

QUALI'METAL FABRICATOR GUARANTEE

Quali'metal System Guarantees that all Quali'metal Aluminum works meet the technical specifications and the country standards and the product in question.

The current processing and maintenance regulations mentioned in the Quali'metal works catalogues determine the extent of these 10 years

Quali'metal have chosen the best supplier in the Egyptian market to fulfill the Architectures need and studied all the updating in the field and always searching for the best suppliers and designers for aluminum, glazing and coating with direct contact.

As the policy of **QUALI'METAL** to work as a specialist within this field and to have good share with the market;
Quali'Metal is a joint venture with ;

MACHINES & ALUMINUM CENTER as the largest Architecture Aluminum Company since 1974, with a big succession during years for many construction projects.

EL DAWLIA one of the largest company for coating Aluminum with the latest technical specification and high technology manufacturing in this field.

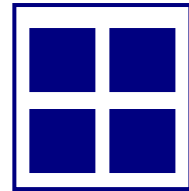
DR. GREICHE one of the biggest companies for manufacturing glass with all the Architectural needs.

Also, with some other international company for accessories in Europe

REYNARES aluminum international company , having many solution to give the Architectural design all facilities and durability and time guarantee

QUALI'METAL systems

For manufacturing, trading and contacting
Aluminum



Materials

All section and profiles are from extruded aluminum alloy 6063 according to American standards (ASTM-H35-0.2 1978) and German standards (Din 1748 part 1) free from defects impairing strength or appearance also to the Egyptian standard (ES 1752 part 1,2,3)

Has ultimate tensile strength of 15.5 kg/mm² & hardness of 60 kg/mm²

Fabrication & Assembly

- All corners mechanically joined using heavy aluminum angles
- Stainless steel screws used for hardware fixation
- A drainage system provided for rain and cleaning water
- Hinged doors and windows provided with three gaskets to prevent air & dust infiltration & improve sound insulation
- Central, Lateral, Glass beading gaskets are made of pure EPDM in -hardness to suit its application
- Fasteners within accessories are made from stainless steel
- All plastics parts are made from nylon reinforced with fiber glass which has high mechanical properties .
- All fasteners within accessories are made from galvanized steel and stainless steel.

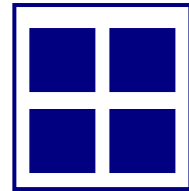
Surface finishing

-All exposed surfaces of aluminum profiles is treated either by anodizing treatment (according to DIN 17611) or by electrostatic powder coating

Accessories & Fittings

Heavy duty , high quality European made accessories and fitting are used on all products

Heavy duty polyamide rollers with needle-bearing for sliding



PERFORMANCE REQUIREMENTS:

All aluminum systems performance requirements comply with (BS 6365 part 1) , (Din 18055 , 4108 and 4109), and (Es 1787/89)

1) AIR INFILTRATION:

Cubic m/hr per meter length of visible perimeter of glass at a Pressure difference of 200 pa(N/m²).

2) WATER PENETRATION

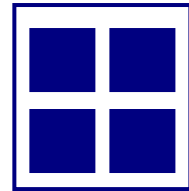
No water leakage at a testing pressure of 550 pa (N/ m²).
Classification: EE(Exceptional)

3) DEFLECTION:

Members retaining an insulating glass unit shall not deflect more than L/175 over length or height of the glass unit when submitted to the design wind pressure and allowable factor of safety.

4) SOUND INSULATION:

Maintain Din 4109 sound proofing requirements.
Special combinations of window, door frames or curtain walls using sound insulating glass can achieve a sound Reduction index Rw of 49 dB.



5) RUBBER GASKETS

Tightness of all operable sashes (hinged), and of glazing is assured by EPDM gaskets.

EPDM (Ethylene Propylene Diene Monomer) is a rubber mixture extremely resistant to servers weather changes. It is not affected by acids, alkaline, Ozone, salts,heat,cold,nor moisture.

* Cured EPDM shall meet the following properties when tested in accordance with ASTM test slabs and compression set plugs:

property	Test procedure	Typical values
Hardness(± 5)	ASTM D-2000	50
Tensile strength (N/sq.mm)	ASTM D-2000	11.2 \rightarrow 12.4
Elongation(%)	ASTM D-412	400
Heat Aging	ASTM D-865	Complies