

RATAAL
ALUMINIUM & STEEL FACTORY مصنع ركن التبايرج

“ideas can be engineered”

A photograph of a desk with a lamp and a notepad. The notepad is white with the words "about us" written on it. The lamp is a modern, adjustable desk lamp with a silver and black finish. The background is dark, and the overall lighting is soft and focused on the desk area.

about us

RATAAL Aluminium and Steel Factory (Rukn Al –Tabareej) an ISO Certified Facade Management Company in the Kingdom of Saudi Arabia. RATAAL is recognized as the kingdom wide leader in the design, engineering, manufacturing and installation of aluminium curtain wall, structure glazing, sky lights, automatic doors, frameless (SGU & DGU) bolted glass spider system, glass partitions windows, doors, louvers, trellis, canopies, aluminium composite panels cladding, stainless steel cladding & handrails and other architectural facade systems. Companies position has been secured by guaranteeing quality products highly skilled workmanship and uncompromised services.

The distinctive “Design & Engineering” capabilities developed by RATAAL are one of its main strengths. It is the key controlling factor of focus in the overall concept of the facade which is completely engineered by our in-house team of Designers, Engineers, Managers who, along with our manufacturing and erection engineers, aid the architects and customers in realizing their concepts.

Our team is continually updated on the latest tools, technologies and certification in the industry to ensure that our clients are provided with the best quality product and services.

The annual capacity of the factory is around 200 tons of single shift bases.

The Factory has two independent production lines with their own supporting machinery and production staff.

The Factory has good quality control supervision and the method of inspection at various stages as follows.

Raw material while receiving.

Every stage of production and fabrication.

Final product after installation.

Our Systems are tested and certified by reputed laboratories according to DIN, BSI and ASTM.

Using high performance accessories brands such as SAVIO , LAVAL and GESSE.



Our Products

Our Products

Structure Glazing
Curtain wall
Frameless Spider System (SGU & DGU)
Frameless Doors
Aluminium Composite Panel Cladding
Stainless Steel Cladding
Aluminium Rollup Shutters
Automatic Doors
Sky Lights
Aluminium Windows
Aluminium Doors
Stainless Steel Handrails
Trellis, Louvers & Canopies

All our facade systems are tested for air permeability, water tightness, structure performance and seismic loading. Furthermore, solutions to problems can be tried with relative efficiency.

Aluminium Extrusion Alloy	(6063-AIMG 105) BS A474 – DIN 1748 (PART -4)
Air Permeability	ASTM 283 , NF P 20.501
Water Permeability	ASTM 331, NF P 20.501
Structural Performance	ASTM 330, NF P 20.501
Insulating Glass Glazing	BS 5713 & 6262



Doors Windows Glass Partitions

Doors — Windows — Glass Partitions



- Sliding Windows
- Side Hung Windows
- Awning Windows
- Hinged Doors
- Sliding Doors
- Frameless Doors
- Alum. Glass Partitions
- Frameless Glass Partitions

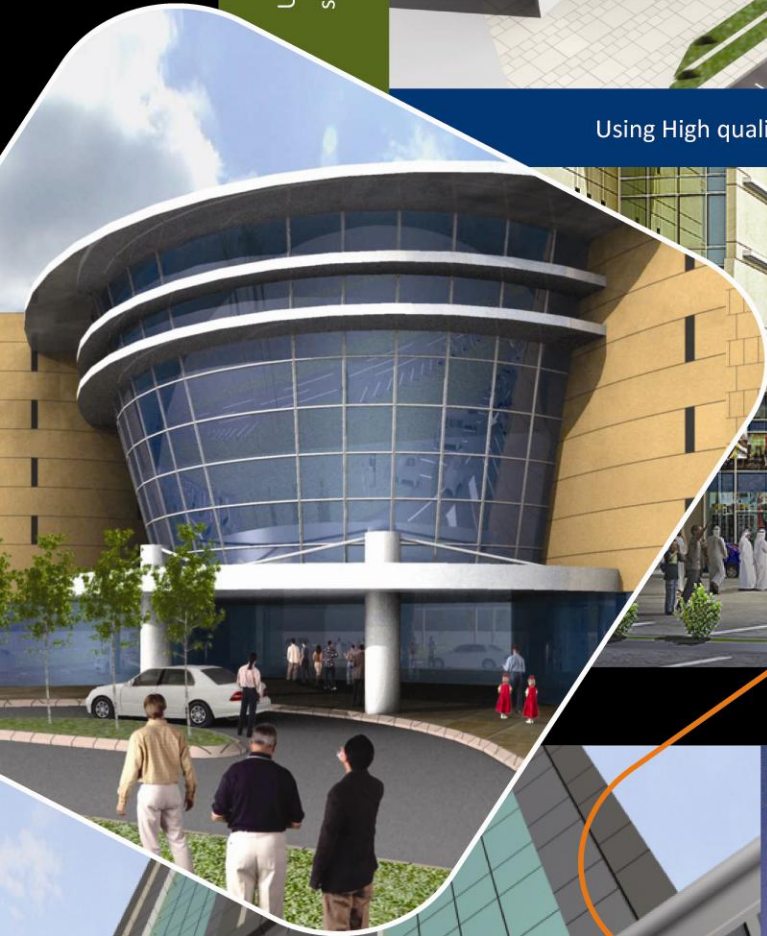


Structure Glazing — Cladding

Using internationally recognized facade glazing systems, like, techanal, schuco and balexco system.



Using High quality ACP material (ALUCOBOND, ALPOLIC, RENOBOND & AMCOOBOND).



Unitized Curtain Wall

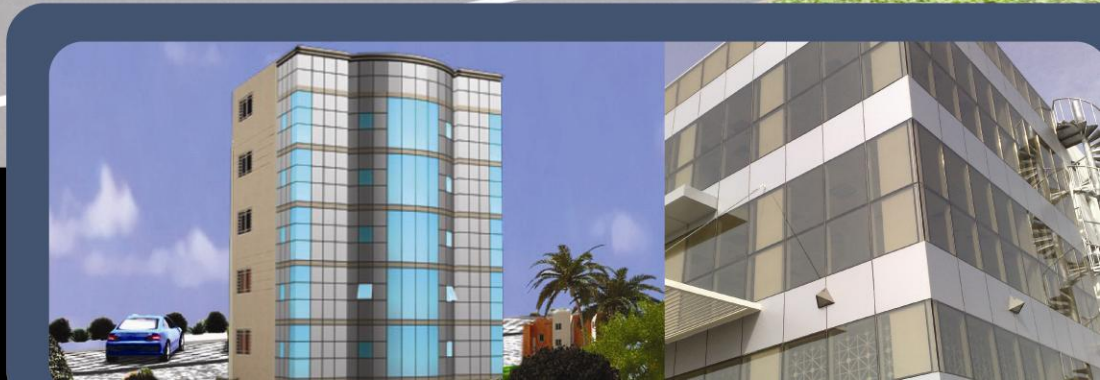
Unitized Curtain Wall

The unitized curtain wall system is a facade system for high grade buildings. It consists of the fabrication of different components and materials into a whole panel spanning one or more storeys on the same floor itself, before it is transported to the construction sites for the installation.



Features:

The panels are assembled in the factory in standardized units with a high degree of accuracy and precision. It allows better and more effective control of construction schedule.



Handrails



Architecturally designed stainless steel handrails.

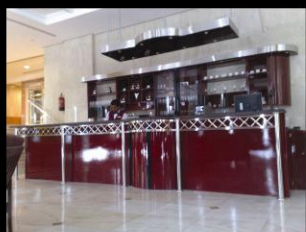


Stainless Steel Works

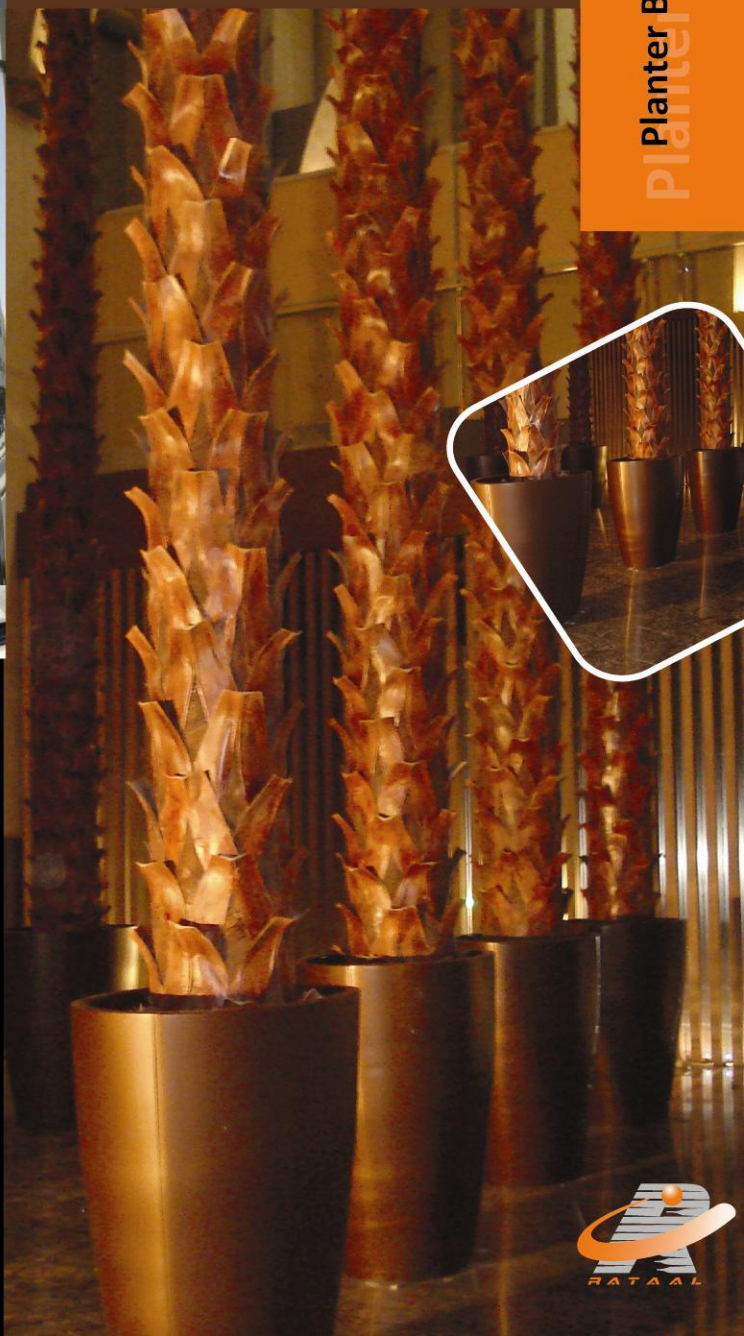
Stainless Steel Works

Specially crafted planter box for four-season hotel at kingdom tower.

Planter Box



Specially designed stainless steel work for LuLu Hyper Market (Riyadh Avenue Mall).



Sky Lights

Sky Lights

Pyramid shape, Dome shape & Stained glass sky lights using internationally recognized system (TECHANL & BALEXCO).

Fixed and electrically operated sky lights.



Spider Systems

Bolted Glass Assemblies

This is a structural glass assembly consisting of a series of specially processed glass panes, bolted together at their corners by means of 'spider fittings' or 'metal patch fittings' along with silicone sealant at the pane-to-pane joints. The minimization of metal framing members creates an effect of transparency that forms a natural and artistic blend between the indoor space and the outdoor environment.

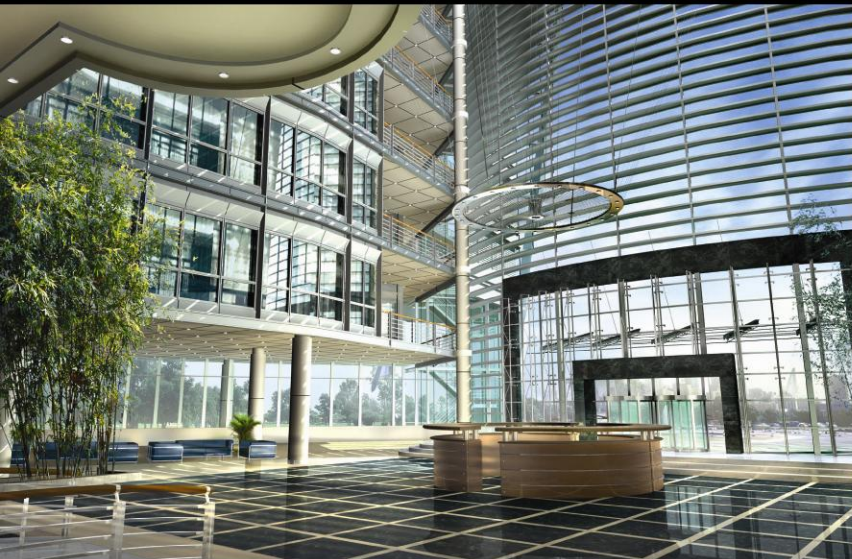


FIN:

The glass facade and glass fin is connected using stainless steel spiders. Consecutive glass fin are connected using bolted splice plates.

TENSION ROD SYSTEM:

The composite structure is setup of tension rods (stainless steel pipe structural members designed to always be in tension). Tension rod structure with-stands the exterior loading on the glass facade.



CABLE SYSTEM:

A system of geometric non-linearity is set-up with the use of pre-stressed tensile cables that with-stand the exterior loading on the facade system. The vertical cable also with-stands the dead load of the system. This system is further subdivided into cable truss systems and cable net systems.

- **Cable Net Systems:** The structure is based on the principle of the tennis racket, using a single -layer plain cable net structure (horizontal & vertical pre-stressed tensile cables), thus producing rigidity to with-stand the exterior load.
- **Cable Truss Systems:** The structure uses a horizontal plain cable truss to with-stand the exterior wind load. The vertical cable plays a stabilizing roll & takes the dead - load of the glass facade.



STEEL STRUCTURE SYSTEM:

All the loading on the glass facade is transferred by means of stainless steel spider fittings to a steel structure erected independently behind the facade.



Sun Shades & Canopies



Pre-fabricated sun shades and louvers.



product references

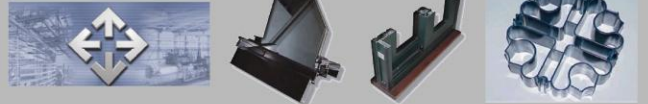
Structure Glazing, Curtain Wall, Sky Lights
Doors & Windows



Structure Glazing, Curtain Wall, Sky Lights
Doors & Windows



Structure Glazing, Doors & Windows



Structure Glazing, Doors & Windows



Aluminium Composite Panels

ALPOLIC



Aluminium Composite Panels

ALUCOBOND®



Aluminium Composite Panels

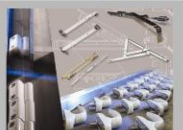


Automatic Doors, Revolving, Sliding &
Patch Fittings for Frameless Doors



Hardware's for Aluminium Doors, Windows
& Open able Panels of Facades.

GIESSE® LAVAAL SAVIO



Automatic Window Rollup Shutter



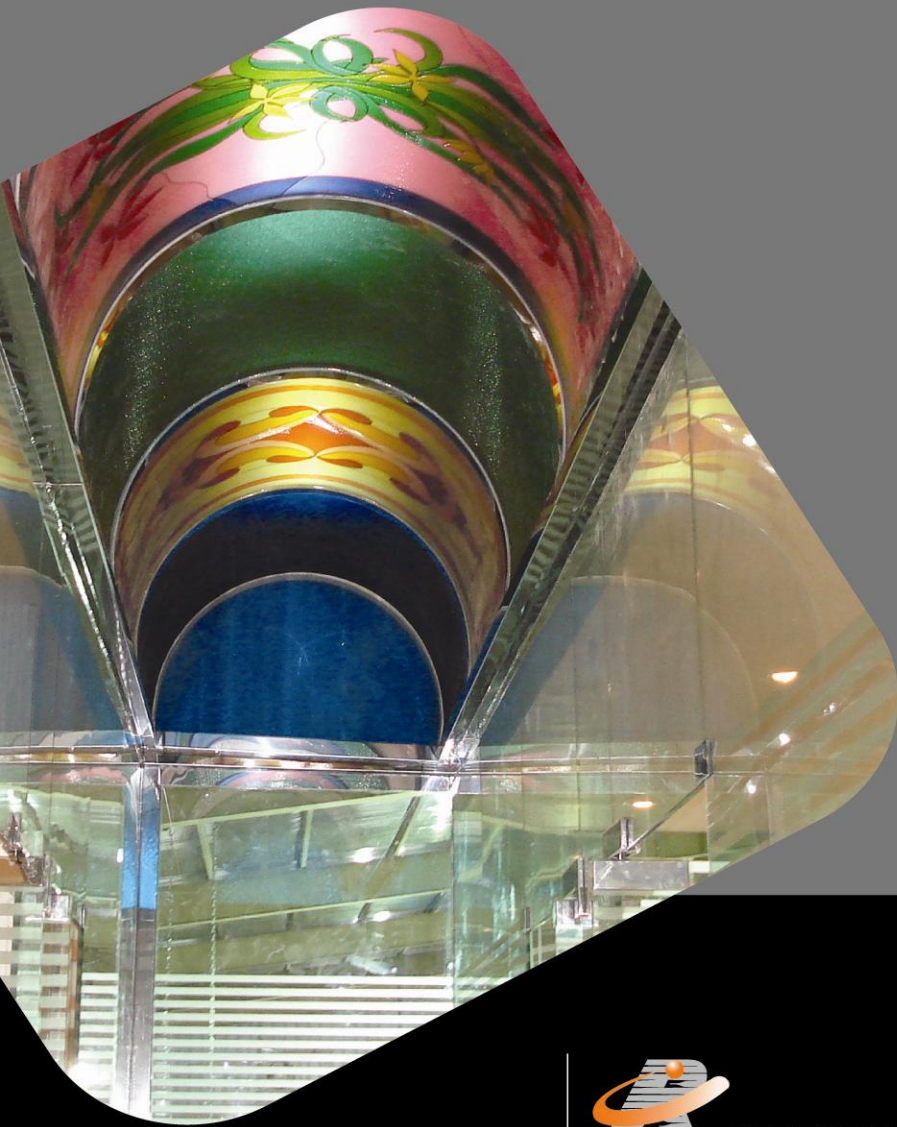
Silicon Sealant (Fire Resistant & Weather
Sealant)

WACKER SILICONES



EPDM Gaskets





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