



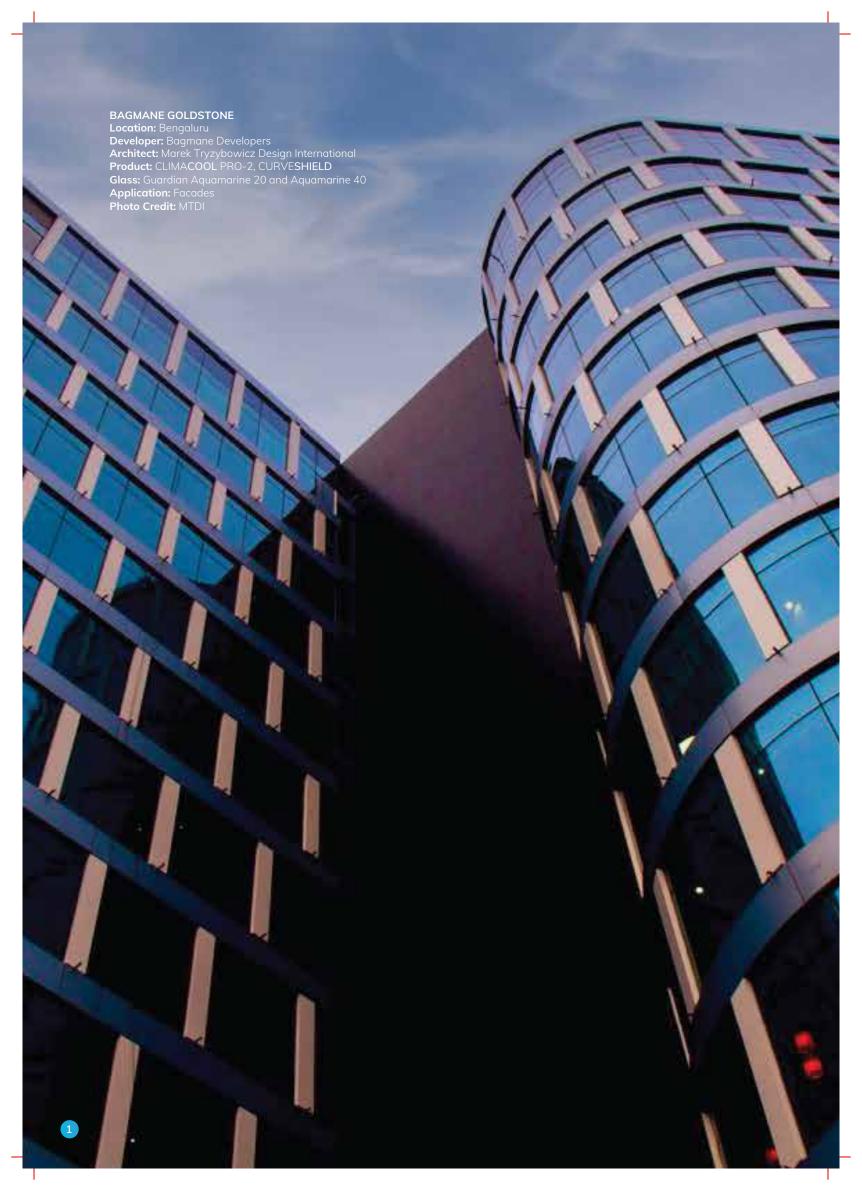
# INTRODUCTION

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## **INFRASTRUCTURE**



## YOUR FAVOURITE GLASS

So, what makes anything your favorite? The product? The service? The experience? Or perhaps all of these and more.

In a marketplace that has seen an exponential rise in the number of glass processing company over the last decade, its been our endeavor always to stand apart from the rest and to ensure that we remain the company of choice when it comes to glass selection. And this is manifested in everything we do. The way we market and sell. Our production and delivery. Our raw material selection. Our quality. Our unconditional commitment towards customer relationships. In everything that you see when you buy from us, and those unseen but significant details that matter. Because being a favorite is not a fad, it is a reflection of our commitment towards excellence endorsed in over forty five years of existence.

To be always, your favorite glass.



## YOUR FAVOURITE GLASS

So, what makes anything your favorite? The product? The service? The experience? Or perhaps all of these and more.

In a marketplace that has seen an exponential rise in the number of glass processing company over the last decade, its been our endeavor always to stand apart from the rest and to ensure that we remain the company of choice when it comes to glass selection. And this is manifested in everything we do. The way we market and sell. Our production and delivery. Our raw material selection. Our quality. Our unconditional commitment towards customer relationships. In everything that you see when you buy from us, and those unseen but significant details that matter. Because being a favorite is not a fad, it is a reflection of our commitment towards excellence endorsed in over forty five years of existence.

To be always, your favorite glass.

## **OUR EXPERTISE**

Customer-focussed, transparent approach



International standards product quality



product quality



Strategic plant location

Four decade

industry experience

Fastest-in-industry delivery time



American and European component suppliers

Eco-friendly manufacturing and products



Best-in-industry technical know-how

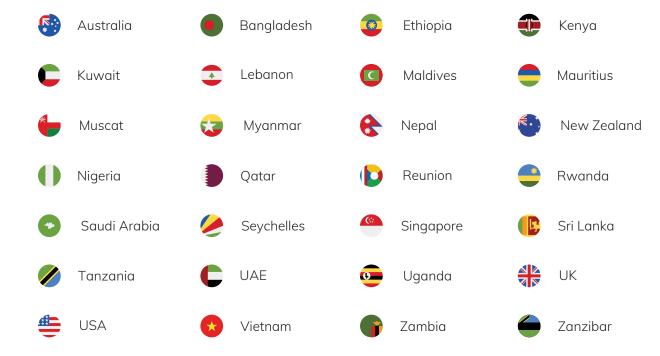
European manufacturing technology





Special service for architects and consultants

## **WORLDWIDE PROJECT FOOTPRINT**





## **CERTIFICATIONS**













## **COLLABORATIONS**

























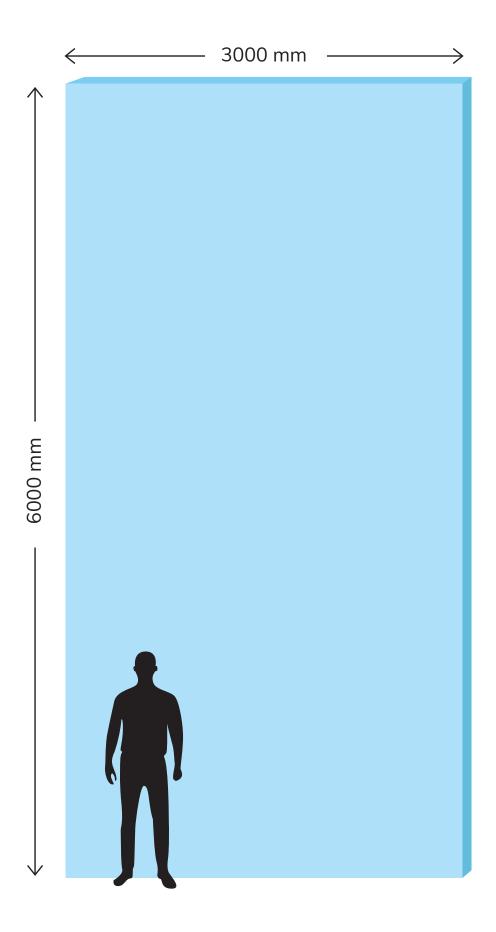


glas**trösch** 









One of our latest additions is a jumbo-sized tempering capability that enables us to make glass sizes up to 3000 mm  $\times$  6000 mm - in sync with the requirements of modern architecture. So now you can create full sized glass structures without obstructions. Less is more!

## **MILESTONES**



1976



1982



1995



1997



We import the country's first-ever float glass from Europe, a marked change from the usual lower-quality sheet glass. Ahead of its time? Maybe, but it's better to ring in the future, rather than clinging on to the present! Another first! We introduce Indian architecture to glass blocks.
Aesthetically superior to conventional bricks, the blocks and by extension, Fishfa Glass soon became every architect's first choice.

We import low-iron glass from Europe, making our name synonymous with extra clear glass across India.



2021-22



2018-19



2016



2015



FG undertakes yet another expansion! We completely overhaul our pre-processing and handling capabilities. We establish West India's first digital printing line and jumbo tempering line, allowing us to process glass sizes up to 3000 mm x 6000 mm! CreativFish, a passion project and design firm specializing in brand identity is born.

We're expanding again! We add a magnetic-drive controlled cutting line from Germany and a super-quick seaming and washing system to create an integrated pre-processing setup. Our improvements increase our capacity by 30%, allowing us to deliver to our customers in record time. We decide to integrate all our company office operations and move into a swanky new office in Lower Pare!!

Asian Prelam builds bonds with EGGER and Roma to distribute their edge-bands to furniture producers. Perfectly complementing our pre-laminated board series, our new venture is an instant hit with customers.



2002



2004



2005-06



2007

We grow again. We set up a mega warehouse to stock our products, offering our esteemed customers near-zero wait times.

Time to move forward – massively! We set up an insulating and tempering facility on the outskirts of Mumbai, near the country's largest seaport. Of course, we continue to prioritize high quality, transparency and technological superiority.

Time to get certified! Our ISO and ARAI certifications come through and we get validated by Saint-Gobain for our high performance coatings. We become a founding member of the Federation Of Safety Glass (Federation of Safety Glass), India's largest processed glass association. We also set up our first corporate office in Mumbai. Talk about a busy couple of years.

We plan and execute our first factory expansion and commence the operations of PVB laminated glasses to meet India's demand for security glass. We become India's first company to use fully-automated glass-handling systems. DuPont (now Kuraray) certifies us to process SentryPlus $^{\text{TM}}$  laminated glasses.



2012



2011



2010



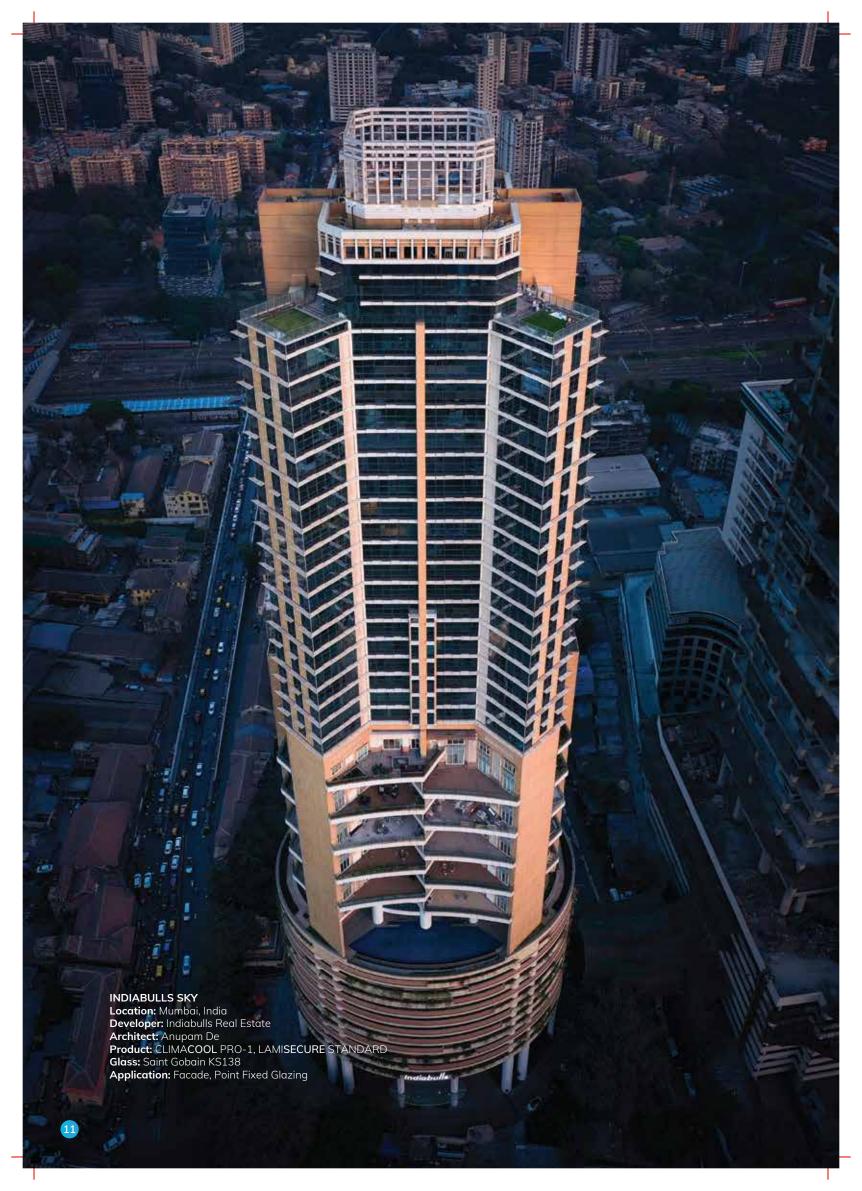
2008

Yet another expansion! Third time's a charm. We grow out of our existing factory and set up a warehouse close by to support our processing operations. We add another 50,000 square feet to our property and include a robotic sealing equipped insulating glass line from Lisec, Austria.

We get our ISO 9001:2008 certification for our quality systems. The Ministry of Commerce, Government of India awards us the Export House Certificate in April, validating our project footprint in 35+ countries. SCHOTT™ recognizes us as their exclusive processor and distributor of fire-rated architectural glass in South Asia.

Our list of certifications increases with Pilkington's Suncool™ series, AGC's Stopray™ series and Asahi India's Ecosense series. We become India's largest processor of high performance low-E glass. We also set up Asian Prelam Industries. We break into India's wooden furniture industry and install the country's first and most advanced short-cycle press line from Wemhöner Germany. This leads to us becoming Western India's largest supplier of pre-laminated boards to modular furniture manufacturers

In just a year, we are expanding our factory again. We add a German cutting assembly, an Italian CNC-seaming system and a Finnish fast-tempering furnace with forced top and bottom convection. We partner with PPG, America's largest glass company, to become their International Certified Fabricator low-E glasses and execute South Asia's first-ever triple-silver low-E glass project in Mumbai.



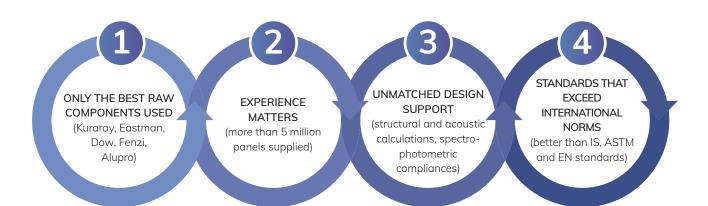


It is now common knowledge that facades glazed with our glass are visibly and functionally superior to anything else available in the market. And perhaps there is no single reason for this argument, but rather the collective contribution of the way we work and produce that makes our facades stand out.

Starting out with our combined experience of more than hundred years in this industry to those small details like our unwavering thrust for only the choicest raw materials, we take pride in the fact that our Facades products consistently rank amongst the best in industry.

## **DID YOU KNOW?**

At less than four years, the average age of our equipment is one of the lowest in the industry and a thumping testimony to our thrust for continuous upgradation and innovation.





### **FACADESHIELD**

- Specifically designed for building facades and curtain walls, FACADESHIELD has excellent optical clarity while maintaining strong mechanical and thermal stress capabilities.
- With industry-best optical flatness, you can be rest assured your facade will truly stand out.
- Risk of spontaneous breakage is negligible, hence heat-soaking is not required.

Minimum Size	200 mm X 300 mm
	2440 mm X 3660 mm (4 mm tand 5 mm)
Maximum Size	3000 mm X 5100 mm (6 mm)
	3000 mm X 6000 mm (8 mm to 12 mm)

<sup>\*</sup> Maximum possible size may vary based on glass type. Please consult with us before specifying.



## GLASSHIELD & GLASSHIELD (HST)

- An indispensable building material, GLASSHIELD has strength five times more than annealed glass.
- Breaks into small fragments, hence is classified as a safety glazing material.
- Can be heat-soaked to minimize chances of failure due to nickel-sulphide particles.

Minimum Size	200 mm X 300 mm
	2440 mm X 3660 mm (4 mm tand 5 mm)
Maximum Size	3000 mm X 5100 (6 mm)
Waxiiiiaiii Sizc	3000 mm X 6000 mm (8 mm to 19 mm)
	25 mm maximum size available on request



## **LAMISECURE**

- Our laminated units are constructed with interlayers sourced only from two manufacturers Kuraray and Eastman, reinforcing our zero compromise on quality policy.
- With SentryGlas<sup>™</sup> you can get even higher levels of safety in extremely thin and light constructions.
- Available with special sound control interlayers for enhanced acoustic insulation.

Minimum Size	250 mm X 350 mm
Maximum Size	2500 mm X 6000 mm







### **ENAMELITE**

- Imparts style, privacy and light-and-heat diffusion by fusing ceramic inks on glass.
- Our European manufactured inks are 100% UV-resistant and guaranteed against flaking and peeling.
- Over 100 designs and colours can be coated on clear, tinted and coated glasses.
- Also available in digitally printed form DIGITECTURE.

Minimum Size	200 mm X 300 mm
	2440 mm X 3660 mm (4 mm tand 5 mm)
Maximum Size	3000 mm X 5100 (6 mm)
Waximam Size	2000 mm X 6000 mm (8 mm to 19 mm)
	25 mm maximum size available on request



## **CLIMACOOL**

- Insulated glass units with two or more glass lites separated with a desiccated air space.
- Being a Dow Quality Bond® member, you can be rest assured our quality is audited and endorsed by the best in the industry.
- Our fully automatic and 100% vertical assembly ensures zero glass warpage during manufacturing.
- Can be infilled with with inert gases such as argon for lower heat-flow rates.

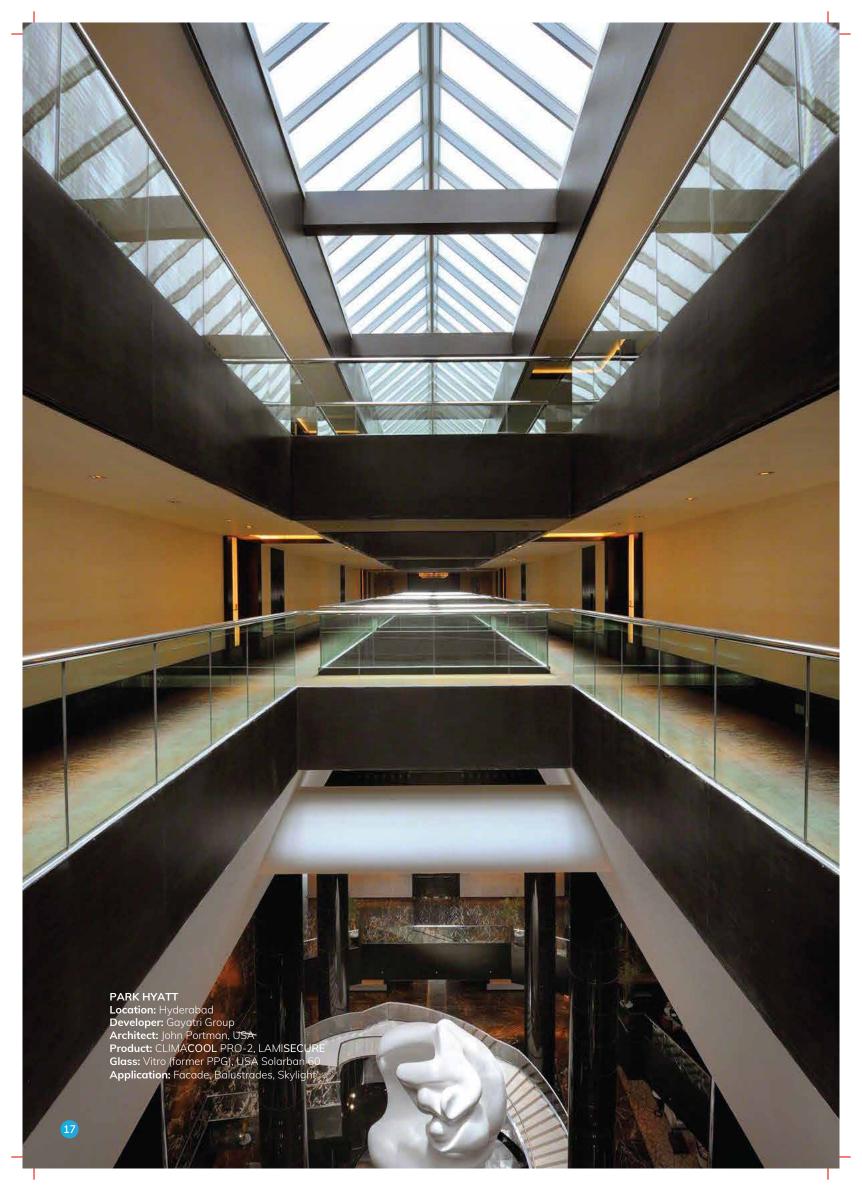
Minimum Size	250 mm X 350 mm
Maximum Size	2440 mm X 5100 mm



#### **CURVESHIELD**

- A fantastic aesthetically superior option to straight glasses, CURVESHIELD in available in fully tempered, heat- strengthened and heat-soaked forms.
- Offers architects phenomenal flexibility in design and form.
- Can be insulated and laminated.

Minimum Size	800 mm (W) X 600 mm (H)
Maximum Size	2500 mm (W) X 3000 mm (H)
Minimum Bending Radius	1000 mm (5 mm to 8 mm)
	1800 mm (10 mm)
	2500 mm (12 mm and 15 mm)
	3000 mm (19 mm)





On average we spend more than 90% of our time indoors, whether at home, office or within the confines of a car. And this means that interior spaces are perhaps our greatest connection to architecture.

The benefits of creating light and airy spaces are well known and no other material can meet these criteria better than glass. Our Interiors product series combines the durability and advantages of glass with our time proven thrust for quality and perfection.

## **DID YOU KNOW?**

We at FG pride ourselves in having the largest range of architectural glass solutions traversing across aesthetic, performance, structural and safety parameters.





## **GLASSHIELD & GLASSHIELD (HST)**

- An indispensable building material, GLASSHIELD has strength five times more than annealed glass.
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	3000 mm X 5100 (6 mm)
	3000 mm X 6000 mm (8 mm to 19 mm)
	25 mm maximum size available on request



#### **LAMISECURE**

- Our laminated units are constructed with interlayers sourced only from two manufacturers Kuraray and Eastman, reinforcing our zero compromise on quality policy.
- With SentryGlas<sup>™</sup> you can get even higher levels of safety in extremely thin and light constructions.
- Available with special sound control interlayers for enhanced acoustic insulation.

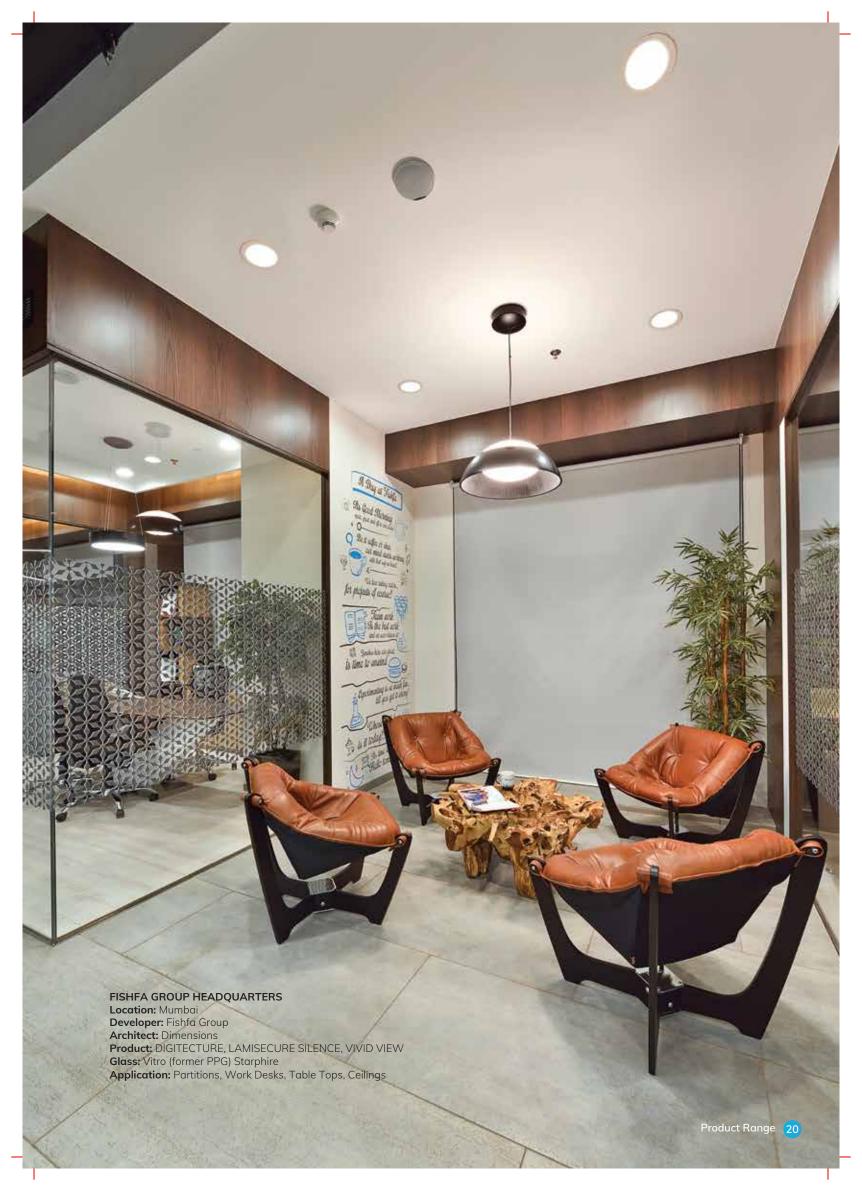
Minimum Size	250 mm X 350 mm
Maximum Size	2500 mm X 6000 mm

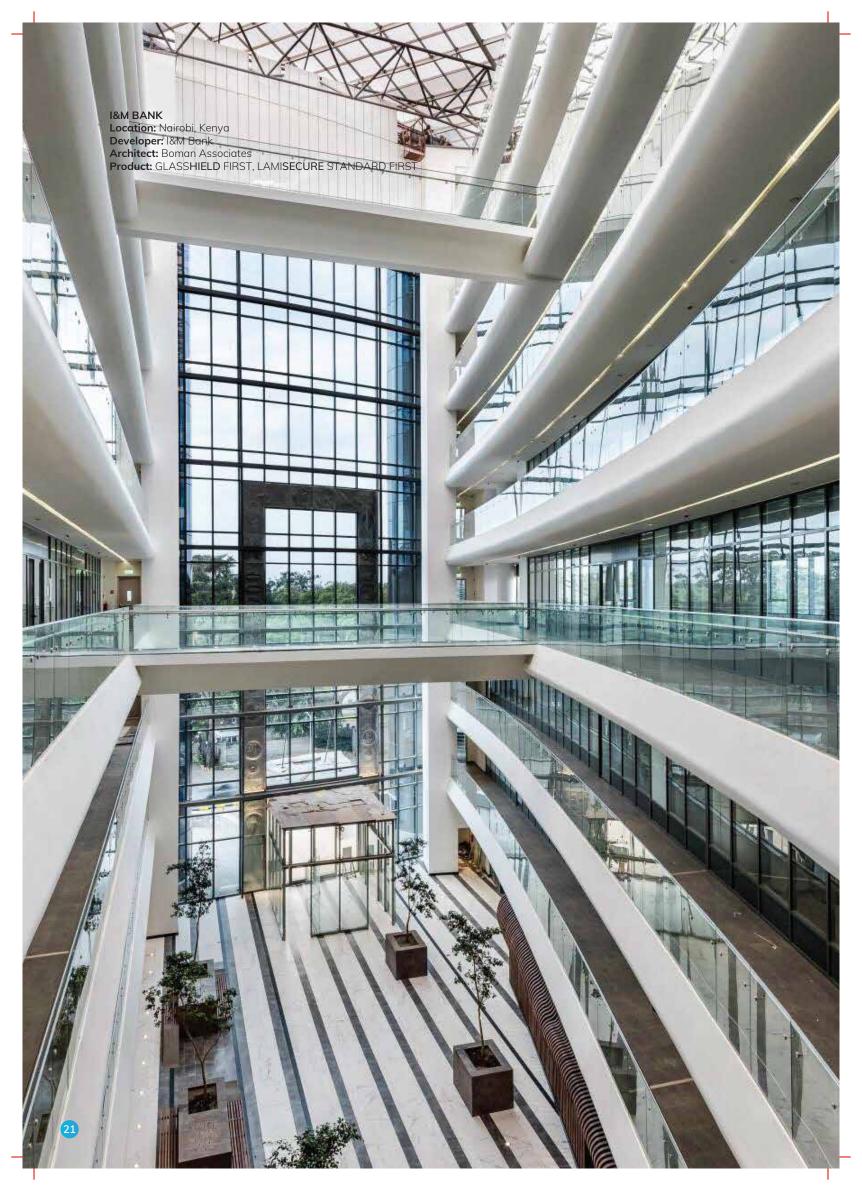


### **ENAMELITE**

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- Also available in digitally printed form digitectureTM.

Minimum Size	200 mm X 300 mm
Maximum Size	2440 mm X 3660 mm (4 mm tand 5 mm)
	3000 mm X 5100 (6 mm)
	3000 mm X 6000 mm (8 mm to 19 mm)
	25 mm maximum size available on request







### **CLIMACOOL**

- Insulated glass units with two or more glass lites separated with a desiccated air space.
- Being a Dow Quality Bond® member, you can be rest assured our quality is audited and endorsed by the best in the industry.
- Our fully automatic and 100% vertical assembly ensures zero glass warpage during manufacturing.
- Can be infilled with with inert gases such as argon for lower heat-flow rates.

Minimum Size	250 mm X 350 mm
Maximum Size	2440 mm X 5100 mm



#### **CURVESHIELD**

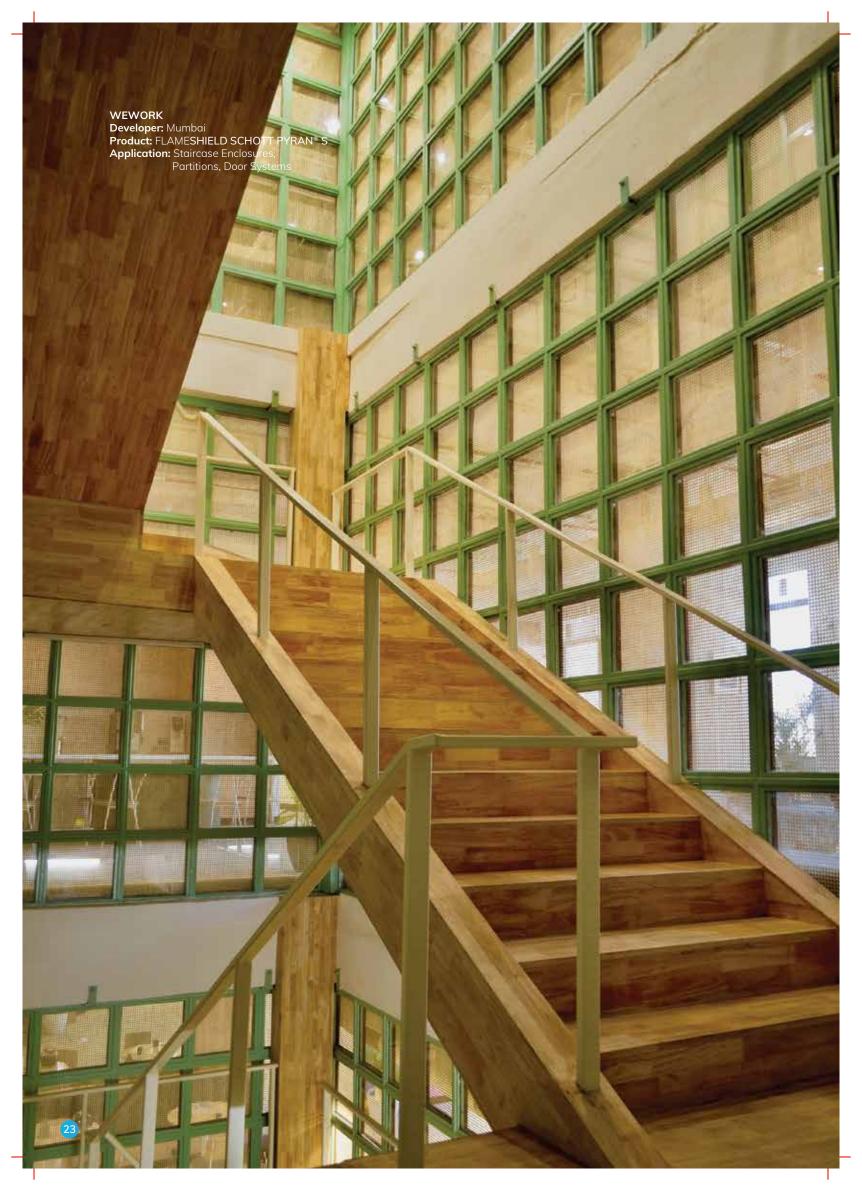
- A fantastic aesthetically superior option to straight glasses, CURVESHIELD in available in fully tempered, heat-strengthened and heat-soaked forms.
- Offers architects phenomenal flexibility in design and form.
- Can be insulated and laminated.

Minimum Size	800 mm (W) X 600 mm (H)
Maximum Size	2500 mm (W) X 3000 mm (H)
Minimum Bending Radius	1000 mm (5 mm to 8 mm)
	1800 mm (10 mm)
	2500 mm (12 mm and 15 mm)
	3000 mm (19 mm)



Every member of our team think of themselves as the customer representative, not FGs! This simple philosophy helps us service the customer's wants in the way they expect - and nothing short of the best works in today's demanding industry environment.

- Alpana Khebde (Head - Factory Administration)



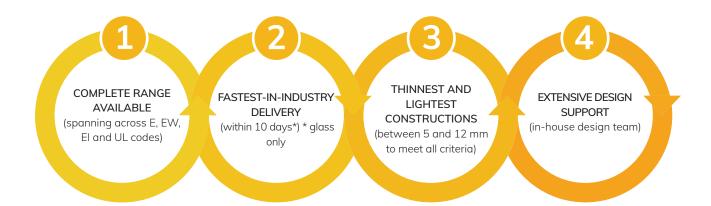


The last few years have seen a spate of tragic and avoidable fire instances all over India and has fanned numerous debates on the fire-safety in constructions today. Architects, planners and consultants are now more responsible than ever in ensuring that buildings have the necessary level of active and passive fire protection systems.

Together with SCHOTT of Germany, FG is a leader in fire-rated glass and systems in the country and varied solutions to meet every architectural and standards requirements. Our transparent partition and door systems are the industry standard and offer unbeatable and unique advantages of the highest transparency levels and the thinnest and lightest constructions available.

## **DID YOU KNOW?**

We have more than 100 test evidences from institutes spread around the globe, ensuring that no matter what your requirement, we have the tested solution for you.





## FLAMESHIELD (E) SCHOTT PYRAN® S

#### 120 Minutes Stability and Integrity

- Provides protection against flames, hot gases and smoke up to 120 minutes.
- Unbeatable crystal clear aesthetics with light transmission of 92%.
- Remains transparent in fire and non-fire conditions.
- Comes with a lifetime fire-protection performance and warranty.

	FIRE RATING	MAX HEIGHT	MAX WIDTH	MAX AREA
	30 minutes	3180 mm	3180 mm	5.96 m <sup>2</sup>
Maximum Size	60 minutes	2875 mm	2875 mm	4.08 m <sup>2</sup>
MUXIMUM SIZE	60 minutes	3250 mm	1766 mm	3.12 m <sup>2</sup>
	90 minutes	2875 mm	2576 mm	4.03 m <sup>2</sup>
	120 minutes	2520 mm	1878 mm	3.53 m <sup>2</sup>

<sup>\*</sup> Minimum size possible is 200 mm X 300 mm



## FLAMESHIELD (EI + EW) SCHOTT PYRAN® Fusion

### Up to 30 Minutes Insulation and 120 Minutes Integrity

- Our latest development to cater to the new Indian codes for fire-resistant glazing for exit doors.
- Provides up to 30 minutes insulation (EI) and 120 minutes integrity and radiation control (EW).
- Industry's clearest product with no green or yellow tint and constructed with the latest gel technology available.

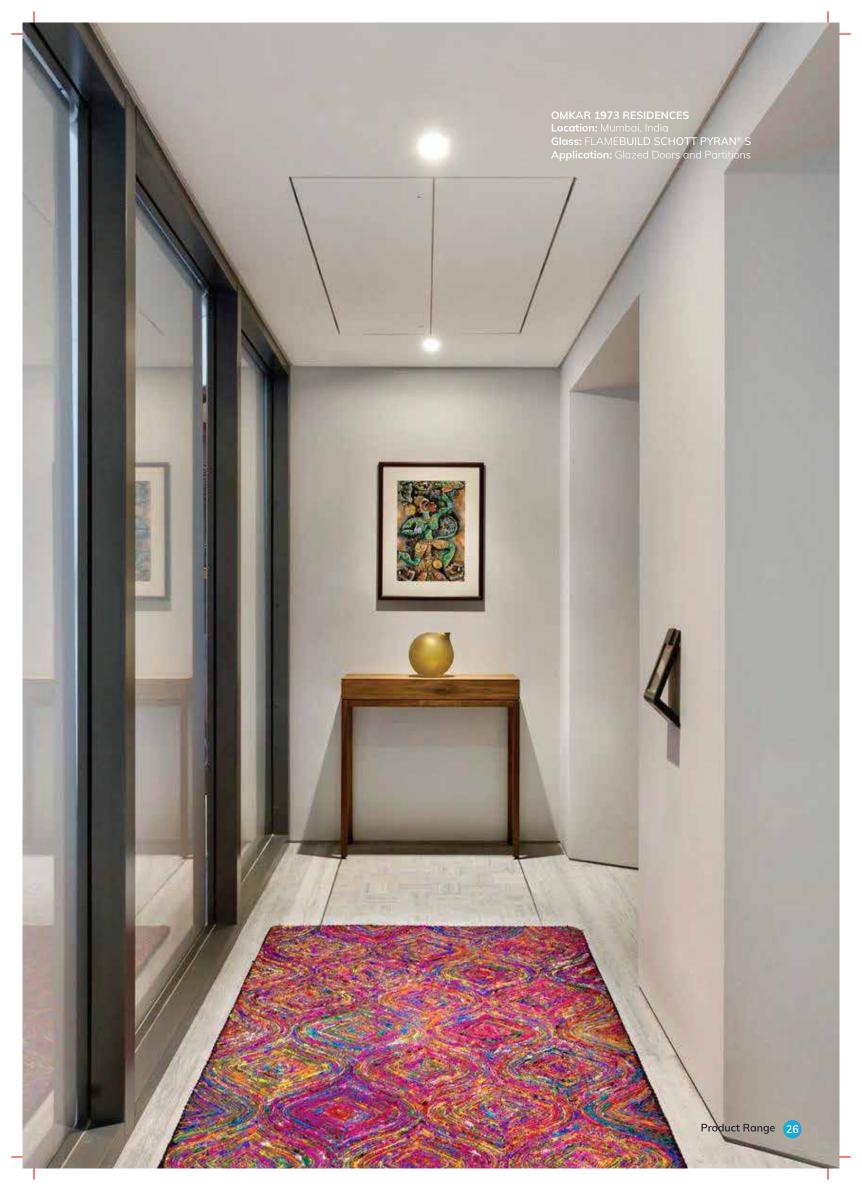
FEATURE	DESCRIPTION
Minimum Size	200 mm X 300 mm
Maximum Size (11 mm)	1100 mm X 2600 mm or 2.86 m <sup>2</sup>
Maximum Size (14 mm)	1720 mm X 3473 mm or 5.91 m <sup>2</sup>



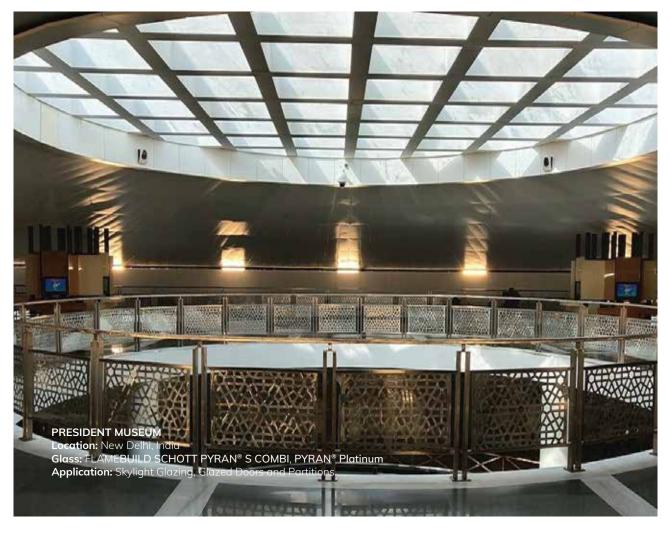
## FLAME**BUILD**

#### Certified Installation Systems for Fire-Rated Glazing

- Manufactured with the highest quality fire-certified materials, these systems are custom-configured as per glass size and rating requirements.
- Service includes complete requirement analysis, product recommendations, installation and relevant certifications.
- All drawings and systems approved by SCHOTT®, Germany.









## FLAMESHIELD (EI + EW) SCHOTT PYRAN® Plus

### For 20 Minutes Insulation and 180 Minutes Integrity and Radiation Control

- Caters to the new Indian codes for fire-resistant glazing.
- Provides up to 20 minutes insulation (EI) and 180 minutes integrity and radiation control (EW).

FEATURE	DESCRIPTION
Minimum Size	200 mm X 300 mm
Maximum Size (11 mm)	1100 mm X 2200 mm or 2.42 m <sup>2</sup>



## FLAMESHIELD (EI) SCHOTT PYRANOVA®

#### Up to 120 Minutes Insulation

- Provides comprehensive fire protection (full insulation) for up to 120 minutes.
- Extremely bespoke with several installation possibilities including frameless butt-joint fixing.

	FIRE RATING	MAX HEIGHT	MAX WIDTH	MAX AREA
Maximum Size	30 minutes	3180 mm	3180 mm	5.96 m <sup>2</sup>
	60 minutes	2875 mm	2875 mm	4.08 m <sup>2</sup>
	60 minutes	3250 mm	1766 mm	3.12 m <sup>2</sup>
	90 minutes	2875 mm	2576 mm	4.03 m <sup>2</sup>
	120 minutes	2520 mm	1878 mm	3.53 m <sup>2</sup>

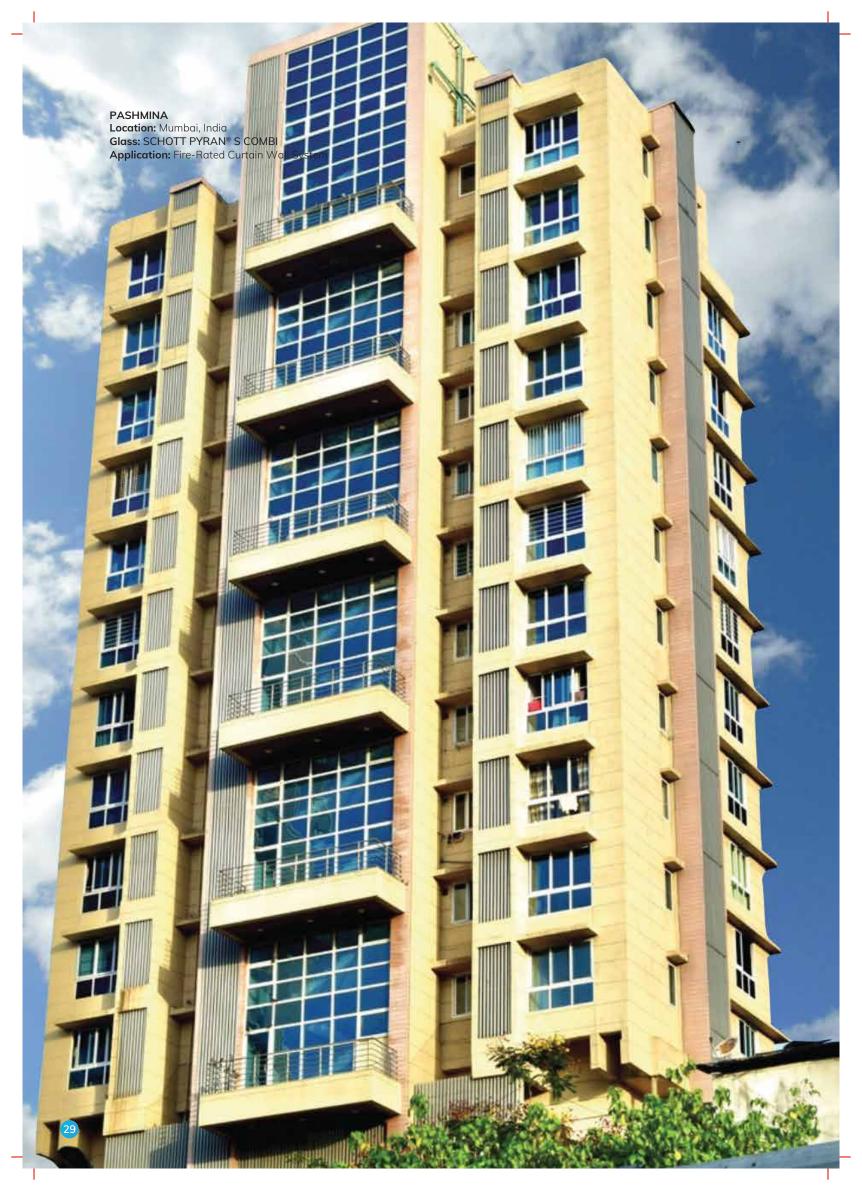


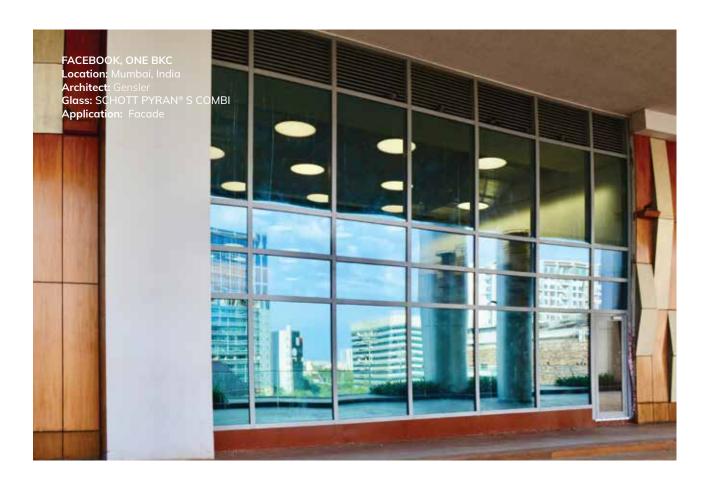
## FLAMESHIELD (UL) SCHOTT PYRAN® Star & Platinum

#### For 30 to 240 Minutes Integrity and UL Compliance

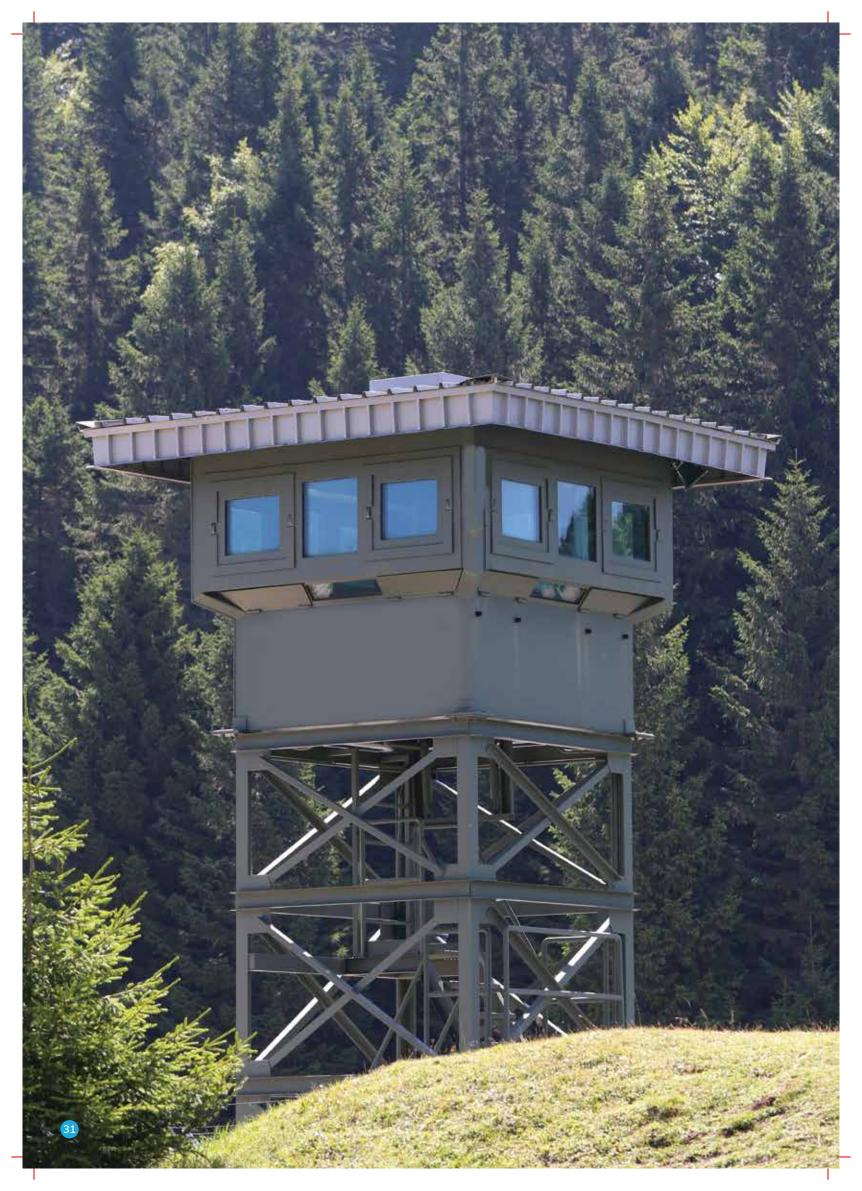
- Provides protection against flames, hot gases and smoke for 30 to 240 minutes.
- Glass confirms to host stream test requirement as per the American UL Standard.
- The clearest and smoothest glass ceramic available in the market.

FEATURE	DESCRIPTION
Minimum Size	200 mm X 300 mm
Maximum Size (PYARAN Star)	1100 mm X 1954 mm
Maximum Size (PYARAN Platinum)	1295 mm X 2515 mm









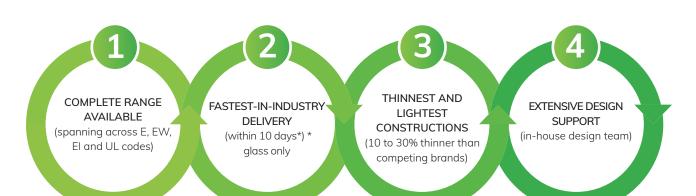


The versatility of glass when it manifests itself in security applications is perhaps one of its greatest features. And at FG, we have certified and tested solutions to cater to the 3B's of security as we like to call it - resistance to bullet, blast and burglar impacts.

You can choose from one of these three protection types or even combine two or all types to create supremely safe living and working spaces.

## **DID YOU KNOW?**

At 38 mm, we have the tested the thinnest possible bullet-resistant construction for UL752 Level 5, and that too without spall!





#### **BULLETSHIELD**

#### For Complete Safety against Bullet Attacks

- Designed for comprehensive safety against bullet attacks.
- Can be custom-designed to meet specific safety criteria and architectural glazing requirements.
- Can be combined with ultra-clear reflective and tinted glass options to meet aesthetic design criteria.
- Also available in spall-resistant versions.

FEATURE	DESCRIPTION
Minimum Size	250 mm X 350 mm
Maximum Size S (Spall) Version	2500 mm X 5000 mm
Maximum Size S (Non-Spall) Version	1220 mm X 3500 mm



## **BURGLARSHIELD**

#### For Complete Safety against Forced Penetration Attacks

- Laminated with extra-strong and durable interlayers to hold off penetration attacks from hammers, saws and rods.
- In the event of forced attack, the glass and interlayer assembly holds strong for a long time, allowing for remedial action.

FEATURE	DESCRIPTION
Minimum Size	250 mm X 350 mm
Maximum Size S (Spall) Version	2500 mm X 5000 mm
Maximum Size S (Non-Spall) Version	1220 mm X 3500 mm



## **BLASTSHIELD**

#### For Complete Safety against Blast Attacks

- Specially configured to withstand grenade and bomb attacks.
- Glass is designed to hold firmly in the framing system in the event of a blast.
- Can be manufactured using tinted or reflective glasses to match the facade aesthetics.

FEATURE	DESCRIPTION
Minimum Size	250 mm X 350 mm
Maximum Size	Varies as per the standard and framing requirements

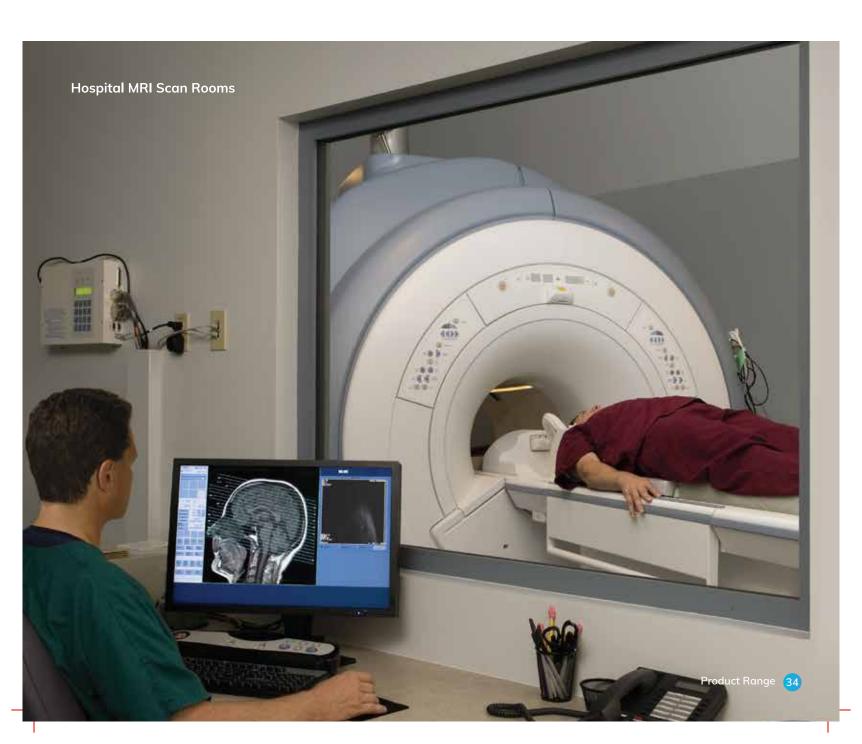


## RADISHIELD (IN COLLABORATION WITH SCHOTT (GERMANY))

## X-Ray and CT Scan Rooms, Operating Rooms, Radiation Stations and Material Testing Laboratories

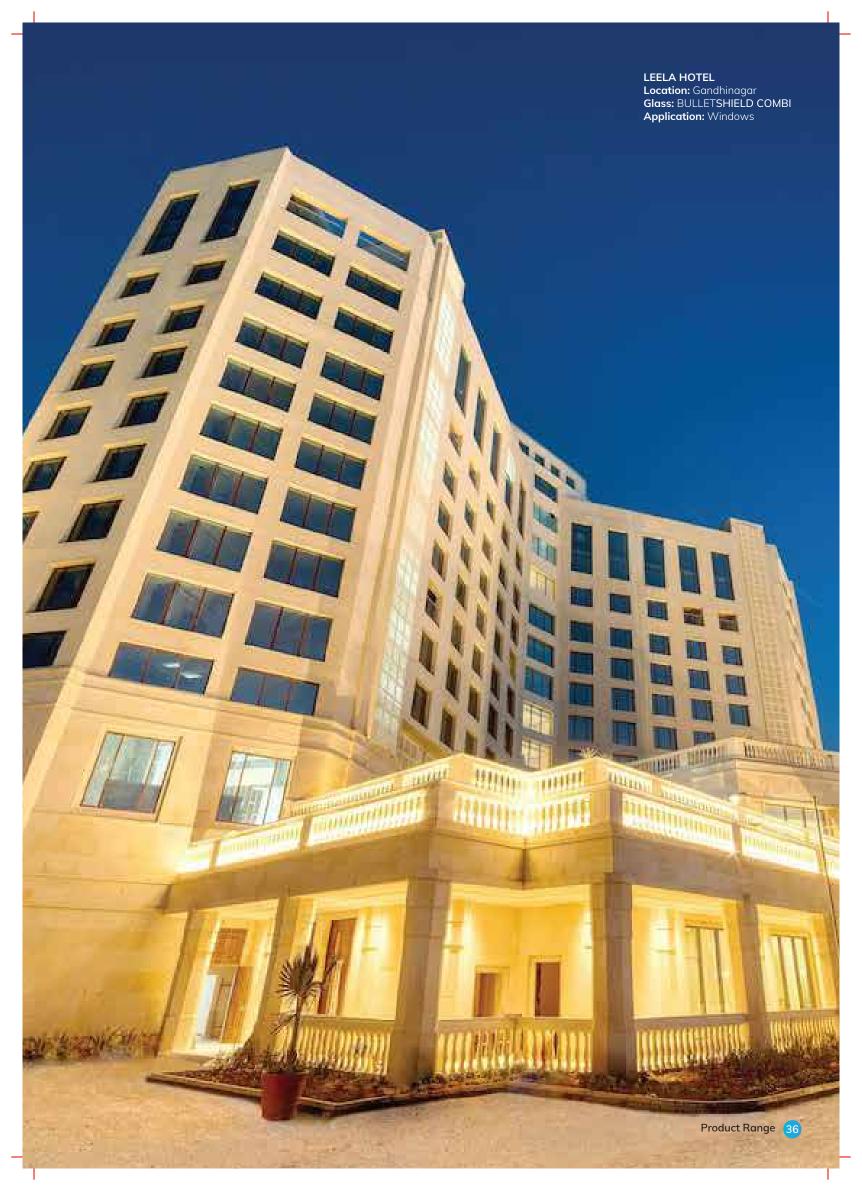
- A transparent alternative to conventional shielding materials, these glasses provide outstanding protection against gamma and X-rays.
- Meets standards outlined by the German Institute of Standardization, European Standardization (DIN EN 61331-2) and the International Electrotechnical Commission (IEC 61331-2).
- Provides very high UV stability and is far more scratch-resistant than plastic.
- With lead oxide contributing to 65% of its weight, these glasses achieve high x-ray radiation absorption even when the glass is thin

FEATURE	DESCRIPTION
Minimum Size	100 mm X 200 mm
Maximum Size	1400 mm X 2800 mm











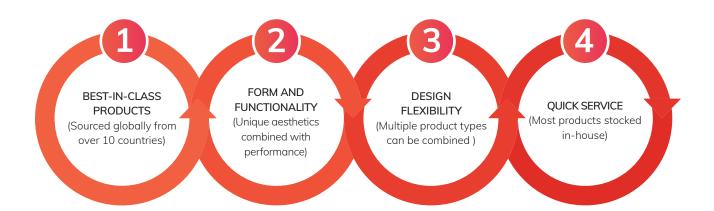


Imagine and it shall be! That's the inspiration behind our now famous Creations vertical - glasses that are truly unique - with their looks, performance and functionality. With the best products scouted from around the world, our relentless passion to offer architecture the very best on offer is manifested in this product vertical.

From an unlimited pallet of colored glasses to visibility on demand, our Creations product series is a great hit with architects and users alike.

### **DID YOU KNOW?**

Our Creations product series sources products from manufacturers located in over ten countries around the globe - literally hand-picked to ensure the highest levels of uniqueness, quality and sustenance.





#### DIGITECTURE™

One of our most revolutionary products, DIGITECTURE $^{\text{TM}}$  is glass printed digitally with ceramic based inks and then heat-treated for excellent durability. We can help you create magnificent façades that blend in with the surroundings seamlessly or make a statement on every block.

You have the power and flexibility to create architectural beauties that capture your imagination on glass. With  $\mathsf{DIGITECTURE}^\mathsf{TM}$ , you can print virtually anything on-demand and in real-time. Welcome to the future.

#### **PRINT TYPE**



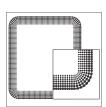
FLOOD Full Flood Print



GEO METRY Geometrical Pattern Prints



**STONE** Stone Image Prints



BORDER Border Prints



**WOOD** Wood Image Prints



ABSTRACT Abstract Inage Prints



**GRADIENT**Gradient Pattern Prints



CUSTOM Custom Design Print

### FEATURE DESCRIPTION

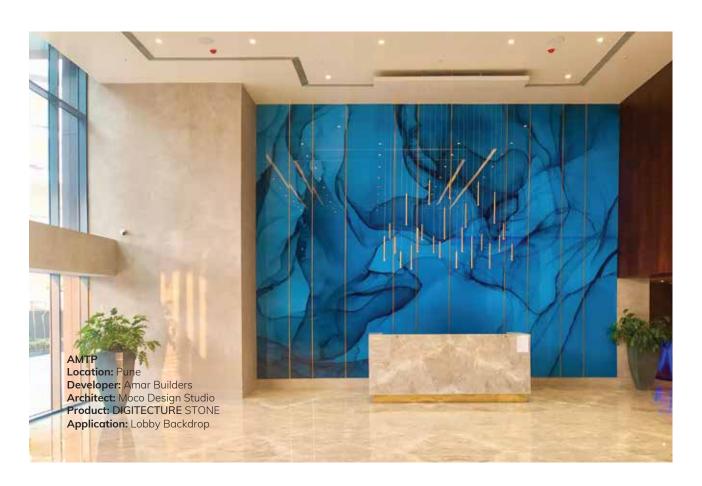
Minimum Size	200 mm X 300 mm
Maximum Size	2500 mm X 3660 mm (4 mm and 5 mm)
	2500 mm X 4500 mm (6 mm and above)*

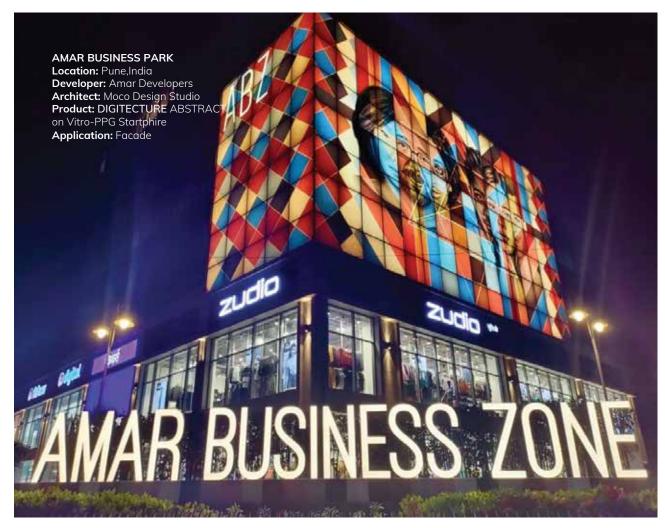
 $<sup>^{\</sup>star} \ \text{Height can be extended up to 6000 mm. Please consult our sales team for checking feasibility against your design.} \\$ 

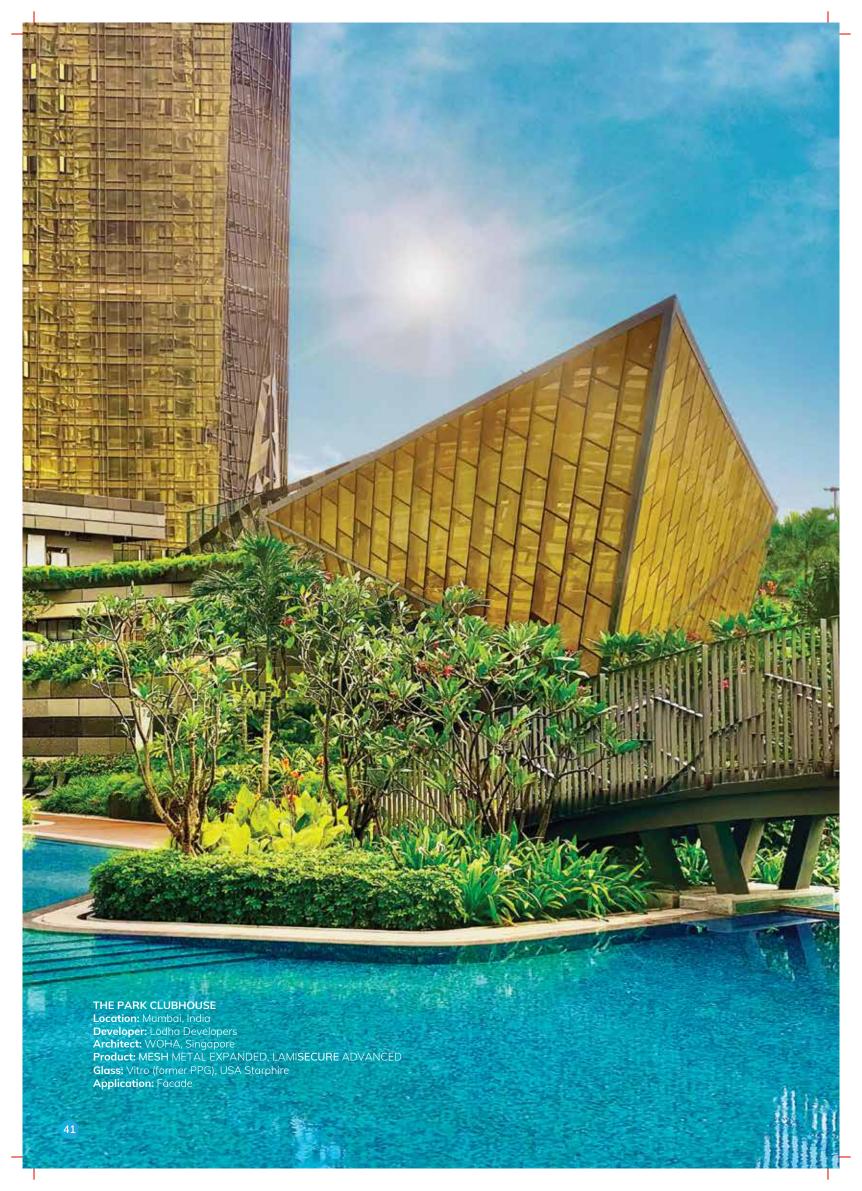


I have a mandate to get nothing but the best in class when it comes to raw materials and consumables. Ever since our inception we have only procured branded goods from industry leaders - Kuraray, Eastman, Dow and Fenzi to name a few. This no-compromise company DNA is a crucial differentiating factor when customers buy from us - every component of the finished goods is designed to stand the test of time.

- Sarjerao Shingare (Head - Procurement)







#### **MESH**

Create visual landmarks with ease. To create mesmerizing insulated and laminated panels, we present our MESH series of expanded metal, woven metal, and metal-coated fabric, With an diverse partner mix in this aesthetically stunning product line, SEFAR® from Switzerland®, Syntarqui® from Italy and GKD® from Germany, we can offer your hundreds of mesh types, each playing beautifully with light to create unique optical effects that you cannot achieve with print or non-metallic materials. The mesh also diffuses sunlight, eliminating the need for blinds while cutting down on solar heat gain. Sefar® also offers a one of a kind single-sided metal coating that allows for free expression on the glass exterior without impeding views from the interior. Our MESH series can be produced in laminated or insulated forms depending on the mesh type and the design requirements.

MESH METAL FABRIC	MESH EXPANDED	MESH WOVEN
Metallic coated fabric mesh (Sefar® and Syntarqui®)	Expanded aluminum mesh	Woven metal mesh (GKD® or others)
FEATURE	DESCRIPTION	
FEATURE  Minimum Size	DESCRIPTION 200 mm X 300 mm	

<sup>\*</sup> The maximum size depends on the mesh size available. Please consult our sales team for the maximum mesh size possible for the selected mesh



#### VENEZIA

Get venetian blinds integrated within an insulated glass unit to create a unique design element that is absolutely maintenance free. These high-quality sandwich type blinds are manufactured with tested and performance slats for better heat and light control. The assembly is completely automated and once they are incorporated into the insulated glass unit there is a whole range design options possible. Certified by IFT Rosenheim, Germany these blinds are tested for extreme endurance and durability.

## **MOTORIZED STANDARD**

Motorized control of the blinds through a DC motor

## **MAGNET ROLLER**

Magnetic control of the blinds through the internal cords

#### **MOTORIZED ENCODER**

Control of the blinds through an encoder connected to a computer system

#### MANUAL KNOB

Manual control for only tilting of the blinds through a knob

FEATURE	DESCRIPTION	
Minimum Size	500 mm (W) X 400 mm (H)	
Maximum Size	2500 mm (W) X 3700 mm (H)*	

<sup>\*</sup> Maximum size possibility may vary depending on type of product.



#### **DICHROIC**

It's time to create dynamic buildings like never before! We offer the widest range of dichroic glass types in India. We've been certified by SCHOTT, Germany to bring their range of NARIMA® glass panels to the country and by 3M to utilize their PET film technology for encapsulation between glass lites. NARIMA® is a hot-dipped dual-side coated glass with a very stable coating. On the other hand, 3M provides a dual-coated PET film, laminated between two layers of Kuraray SentryGlas®. Both products allow us to create stunning aesthetics, with the colour of the glass changing depending on the solar zenith angle and the observer's position. We can create mesmerizing colour-changing displays that impart a unique personal-ity to every space.

#### SCHOTT NARIMA®

Blue-Gold, Green, Yellow and Orange 3M PET FILM

Blaze Product: Cyan/ Blue/ Magenta Chill Product: Blue/ Magenta/ Yellow

#### FEATURE DESCRIPTION

Minimum Size	200 mm X 300 mm for NARIMA $^{\rm B}$ . 300 mm X 300 mm 3M.
Maximum Size	1700 mm X 3700 mm for NARIMA® . 1220 mm X 3000 mm 3M.



#### **G-SMATT MEDIA GLASS**

Media screens do not work with traditional façades as they obstruct views from the inside and require complicated installation processes. We bring you media glass from G-SMATT, a new-age façade product that integrates LEDs within the glass assembly. These panels offer complete transparency, are efficient, easy to install and maintain and super convenient. The LEDs are carefully integrated within the glass laminate, ensuring that all the electronics are 100% weatherproof and protected from the elements. With these unique panels, you can convert any building façade into a giant media screen without hampering visibility. Another significant advantage of these panels is their capability to be used in a facade with the same coated exterior aesthetics.

#### MONO P30

Mono colour display in a 31.42 mm pixel pitch arrangement

## MONO P40

Mono colour display in a 42 mm pixel pitch arrangement

#### **COLOUR P30**

Full colour display in a 30 mm pixel pitch arrangement

#### **COLOUR P40**

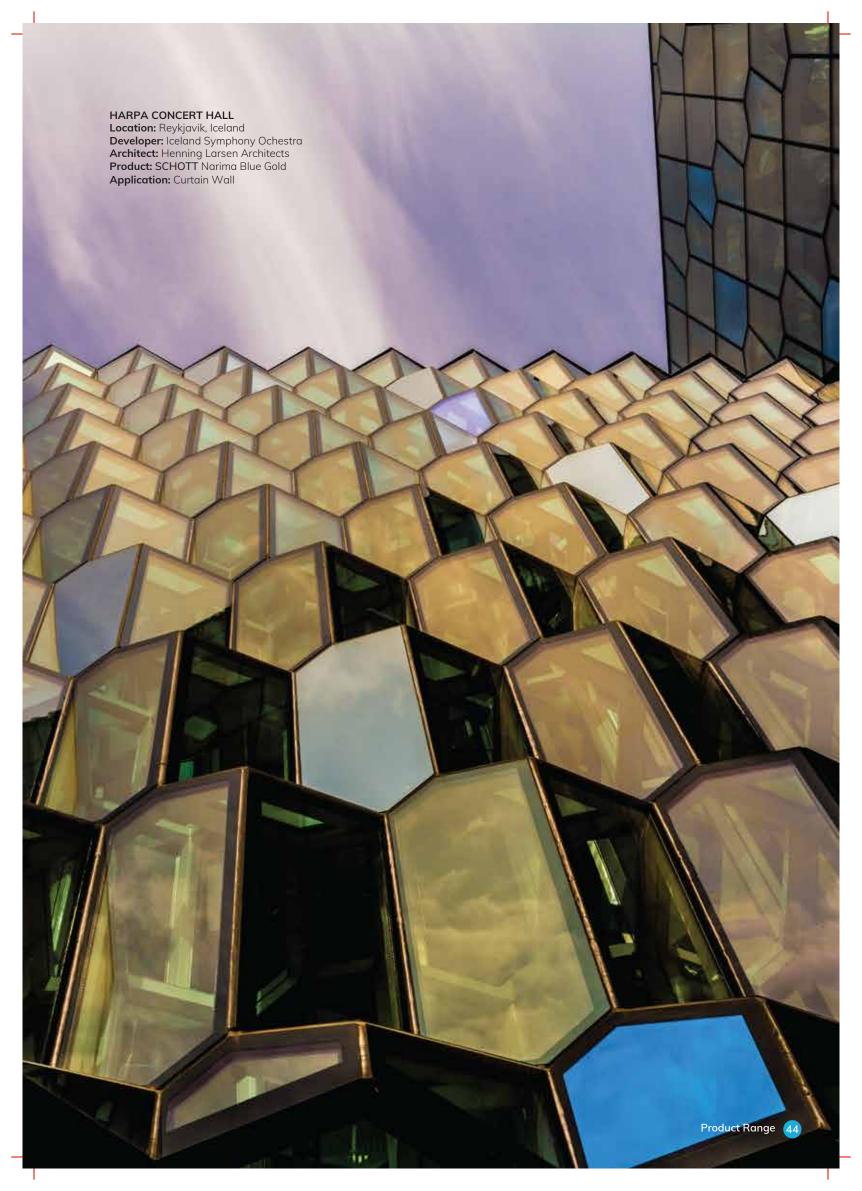
Full colour display in a 42 mm pixel pitch arrangement

#### **COLOUR P60**

Full colour display in a 63 mm pixel pitch arrangement

#### FEATURE DESCRIPTION

Minimum Size	600 mm X 600 mm
Maximum Size	2440 mm (W) X 4200 mm







#### **SWITCHABLE**

Get privacy inbuilt in your windows and partitions, all at the touch of a switch. That's the convenience you can enjoy with our SWITCHABLE glass - the world's most advanced smart glass solution in collaboration with Dream Glass, Spain. Especially useful in office spaces, hotel rooms and residential partitions, these panels can instantly turn your glass conference room into a completely opaque room that offers 100% privacy! Ideal for projection screens, doors, partitions and windows, these units change from clear to frosted in the flip of a switch, providing privacy and eliminating the need for curtains and blinds.

#### THE ORIGINAL

Laminated glass panel with polymer dispersed liquid crystal interlayer (PDLC)

#### **BLACK OUT**

Black tinting glass while maintaining the highest levels of transparency in ON mode

#### **SUPER CLEAR**

Class leading clarity and transparency in ON mode

#### **DSAF**

Self-adhesive fin that can be installed on existing glasses for dynamic privacy

FEATURE	DESCRIPTION	
Minimum Size	200 mm X 300 mm	
Maximum Size	1800 mm X 4500 mm*	

<sup>\*</sup> Larger sizes are available upon request



#### **INVISI-G**

Have you ever found yourself peeking through the glass with your hands covering your face, trying to clearly identify that beautiful style of your favorite clothing brand or the intricate workmanship of your long-desired watch model? Turns out, conventional uncoated glass or ultra-clear glass can have up to 8%internal and external reflection, which makes it difficult to clearly look through them. INVISI-G has a residual external and internal reflection of less than 1%! Our glass is so clear that you can't see it, making it ideal for store fronts, display cases and paintings. We can process these panels to be toughened, heat-strengthened, bent, insulated or laminated to suit your safety requirements as well.

#### **INVISI-G MONO**

Dual-coated (#1 and #2) anti-reflective glass, suitable for use as monolithic glazing

#### **INVISI-G LAM**

Laminated anti-reflective glass, made with two single-coated glasses (#1 and #4)

FEATURE	DESCRIPTION
Minimum Size	200 mm X 300 mm
Maximum Size	2235 mm X 3160 mm (both side coated)
	2500 mm X 5100 mm (single side coated)



#### **GEORGIAN**

Glass windows and doors with made with Georgian bars have offered us timeless architectural beauty. While these were more a result of product and technology limitation in earlier centuries, their unique beauty still captivates us. FG brings you this timeless product with new-age materials, with the Georgian Bar assembly safely encapsulated within an insulated glass unit. Made with extruded aluminum, we have a unique clip-on system that joins these bars with millimeter precision, offering you great aesthetics in a modern format. These units can be made in very large sizes and combined with coated or tinted glasses for additional performance.







FEATURE	DESCRIPTION
Minimum Size	500 mm (W) X 500 mm (H)
Maximum Size	2500 mm (W) X 5100 mm (H)*

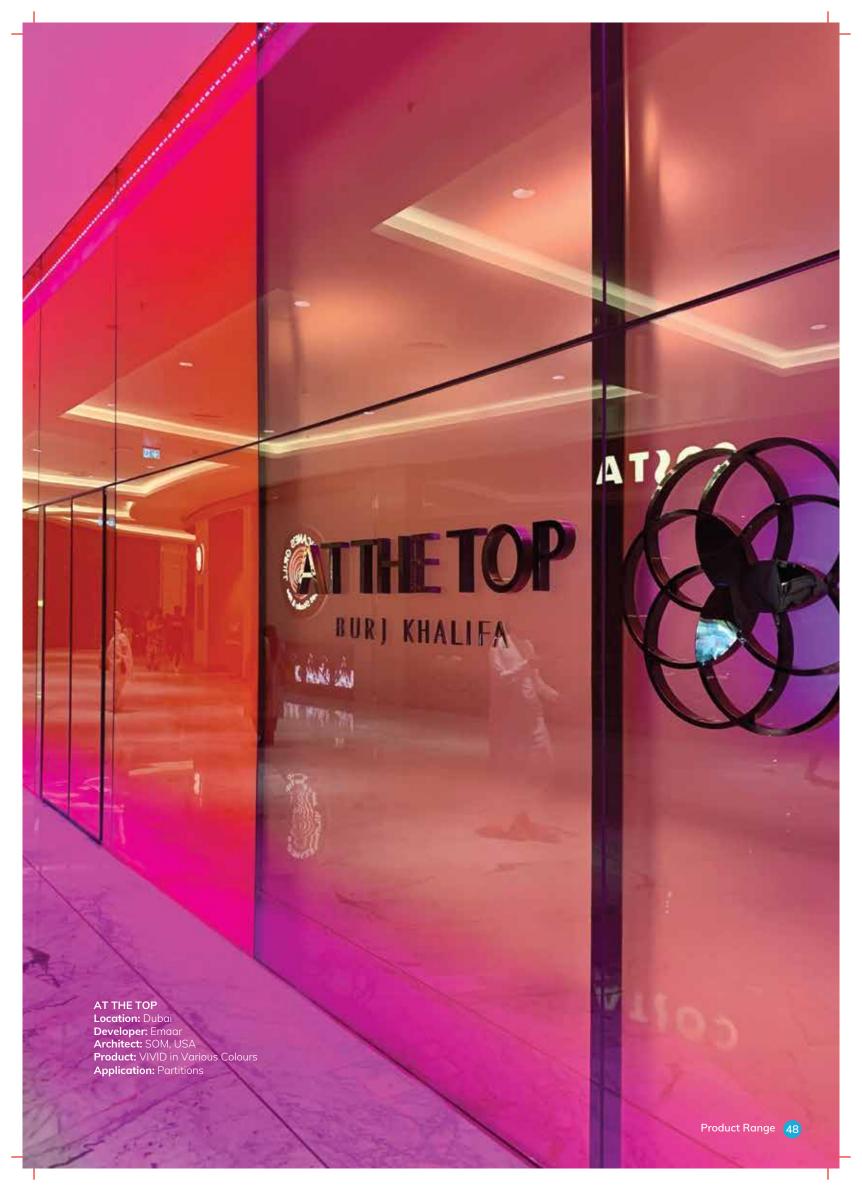
<sup>\*</sup> Maximum size possibility may vary depending on type of product.



#### **VIVID**

Add a touch of glamour to everyday architecture! Using coloured glass on a facade is often tricky since it reduces transparency and creates a loss of vision. With Vanceva® from Solutia, USA, we provide you with the only glass panels that can offer perfect transparency in practically any colour. Use a colour of your choice to create a stunning partition, façade, skylight or canopy! We work with over 10,000 unique colours with varying levels of transparency, from perfectly clear to completely opaque, that take care of all your architectural needs. You can use our VIVID panels for interiors or exteriors as they have high sound insulation and block 99% UV rays. With this glass, you won't ever have to compromise on aesthet-ics or performance.

D FROST VIVID ABSOLUTE	
Sluscent coloured Opaque coloured laminated glass	
TION	
K 300 mm	
2500 mm X 3660 mm (4 mm and 5 mm glass thickness)	
X 6000 mm (6 mm and above glass thickness)	





# UNMATCHED SUPPORT & INFRASTRUCTURE

At FG Glass we treat glass processing as a science and every step in process is carefully monitored through an advanced set of machinery and quality systems. With a list of many firsts for India, our infrastructure is capable of producing almost every coating and product possible for architectural use.



I don't know of many industries where every process we undertake is 100% customized as per the client order. This challenging ecosystem places enormous focus on efficiency at every step - from machine maintenance to quality conformance. Constant innovations, from our ERP software to IoT for constant parameter monitoring have enabled us to keep with the customer's demanding product quality norms, with one of the highest OTD (on time delivery) numbers in the industry.

- Goolam Rasool (Head - Production)

## GLASS SELECTION SUPPORT





- Exterior and interior colour.
- Reflectance levels
- Internal colour rendering
- Vision and spandrel area contrast



#### **SAFETY**

- Level of protection against mechanical and thermal shocks
- Conformance to building codes
- Special safety applications
   (e.g., fire-resistance,
   bullet-and-burglar resistance, etc.)

#### **ACOUSTICS**



- Consideration of outside noise and building type to determine total sound reduction through the facade
- Suggestions on different glass types and thicknesses to minimize sound transmission



#### **ENERGY**

- Total solar heat gain and rate of heat transfer through the facade
- Effect of facade on HVAC system
- Return on investment analysis with use of high performance glass

## **COMPREHENSIVE ORDER-TO-DELIVERY SUPPORT**

Our focus on a solutions-driven approach transcends all aspects of order management, starting from our sales team providing you the right glass solution right till providing advance information on deliveries so that site arrangements can be planned.

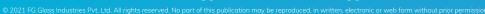
## PRE-SALES SUPPORT • Product Specification Analysis • Seminars and Presentations • Sun-Path Analysis • Wind-Load Analysis • Structural Calculations **ORDER PROCESS SUPPORT** • Mockup Support for Visual • Same Day Delivery Intimation • Acceptance • Real-Time Status Updates • Professional Service Support • Order Readiness Intimation POST DELIVERY SUPPORT • Delivery Notice • Complete Certifications • Prompt After-Sales Service





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