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ation and insight for architects and interior designers

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Designs

- · Gayathri and Namith Architects
- Spaces & Design

A powerful partnership

Sachin Bandukwala and Melissa Smith from the mecca of architecture-Ahmedabad, have been working in tandem and making a mark with their diverse perspective to design and architecture.



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ARCHITECTURAL MILESTONES 2022

AS THE NEW YEAR BEGINS, IT IS TIME TO LOOK BACK AT SOME KEY ARCHITECTURAL MILESTONES THAT DEFINED 2022. BE IT METAVERSE, SMART HOMES, OR SOLAR POWERED ARCHITECTURE, THERE IS AN EVIDENT INCLINATION TOWARDS FUTURISTIC TECH AND THIS SHIFT IS DEFINITELY HERE TO STAY.

BY BINDU GOPAL RAO



The year 2022 had several new visitas for the architecture and interiors space, even as the industry tried to come out of the shadows of the pardersis. From the metaverse to smart buildings and more, there were many defining aspects that shaped the Industry. Experts weigh in.

stores were many contenting aspects that subject the industry. Experts weigh in:

METAVERSE

A breadthrough in design boundaries has resulted in a clean, abrost monumental scale space that is excessed by inditiond surfaces carefully imagined and prieted out of clay. The studies space of NOOR Architecture design studies from India fend amongst a few globally is outnour into the Metaverse. The space is also open inv commissions for clients wishing the hard in the Architecture design studies from India fend amongst a few globally is to worther into the Metaverse. The space is also open inv commissions for clients wishing the hard in the Metaverse. The studies of the content o

Medital construction is a sestimable and efficient alternative to conventional building methods is making inroads using prélabrication technology. Sidhartha Talwar, Principal at Studio Lottus, asys, "In today's fast paced world, it has become

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world, before on experted
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imporative for architects to consider design letterventions that guarantee speed, quality, and cost control but are also attentive of their impact on the continuous. It is in this context that prefabrication processis itself as a possible alternative. It presents a precise waste free method construction by slotting together per-engineered corresponents manufactured off site, making it incredibly time efficient. Apart from this, per-engineered positions are also cost efficient, minimising wante on site. This resolutar practice ensures a high degree of localisation, flexibility, and reconfiguration, offering an innovative selection to the other cumbersoner, slow processes of conventional construction. Perfabrication also provides india with the rare advantage of developing a system that orgages with our wast, largely unterpyed repository of arisanal delillets.

artisanal delibets.

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SOLAR POWERED ARCHITECTURE

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SOLAR POWERED ARCHITECTURE

Despite the wide diversity of available solar technologies solar neergy systems are still not considered mainstream in buildings practice. This may be attributed to several factors, each is talk of a wareness and Invoidelegi, lack of techs supporting the design process, and lack of solar powers of the production of electricity through Director, CEM Engineers, says, "The most common use of solar power is the production of electricity through gp bioteoultaic panels organised in farms or placed on the cross of buildings, Other support onto roots as an afterthought, solar panels have an anxightly reputation, but that is beginning to change as building designers but that is beginning to change as building designers escapediment with creative ways to incorporate these mini energy farms into buildings. Architects have been focusing on lowering energy leads for buildings flighting the control of the change of the proceedition and affondable in addition, developments such as transparent IV glass create more architectural opportunities for integration."

MATHENICTIONAL SPACES



14. Snahe Torjac Diev (EN Engineers





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Z. Ristrich Atoro, VP -Euroburn Solutions, RCHALL South Asia

I Exterior well-finding in an actorior salation floor is residued to UV rays, chemicals, scratther, bernites polities.

a healthcare settings, the exposed walls, hallways, and statioways are often prose to tremendous contact with people. Hence, architects and interior product companies must design these spaces keeping these considerations in mind.

The winners in two hours. They are made to remain safe and grunt five even between closing cycles as microbes spread state through multiple skin-surface contacts." says Alok Agarwal, Chief Marketing Officer, Crienthell Tiles.

TILE TALE

TRE TALE

A hospital is a unique ecosystem and there is a range of products specially designed for various environments within the hospital. Orienthedi's Arti-Saile: tiles are built to place like MIX rooms, operation rheuters and more where an electric spark, can trigger harm. These tiles conduct any static electricity penerated to the ground, preventing potentially dangerous electric sparks, shocks and malfurctioning of sensitive electronic equipment.

"Our Seratch-Free Forever Tiles are great for corridors and money. These tiles will be sufficient to the static sparks, shocks and malfurctioning of sensitive electronic equipment.

"Our Seratch-Free Forever Tiles are great for corridors and enors. These tiles will withstand high foot traffic, spills and the moving of heavy objects such as beds and furniture. Avoiding senatches reduces the probability of creating breeding grounds for pathogens. They are stain-resistant and oney to clean. On special requests, we cam make those Seratch-Free Tiles Germ-Free too. This reduces the dependence on human operators and keeps we cam the difficult-to-range status clean even between cleaning cycle, besides supplementing their efforts and keeping even the difficult-to-range high their efforts and keeping even the difficult-to-range high their efforts and keeping even the difficult-to-range of virusies on the surface and kill mone than 99 per cent of

FURNITURE FIX

RBIHAU, a German-based brand, has emerged as a top
provider in the furniture market with its well-expanded
product porticion, engineering innovation, robust developmental capabilities and decontralized sake and services.
"Within the tange of our products, the most computible
and urban fleering solution for bouptida is RCVT (Rigid
Core Vinyl Tile), under the brand name RAUFLOOR
Noostein, which resurses protection from scratches and Core Vinyl Tiles, under the brand name KAUFLOOR
Neosein, which consures protection from searthers and
dirt and contains chemical containmants for easy clean
ing. Hisopitals experience heavy loottal and by installing a
RCVI flooring solution, it can protect itself from daily wear
and tear as the coased layers make the flooring waterproof
and durable. Hoeoring solutions ble RCVI rate and this pin
nature and its antihacterial features prevert the growth of
germs on the floor which eventually ensures health and
logdene," says Manish Aroza, VP – Furniture Solutions,
REHAU Sunth Asia. He adds, "Claddings are nor of the
most suitable preducts for hospitals as they enhance the
aesthetic of the exterior walls and give a positive impression to the customers while being germ-proof. Claddings
are also fire-resistant thus providing extra protection to
buildings from any unforeseen situations. Also, exertic
valid claddings have an overage lef spun of 20-25 years
and are considered easy to clean and maintain which make
them appropriate solutions for places like hospitals."

RECORNING SCLUTIONS

PLOORING SOLUTIONS
Marbles are made from purely estural restorials and are safer for health purposes. "Unlike other flooring options



like Tiles or Quarte that are artificial and factory-made, and made mostly from chemical components and environmentally hazardanous fooigs substances, marthle is a natural material that offers a natural and non-toxic surface that is safer for health. Marthel contine antibacterial properties that make the surface naturally resistant to hacteria component to other similar material used for flooring. Additionally, today, special invastments are available that can be used to orbitate the autibacterial properties or sursible to make it practically betteria free," says Rahal Maheshovari, Director, Marthe Centrie International (MCI). Chasic Marbles Genegany (CMC) has function and (MCI). Chasic Marbles Company (CMC) has functioned in the company of the control of KalingaStone veined quarte recently, Quarte siabs are tough and non-possous and since hospitals, observe heavy footfal as well as movements of structure trolleys, quarte is highly suited for the traffic as hospitals. Margustone marble is another choice, it is not just aesthetically pleasing in interiors in hospitals but sho convenient for daily usage as the products are less porous, hard, and easy to maintain." Microban silver in technology is the latest antibacterial measure introduced by CMC, making it the first company to launch this technology in India. CMC treated Quarte slabs have Microban silver ion sechnology built into-them during the manufacturing process. It kills bacterial growth on the surface of the product by up to 99 percent and reduces the rais of special consecutation on the surface of the treated product, "says Amil Shah, Managing Director, Closels CMathe Company. like Tiles or Quartz that are artificial and factory-made. surface of the treated product." says Amit Shah, Managing Director, Classic Marble Company.

SANITARY CONCERNS

Choosing the ideal senitary ware and fittings for any organisation is a matter of safety and efficiency in addition to aesthetics. Sanitary ware is an essential item in every



4. After the intpact of the produces, reviews developments have been token into access which includes entitlectered features in the thermy solution to protect the servicement frame partie.

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d. Future of Prysone with Hadwook Touching Inching Inchinsing is a revolutionary new way that lain you flash with a simple were of the

F. Hindware Touth Iras Water Sansar Fance's with Jeffer and sansar allow for zero contact that ensures kyglene and seve





hospital. "We have a long history of collaborating with architects and designers to develop the practical needs of hospital sanitary equipment. Consequently, we have exosted and polished goods for the healthcare socion that are applicable in a variety of applications and meet healthcare requirements. Our touch-free product range has great hygientic finalures due to its smooth appearance and functioning. When choosing products for hospitals, hygiene always





9. With the importance of hypime-horing base highlighted in the puniomic sea, from a conflortine on, from a conflortine consistence of consecutive theorem is advanced donors spoots around from, without compromising on the unstricture of the districture of the conflorers of anteriors.

14. Kalingolanos mertile is mot pot aestilucionily phenin for interiors in hospitals but is also recreated for dudy urage as the products are

without exception. Our toachary new way that list to you flow with a simple wave of the
hand, ensuring that the bathecom stays completely germ
and bacteria-free," says Joshandow Pokshya, Chief Ibecutlive Differe, Buth & Tibes, Hindwase Limited.

CLADDING MATTES

In cumpartson to other industries, the healthcare industry
locuses more on hygiene standards to resoure that the risks
of spreading bateriar are minimal. More than the tonality
of interior door, it focuses on products that help in inpriving experiences and providing controls to the patients
and families who occupy those areas. "The new insterior dicor products that are used in hospitals in terms of flooring,
furniture, walls are focused largely on control rand easing
ansisties, as well as thermatic designs, different liyouts, and
rease of use. When a building blends into its surroundings,
a popears more oveleveming to visions. To eliminate distinct
boundaries and create tree-flowing movement, the buildning's shape and colour should match its surroundings.
Generalam Clade offers revolutionary cladding solutions
to in interior surfacing prosents that are useinged to wishtandam
harsh conditions with as little maintenance as possible,
Along with our interior dading, or ulamintense corre with
a multitude of features like fire retardancy, moisture resistance, authorients, antifungal, and artitural properties,
assorting a healthy and a protected licetyle," says Parul
MELICIA

DESIGN DETAIN

Recent innovation in material technology secharged and full body tiles, an-

HEIMTEXTIL 2023

MESSE FRANKFURT'S HEIMTEXTIL IS ALL SET TO PRESENT A GLOBAL RANGE OF PRODUCT INNOVATIONS IN TEXTILE DESIGN.

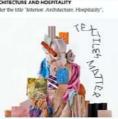


n interestional trade fair for home and contract textiles from January 10 to 13, 2023. As the leading global trade fair, it also maps market changes soft his focus themes and large market changes with his focus themes and large market changes with many the proposed of the proposed proposed in the reagatement of sustainability and healthy experts, and on the megatement of sustainability and healthy experts, and in the meast insportant trend platform for textile nearestials and textile design.

An a global ordering platform. Heinstexial creates global new contacts and delivers valuable content for knowledge-bungy footile professionals—with numerous lextures, special prosentations and guided tous. It presents an indisstry tracting place for retailors, wholesalers, designers, furniture and bedding steres, interior decoration, interior architects, hotel outfilters and many other decision makers each year. The fair sanges from decoration and trainiture fabrics to textiles for the bedroom, bathroom and table, wall-paper and stup protection systems. A visit to the Heinsteini Trends provides you with a globally unique trend forecast and an insight into the popular design topics.

SUDDED TOURS, LECTURES AND LIBERARY ON INTERIOR.

Under the title 'Interior, Architecture, Hospitality',





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Heimtextil brings together the special range of textiles for

ssurracuti trings together the special range of toxillis for use in the contrast excits. Here, individe designers, architects and hospitality experts will find a wide selection of contrast textiles and contouried services.

One new highlight of Heimtestill is the LIBRARY, which shows the selection of the contrast selection of protects from the solutions which have particular fractional properties. It provides a library of health emitterials for use by interior designers, architects and hospitality experts. At the upoming Heimtestil, LIBRARY offers the opportunity to experience the selected materials coults.

Heimsteid, LIBRARY offers the opportunity to experience the selected materials cositie. The Messe Frankfurf Texpertise Network is committed to accelerate insociation and thongs within the testile and fashion sector to selection the Descade of Action to deliver the Studianable Development Goals by 2000. Supported Divide Messes Conscious Fashion and Lilesylvis Networks, in oslidara-tion with the United Nations Office for Partnerships, they write to educate and mobilities the fashion sector to action solutions for social, economic, and erectionmental changes their main aim line in integrating the Soukarished Design-ment Goals into about 60 leading international testile trade lines attracting more than 25,000 companies and over half a tairs attracting more than 25,000 companies and over half a million trade visitors annually. $\overline{\mathbf{m}}$

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A GLASS APART

GLASS BUILDINGS ARE BECOMING POPULAR IN CONSTRUCTION DUE TO THEIR ABILITY TO BE TRANSPARENT, RECYCLABLE AND ENERGY EFFICIENT.

BY BINDU GOPAL RAO

hen compared with other building materials, glams clearly stards out as an eco-friently alternative and this is probably why the material is finding, favour with architects and interiors all

Glass hepomeken buildingssen and fall of hight and in hast savegy-efficient.

and Principal Architect, Purple Leaf Design Studies

construction costs must not get out of hand. Large expanses of glass façades puried excracions possibilities because glass combined with sire allows filipres shapes building skins. In general glass is considered a characteristic material in modern architecture those days as it makes a visual statement, while efferting multiple technical functionalisies at the same time. It may or may be a coincidence that glass in times with class and facades are synonymous with a clear, this beds, having vewers with a selving of seeing something that is a cut above the rest.

HOVEL NUMBERS

In the grant of glass in buildings is othen dictated by the type of climate acound the building, in warmer climate conditions, high-performance glazing is used which keeps the temperature cool and helps minimise the use of a conditioning. During winters, coated glasses are handy as they versal the heal toxide the building, thus proceeds are legislated tailly weather. In the past few decades, the use of glass is tuddings has remarkably becruede. As a result, several transparent buildings have been constructed, in which the nuterists have aimout disappeared. As Examish, Explant, Externed and Principal Architect, Purple Leaf Design Studies Pvt. Ltd, says. "Despite bgg standards,





SELECTION CUES

SERCION CUS:

Considering the prevalence of the material, it is imperative to understand its proporties and be aware of available options. "Look for the material's Seat Heat Gain Coefficient (SHCC), which rollers the amount of direct that a job in. The blower the value, the lawer the direct heat gain. Although solar control glass is more expensive than clear glass, sensible architecture with adequate shading of glass is a con-effective alternative to prevent direct theat gain, "says Keplasia, nother factor to look for white selecting glass is its U-Value, which reflects its invalidation processor." The lower the Variable to be Value, the selecting glass is a six U-Value, which reflects its invalidation processor." The lower the Variable the better the







respensive and eco-conscious. Selective permeability is crucial and smart glause is already in steady use in about buildings, which can alter its levels of transducency to allow sufficient daylight at different times of door pervent rays from penetrating, the surface to minimise overheating. This type of glause sho allows for general privacy, making it ideal for healthcare and hospitality architecture. Says MK Leung, Director of Sustaining Ronald Lu & Partners, and Chief Behaviourist for Beha-

TREND CHECK

the way architecture in India is moving forward, there is a newfound realisation that buildings that are made for contropolitian India must be an anniagaration of the best that technically pass to ober, while at the same time staying true to the center and materials that this country is unqueryly known inc., Amit Manna, Design Principal, Amit Rhanna Design Associates, says, "Usage of integrated photo-voiting anosthe has presented new possibilities to hamess solar energy in tall buildings. This provides for a travea space for other activities and inherent shade for the building facade. Glaso has made its way into photo-votatic technology, insigned digital user instruce systems, structural glass for walls and floors and so on." Anand



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Sharma, Founder & Partner, Design Forum International, adds, "The trend we are seeing now is glass being used for its intended purpose, especially on facades, combined with innovative materials like slim tiles and wooden exterior cladding. Effectively, the newer facades being seen currently are more responsive to climate and context alike. We have usually witnessed glass being considered only with respect to how it will look from the outside. It is high time that while designing buildings, we also keep in mind what views we provide from the inside. Thus, both the design and the glass manufacturing fraternities must take note to think about the quality of visions we design from the indoors, while up until now, the embellishments on windows and facades have taken precedence over everything else."

SMART TAKE

Different types of glass are employed for various purposes that include ceramic glass on facades, lacquered glass for interior purposes, coloured glasses as partitions, and laminated glasses for floorings. "Glass is also getting smarter because incorporating glass in building networks allows for interactive facades that produce both indoor and outdoor effects. When connected to control technology systems, glass becomes the "media and control center" that can regulate a variety of functions in the building. Concepts like lift and slide systems and slim windows are becoming an increasing trend in today's homes in terms of glazing systems. Today, architectural trends have been moving more towards low-reflective and highly transparent, neutral-looking glasses. The trends noticed are the ability to convert flat glass to shapes that allow free-form dynamic surfaces with geometric complexity and the possibility of integrating other

elements like metal screens, LEDs, or Photovoltaics into a conventional flat glass. Methodologies such as unitised glazing have facilitated the easy execution of glass elements," says Sumit Dhawan, the Principal Architect of Cityspace' 82.

FUTURE PERFECT

Rapid development in glazing technology and its incorporation into structural glazing systems have resulted in huge steps forward in terms of the construction of glass buildings. It is not just that glass has a leading role to play in aesthetics, but it is also vital to a building's energy performance and user comfort. "Advanced glass technology has allowed architects to specify a range of high-performance products that enhance the building envelope, from triple-silver Low-e coatings that can be incorporated into triple-glazed insulating glass units (IGUs) that improve energy efficiency to interlayers that offer structural integrity, sound insulation, and security properties. As emerging technology continues to develop, this material might offer intriguing possibilities of functionalities and usage," adds Dhawan. A sensible and well thought out selection of glass for our buildings will not only keep us comfortable indoors, but also benefit the environment by reducing the need for air-conditioning.

WEBSITES

- · Purple Leaf Design Studios Pvt. Ltd.: www.plds.co.in
- Make My House: www.makemyhouse.com
- Amit Khanna Design Associates: www.akda.in
- Design Forum International: www. designforuminternational.com
- Cityspace' 82: www.cityspace82.com
- Ronald Lu & Partners: www.rlp.asia/en

12. Orientation of the holding vis-a-vis the sun path movement should contribute to intelligent use of the material.

13. Samit Dhawan, Principal Architect, Cityspace' 82