LUMINOUS FACADE

Built for light.

A practical guide to solar facades, high-performance glazing and the systems that make an envelope last.

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01 / THE PRACTICE

Facades that generate. Facades that last.

Luminous Facade is a Chennai-based specialty facade practice working where architecture, building physics and site reality meet.

30
years in facade glazing

02
specialist service lines

360°
design-to-site thinking

What we bring

We design and build solar facades, high-performance glazing and resilient envelopes that turn a building's skin into a long-term asset. Our work is grounded in evidence: measured performance, coordinated details, clear risk and a handover that can be maintained.

Solar facades & BIPV

Building-integrated photovoltaics for spandrels, curtain walls, canopies, skylights, balustrades, fins and louvres.

Specialist glazing

IGUs, Low-E coatings, laminated safety glass, structural glazing, unitised systems and point-fixed assemblies.

Facade engineering

Condition surveys, system design, fire-safety coordination, handover engineering and technical due diligence.

Supporting systems

Anchors, brackets, movement, seals, drainage, fire-stopping, cable routing, testing and lifecycle maintenance.

Our point of view

Glass is never just a finish. It is daylight, heat, sound, safety, structure and energy—negotiated in one transparent assembly.

02 / GLAZING INTELLIGENCE

Specify the glass. Shape the experience.

Solar control

Reduce unwanted heat gain with the right coating, orientation and shading strategy—without losing the light that makes a space work.

Safety that stays beautiful

Laminated, heat-treated and fire-rated glass systems designed for impact, human safety and the conditions of a real building.

Thermal & acoustic comfort

Build the IGU around the brief: Low-E performance, air gaps, laminated interlayers and edge details that keep interiors calm.

Buildability

The best specification is one that can be fabricated, transported, installed, tested and maintained without losing its intent.

COMMON BUILD-UP CONSIDERATIONS

Element	Typical focus	Why it matters
Outer glass	Solar control / appearance	Daylight, glare, heat gain
Interlayer	Laminated safety / acoustic	Impact, fall protection, sound
Cavity	Air gap / gas fill	Thermal and acoustic resistance
Inner glass	Safety / cleanability	Occupant protection and maintenance
Frame + edge	Gaskets / sealants / drainage	Continuity and water management

8–32 mm
glass thickness range

LOW-E
coatings tuned to orientation

360°
design-to-site thinking

03 / SUPPORTING SYSTEM EXPERTISE

The details hold it together.

A high-performing facade is a coordinated system, not a collection of products. We resolve the parts behind the glass so the whole envelope can move, drain, breathe and last.

01 **Anchors, brackets & movement**
Load paths, tolerances, slab-edge conditions and thermal movement resolved into practical support details.

02 **Seals, gaskets & drainage**
Pressure-equalised joints, compatible sealants, drained cavities, weeps and end conditions that keep the facade dry over time.

03 **Fire, smoke & compartment lines**
Spandrel zones, perimeter fire-stops and cavity barriers coordinated with the curtain wall and floor edge.

04 **Solar cables & electrical integration**
Module-to-inverter routes, cable protection, isolation, earthing, service zones and licensed electrical coordination.

05 **Testing, handover & lifecycle**
Mock-ups, inspection records, maintenance access and a handover pack that makes performance measurable.

A practical rule

If it cannot be inspected, drained, replaced or safely accessed, it is not a finished detail.

04 / HOW WE WORK

Five steps. Either way.

Whether you are starting a solar facade or trying to understand an existing one, the process stays clear, collaborative and grounded in evidence.

No.	Stage	Deliverable
01	**Study**	Solar model, elevation read and first-pass cost/ performance view.
02	**Design with your architect**	Modules, framing, cable routes and glass specifications drawn into the facade.
03	**Mock-up and test**	A full-size sample tested for water, air, movement, colour and buildability.
04	**Build**	One coordinated envelope team; licensed electrical partner connects the solar system.
05	**Monitor**	Performance reporting, cleaning schedules and a yearly facade health check.

Engineering toolkit

Find the leak before the leak.

Drone surveys, close-range inspection, water testing, thermal imaging and a defect map that ranks every issue by risk.

Make the next decision easier.

You receive a clear repair budget, priority call-outs and a practical path from evidence to action.

05 / START A CONVERSATION

Bring us the complicated bit.

Tell us what is being built, what is failing or what you want the glass to do. We will come back with the right first question.

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Working across India

Overseas projects by arrangement.

What to send us

Elevations or drawings, approximate glazed area, preferred glass build-up, system type, project stage, location and the one thing you are most concerned about.