

RHINO TUFF[®]
Skylighting
Roof Ventilation &
Hybrid Products

ISO 9001:2015

ISO 14001:2015 CERTIFIED

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RHINO TUFF®

RHINO TUFF ROOFING & SKYLIGHTING PRODUCTS

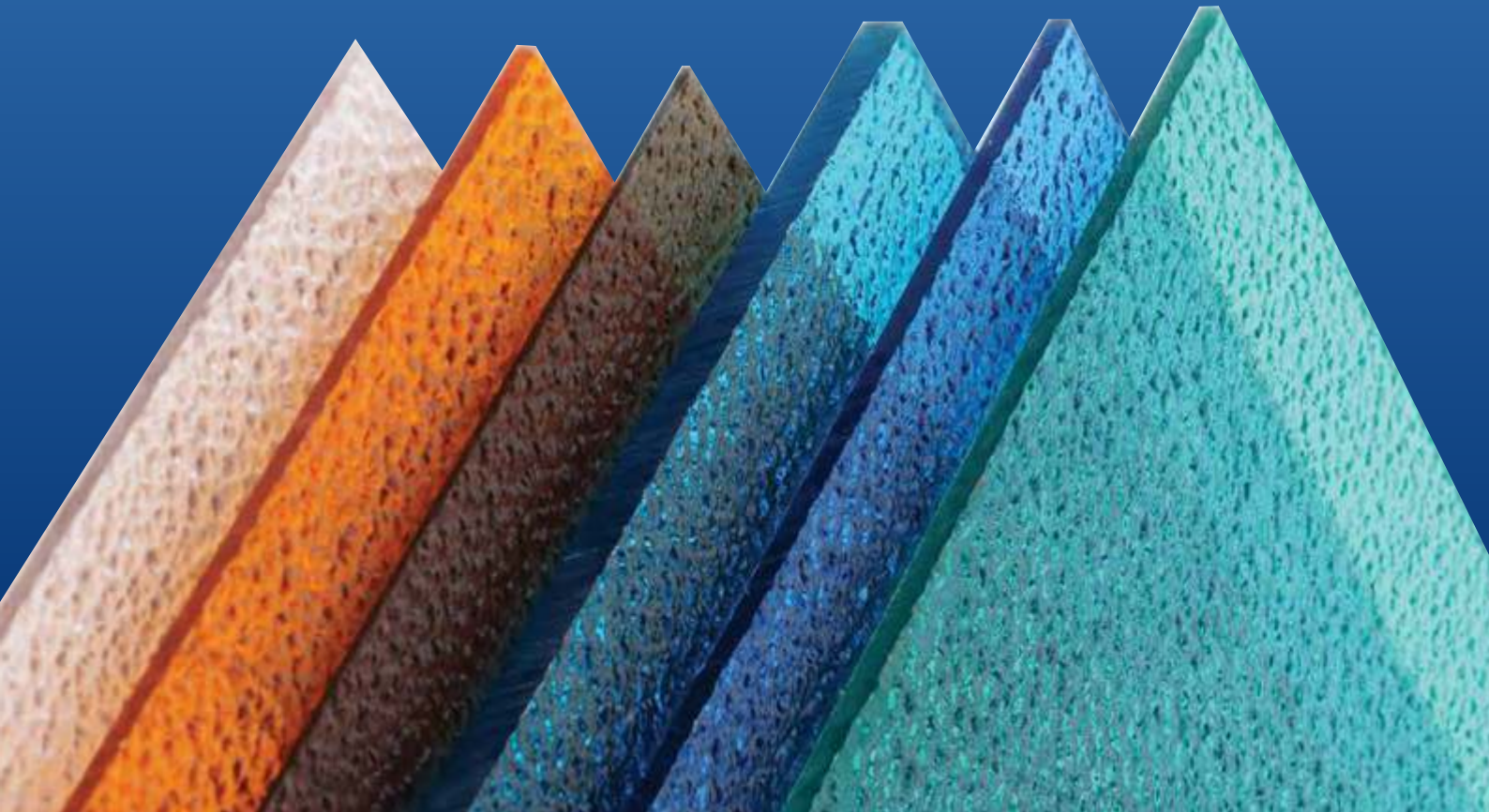
Add Sunshine To Your Life

- Polycarbonate Solid Flat Sheets
- F.R.P. Anti-Corrosive Roof Panels & Roof Accessories
- Polycarbonate Single Skin Trapezoidal & Corrugated Skylight Panels
- Polycarbonate Double Skin Thermal Insulated Skylight Panels
- Skylight Tubes
- Square & Circular Skylight Domes
- Pyramid & Tubular Skylight Domes
- Barrel Vault Skylights



RHINO TUFF

POLYCARBONATE SOLID FLAT PANELS



RHINO TUFF Polycarbonate Solid Flat Panels combine exemplary strength, superlative performance, pleasing aesthetics and enduring durability to deliver un-matched value. They are extruded over the most advanced and sophisticated extrusion machinery using the best quality Polycarbonate Granules. They are rigorously tested to ensure zero defect quality. They comply with the highest global quality and safety standards and have wide ranging industrial and commercial applications.

They can be IR & UV Coated for use in open conditions. They can be made available in customized sizes, thicknesses and in a wide range of colors - tints and surface textures for customized light while limiting solar heat transmission. RHINO TUFF PC Solid Flat Sheets are mechanically strong, impact resistant, shatter proof and are practically unbreakable. They are weather-proof and are fire rated. They can easily be cut and processed into different sizes and shapes by bending, cutting or thermoforming them.



RHINO TUFF **FRP ANTI CORROSIVE ROOF PANELS**



Rolls



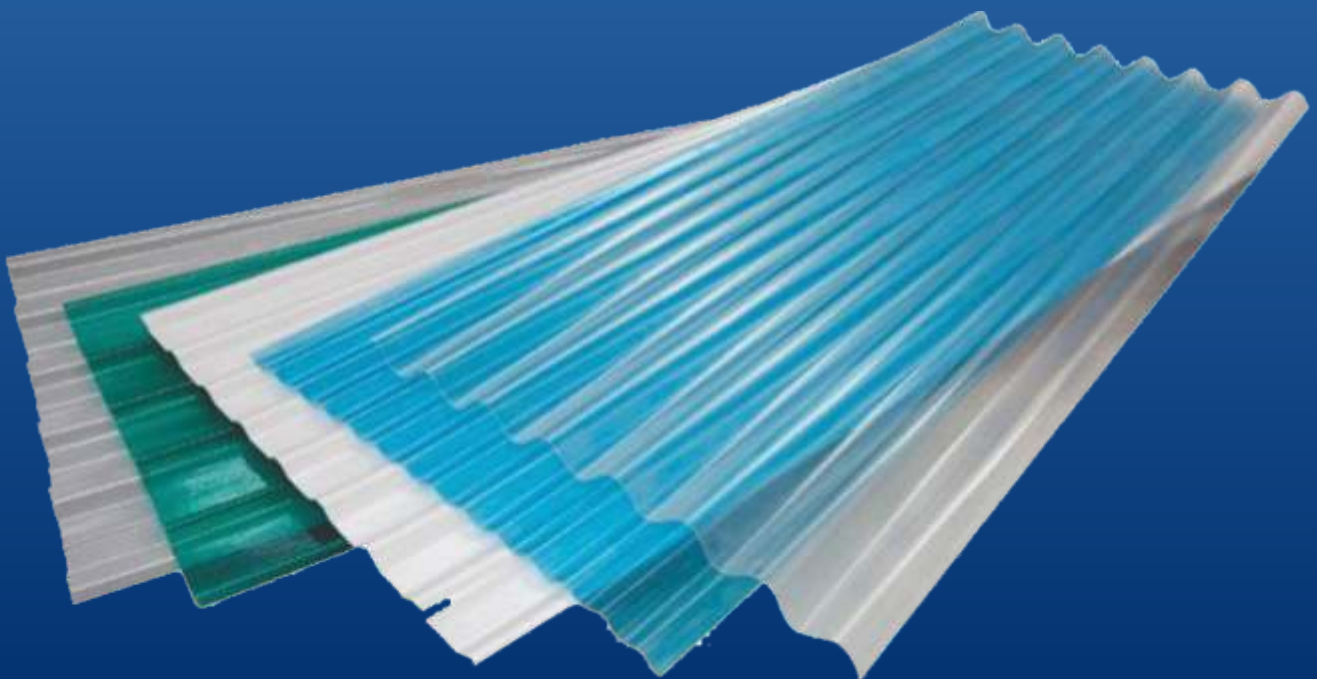
Plain



Profiled



Corrugated

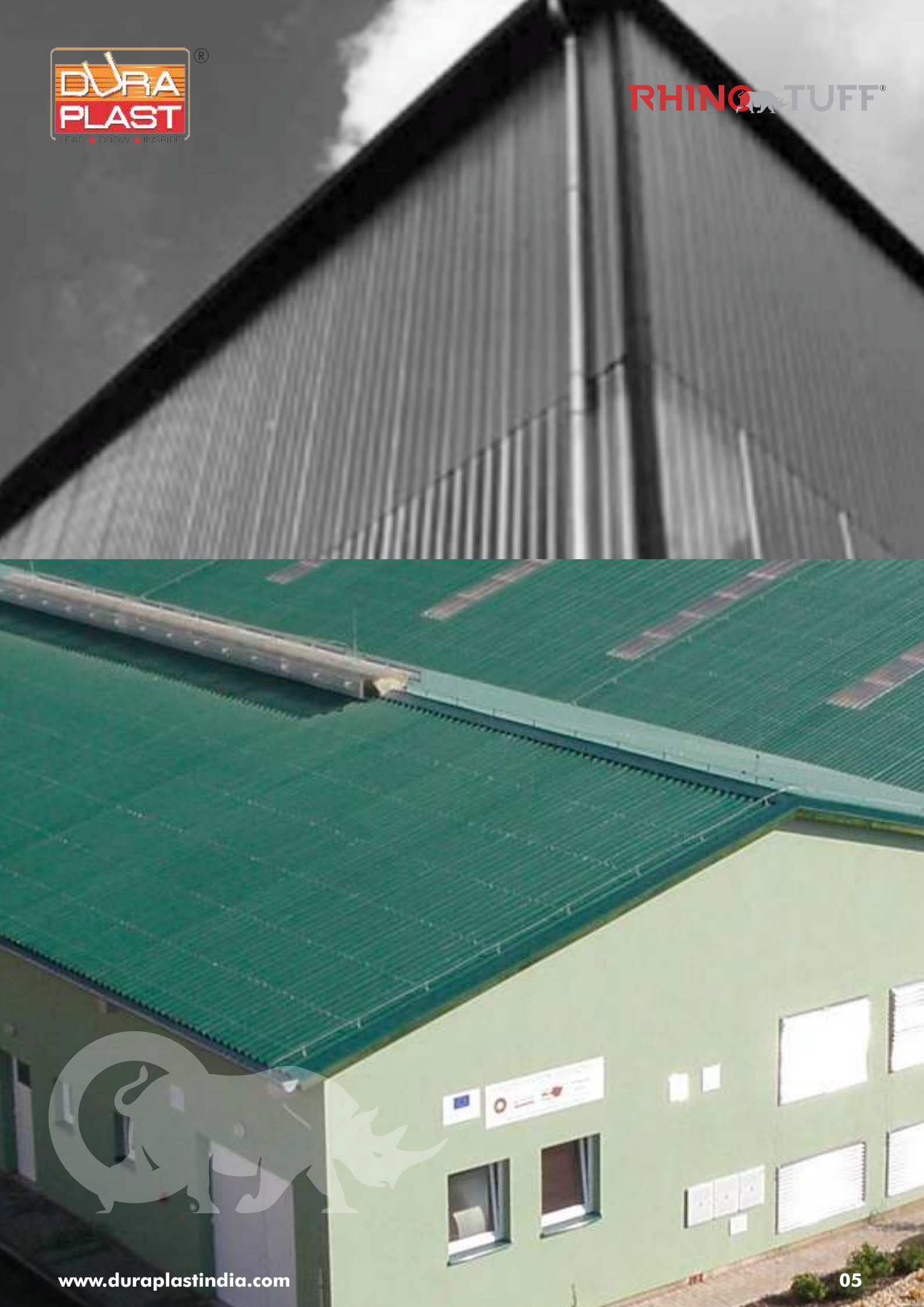


RHINO TUFF FRP Anti – Corrosive Roof & Wall Cladding Panels are strong, impact resistant and are tough and rugged. They are suited for use in tough industrial environments where exposure to chemical corrosion and high operating temperatures is common and in areas which are in close proximity to the sea.

They are UV stabilized to resist rust and harmful UV Radiation. They are provided with top and bottom Gel-Coat which protects against environmental degeneration and wear and tear.

They serve as good insulation material and fire rated. They can be opaque or transparent. They have a smooth glass like laminated top and bottom finish. They can be made available in a wide range of corrugations and in a wide range of pleasing colours.

They are guaranteed for satisfactory performance and have a long life expectancy.



RHINO TUFF® **POLYCARBONATE SINGLE SKIN TRAPEZOIDAL & CORRUGATED SKYLIGHT PANELS**



RHINO TUFF Single Skin Polycarbonate Skylight Panels are excellent in terms of strength, performance, durability and aesthetics. They are extruded using the best quality UV Stable Polycarbonate Granules using the most advanced and sophisticated extrusion technology.

They are strong, impact resistant, light weight, UV Coated and are fire rated. They can be up to 90% transparent like clear glass. The UV Coating protects them from degenerating and yellowing due to harmful UV Radiation. Bottom surface texture if provided can help diffuse and scatter natural light to cover a large floor area.

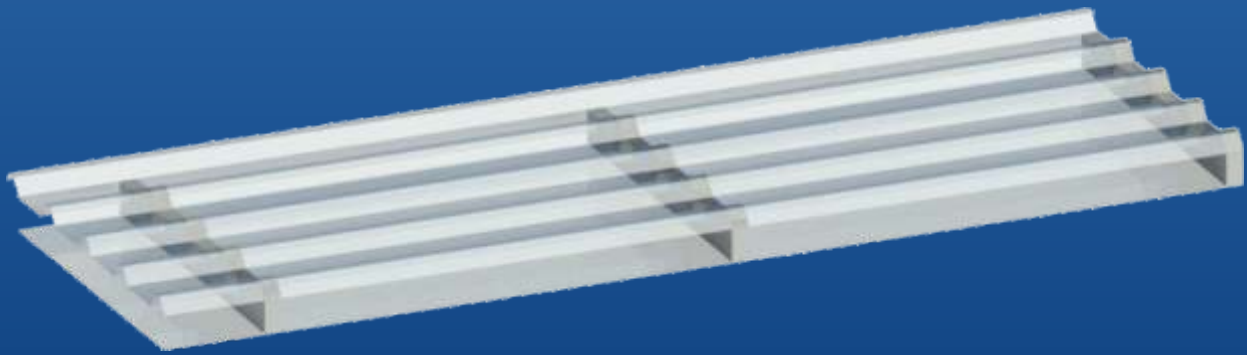
RHINO TUFF Single Skin Skylight Panels can be plain or textured and can be made available in different colors and in customized sizes and corrugations. They can be fixed over roofs or can be used in north lights or cladding for natural light.

They are easy to handle and install at sites.



RHINO TUFF®

POLYCARBONATE DOUBLE SKIN TRAPEZOIDAL SKYLIGHT PANELS



RHINO TUFF Polycarbonate Double Skin Thermal Insulated Skylight Panels are the outcome of extensive research, advanced engineering capabilities and innovation.

They provide soft diffused natural light while limiting solar heat transmission. They consist of a Polycarbonate Trapezoidal Clear Top Panel and a Polycarbonate Flat Clear Multi-Cell Panel which are spaced using separators. The Top Panel collects maximum amount of natural light whereas the Bottom Panel diffuses and scatters it over a large floor area while blocking solar heat.

They are mechanically strong yet light, impact resistant, dimensionally stable and are shatter proof and unbreakable. They serve as excellent thermal and acoustic insulation material. They are UV protected and are fire rated. They are recyclable and are non-hazardous and non-polluting.

RHINO TUFF Double Skin Skylights are used with sandwich panels over pitched roofs for natural light. They can be made available in customised sizes, wall thicknesses and profiles and can easily be integrated with existing roofs.

They are warranted for satisfactory performance and are highly durable



RHINO TUFF® **SKYLIGHT TUBES**



RHINO TUFF Skylight Tube is a technologically advanced roof mounted Sky Lighting System. It comprises of a proprietary Light Capture Dome Lens, a plastic custom designed Roof Curb, a Reflective Light Tube and a Light Diffuser Lens.

It uses breakthrough optical lighting technology to pipe natural light indoors. From dawn to dusk, large amount of sunlight captured and concentrated by the Light Capture Dome Lens is transferred through a highly reflective Light Tube towards the Diffuser Lens which then diffuses, scatters and spreads the light to cover a large floor area.

DESIGN & PERFORMANCE FEATURES

strong construction | light weight | UV protected | leakage proof | customizable natural light - up to 300 LUX | thermal insulated - low U & R Values | maximum floor coverage | easy to install | safe to use | fire rated | saves power | maintenance free | economical to procure and use | short pay-back period | guaranteed performance and long-life expectancy | environment friendly

INDUSTRIAL



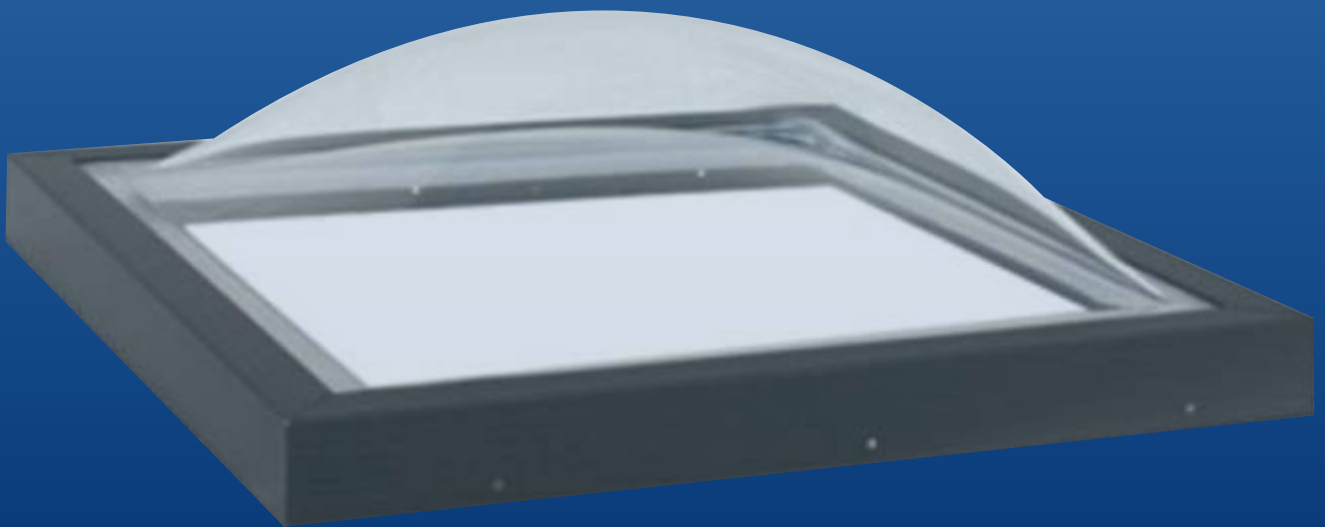
WAREHOUSING



COMMERCIAL & INSTITUTIONAL



RHINO TUFF® **SQUARE & CIRCULAR SKYLIGHT DOMES**



RHINO TUFF Skylight Domes are elegantly designed. They can be fixed over residential buildings, commercial buildings, factories and warehouses. They provide soft diffused natural light indoors.

They are strong, impact resistant, U.V. Protected and are fire rated.

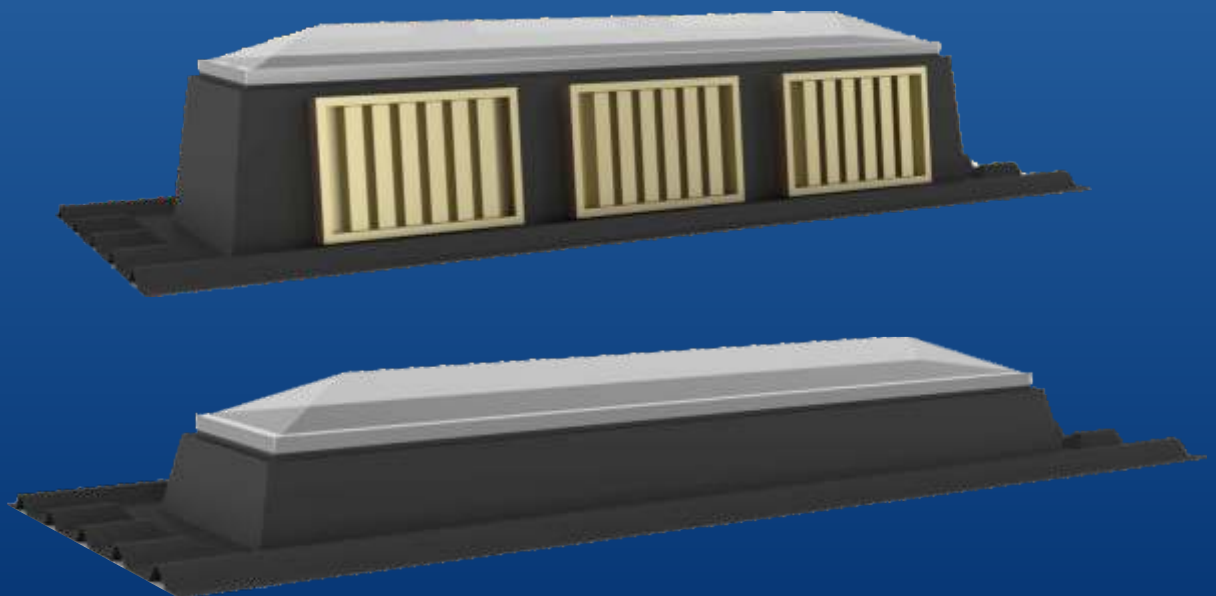
RHINO TUFF Skylight Domes can be made available in many shape and sizes. Common shapes are square, circular & box type. They can be single or double glazed. The doubled glazed domes have superior thermal and acoustic insulation properties and are safer to use.

RHINO TUFF Domes are fixed over roofs using sleek and elegantly designed customized plastic roof curbs. They allow proper and leakage proof fitment of the Domes over roofs.



RHINO TUFF[®]

PYRAMID & TUBULAR SKYLIGHT DOMES



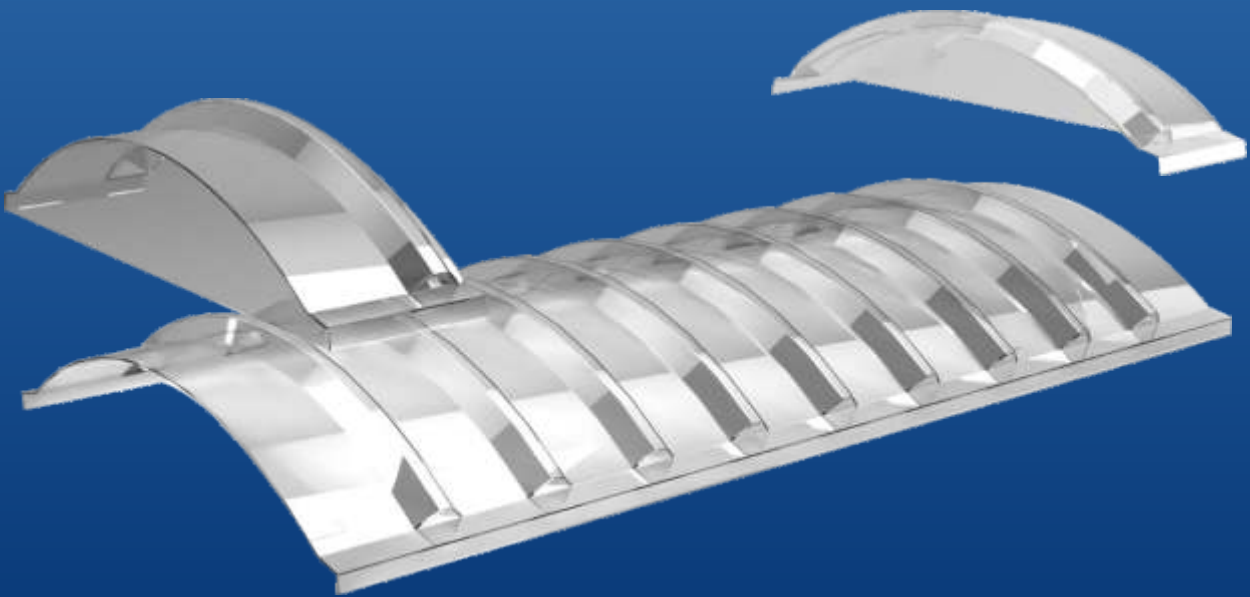
RHINO TUFF Polycarbonate Skylight Pyramids & Tubes are large-sized roof mounted UV coated Light Domes for use in factories and warehouses. They provide large amounts of natural light without heating the building. They can be up to 3.20 mtr long.

They are fixed over plastic custom designed roof curbs in a profile / corrugation matching with that of the roof panels for proper laps and for easy, quick and leakage proof installation. The roof curbs are fitted with diffuser lenses to diffuse, scatter and evenly spread the light captured by the Dome over a large floor area instead of the roof curb has a diffuser.

Steel or Aluminium Ventilation Louvers can also be configured with the Light Domes to provide natural roof ventilation besides natural light, if need be.



BARREL VAULT SKYLIGHTS



RHINO TUFF Barrel Vault Skylights are arch-shaped and self-supported barrel-vaulted skylights for standing seam roofing systems. They offer quality natural light while blocking solar heat.

They consist of a U.V. protected transparent clear Polycarbonate Corrugated Outer Cover to collect and capture a large amount of sunlight, a Polycarbonate Corrugated Panel for extension and a thermal-insulated Polycarbonate Multi Cell Panel to diffuse and scatter light while blocking solar heat transmission.

The Outer Cover (comprising of crown, continuous & end units) can easily and quickly be assembled over roofs using the existing roof underlay to achieve long interrupted roof runs or to form small individual light units.

They are strong, impact resistant, dimensionally stable, UV protected, and are leakage proof. They have low U & R Values and are fire rated. They are maintenance free, guaranteed for satisfactory performance and are highly durable.





RHINO TUFF®

ROOF VENTILATION HYBRID & OTHER PRODUCTS

Breathe Fresh Everyday

- Automatic Rotators with GRP Soaker Panels or Polycarbonate Thermal Insulated Skylights Cum Soaker Panels
- Roof Extractors & Hybrid Ventilators
- Polycarbonate Ventilation Wall Cladding Louvers
- Skylight Tube - Automatic Rotators Combo & Skylight Dome - Auto Rotators Combo
- GRP Rain Water Gutters With Grp Coated Down Pipes & Pipe Fittings



RHINO TUFF®

AUTOMATIC ROTATORS WITH SINGLE & DOUBLE SKIN POLY SOAKER PLATES



RHINO TUFF Automatic Rotators are natural roof ventilation systems. They are free spinning roof exhausts that work by utilizing the kinetic energy of wind to induce air flow through Centrifugal Action.

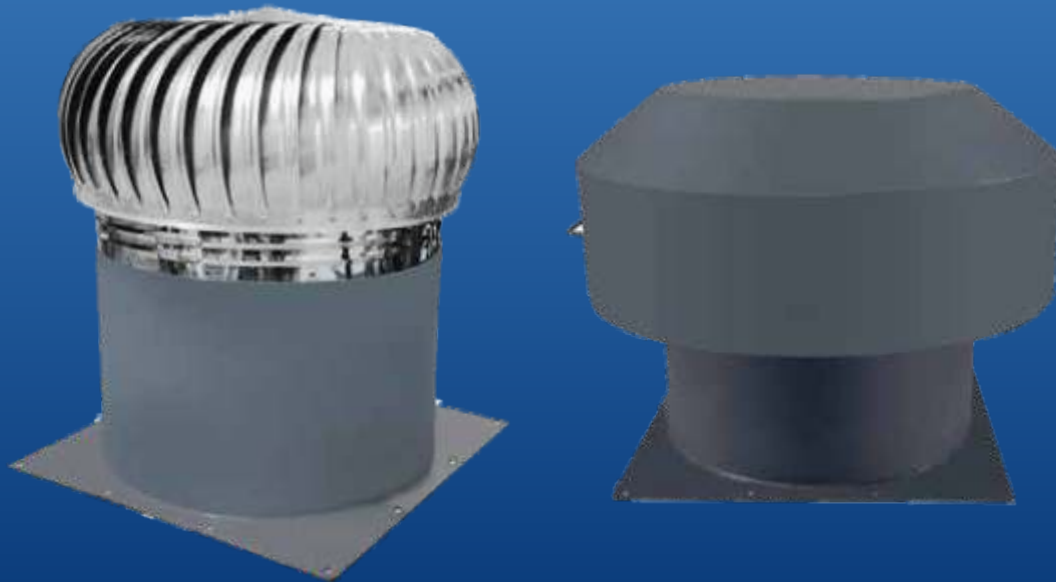
They are fixed over transparent single or double skin customizable Poly Soaker Plates that serve as roof curbs and full - size skylights that provide natural light. The Poly Soaker Plates are custom designed as per roof panels for easy, proper and leakage proof installation.

FEATURES

strong yet light | tough & rugged | aero-dynamic design | provides effective natural ventilation and natural light at no cost | highest exhaust capacity | weatherable | storm and hail proof | leakage proof | noiseless | maintenance free | custom designed as per roof panels | easy to install with no need for water proofing | save power | economical to use and procure | short pay-back period | high returns on investment | environment friendly



RHINO TUFF **ROOF EXTRACTORS & HYBRID VENTILATORS**



RHINO TUFF Roof Extractors are power roof exhausts. They are electric axial fans that consist of a motor driven aluminium impellers. The impeller and electric motor are housed within an epoxy coated M.S. case and are covered at the top by a cowl to keep water and birds away. They come in two different diameter sizes of 600 & 700 MM and can exhaust 6500 & 10000 C.F.M. continuously.

RHINO TUFF Hybrid Ventilators are unique dual roof ventilation systems. They work as a natural ventilation system and a power ventilators for smoke control. They can provide natural and forced ventilation. They consist of a S.S. wind driven Automatic Rotators and a power-driven axial fan. They can exhaust up to 6500 C.F.M. of hot air when the motor is on and when the motor is turned off, the S.S. Automatic Rotator can exhaust up to 2700 C.F.M. naturally.

Both RHINO TUFF Hybrid Ventilators and RHINO TUFF Roof Extractors are mounted over transparent custom designed Poly Soaker Plates. They serve as roof curbs and full - size skylights that provide natural light.



RHINO TUFF®

POLYCARBONATE VENTILATION WALL CLADDING LOUVERS



RHINO TUFF Polycarbonate Transparent Ventilation Louvers provide the dual benefits of natural light and natural ventilation. They are used in claddings and north lights of industrial buildings and warehouses.

PERFORMANCE FEATURES

dual benefits of natural light and natural ventilation | maximum air flow with minimal pressure drop | mechanically strong yet light | impact resistant and shatter proof | unbreakable | leakage proof | Can be up to 90% transparent | UV protected | fire rated | leakage proof | easy to fix | maintenance free | aesthetically pleasing | guaranteed & long service life | economical to use | short pay-back period | environment friendly

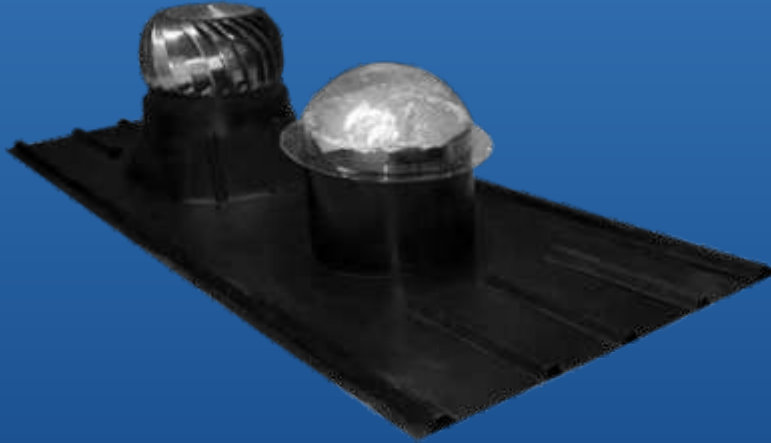
DESIGN FEATURES

fully moulded with no assembly or joints | large circular wave shaped ventilation louvers | large sized slits (openings) | large core and a large free area | up to 3.20 mtr. long | available in customized corrugations | can be fitted with dust filters & insect screens



RHINO TUFF®

RHINO TUFF SKYLIGHT TUBE - AUTO ROTATOR COMBO



RHINO TUFF®

RHINO TUFF SKYLIGHT DOME - AUTO ROTATOR COMBO



RHINO TUFF Combination Products are fixed over roofs of industrial and commercial buildings and warehouses. They harness the energy of the sun and wind to provide quality natural light and effective roof ventilation at the same time and at the same place. They help save power meant for artificial light and forced ventilation.

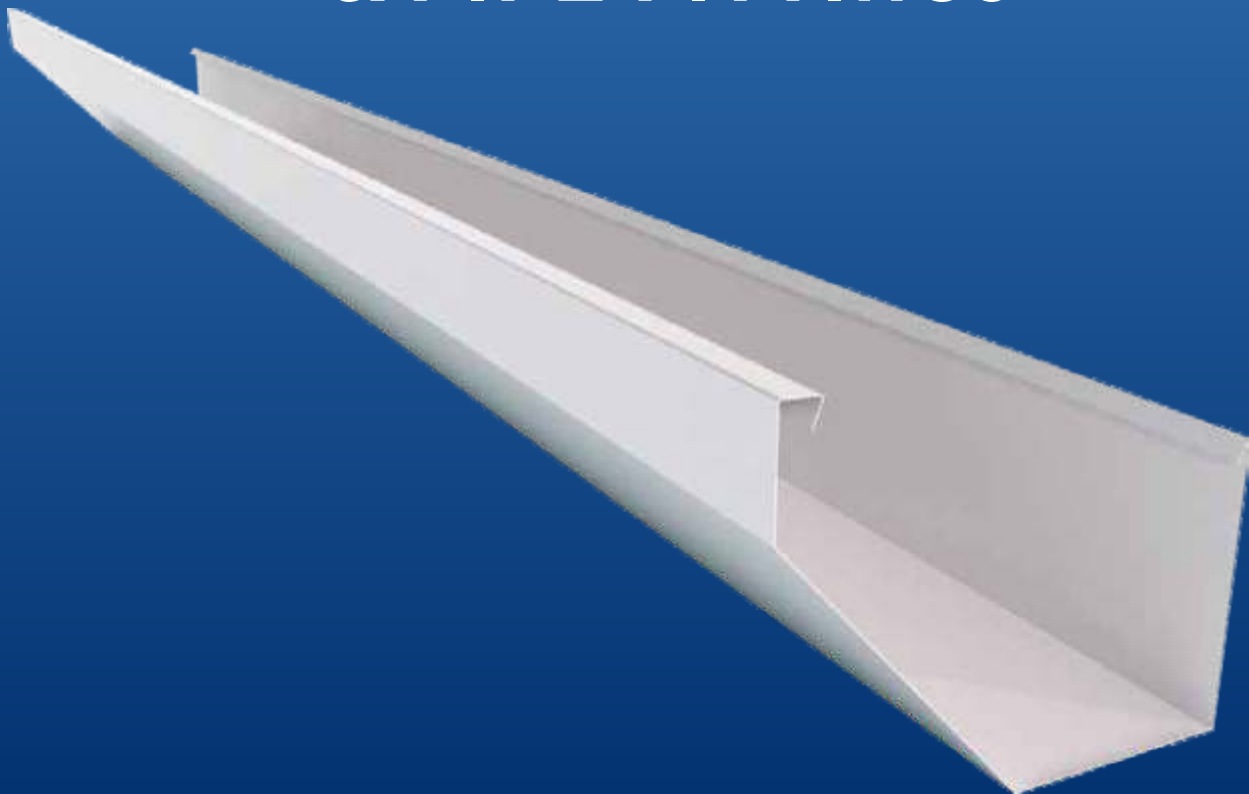
RHINO TUFF Skylight Tube - Auto Rotator Combo consists of a Skylight Tube which is an innovative and technologically advanced Tubular Sky Lighting System that pipes sunlight indoors from dawn to dusk and an Auto Rotator that is a natural roof ventilationsystem that works on wind and pressure differential and provides effective natural ventilation 24 x 7 at no operating cost.

RHINO TUFF Skylight Domes - Auto Rotator Combo consists of a Skylight Dome that provides quality natural light indoors and an Auto Rotator.

A customized plastic roof curb is used to firmly hold the ventilation and skylighting equipment over the roof. The roof curb facilitates easy, hassle free, proper and leakage proof installation anywhere on the roof.



GRP RAIN WATER GUTTERS WITH GRP COATED DOWN PIPES & PIPE FITTINGS



RHINO TUFF FRP Rain Water Gutters are plastic drains that are used in steel buildings to dispose off or harvest rain water.

They are strong, tough, and resist rust, UV Radiation and chemical corrosion. They are fire rated and are safe to use. They can be steel reinforced for added mechanical strength and dimensional stability.

They can be manufactured in any shape, size and colour. They have a smooth glass like inside finish to resist deposits and frictional losses. They are provided with a male – female fixing arrangement for linear extension and outlets of an appropriate diameter size for fixing of Down Take Pipes.

They are suited for use in chemical or processing plants where exposure to chemical corrosion and heat are common. They are also ideally suited for use in buildings which are in close proximity to the sea and where the environment is saline.

They come with RHINO TUFF FRP Coated Pipes & Pipe Fittings (FTP's, bends, sockets & shoes) in various diameter sizes and in the required length and wall thicknesses.



OUR CUSTOMERS

RHINO TUFF®



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