

# HIGH PERFORMANCE WINDOWS

*FROM SOURCING TO INSTALLATION  
A STEP BY STEP REPERTOIRE*

# JOURNEY

- WINDOW
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- COMPONENTS OF WINDOW & SOURCING.
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# WINDOWS

What is Window?

What is Performance Window?

What is High Performance Window?

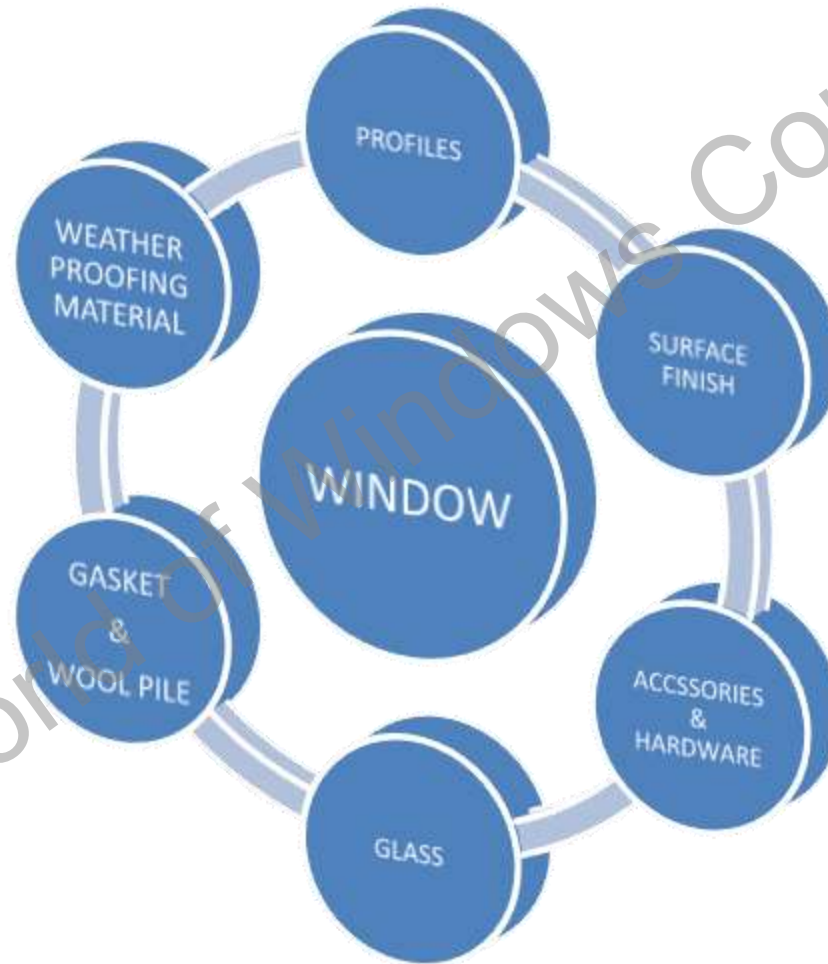
An Opening in the Wall of a Building, to admit Light or Air and allow People to See Through

# TRANSFORMATION

	Late 80's	Late 90's	Current
BUILDINGS TYPE	10-20 floors	30-35 floors	60+ floors
HEIGHT	4-5 FEET	6-7 FEET	8-10 FEET (Tallest window in the world is in INDIA)
TYPE	FIX, SLIDING & OPENABLE	SLIDING FOLDING, TILT & TURN	SLIM SLIDE, LIFT & SLIDE, TILT SLIDE
MATERIAL USED	WOOD, STEEL & ALUMINIUM	SAME AS 80'S	UPVC & ALUMINIUM THERMAL BREAK

	Late 80's	Late 90's	Current
ACCESSORIES & HARDWARE	SELF MADE	LOCALLY MADE	MNC's & SOURCING Co's
GLASS	4-6mm, CLEAR, TINTED, WIRED	DGU, REFLECTIVE, TOUGHENED	LAMINATED, HIGH PERFORMANCE REFLECTIVE
SURFACE FINISH	ANODISING	POWDER COATING	PVDF
SEALING MATERIAL	MASTIC	POLYSULPHIDE, SILICON, BACKER ROD	PU FOAMS
WIND PRESSURE	NO CONSIDERATION	1.5 KPa	4 – 5 KPa

# COMPONENTS OF WINDOW



# ALUMINIUM

- Better Extrusion plants producing large dimensions
- Foreign Extruders are eyeing India.
- Thermal Break Profiles Making way.
- Regional extrusion plants like SV Aluext in Pune.



- » HIGH EXTRUSION CAPABILITIES.
- » HIGH QUALITY ALLOYS AND PRODUCT .
- » CAPACITY TO PRODUCE BILLETS UPTO 7”
- » FULL FLEDGED TOOL ROOM FOR DIE MANUFACTURING, EQUIPPED WITH CNC MACHINES



# ACCESSORIES & HARDWARE

- Local Shops & Retail Outlets.
- Multi-National Manufacturers & Suppliers
- Sourcing Co's, like **GEETA VIN ENTERPRISES**



## SURFACE FINISH



- Anodizing, Powder Coating plants across India.
- Extruders have also started these facilities.
- Now Qualicoat in India.



# GLASS

- Global & Local Glass manufacturers.
- Processing Plants are also growing.
- Performance Glasses are scarcely available on demand.

# GASKET & WOOL PILE

- Rubber and PVC Gaskets are locally available.
- Few manufacturers for EPDM mainly located in & around big cities.
- Wool Pile is normally imported.



# WEATHER PROOFING MATERIAL

- Backer Rod, Foams and silicone are manufactured in India.
- Freely available from Manufacturers and retail outlets.



- Training on proper application.
- Selection of required grade.



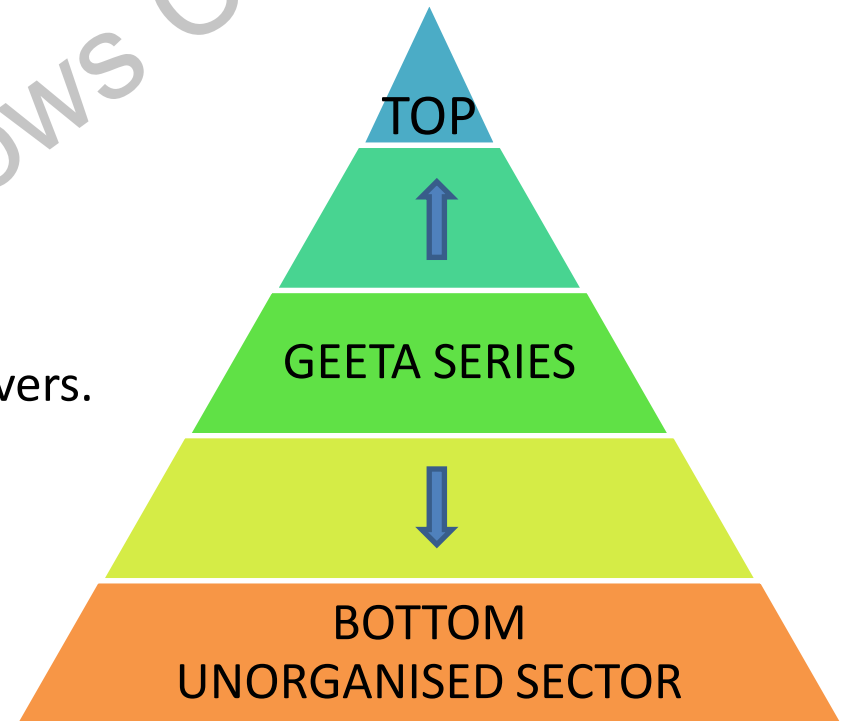
# ENGINEERED WINDOWS

- Easy Material Sourcing & good quality of windows also have limitations.
- New concept emerged called System Windows.
- Largely dominated by MNC's.
- Geeta is geared up to serve the Indian market providing system windows at affordable prices.



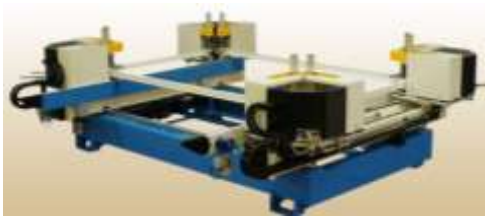
# GEETA GROUP OF COMPANIES

- Vast experience and the continuous R & D.
- A brand named “GEETA SERIES” consisting of
  - 4 different sliding options,
  - 3 options for casement windows
  - Sliding Folding, Tilt & Turn and Louvers.
- Latest & required fenestration solutions at affordable prices.
- More brands such as “GEETA SERIES” will be Launched.



# FABRICATION

- Entrepreneurs are investing in better plants & Machineries.
- Many options like Chinese, European, Turkish machines are available
- One of Geeta Group Co. having German M/c & plant also provide this facility to many fabricators.



- Lack of Skilled machine operators & fabricators. (Machine suppliers must address it at the earliest).
- Under usage of Machine capacities.
- Use and availability of good quality punching machines.

# ASSEMBLY

- User friendly working tables, tools and uniform available.
- Better hardware & fabrication has eased the Assembly of windows.

- Skilled manpower needed to assemble the window.



**GEETA**  
*SUPPORT SYSTEM*

- Geeta Support System for pre & post sales service.
- We have already trained over 500 people over last 3 years and we wish other MNCs and local companies practice this regularly.



# INSTALLATION

- Good quality Accessories & Hardware are readily available.
- High tech equipments make levelling & installation much easier.
- For critical installation external Hoists are available.
- Shortcuts by Installers.
- Vertical transport, size and weight of windows.
- Installed Window's protection.



# SUMMARY

- Sourcing has become easy.
- System window a new business opportunity.
- Fabrication machines easily available.
- Assembly of window has become one of the important part.
- Installation needs attention.
- Manpower remains a **BIG** issue.



