

to compromise for comfort. ←

Sacrifice Green
or
Sacrifice Comfort

→ to compromise for green.

Traditional building solutions give you a choice from the above.


Smart Solutions Offer Both Green & Comfort.

SAINT-GOBAIN
350

Sustainable, Green Multi-Comfort.


With smart glass solutions, there is No Sacrifice. No Compromise. Smart Comfort is

SAINT-GOBAIN
350



THINK SEE
SMELL TOUCH HEAR

In short,
Today's Glass
solutions are
designed to
comfort all your
senses.



THINK
BE MINDFUL.
BE SAFE.
SOLAR COMFORT
FIRE SAFETY GLASS





THINK

Passive fire protection – need for the day in INDIA.

Safety



safe, reliable, foolproof fire safety systems that has been tested and can provide protection against fire during evacuation.

Protection



life and property protection is essential. Almost 25,000 lives are lost because of fire in India. The need of the hour is a proper fire protection system which not only requires active fire protection components but also smart passive fire protection components. 0.8-1% of GDP is lost due to fire accidents in India.



THINK

Solar Control feature added to Fire Safety glass ensures best of both - safety and comfort.

Safety



Comfort





THINK

Safety



2 Hours of Fire Resistance
High Sound Reduction
Clarity in Vision

Fire Resistant Systems

Fire Rated Glass is evaluated as a component of a complete fire resistive assembly. Glass alone will not be a passive protector.



EI Class
Criteria:
Insulation

A barrier to radiant and conducted heat transfer (≤ 140 C)



E Class
Criteria:
Integrity

To block smoke, flames & toxic gas.



EW Class
Criteria:
Radiation

To reduce radiant heat transfer (limit 15 KW/sqm at 1m distance)



THINK

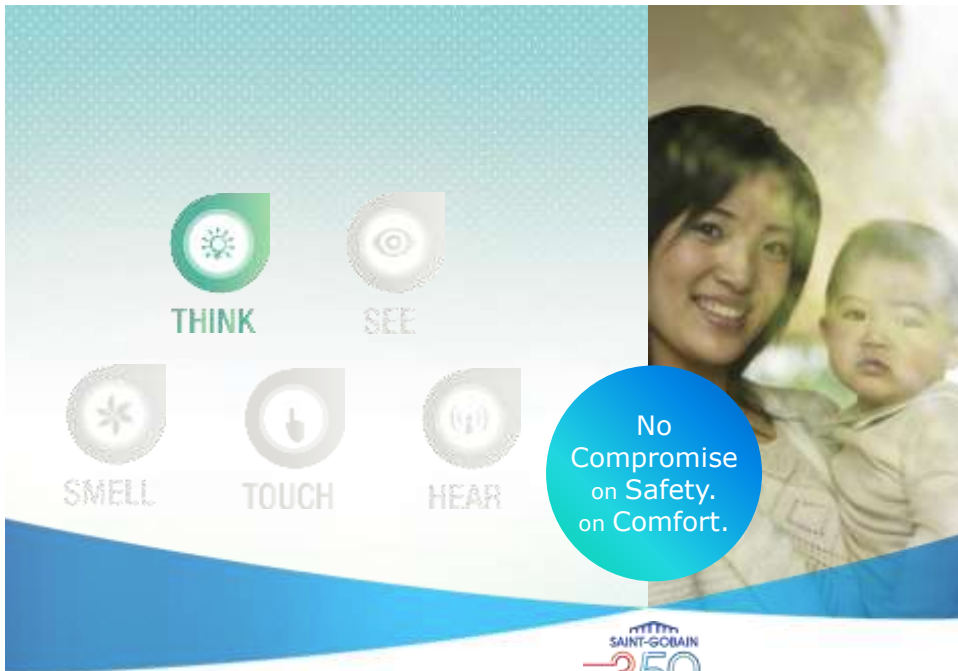
Solar Control feature added to Fire Safety glass ensures best of both - safety and comfort.

Comfort



- Energy Efficiency
- High Aesthetics.
- Daylight Optimization.
- Unhindered View of the Expanse
- Creating a sense of more Space.





THINK SEE
SMELL TOUCH HEAR

No
Compromise
on Safety.
on Comfort.

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SEE
LAY YOUR EYES
ON AESTHETICS

DAY LIGHTING
GLARE CONTROL
COLOR RENDERING

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SEE Need for the day

- Connectivity
- Comfort space to live/work
- Benefit through Natural light
- claustrophobic effect
- Harvest natural light
- Energy savings



SEE

Glass by nature allows abundance of natural sunlight,

High Light Transmission



- Visual discomfort
- Glare
- Use of curtains & artificial light

Optimized Light Transmission



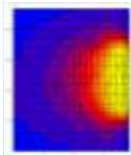
- Soothing natural light
- No Glare
- Blends interiors with exterior views





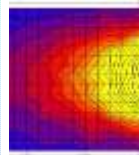
SEE

Solar Control Glass



Light Transmission: 40%
Average Lux Level: 292 lux
Peak Lux level: 1240 lux

Clear Glass



Light Transmission: 89%
Average Lux Level: 4150 lux
Peak Lux level: 9200 lux



Outdoor Lux level : 9000Lux
Room Size : 4m X 5m
Window Size: 1.0mX 2.4m (WWR:12%)
Analysis Ecotect Software



SEE

Natural Lighting

Barely Glazed Bedroom



Opening Index: 16.4%
Electricity Consumed: 4.2 kWh.m2.year

Largely Glazed Bedroom



Opening Index: 24.5%
Electricity Consumed: 2.7 kWh.m2.year





SEE

High Color Rendering

Traditional blue base glass offers 82% color rendering., while today's advanced glazing technology enables neutral base blue glass with 96% color rendering.

With it's unique colour rendering feature you can have a clear inside-out vision from within the building, while the façade exterior shines in its blue brilliance.



Functional Aesthetics



Lower Reflection



Glare Control

Optimum Day Lighting



Improves productivity & comfort
Reduces energy bills



THINK



SEE



SMELL



TOUCH

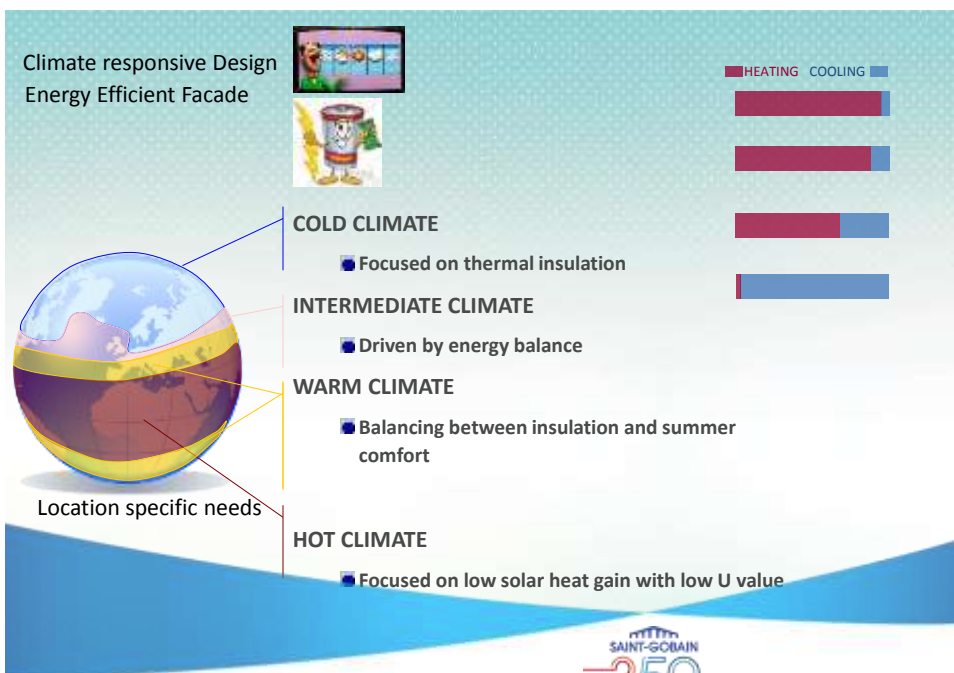


HEAR



No Compromise on Aesthetics.
on Functionality.





Spectral Selectivity

- Ratio of Light Transmission to Solar Gain & Higher value indicate high performance

$$\text{Spectral Selectivity (Light Heat Ratio)} = \frac{\text{Visual Light Transmission}}{\text{SF/SHGC/g'}}$$

Brand	Light Transmission	SF/SHGC/g'	Spectral Selectivity
Online Coated – Solar	30%	46%	0.65
Offline Coated – Solar	46%	46%	1.00
Offline Coated – Solar + Thermal (Single Silver)	47%	36%	1.30
Offline Coated – Solar + Thermal (Double Silver)	60%	32%	1.87
Offline Coated – Solar + Thermal (Triple Silver)	60%	28%	2.14



TOUCH

24 x 365 : TGU



Glazing system that provides
Solar control during
SUMMERS
Thermal control during
WINTERS
Round the clock "solar-thermal" performance.

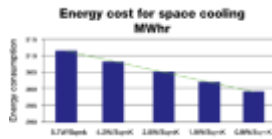




TOUCH

Influence of U value for a 24hr operation building

Energy Analysis



Summer		Winter	
Solar Radiation W/m ²	indoor temperature °C	Solar Radiation W/m ²	indoor temperature °C
100	26	60	18
5	26	5	18
Total Heat Gain		Total Heat Gain (Total Heat Loss)	
Summer		Winter	
2.8W/m ² glaZ	0.9 W/m ² glaZ	2.0W/m ² glaZ	0.9 W/m ² glaZ
177	100	3	71
14	5	281	139

Lower value is preferable Higher value is preferable



TOUCH

Dual Advantage Glass

- Excellent selectivity.
- Very high emissivity.
- Low e glass with optimum solar control
- Soothing colors.





TOUCH

Dynamic Façade Glass



- Transition performance from clear view to high solar control at will.
- Transition control by solar sensor or manual over-ride.
- Weather responsive filtering of light transmission & solar heat gain,
 - Eliminates glare
 - Provides solar insulation
- Outstanding system durability,
 - Exterior façade
 - Skylights



THINK SEE

TOUCH HEAR SMELL



No Compromise on Thermal Insulation. on Solar Comfort.






HEAR
BE SAFE & SOUND.


NOISE REDUCTION
ACOUSTIC COMFORT

Get creative
How can coloured glass be used to save space?



HEAR
NEED FOR THE DAY

- Closed enclosure
- Space constrain
- Space utilization
- Cost
- Easy maintenance
- Impact safety





HEAR

Glass now offers comfort to your ears!

Dual Laminated lacquered self-standing glass partitions with PVB interlayer provides a sound absorptive barrier, that reduces noise.



HEAR

Acoustic Comfort



Reduces resonant frequency problem
Rw ranges from 36dB (10.8mm) to 38dB (16.8mm)

Floor Space Efficiency



Replaces Traditional Wall Partitions
Increases Floor Space
Increases Occupancy Comfort

Aesthetics



Rich in Color
Plentiful Color Options -
Choose Green, in any color.



THINK SEE

TOUCH HEAR SMELL

No Compromise on Space. on Comfort.

SAINT-GOBAIN
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SMELL

WELCOME A BREATH OF FRESH AIR

MOISTURE MANAGEMENT
VOC FREE

SAINT-GOBAIN
350



SMELL

Today's Glass combines the visual depth of lacquer colors, and the longevity & resistance of glass to bring you – Lacquer Coated Glass.



SMELL

- not a monotonous white space
- colors can change emotions, makes workplace exciting
- With glass visibility & livelihood made possible at workspace
- Low VOC
- Easy installation





SMELL

Moisture Management



- Resistance to humidity
- Resistance to fading
- Lasts longer

VOC Free



- No harmful VoCs in Interiors
- Eco-friendly
- Innovative application
- Lead Free, Copper Free, Formaldehyde Free and Arsenic Free
- Ensures high comfort and healthy environments

Aesthetics



- Rich in Color
- Plentiful Color Options - Choose Green, in any color.



THINK



SEE



TOUCH



HEAR



SMELL

No Compromise on Health. on Aesthetics.



THINK SEE

SMELL TOUCH HEAR

Get ready to go Sustainably Smart. Smart & Sustainable

SAINT-GOBAIN 350

SAINT-GOBAIN
NEXT GENERATION GLAZING TECHNOLOGY IN INDIA

Today's advanced Glazing Technology helps you achieve 'going green' without losing your high sense of aesthetics, or your priority for building safety or your maximum comfort.

SA 350

