

PRODUCT CATALOG





Gulf Extrusions believes in the power of ideas. That is why we continually use evolving technology to bring out the many eco-friendly properties of Aluminium to design new products that eventually help in reducing the carbon footprint.

From the time Gulf Extrusions was established in 1976 and as a member of the Metals Industries, the flagship company of the Al Ghurair Group, we have created a reputation as one of the most innovative, productive and reliable aluminium extrusion companies in the world. We strive to continue to be so by providing the highest quality products and services to our clients.

Keeping up with economic times, we look ahead to inevitable changes, product advancements and continually use evolving technology to bring out the many eco-friendly properties of aluminium to design new products.

Our objective for 2020 and beyond is for the aluminium industry to help reduce greenhouse gas emissions in the country, thereby vastly reducing the UAE's carbon footprint. We are proud to be associated with our customers who have adopted aluminium solutions in an effort to contribute to reducing the carbon footprint of our country and our planet. Together, let us continue to work towards a future of possibilities in sustainability and excellence!

Majid Saif Al Ghurair
Managing Director

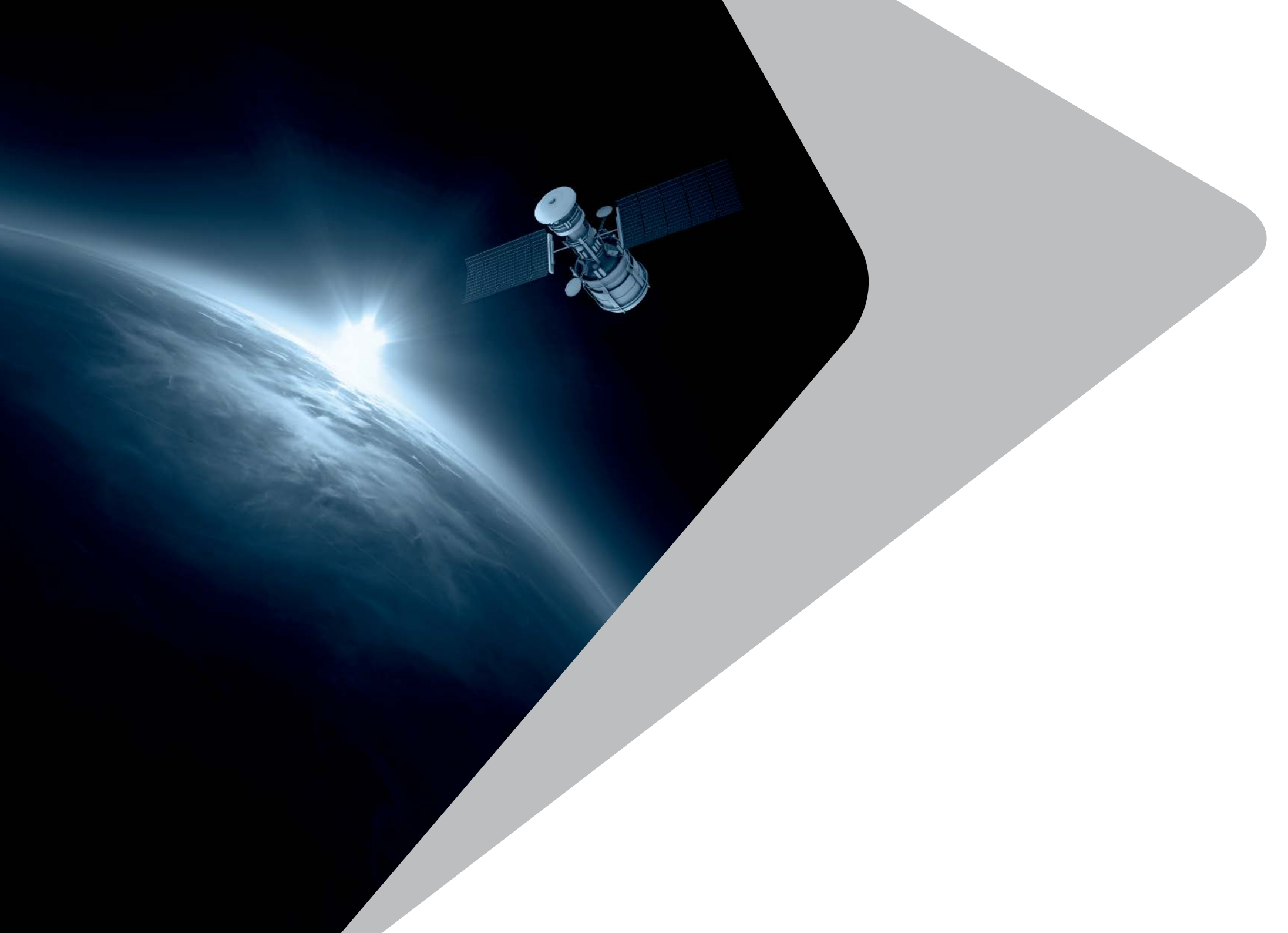
TOWARDS A FUTURE OF POSSIBILITIES

Gulf Extrusions is a leading aluminium extrusion company, member of the Metals Industries, which is part of the Al Ghurair Group of companies. The company is strategically located in Dubai alongside its main supplier, Dubai Aluminium, and the foremost gateway to the world - the Jebel Ali Ports.

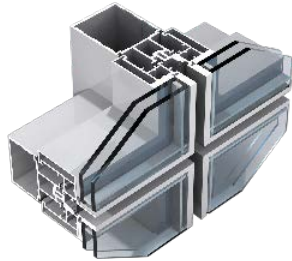
Since its establishment in 1976, Gulf Extrusions has been a reputed and socially responsible United Arab Emirates company for 40 years with an extremely strong regional presence. The company was formed with the sole purpose to meet the increasing demands for aluminium extrusions in domestic, regional and international markets. Gulf Extrusions' six presses and highly skilled workforce are able to produce 60,000 metric tonnes per annum with

a rated capacity of 24,000 tonnes for powder coated finish, 6,000 tonnes for anodized finish and can offer more than 18,000 profile designs. These extrusions cover numerous industries ranging from architectural to automotive, transportation, engineering to structural sections, components for household items, HVAC and customized products. Gulf Extrusions quality products can be seen in many of today's progressive structures.

Right from the progressive stages of Gulf Extrusions, from its inception to expansion, the company not only has acquired a majority share in the local market, it has also made its presence felt globally throughout the GCC countries, Indian sub-continent, South East Asia, Australia, Africa, Europe and Canada.



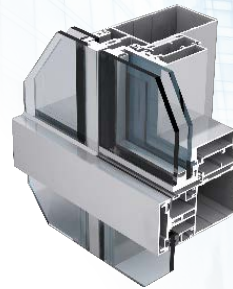
CURTAIN WALL



VORTEX 70MM

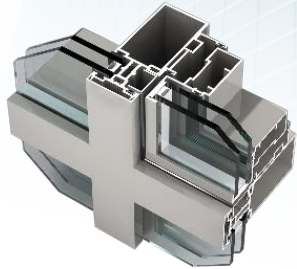
- » Features glass – 4mm to 32mm
- » The frame & sash in the system can be thermal or non-thermal

Vortex 70 is a unique curtain wall structure that combines multi-structural grid to create various facade aspects, including four-way structural curtain wall systems. Vortex 70 has proven to be a curtain wall solution perfectly tailored to the Middle East market requirement.



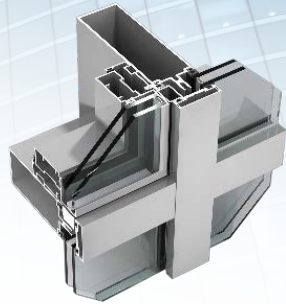
VORTEX 61.5MM

- » Features glass – 6mm to 32mm
- » The system can provide the possibility of large glass panels
- » The system used for four way structural glazing
- » The system used in high structures
- » Vortex 61.5mm has been tested at Al-Futtaim Exova for the below:
 - › Air infiltration – ASTM E283-04
 - › Water penetration – ASTM E331-00
 - › Wind resistance – ASTM E330-02 (serviceability)
 - › Wind resistance – ASTM E330-02 (safety)



CURTAIN WALL 50MM

- » Features glass – 6mm to 32mm
- » It is fast to manufacture and to install
- » Possibility to accommodate large panels
- » Reinforced Mullions help enhance the free span area, making it possible to be used in high structures
- » Italian openings with selected stay-arms to ensure the tightness and stability of the opening

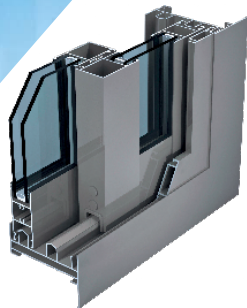


CURTAIN WALL 60MM

- » Features glass – 6mm to 32mm
- » Available in two-way horizontal capping and four-way structural curtain wall systems
- » Reinforced mullions make it possible to be used in high structures
- » Available as cold and thermally insulated profiles
- » It is fast to manufacture and install



SLIDING NON-INSULATED/COLD SYSTEM



SLIDING 100MM

- » Features glass - 6mm to 24mm
- » Sash: 23mm to 39.3mm Tubular straight, elegant and stylish
- » Designed for heavy duty use
- » All profiles are available in various surface treatment options
- » Assembly: Assembly of the frames is done by 45° cut whereas the sashes are custom 90° and 45° cut



SLIDING 105-125 MM

- » Features glass - 6mm to 24mm
- » Sliding 105mm has been tested at Al-Futtaim Exova
 - › Air infiltration - ASTM E283-04
 - › Water penetration - ASTM E331-00 (static)
 - › Wind resistance - ASTM E330-02 (serviceability)
 - › Wind resistance - ASTM E330-02 (safety)
 - › Performance grade - ANSI/AAMA/NWWDA (101/I.S.2.97)



SLIDING UWS 1-102MM

- » Features glass - 24mm
- » System performance
- » Sliding 102mm has been tested at Al-Futtaim Exova
 - › Air infiltration - ASTM E283-04
 - › Water penetration - ASTM E331-00 (static)
 - › Uniform load deflection - ASTM E330-02 (serviceability)
 - › Uniform load structural - ASTM E330-02 (safety)

SLIDING INSULATED/THERMAL BREAK



THERMAL BREAK SLIDING-900

- » Features glass - 24mm
- » Sash: 38mm & Frame: 90mm - 123.5mm
- » Provides high thermal comfort, rigidity and strength
- » Assembly of the frame cut 90° and of the sash cut 45°
- » Fly screen can be used from inside and outside

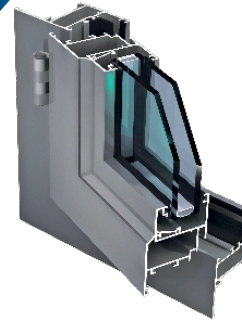


MONTANA 120MM

- » Features glass - 24mm
- » Frame: 120mm & Sash: 37.4mm
- » Available with fully tested Gulf Extrusions accessories
- » Montana system has been tested at Al Futtaim Exova for Air Infiltration, Water Penetration, Wind resistance safety and serviceability.
- » Fly screen can be used inside & outside
- » Assembly of the frame & sash cut: 45°

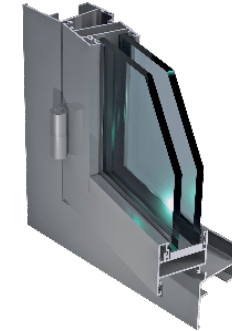


HINGED NON-INSULATED/COLD SYSTEM



HINGED 45MM

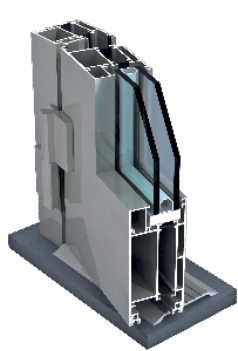
- » Features glass – 4mm to 28mm
- » Frame: 45mm & 150mm
- » Hinged 45mm has been tested at Al-Futtaim Exova
 - › Air infiltration – ASTM E283-04
 - › Water penetration – ASTM E331-00 (static)
 - › Wind resistance – ASTM E330-02 (serviceability)
 - › Wind resistance – ASTM E330-02 (safety)



HINGED 42MM

- » Features glass – 6mm to 24mm
- » Frame: Strong cross section profiles of 42mm up to 180 mm
- » The system can be inward and outward opening
- » The system can be used for door and window
- » The system covers arch shape, louvers & swing doors

HINGED INSULATED/THERMAL BREAK



TB-600 SERIES

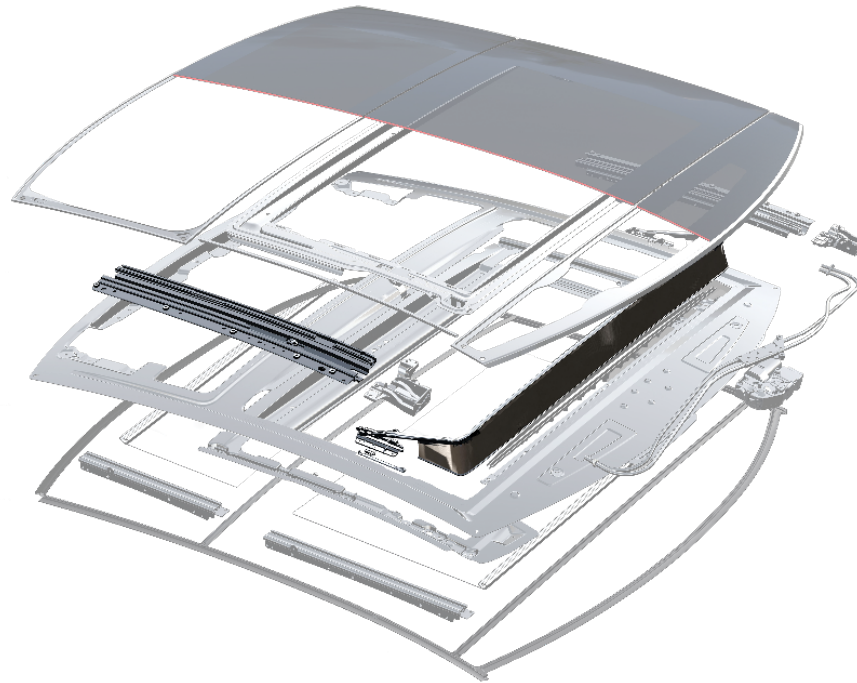
- » Features glass – 18mm to 38mm
- » Thermally broken system provides excellent thermal comfort
- » Full range of tested Gulf Extrusions accessories available
- » TB-600 system has been tested at Al-Futtaim Exova for
 - › Air infiltration – ASTM E283-04
 - › Water penetration – ASTM E331-00 (static)
 - › Wind resistance – ASTM E330-02 (serviceability)
 - › Wind resistance – ASTM E330-02 (safety)



THERMAL BREAK HINGED 62MM

- » Features glass – 18mm to 40 mm
- » The system can be inward and outward opening
- » Thermally broken system with Thermal strip of 22mm
- » The system can be used for Doors, Windows, Turn & Tilt Windows
- » Available with full range of Gulf Extrusions accessories





AUTOMOTIVE APPLICATIONS

Gulf Extrusions now has a dedicated subsidiary – REFCO Metals, specializing in the production of high precision machined alloy products for the automotive sector. REFCO Metals produces a number of sunroof related product lines which have kinematic movements and is a lifetime product in cars. REFCO Metals provides such high quality fabricated parts to brands such as Jaguar, Land Rover, Mercedes Benz, Lotus, Aston Martin, BMW, Renault, Nissan, Honda, Volvo, Jeep to name a few.

Specialized capabilities of Gulf Extrusions and REFCO Metals include:

- » 5 Axis CNC machining and fabrication
- » Fully air conditioned plant
- » State of the art CMM
- » Turnkey design and tooling
- » Advance product quality planning
- » Fully accredited ISO 9001 and TS 16949
- » Fully integrated warehouses across the globe
- » Pressing
- » Bending
- » Anodizing
- » Powder Coating



Webasto
Feel the drive

AUTOMOTIVE



TENTS

- » Widely used in sturdy tent poles, beams and columns
- » Capability to produce wide profiles which offers exceptional structural stability and accommodate sizeable load distributions
- » Available in various anodized and powder coated finishes
- » Used in the assembly or outdoor tents, exhibition tents, rooftop tents and more



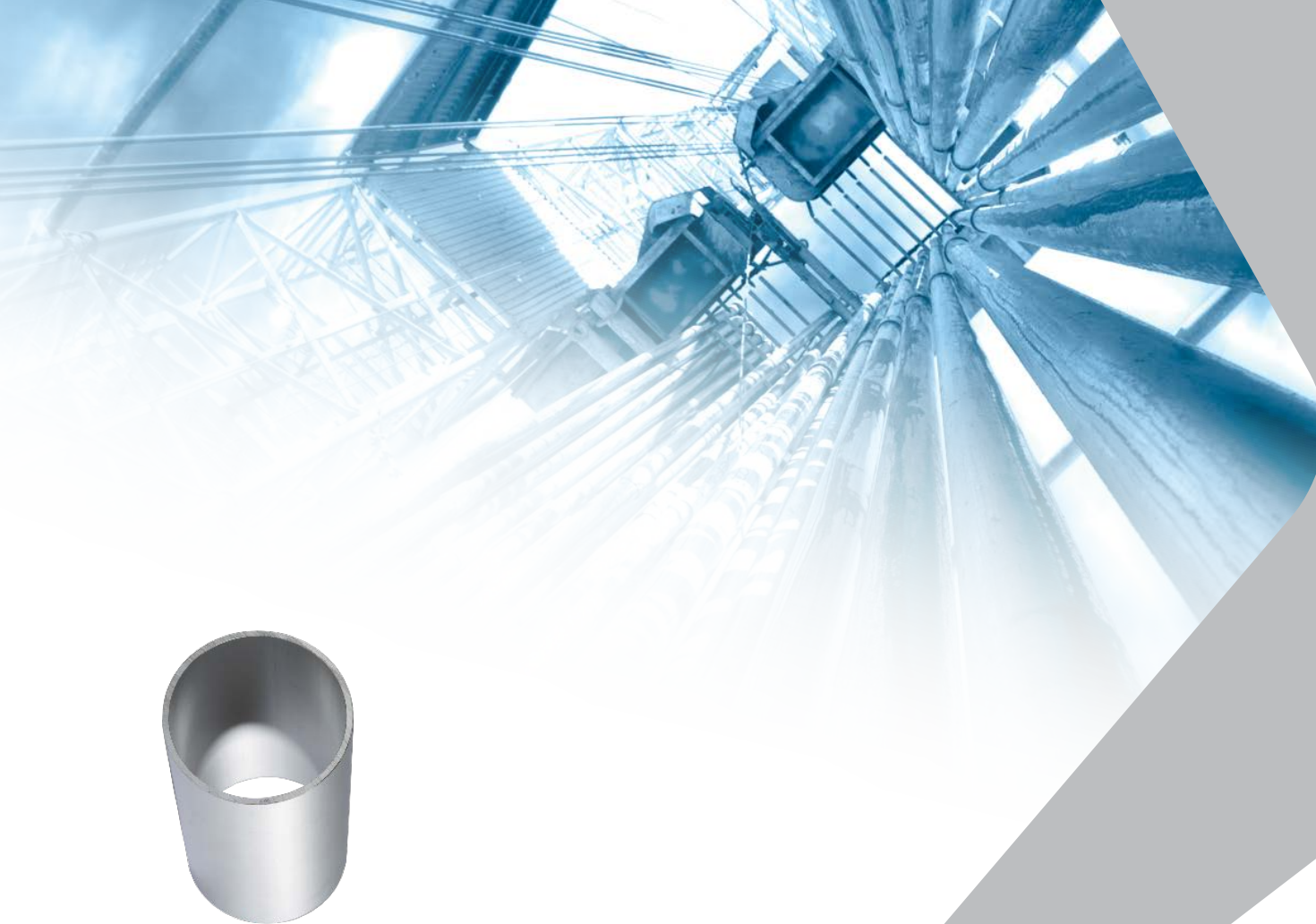
PNEUMATIC CYLINDERS & ACTUATORS

- » High precision extrusions for pneumatic cylinders
- » Can offer wide Circumscribing Circle Diameters (CCD)
- » Provide excellent internal and external smooth finishes
- » Wide range of anodizing thickness available
- » Can offer fabricated and cut-to-size pieces



HEAT SINKS & COOLING SOLUTIONS

- » Provide high precision extrusions for passive cooling components
- » High tolerance extrusions provides excellent heating dispersion
- » Capability to extrude profiles with high fin ratios
- » Used to cool electronic components, high-power semiconductor devices, optoelectronic devices, refrigeration, air conditioning systems and automotive radiators



OIL AND GAS

- » Provide high strength engineered aluminium inner tubes
- » Used in severe and higher temperature application
- » Provide low-friction, smooth, internal finishes
- » Used in various high pressure Oil & Gas applications



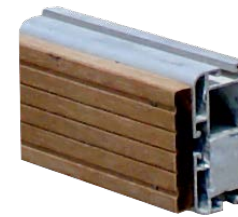
TRAILER

- » Gulf Extrusions large press is capable to offer wide profiles for the trailers and transport industry
- » Offers highly durable, maintenance-free solution compared to steel
- » Provides high corrosion resistance
- » The light weight sections increase the fuel efficiency, high payload capacity, durability and long life of the trailers
- » Used in car trailers, horse trailers, watercraft, motorcycle, stock, recreational, and utility trailers



LOCOMOTIVE

- » Offer high quality profiles which are used in both, the interiors and exteriors of trains, metros and rail coaches
- » Interior applications include seats, luggage racks, locomotive control interface systems
- » Exterior applications include train bodies, impact structures and more



MARINE

- » Gulf Extrusions is DNV certified to provide extensive aluminium solutions for the marine industry
- » Provide complex hollow shapes for challenging marine applications
- » Anodized Aluminium offers excellent resistance to sea water
- » Key applications include structural components of hull of coastal and inland waterway vessel, ferries and boats, masts of the sailing boats and marina walkways



HELIPAD

- » Provide high strength aluminium extrusions for aluminium helidecks
- » Allows significant weight saving compared to the steel decks
- » Provides exceptional corrosion resistance whilst compared to steel decks
- » Wide range of customized designs for ground, rooftop shipboard and offshore helipads
- » Fully fabricated in Gulf Extrusions and offered as "ready to be installed" kits
- » Excellent choice for extreme weather conditions, stringent design requirements and a great light weight alternative to the typical concrete or steel helipad



X-ECO GREEN ALUMINIUM EXTRUSIONS

Some key benefits of Gulf Extrusions' X-ECO:

- » X-ECO green aluminium extrusions has pre-consumer recycled content and post-consumer recycled content is in the range of 90-95%
- » Its properties comply with European standards
- » The quality of recycled X-ECO is equal to that of virgin primary aluminium
- » Reduction of 60 to 80% CO₂ emission in comparison to exploiting primary aluminium
- » Re-melting requires only 5% of the energy in comparison to exploiting primary aluminium

- » Full Life Cycle Analysis and Environmental Product Declaration documents available for LEED V4 submissions
- » Ideal solution for Estidama, QSAS and the design of LEED certified green buildings
- » Applicable for a large number of alloys





FIRE-X87 ALUMINIUM FIRE RATED DOOR

Fire-X87 is a unique fire rated hinged Aluminium system featuring a frame width of 87 mm. It is designed to resist fire for more than 90 minutes for integrity and insulation. The special design of Fire-X87 includes fire rated accessories, fittings and custom design patented insulations. Certified fire rated glass panels are used to ensure the ultimate performance of this unique system. The Fire-X87 is tested according to

European standards accepted by civil defense authorities worldwide. The profiles of Fire-X87 are supplied exclusively in anodized finishes available with Gulf Extrusions anodized color charts.





ANODIZING

Anodized aluminium is now fashionable as a design statement. Gulf Extrusions offers a wide range of anodizing treatment options. Available colors range from Natural, Gold, Silver and Bronze to Spectrum (Blue, Green, Grey, Red and more). The Company also holds accreditation from QUALANOD – a quality label that guarantees high quality Aluminium Anodizing.

Anodizing Benefits:

Durability: Since anodized aluminum extrusion products have a protective layer, they are more resistant to wear from normal handling and usage.

Finishing: The process creates a more aesthetically pleasing finish, with either a clear or colored appearance suitable for almost all architectural, industrial and automotive applications.

Corrosion resistance: The thick outer coating produced, along with proper sealing, increases the corrosion resistivity of the surface as it prevents further oxidation.

Lasting Color: The color finish added to anodized aluminum is more enduring due to the surface obtaining more adhesive and porous qualities during the anodizing process. The resulting anodic film coating allows for effective dyeing processes to be applied.

Strength: The anodized aluminum surface is harder than pure aluminium, second only to diamonds with respect to its hard crystalline structure.

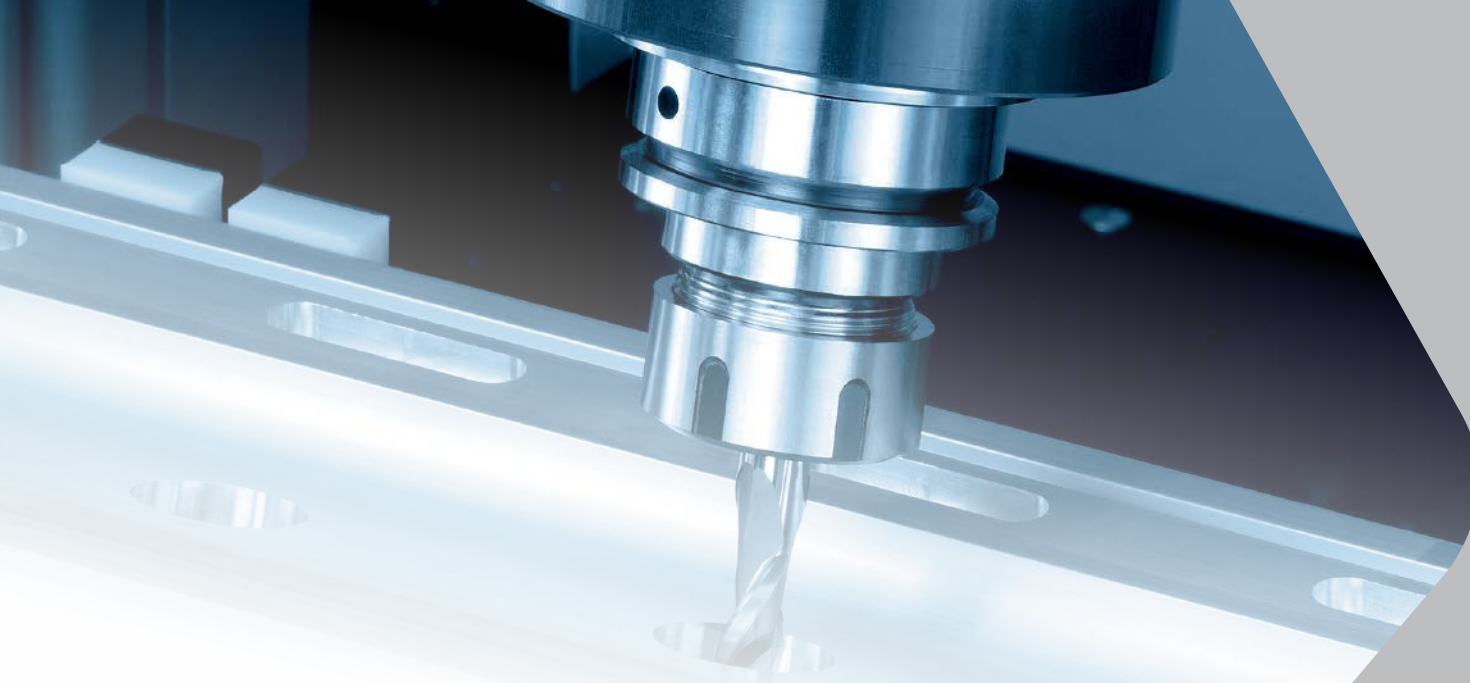
POWDER COATING

Gulf Extrusions has 3 state-of-the-art powder coating lines which are equipped to handle profiles of various dimensions. Powder coatings offered by Gulf Extrusions are thermosetting powders which provide excellent performance with a wide choice of colours. Our coatings are available for all profiles from Gulf Extrusions, be it for facades, high rises or window sections for villas. Our efficient system ensures fast turnaround and also quality in line with the best international standards.

We offer coatings to meet the harsh challenges in today's environment and our coatings meet the requirements of Qualicoat Class 1, 2 and 3.

Powder Coating Benefits:

1. Powder coatings emit zero or near zero volatile organic compounds (VOC)
2. Powder coating overspray can be recycled (Over-sprayed powder can be reclaimed)
3. Powder coating production lines produce less hazardous waste than conventional liquid coatings
4. Powder coated items generally have fewer appearance differences
5. Wider color and gloss ranges
6. Varieties of surface finishes (rough, smooth, texture)
7. Varieties of special finishes (wood, marble, metallic)
8. Energy saving coatings like heat reflective coatings which help consume less energy through reflecting external heat



INDUSTRIAL FABRICATION

Gulf Extrusions has a dedicated fabrication department which is equipped with two state-of-the-art industrial CNC machining centers and two semi-automatic cutting lines. The fabrication department is equipped to carry out precise milling, cutting, drilling, notching and other value added industrial fabrication services for the customers.



CRIMPING

Thermally broken architectural systems help in conserving energy, reducing water condensation and noise pollution. Gulf Extrusions offers systems like:

- » TB-62 Hinged Series
- » TB-600 Hinged Series
- » TB-900 Sliding Series
- » 120mm Montana Sliding Series
- » Thermal Broken Curtain Wall Systems

Profiles of these systems are joined together by means of a rigid and strong thermal resistant glass-fibre polyamide insulation strip. It minimizes thermal conductivity by 35%.



LABORATORY

The laboratory services at Gulf Extrusions guarantees product quality through extensive analysis and testing before and after any process has been approved for production. Gulf Extrusions has the highest quality testing equipment such as a Spectrometer, which controls the chemical composition of the aluminium alloys, an Electron Microscope for high magnification readings, surface roughness measuring devices and various other devices that ensure the final quality of our products are of the highest standards.

The testing services are:

- » Mechanical Testing
- » Analysis
- » Metal Nitriding
- » Metal Composition
- » Chemical Analysis
- » Machining Services

OUR QUALITY LABELS, CERTIFICATIONS AND MEMBERSHIPS



Qualanod (European Anodizers Association)



Qualicoat (European Powder Coaters Association)



ISO 14001: 2004 (Environment Management System)



ISO 9001: 2008 (Quality Management System)



OHSAS 18001 (Health & Safety Management System)



TUV Rheinland for TS 16949 (For Automotive applications)



AEC member (Aluminium Extruders Council - USA)



ESMA Emirates Authority for Standardization and Metrology



AAC member (Aluminium Anodizers Council USA)



SASO Saudi Arabian Standards Organization



DNV certification for marine applications



CE DIN EN 15088



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