.58)

INTERIOR SERIES

- Frame depth : 70-104 mm
- Height of sill : 0-20 mm
- Wind Load : N/A
- Water : N/A



(P.102)

WE 70 SERIES

- Frame depth : 70-104 mm
- Height of sill : 35 mm
- Wind Load : 800Pa (JIS)
- Water : 150Pa (JIS)



(P.76)

VIEW & VIEW PLUS

- Frame depth : 70-104 mm
- Height of sill : 35 mm
- Wind Load : 850Pa (JIS)
- Water : 180Pa (JIS)

(P.56)



GRANTS SERIES

- Frame depth : 100-178 mm
- Height of sill : 50 mm
- Wind Load : 2000Pa (ASTM)
- Water : 300Pa (ASTM)



(P.30)

ATIS PLUS

- Frame depth : 80-132 mm
- Height of sill : 55 mm
- Wind load : 2000Pa (ASTM)
- Water: 300Pa (ASTM)



(P.64)

WE PLUS SERIES

- Frame depth : 70-104 mm
- Height of sill : 35 mm / 50 mm
- Wind Load : 1600Pa (ASTM)
- Water : 240Pa (ASTM)



(P.46)



DESIGN & PERFORMANCE

PRODUCTS Index

GRANTS Series (Windows)



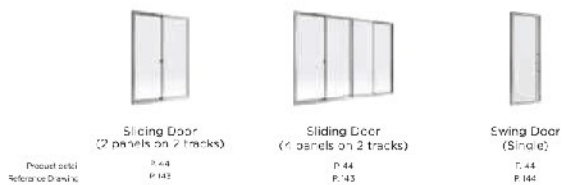
GRANTS Series (Doors)



ATIS PLUS Series (Windows)



ATIS PLUS Series (Doors)



WE PLUS Series (Windows)



WE PLUS Series (Doors)



VIEW & VIEW PLUS Series (Windows)

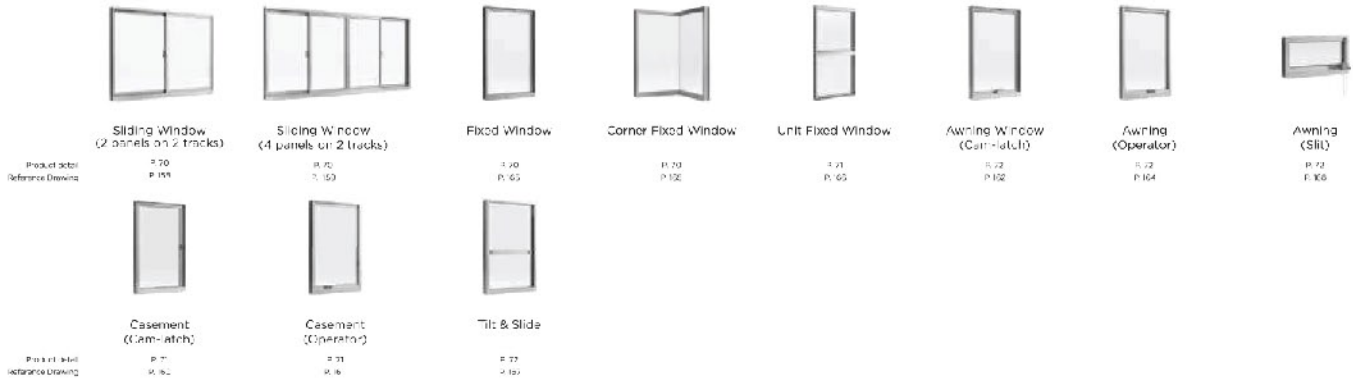


VIEW & VIEW PLUS Series (Doors)



PRODUCTS Index

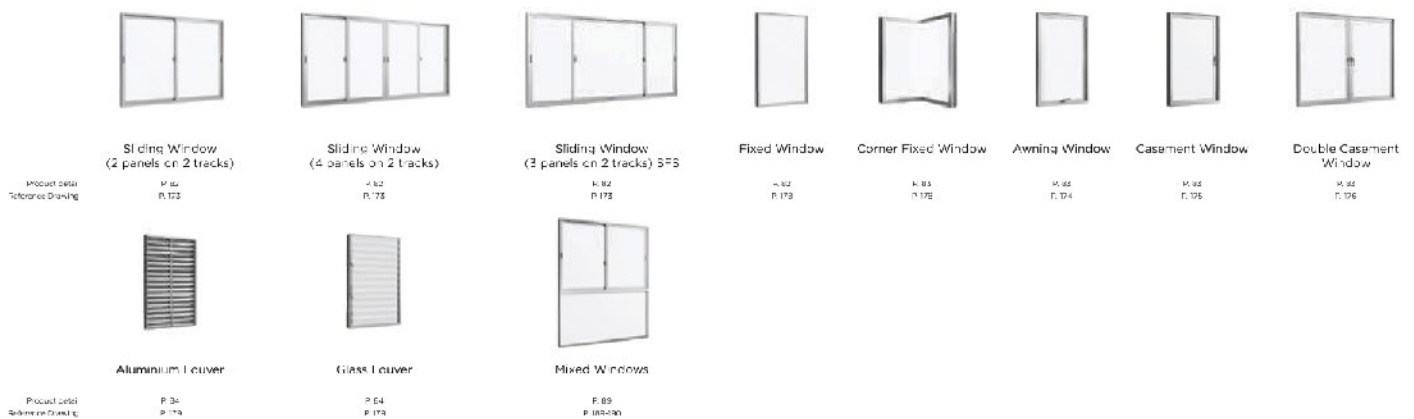
ATIS Series (Windows)



ATIS Series (Doors)



WE 70 Series (Windows)



WE 70 Series (Doors)



Sliding Door
(2 panels on 2 tracks)

Product detail
Reference Drawing

P. 87
R. 181



Sliding Door
(4 panels on 2 tracks)

P. 85
R. 8



Sliding Door
(3 panels on 2 tracks) 5:5

P. 85
R. 181



Sliding Door
(3 panels on 3 tracks)

P. 85
R. 182



Sliding Door
(6 panels on 3 tracks)

P. 85
R. 82



AirFlow Door

P. 86
R. 187



Out-Swing Door
(Single)

P. 90
R. 83



Out-Swing Door
(Double)

Product detail
Reference Drawing

P. 83
R. 188



In-Swing Door
(Single)

P. 87
R. 190



In-Swing Door
(Double)

P. 87
R. 190



Folding Door

P. 87-88
P. 187-188



Entrance Sliding Door
(2 panels on 2 tracks)

P. 30
P. 183



Entrance Sliding Door
(4 panels on 2 tracks)

P. 30
P. 183

Interior Series



On-wall Hanging Door
(1 panel on 1 track)

Product detail
Reference Drawing

P. 104
R. 191



On-wall Hanging Door
(2 panels on 1 track)

P. 104
R. 191



In-wall Hanging Door
(1 panel on 1 track)

P. 124
R. 182



Hanging Door
(2 panels on 2 tracks)

P. 104
R. 186



Partition Door
(2 panels on 2 tracks)

P. 105
R. 187



Partition Door
(4 panels on 2 tracks)

P. 105
R. 184



Partition Door
(3 panels on 3 tracks)

P. 106
R. 186



Partition Door
(6 panels on 3 tracks)

Product detail
Reference Drawing

P. 106
R. 186





GRANTS Series

GRANTS is TOSTEM's flagship series. Its 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



COLOR



Natural White



Natural Silver



Shine Grey



Autumn Brown



Natural Black

PERFORMANCES

WIND PRESSURE



ASTM E330:
2000 Pa

WATER TIGHTNESS



ASTM E330:
300 Pa

AIR TIGHTNESS



ASTM E283:
10.7m³ / h·m²

NOISE INSULATION



JIS:
25 dB

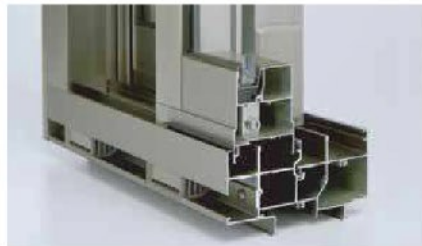
- * Sound performance test has been done in JIS standard controlled environment. Performance will vary by room condition. Please consult with sound insulation specialist.
- * Uji kedapbunyi suara telah dilakukan dalam lingkungan terkontrol dengan standar JIS. Tingkat kedapbunyi akan bervariasi sesuai dengan kondisi ruang. Silakan berkonsultasi dengan spesialis kedapbunyi suara.

UNIQUE Features



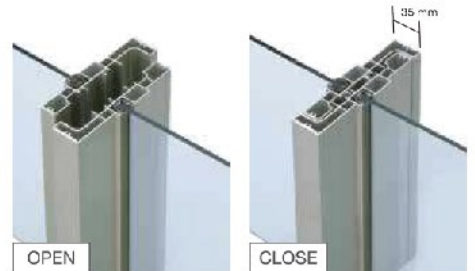
CONCEALED PANEL DESIGN + L-FIT HANDLE

Desain panel tersembunyi + pegangan L-FIT



DOUBLE BARRIER DRAINAGE SYSTEM

Sistem drainase dengan proteksi ganda



OVERLAPPING MEETING STILE (4 Panels Sliding)

Kusen pertemuan tumpang tindih (jendela dan pintu geser 4 daun)

GRANTS Screen System

FOR AWNING & CASEMENT WINDOWS

Untuk jendela Awning & Casement

- **FULLY EMBEDDED IN THE FRAME.**
Tertanam sempurna di dalam bingkai

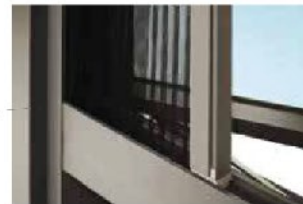


OPEN

- **EASY TO REMOVE FOR MAINTENANCE.**
Mudah dilepas untuk perawatan



CLOSE



FOR SLIDING AND SWING DOORS

Untuk Pintu Sliding dan Swing



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 di epaskan

WINDOWS

Sliding Window (2 panels on 2 tracks)



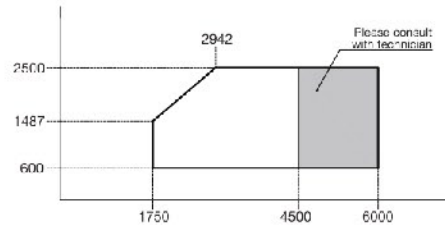
- Available in SG and IG unit
- Select panel position from L/R
- Single slide (L/R) available
- Handle option
- Pleated insect screen available
- Glazing Finish
 - 5 - 6 mm : Sealant
 - 8 - 13.52 mm : Glazing channel
 - 18 - 31.52 mm : Sealant



Sliding Window (4 panels on 2 tracks)



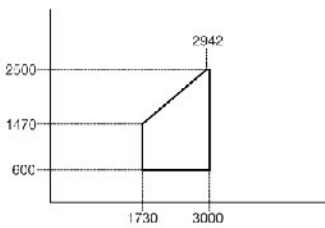
- Available in SG and IG unit
- Handle option
- Pleated insect screen available
- Select from (SSSS, FSSF)
- Glazing Finish
 - 5 - 6 mm : Sealant
 - 8 - 13.52 mm : Glazing channel
 - 18 - 31.52 mm : Sealant



Sliding Window (3 panels on 2 tracks) SFS



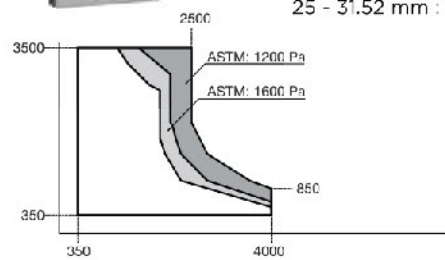
- Available in SG and IG unit
- Handle option
- Pleated insect screen available
- Glazing Finish
 - 5 - 6 mm : Sealant
 - 8 - 13.52 mm : Glazing channel
 - 18 - 31.52 mm : Sealant



Fixed Window



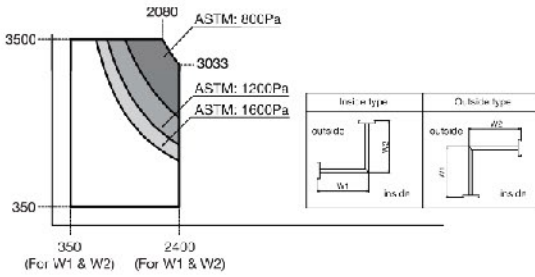
- For oversize fixed windows, please consult with our technician
- Available in SG and IG unit
- Glazing Finish
 - 5 - 6 mm : Sealant
 - 8 - 13.52 mm : Glazing bead
 - 18 - 24 mm : Sealant
 - 25 - 31.52 mm : Glazing bead



Corner Fixed Window



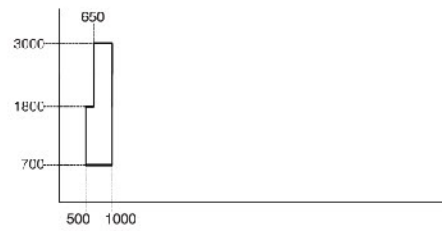
- Only available in SG
- Only available with sealant finish
- Both in/outward corner available



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)



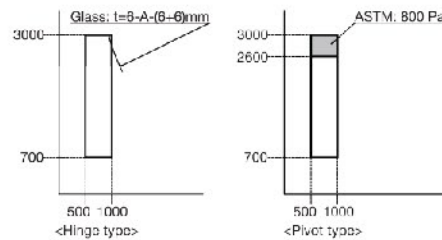
- Available in SG and IG unit
- In case of glass thickness over 8 mm and IG unit please consult with our technician
- Select from L/R
- Pleated insect screen available
- Glazing Finish
 - 5 - 6 mm : Sealant
 - 8 - 13.52 mm : Glazing channel
 - 28 - 31.52 mm : Glazing channel



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

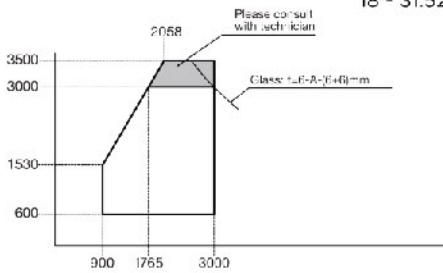


DOORS

Sliding Door (2 panels on 2 tracks)



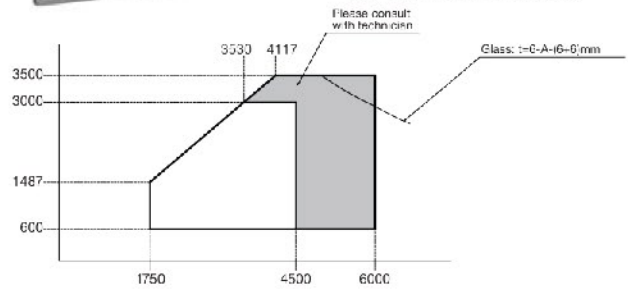
- Available in SG and IG unit
- Select panel position from L/R
- Single slide (L/R) available
- Handle option
- Pleated insect screen available
- Glazing Finish
 - 5 - 6 mm : Sealant
 - 8 - 13.52 mm : Glazing channel
 - 18 - 31.52 mm : Sealant



Sliding Door (4 panels on 2 tracks)



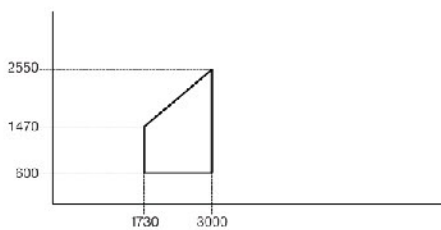
- Available in SG and IG unit
- Handle option
- Pleated insect screen available
- Select from (SSSS, FSSF)
- Glazing Finish
 - 5 - 6 mm : Sealant
 - 8 - 13.52 mm : Glazing channel
 - 18 - 31.52 mm : Sealant



Sliding Door (3 panels on 2 tracks) SFS



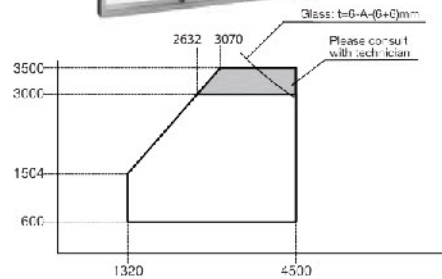
- Available in SG and IG unit
- Handle option
- Pleated insect screen available
- Glazing Finish
 - 5 - 6 mm : Sealant
 - 8 - 13.52 mm : Glazing channel
 - 18 - 31.52 mm : Sealant



Sliding Door (3 panels on 3 tracks)



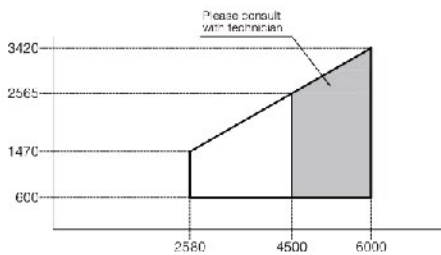
- Available in SG and IG unit
- Select panel position from L/R
- Handle option
- Pleated insect screen available
- Select from (SSS, FSS, SSF)
- Glazing Finish
 - 5 - 6 mm : Sealant
 - 8 - 13.52 mm : Glazing channel
 - 18 - 31.52 mm : Sealant



Sliding Door (6 panels on 3 tracks)



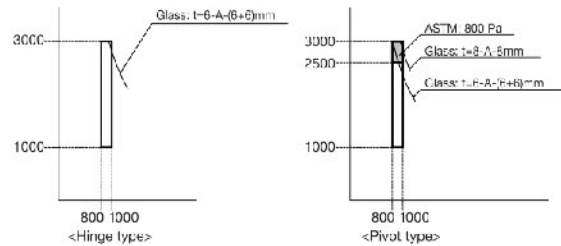
- Available in SG and IG unit
- Handle option
- Pleated insect screen available
- Select from (SSSSSS, FSSSSF)
- Glazing Finish
 - 5 - 6 mm : Sealant
 - 8 - 13.52 mm : Glazing channel
 - 18 - 31.52 mm : Sealant



Out-Swing Door (Single)



- 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

UNIT WINDOWS

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

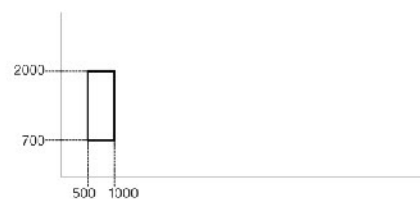
- Mullions are available for various windows and doors. Please consult with our sales representative for selection
 - 180° mullion (standard and reinforced)
 - 90° mullion (only for outward corner)

OPTIONS :

Insect screen for awning & casement



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



test





GRANTS PROJECT REFERENCE