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BEST STORIES

What's hot in roofing, façades and cladding? Fine out! Galvanised roofing sheets took over from asbestos for offering better resistance against corrosion, galvalume took over galvanised sheets for the same reason and, today, aluminium sheets have become more popular than galvalume, according to Vikram Sharma, Deputy General Manager-Marketing, Jindal Aluminium.

cost-effective, according to Dinesh Nataraj, Director and Head, Sales & Marketing, Pionnier Roofing Group. 'But aluminium sheets last a minimum of 25-30 years against the eight to ten-year life of galvalume, besides being lightweight and available in a variety of colours,' opines Sharma. He

Galvalume is the preferred (roofing) metal nowadays for being structurally light and

says that industrial roofing applications tend to make use of thicker aluminium corrugated sheets (0.71 mm to 1.2 mm) than residential users (0.40 mm to 0.56 mm); the corrugation design can be trapezoidal, circular or tile. For inland construction, Jawahar Lal Das, COO, Safintra Roofing India, recommends 150 gm per sq m (AZ 150) aluminium and zinc coating for a durable service life of 10-15 years. In

extremely corrosive environments, and within 1-2 km of the coast or similar humid conditions,

he recommends steel with a minimum 200 gm per sq m (AZ 200) coating to endure the harsh

environment. Alternatively, aluminium is a good substitute to AZ 200 coated steel, says Das. However, as aluminium is both lighter and softer than mild-coated steel, it is generally used in thicker gauges than steel for optimum results. These metal coils are coated with various paint options like regular-modified polyester (RMP), silicon-modified polyester (SMP), poly vinyl di fluoride

(PVDF), and super-durable polyester (SDP) to enhance the life of the material and protect

against corrosion. Tata Bluescope Steel's Lysaght's Trimdek 1015 offers superior performance in corrosive and marine environments owing to its specialised paint system and increased coating thickness. Tiles and tile lookalikes Of the two primary roofing options - tiles and sheets - tiles are more aesthetically appealing

Deshpande, Country Head & Business Development Manager, India, Malaysia, Thailand, South Asia, Onduline India.

'While roof tiles are used only for pitched roofs where the minimum pitch required is 20-22;

than roofing sheets and, hence, used more often in residential projects, observes Sameer

and are best suited to coastal regions or hill stations where the monsoon is aggressive, nowadays, tiles are widely used in other zones as well for their aesthetic appeal, strength and low water permeability (vis-a-vis clay tiles),' notes Nataraj. Deshpande cites concrete tiles and imported products like Onduline, shingles and ceramic tiles

de-lamination over time.' There are real tiles and then there are lookalikes. Today, metal sheets come in different colours and textures to mimic the tiled look, says Das.

These sheets are obviously easier and faster to install, safer and roughly 20 per cent cheaper

cellulosic fibres and thermosetting resin,' he explains. 'Monolayer technology guards against

'Onduline is a lightweight roofing system comprising a layer of bitumen reinforced with

Over time, metal roofs perform better and last longer. Tile underlay: Option or compulsion?

sheets and tiles are waterproof and do not require any underlay.

The jury is still out on whether tiles should be used with an underlay. Traditionally, people used roof tiles effectively without an underlay, notes Nataraj. Nowadays,

as the newer entrants in the roofing market.

than conventional non-metal roofs.

Our verdict: An underlay is optional.

however, underlays made of a kind of aluminium foil added to a secondary layer are finding use owing to climatic change to improve thermal comfort and protect the roof from leakages. 'We recommend using tiles with an underlay because it ensures protection from water leakage

and improves thermal comfort,' says Deshpande. That said, some new products like Onduline

Coloured tops Coloured metal sheet roofing and coloured concrete roof tiles are the widely preferred coloured roofing options in India today, especially for places facing aggressive weather conditions, according to Nataraj. 'Less effective options are painted clay roof tiles, asphalt roofing shingles and slates. Glazed clay roof tiles are imported, hence a secondary option.'

tone, clay roof tiles need to be painted externally, which is a time-consuming process, he explains. Besides, the colour lasts only about three to four years as against 20+ years for concrete tiles. Asphalt shingles are prone to curling and blackening, a weather effect that starts happening in a few years.

Lysaght from Tata BlueScope Steel offers roof and wall profiles roll-formed from colorbond

steel and zincalume steel in a range of aesthetically appealing colours with high solar

reflectance index values, says Ajay Rattan, General Manager, Sales, Construction &

Unlike concrete tiles that are coloured during the manufacturing process with a single or dual

Engineering (Lysaght Business), Tata Bluescope Steel. Additionally, these are durable and offer design flexibility and thermal comfort. Large-sized roofs To cater to large roofs, Lysaght offers the Varydek profile available in multiple widths and offering superior load resistance. 'Also, profiles can be roll-formed on site to achieve extreme

24,000 sq m of KLIPLOK 700 roofing profiles for the Kolkata Metro, and offered onsite crimping to ensure immediate installation, protect the profiles from damage or stress cracks, and to ensure faster project completion. Safintra's Safzip profile coils can also be roll-formed for roofs or walls onsite, more or less

long lengths to suit project requirements,' says Rattan. In Kolkata, Tata Bluescope supplied

eliminating any limitation of size imposed by transport restrictions.

'dead' space within a building.'

Best bases for solar

Andheri-Ghatkopar metro corridor.

(25-30 year) life-cycle, and high resale value, opines Sharma.

Add a curve Some roofing and wall systems are conducive to creating interesting designs, including curves. Curved roofs are aesthetically pleasing and can create subtle shapes inside the building, observes Deshpande. 'The curve also provides a practical solution to the problem of wasted or

be used easily for curved roofs with no substantial increase in the price, he adds. According to Das, 'Safintra's Safzip profile is a concealed halter-fix, zipping standing-seam system, which can be smooth, crimped, concave, convex, tapered and wave-formed.'

Lysaght offers the Flex-Lok 400 roofing profile to cater to challenging designs involving

different geometrical shapes and concave and convex curves, says Rattan.

Roofing materials like metal sheets, Onduline sheets and polycarbonate are flexible and can

With an ever increasing focus on renewable energy, it is pertinent to deploy roofing that comes with solar panel compatibility, suggests Rattan. Essentially, solar panels need a sturdy, un-shaded base facing the sun, observes Deshpande. 'While solar panels are designed to be easily and durably mounted to different kinds of roofs,

installation practices vary by roof material and roof pitch,' he explains. 'The ideal angle for a

solar installation is between 10¦ and 20¦. On a flat roof, panels can be mounted on a special

frame, which can be tilted to the right angle to maximise their efficiency.' Most Lysaght profiles are capable of fitting solar panels using specially designed clamps, says Rattan. 'However, the Lysaght KLIP-LOK 700 is one of the most preferred profiles for the installation of PV panels on rooftops.'

After successfully installing Lysaght profiles and PV panels at its Andheri WEH metro station,

Aluminium roofing sheets work best for fixing solar panels as they both have a similar long

Mumbai Metro has recently announced the installation of solar panels on the Versova-

Generally, solar panels cannot be fixed over the roof tiles; a gap is left on specified areas of the roof to fix the pipes or poles of the solar panels, says Nataraj. 'Alternatively, solar-panelled roof tiles are an option but these are not manufactured in India.'

Besides solar panels, rooftop applications extend to walkways, piperack or cable trays, HVAC

offers non-pierce fix aluminium clamps with accessories for its Safzip and Saflok profiles, and

panels, hoardings and a lightning arrestor, observes Das. To accommodate these, Safintra

pierce fix universal aluminium clamps with accessories for its Comax, Trimflute and Versatile profiles.

international players are top cladding options, according to Sameer Deshpande, Country Head

Toughened glass, stone, aluminium composite panels (ACP) and new products from

& Business Development Manager, India, Malaysia, Thailand, South Asia, Onduline India.

The ideal cladding material has a judicious mix of decorative and structural stability or

protective properties, says Anuj Sangal, Country Head, Laminates and Allied Verticals, Greenlam Industries. For instance, Greenlam Clads is versatile enough to be used for brownfield and greenfield façade installations, to enhance the look as well as protect the structure from direct sun, rain and other weather exposure. 'Cladding systems made of metal can be easily combined with thermal insulation and acoustic boards for better thermal control and sound proofing,' notes Jawahar Lal Das, COO, Safintra

Roofing India. 'These are about 20 per cent less expensive than conventional non-metal

solutions (stone and ACP) and come in a wider range of shapes, sizes and colours.'

Façades: What's In? 'Ventilated façades are in vogue nowadays,' says Anuj Sangal, Country Head, Laminates and Allied Verticals, Greenlam Industries.

Transparent Profiles

other roofing material, not to use it alone.'

Ideal Cladding

like copper are options in ventilated façades. Of all these, Sangal says, high-pressure compact laminate has become popular, as have CNC cut designs on the base material for creating bright, decorative façades. As an example, CNC cut designs on red Greenlam Clads adorn metro stations of the Lucknow Metro. Non-ventilated façades like texture-painted façades or aluminium composite panel (ACP) clad façades are not on the priority list of architects and designers nowadays, in Sangal's view.

Stone, tile, artificial marble, composite marble, high-pressure compact laminate, and metals

polycarbonate, with or without matching polycarbonate louvers to serve ventilation and light requirement, says Jawahar Lal Das, COO, Safintra Roofing India.

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Safintra can provide a variety of transparent lightweight roof sheets and wall sheets made of

Transparent sheets come in FRP (fibreglass), which are primarily used in industrial sheds to

Manager-Marketing, Jindal Aluminium. 'However, the custom is to mix fibreglass with some

allow natural light to permeate during daytime, says Vikram Sharma, Deputy General

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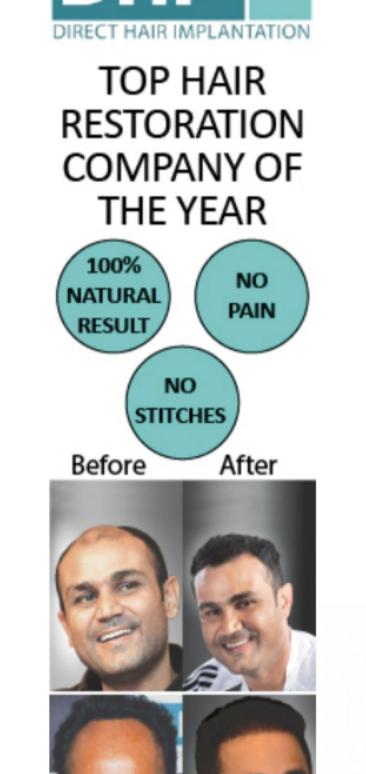
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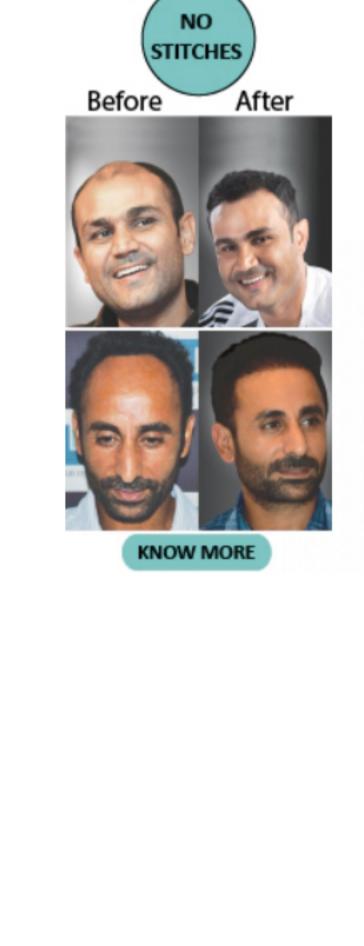
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