



WINSOME WINDOWS

WINDOW SYSTEMS ARE ALL ABOUT BRIDGING THE GAP BETWEEN THE INDOOR AND OUTDOOR SPACES WHILE REGULATING ASPECTS LIKE LIGHT AND SOUND.

BY BINDU GOPAL RAO

COURTESY: ALCOI

Windows add a phenomenal value in terms of functionality in a space. A diverse range of beautifully crafted windows and window systems are now available for residential and commercial spaces.

WOW WINDOWS

Windows and doors are important components of any building's aesthetics, architecture, and energy efficiency, whether it's institutional, commercial, or residential. They improve the building's overall appearance while also giving a physical and visual connection to the outdoors. Subhendu Ganguly, Managing Director, AluK Building Systems Pvt. Ltd. says, "the demand for well-designed windows and doors that provide safety, greater illumination, noise reduction, and lower energy consumption while being low-maintenance is increasing. Premium quality products are achieving a higher and faster market penetration as

customer desires rise. Product innovation is a top priority in the window and door industry. People are becoming more interested in customised items and producers are being forced to manage more designs and maintain a stable supply chain to keep up with this trend. As a result, brands and their partners must regularly update their showrooms or experience centres with the most up-to-date products in line with the trend." Rounaq Choudhari, Director, Glass Wall Systems India Pvt. Ltd. adds, "as a team we have specialized in many innovative and tech advanced façade and window projects but talking about the most innovative and trendy window systems in terms of design and architecture is, we are currently in process of jumbo operable window panels at Taj @ The Trees, Vikhroli, Mumbai for Godrej Properties Limited and Wimberly Allison Tong & Goo architects. It's one of the biggest size operable windows on actuators the industry has ever seen, which has been successfully tested and passed. The upcoming trend is all about technology, energy efficient and auto operable."

1. Fenestrated punctures in the walls to bring in the surrounding vistas.

DESIGN DETAILS

Window sections are also improving with time as we are getting multiple options in sliding, casement, lift and turns, sliding up systems and many more. Aparna Kaushik, Founder, Aparna Kaushik Design Group says, "these sections offer various kinds of solutions from sliding to operable with minimal sections. Large sizes that are available which just slide with a finger touch help improve the experience of the space and add to the aesthetic of the space allowing bigger views and ample natural light. High performance windows inevitably cut down noise." Windows are a vital element in any construction. As the history of architecture shows, a window is one of the key architectural components of a building and contributes to the overall style of the architecture. "Windows are a simple void or aperture in the external wall. It must provide that vital optical connection between the interior and exterior, admitting light and air offering a view, and ensuring a smooth transition into the interior space. Windows are often arranged also, for the purposes of architectural decoration," says Anjali. K, AGM-Design and Architecture, Sattva Group. Sravanya Aditya Pittie, Interior Designer, Soka Design Studio says, "something I personally love are the new window tracks on the same level as the flooring. When you have a bar trolley, or children are cycling there are no undulations and scope for people to fall."



2. In this home by Aparna Kaushik Design Group, a partition divides the living and bar with big, expansive windows framing the landscape all around.

3. Premium quality products are achieving a higher and faster market penetration as customer desires rise.

4. Subhendu Ganguly, Managing Director, AluK Building Systems

5. Rounaq Choudhari, Director, Glass Wall Systems India.

6. Aparna Kaushik, Founder, Aparna Kaushik Design Group



7. Anjali. K, AGM-Design and Architecture, Sattva Group

8. Sravanya Aditya Pittie, Interior Designer, Soka Design Studio



COURTESY: SATVA GROUP



COURTESY: SOKA DESIGN STUDIOS

9. New trends are large openings, concealed outer frames and where the maximum portion of glass is visible, without horizontal members in between.

10. Commercial Building with Aluminium Punched window system.

11. Aluminum and UPVC windows are not just long lasting but allow the possibility of sleeker sections for unobstructed outside vista.

DO THE NEW

From traditional wooden windows to aluminum and UPVC windows there has been much happening in window systems. These materials are not just long lasting but allow the possibility of sleeker sections for unobstructed outside vistas. Ishwinder Singh Vandal, Director, Vanbros Home says, "we do a lot of engineered sections creating value and use pieces of wood that are usually discarded as waste and put them together. Backed by extensive R&D into engineering a section of wood, our work increases the shelf life of such wood. While combining two different grain directions together in wood, vertically or horizontally, our method is more robust and sturdier by eliminating any warping or bending ensuring stellar durability. It also enhances the constraints of the natural element of wood, the natural defect of wood and turns it into an advantage." Mahesh Choudhary, CEO, uPVC division, Aparna Enterprises adds, "Tilt & Turn windows, smart windows and coloured windows are the



COURTESY: VANBROS HOME

latest offerings in the windows segment. While 'Tilt & Turn' window systems combine features of two windows in one, smart windows provide operational convenience to users. The tilt function becomes very useful in the rainy season when the entire window cannot be opened as it lets the rainwater come inside." Lift-and-slide window and door systems are one of the latest additions to fenestration technology. "The lift-and-slide system allows for fewer panels and larger open-



COURTESY: APARNA ENTERPRISES

COURTESY: ARCHITECT PAUSHIKA GUPTA



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COURTESY: GLASS WALL SYSTEMS

ings compared to a standard sliding window system Owing to this advantage, it has wide applicability in spaces such as kitchens, bedrooms, study, window seats, and other areas. The lift-and-slide is gaining popularity amongst architects and designers as it supports most aesthetic and functional client preferences," says Nitin Mehta, Executive Director, ALCOI.

MIXED USE

Window systems are inching towards being self-sufficient. With many universities and companies researching on windows being more efficient, in terms of multi-purpose usage, larger sections than available with non-obstructive members, security shields for such large sections and windows that can give back to the environment. "Windows that change from clear to opaque with the touch of a button are being de-



veloped to help reduce cooling costs during summer months and for privacy year-round. Along with this, apart from windows transitioning from clear to opaque, windows can also transition from tinted to extreme darkening. Having solar powered windows would make these systems more efficient, be it for high-rise residential or commercial, or institutional. There are previous prototypes wherein coloured glass can make solar energy, this new technology creates solar energy while keeping the window clear," says Paushika Gupta, Founder, Paushika Gupta Architecture+Design.

TRENDING NOW

The slim profile floor-to-ceiling sliding doors, window walls of all shapes and sizes, open corner sliding glass doors, glazed window panes that offer immense insulation

12. Tilt & Turn windows offer two functions in one window. In the Turn function the mechanism lets the window operate like a casement window and entire shutter opens whereas the Tilt function allows the window to open slightly from top while its bottom remains fixed.

13. The upcoming trend in window systems is all about technology, energy efficient and auto operable systems as seen in the Indiabulls Blu building.

14. uPVC windows on a residential facade, an apt choice for a both pocket friendly and user friendly window system.

15. Mahesh Choudhary, CEO, uPVC division, Aparna Enterprises

16. Nitin Mehta, Executive Director, ALCOI.

17. Paushika Gupta, Founder, Paushika Gupta, Architecture+Design.



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COURTESY: ESSENTIA ENVIRONMENTS



COURTESY: RUPIN SUCHAK

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18. Hardesh Chawla, Founder & Interior Designer, Essentia Environments

19. Monica Chawla, Founder & Interior Designer, Essentia Environments

20. Interior Designer Rupin Suchak

21. A smaller frame allows for a wider perspective and more comfort.

22 & 23: The windows in this house are designed to interact freely with green environments.

from heat, cold and wind, are the latest trends. Hardesh Chawla & Monica Chawla, Founders & Interior Designers, Essentia Environments say, "the clean lines of floor-to-ceiling sliding doors offer a very sophisticated look to modern homes. Windows with thermal break technology on frames and panels help in thermal insulation while allowing light and sun to stream in. They are ideal in extremely cold or hot conditions. Large glass openings with multi-sliding doors offer a seamless flow from the interior to the exterior." Celebrity Interior Designer Rupin Suchak adds, "we primarily consider aesthetics and maintenance/utility when it comes to functionality. Finer frames are my preference since a smaller frame allows for a wider perspective and more comfort. Some of them are equipped with self-cleaning technology, making maintenance much easier. Personally, I am experimenting with creating a few barn style windows more integrated with the latest sound proof glass." 



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COURTESY: ESSENTIA ENVIRONMENTS

WEBSITES

- **Vanbros Home:** www.vanbrosindia.com
- **Paushika Gupta:** www.instagram.com/paushika?utm_medium=copy_link
- **Essentia Environments:** www.essentiaenvironments.com
- **Aparna Kaushik Design Group:** www.aparnakaushik.com
- **Aparna Enterprises:** www.aparnaenterprisesltd.com
- **Sattva Group:** www.sattvagroup.in
- **Rupin Suchak:** www.instagram.com/rupinsuchak/?hl=en
- **Soka Design Studio:** www.sokadesignstudio.com
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