



# **FIRE RATED METAL DOORS**

- **Fire Rated Steel Doors and Frames**
- **Non-Fire Rated Doors and Frames**
- **Sliding Door**



**Metal Frame**

**1** Manufactured from 1.5 mm to 3.0 mm sheet metal, delivered in two forms: corner welded or knock down type in a large variety of frame profiles.

**Metal Leaf**

**2** Manufactured from 1.2mm to 2.0mm sheet metal, delivered with two core types: steel stiffened with rock wool or honeycomb.

**Lock**

**3** AHM doors are manufactured to accommodate any type of lock according to consultant hardware specifications and project.

**Door Closer**

**4** All doors are manufactured for standard overhead door closer installation. Upon request doors can also be manufactured for concealed door closer installation.

**Hinges**

**5** AHM doors are manufactured to receive all types of hinges according to consultant hardware specifications and project .

**Vision Panel**

**6** AHM doors are fitted with our custom made and tested vision panel; vision panels can be provided in large variety of sizes and glass types.

**Louvers**

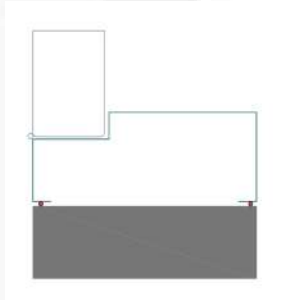
**7** Fire rated and non-fire rated louvers can be fitted into all doors to meet MEP requirement



A large variety of frame profiles are available to suit project and consultant specifications. All frames can be single rebate for a flush or recessed appearance and double rebated to match the overall width of the wall for a "wrap around" appearance.

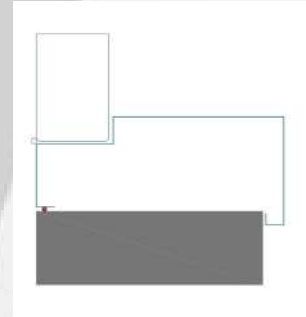
## Profile Types

**Type SFS**



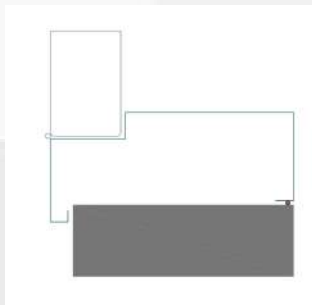
**Standard Frame  
Single Rabbit**

**Type SFSA**



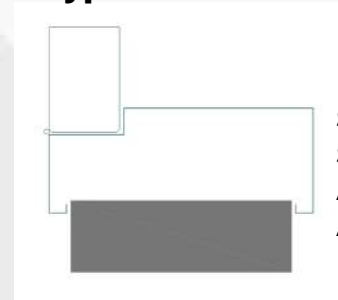
**Standard Frame  
Single Rabbit with  
Arc against Hinge  
Side**

**Type SFSH**



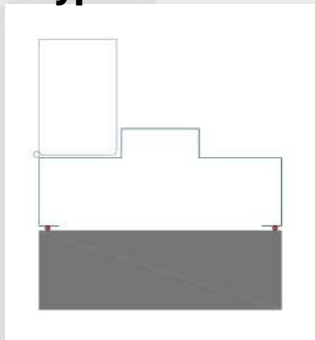
**Standard Frame  
Single Rabbit with  
Arc Hinge Side**

**Type SFSR**



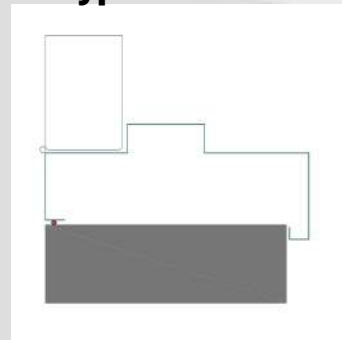
**Standard Frame  
Single Rabbit  
Architrave Rap  
Around**

**Type SFD**



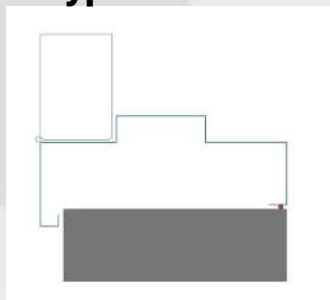
**Standard Frame  
Double Rabbit**

**Type SFDA**



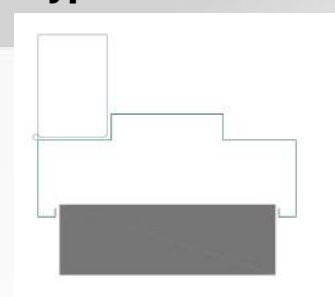
**Standard Frame  
Double Rabbit  
With Arc Against  
Hinge Side**

**Type SFDH**



**Standard Frame  
Double Rabbit with  
Arc Hinge Side**

**Type SFDR**



**Standard Frame  
Double Rabbit  
Architrave Rap  
Around**

# ACCESSORIES

- Accessories used in A.H.M are all top quality with incomparable unique functions.
- Doors are supplied with lock , handles(or panic hardware ) , euro cylinders and 3 keys.
- Handle and Panic bar are cast aluminium (rust proof) which can be used in all climate conditions.



**PANIC BAR EXIT DEVICE**



**DOOR CLOSER**



**HINGE**



**OUTSIDE LEVER TRIM**

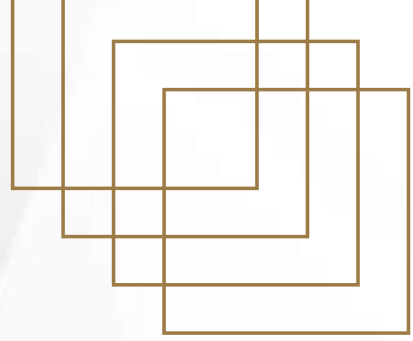


**DOOR BOTTOM STRIP**



**LOCK**





# FIRE FIGHTING METAL DOORS TO 120 MIN

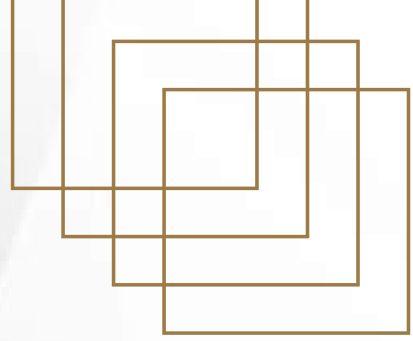


- **Size** **Custom sizes available**
- **Fire Rating** **Up to 60/90/120 min as per standards**
- **Material** **old Rolled Coil (CRC), Galvanized Steel (GI)**
- **Leaf Steel Sheet Thickness** **> 1.25mm**
- **Frame Steel Sheet Thickness** **> 1.50mm**

# SPECIFICATIONS

- **Door Leaf Thickness** 45-47mm
- **Core Construction** Steel Stiffened Rockwool or Honeycomb Core
- **Frame Anchoring** Expansion Type (for masonry walls)  
Z-type (for dry walls)  
Other types available upon request.
- **Frame Jamb Depth** From 100-500mm standard (150mm)
- **Door Construction** Interlocking / Welded
- **Handing** Right Hand (Inward or Outward)  
Left Hand (Inward or Outward)
- **Hardware** Must be fire rated
- **Optional** Fire Rated Automatic Louver (up to 610mm x 610mm)  
Vision Panel (up to 500mm x 1000mm)





# NON FIRE RATED METAL DOORS



- **Size**                      **Custom sizes available**
  
- **Paint**                      **Electrostatic Powder Coating**  
                                  **Liquid Painting (Epoxy, Doko & Oil Paint)**  
                                  **Finish / Touch up paint applied at site**
  
- **Frame Anchoring**      **Expansion Type (for masonry walls)**  
                                  **Z-type (for dry walls)**  
                                  **Other types available upon request.**
  
- **Frame Corner**              **Welded Type**

<ul style="list-style-type: none"> <li>• <b>Leaf Steel Sheet Thickness</b></li> <li>• <b>Frame Steel Sheet Thickness</b></li> <li>• <b>Door Leaf Thickness</b></li> <li>• <b>Core Construction</b></li> <li>• <b>Frame Jamb Depth</b></li> <li>• <b>Door Construction</b></li> <li>• <b>Handing</b></li> <li>• <b>Hardware</b></li> <li>• <b>Optional</b></li> </ul>	<p>1.25 - 3.00 mm</p> <p>1.25 - 3.00 mm</p> <p>&gt; 45mm</p> <p><b>Steel Stiffened Rockwool or Honeycomb Core</b></p> <p><b>From 100-500mm standard (150mm)</b></p> <p><b>Interlocking / Welded</b></p> <p><b>Right Hand (Inward or Outward) Left Hand (Inward or Outward)</b></p> <p><b>According to Project specification</b></p> <p><b>Louver, Sand Trap, Vision Panel, Half Glass and other custom options upon request</b></p>
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**NATIONAL RESEARCH CENTRE**  
TAHRIR St. DOKKI, CAIRO, EGYPT  
Central Unit For Analysis And  
Scientific Services ( CUASS )  
Material Test Lab.

**المركز القومي للبحوث**

القاهرة . جمهورية مصر العربية  
وحدة التحليل و الخدمات العلمية المركزية  
معمل اختبار المواد



## Test Report

**Report No.**

MOI 0543 12 2022

**Client**

A.H.M Co. Roofing , Cladding , Insulation ,  
Skylights & Space frame systems

**Authority & date**

Request Orders 25/12/2022

**Items Tested**

Metal Door 2.20 × 1.6m

**Results**

The detailed test results are given on the following  
pages of this report (8 pages).

**Report Typist**

\* Mis. Naglaa Mohamed-Sara Abdel Reheam

**Test carried**

\* Mis . Fatma El – Zahraa Fikry

**and supervised by**

\* H.Eng. Ahmed Said

\* Chem. Amr El Shafey

\* Dr. Abou El Ftouh Abd El Hakem

**Authorized by**

Prof. Dr. Mostafa Zaki Mostafa

\* The Supervisor of ceramics, Polymer and  
Solid Matter Department.

\* Management Representative and Quality  
Assurance Manager.

**Issue date**

22/1/2023

**Condition of Test  
& Issue**

The test specimen was conditioned at 23 °C  
with a humidity of 60 % and the needed  
calibrations as well as balancing of the all  
used machines were always done .



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المركز القومي للبحوث

الدقى - القاهرة - جمهورية مصر العربية  
وحدة التحليل والخدمات العلمية المركزية  
معمل اختبار المواد



**To / A.H.M Co. Roofing , Cladding , Insulation , Skylights &  
Space frame systems**

**Dear Sir ;**

According to your request dated 25/12/2022 for carrying out the Fire Rate test for 120 min on a Metal Door 2.20 × 1.6m according to NFPA 252 , ASTM E119 , we would like to inform you that the needed test was carried out on the Door sample taking into consideration the following points :-

- 1) The test was carried out using direct Flame method (gas/air) .
- 2) the Flame temperature 700°C , the Length between the tested Sample and flame was 50cm at the center of the Sample.
- 3) Heating was conducted with burners that are fired using liquified gases with uniform heating rate according to standard time – temperature curve .
- 4) The temperatures were measured by means of insulated sheeted Nickel / Nickel – Chrome and Platinum / Platinum – Rh thermocouples giving the temperature with an accuracy of + 2 ° C .The Thermocouples positions on the back surfaces of the tested door were shown in figures (1) (3) .
- 5) The all used Machinery and the apparatus were calibrated periodically by ABD-EGYPT.

The following resulted observation were obtained which represent only the tested 120 minutes rated metal door construction delivered from your company



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Recorded thermocouple temperature value according to  
their position

Wall Side	Time Testing (min)	Measure Temperature				
		(1)	(2)	(3)	(4)	
Front	Zero	23	23	23	23	
	10	23	23	23	23	
	20	24	24	24	24	
	30	24	24	24	24	
	40	25	25	24	25	
	50	26	25	24	25	
	60	26	26	25	26	
	70	29	27	25	27	
	80	3	32	27	27	
	90	33	35	27	28	
	100	39	38	28	28	
	110	41	40	29	29	
120	43	42	29	29		
Back	Time Testing (min)	(5)	(6)	(7) Center	(8)	(9)
	Zero	23	23	23	23	23
	10	23	23	39	23	23
	20	24	23	43	23	24
	30	24	24	49	24	25
	40	24	24	53	24	25
	50	25	25	59	25	25
	60	25	27	63	25	26
	70	26	29	68	26	26
	80	26	30	75	26	26
	90	31	35	79	27	26
	100	36	39	80	27	27
110	40	40	83	28	27	
120		41	85	28	28	



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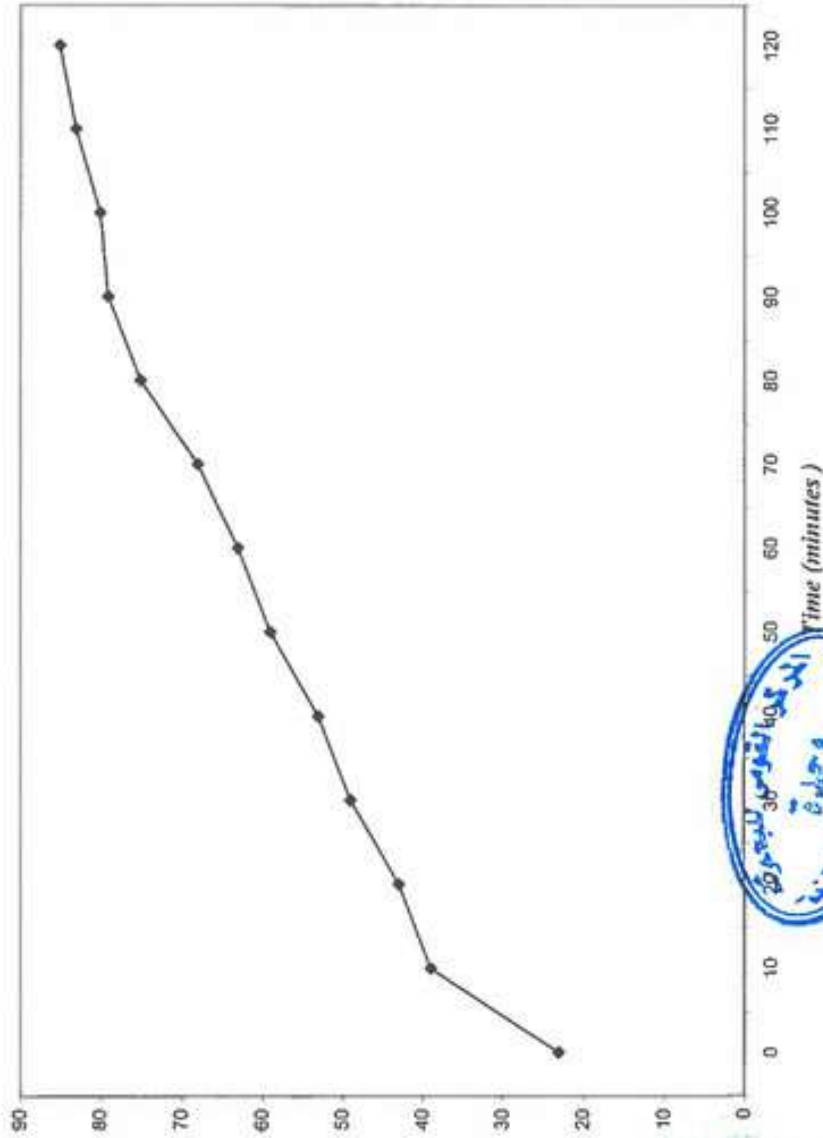
### المركز القومي للبحوث

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Temperature (c)

*Temperature record at the center point of unexposed surface using . heating rate stated by .  
ASTM E119 . NFPA*



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وحدة التحاليل والخدمات العلمية المركزية  
A . A . Abd Elhady



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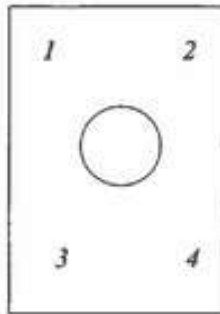
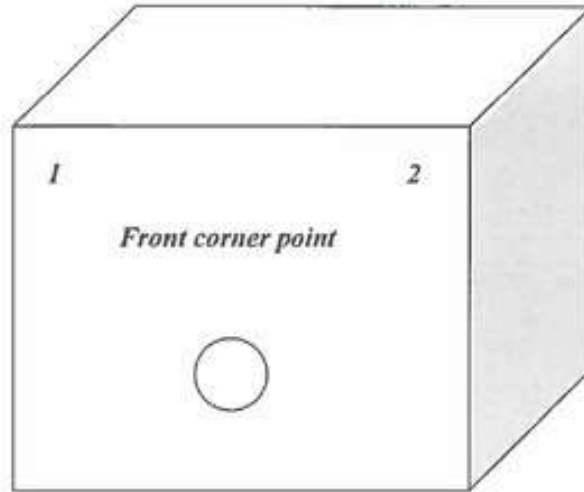
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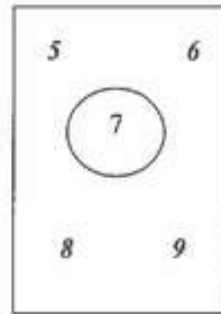


*Thermocouples positions diagram*

*Back corner point (2)*



*Front*



*Back*



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**Results and Observations:-**

- 1) The temperatures before starting the test for the 4 corners of the front surface as well as that of the back one were recorded in table (1)
- 2) After 120 minutes of the test with the spreading of the heat from the burners all over the front surface, the temperatures of the 4 corners of the front surface were found to increase by slow rate to reach 85°C , which prove the good firing rate and heat insulation.



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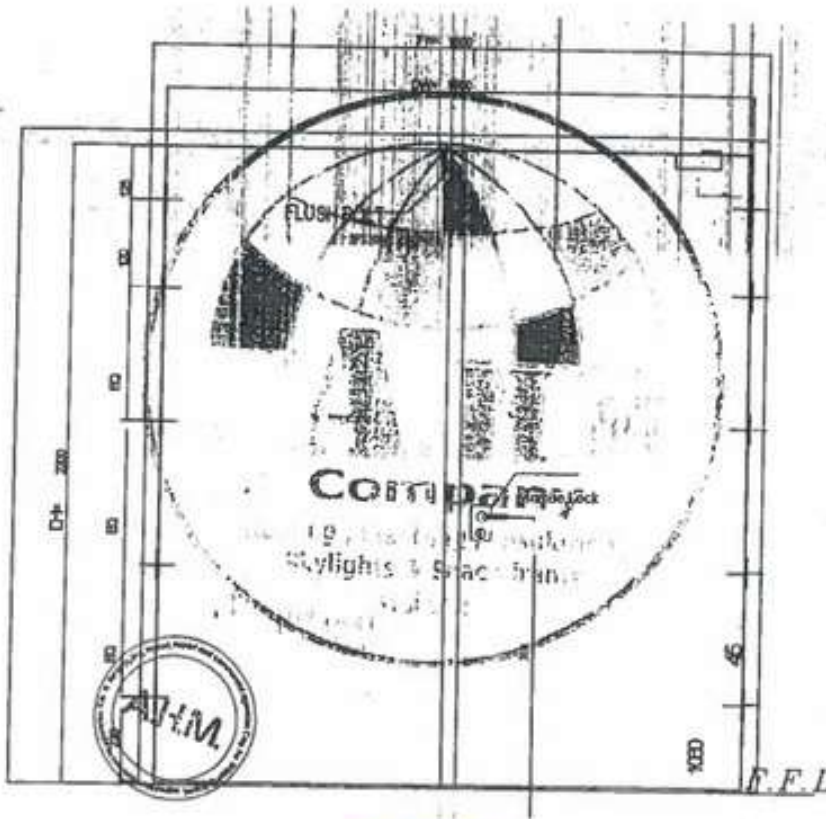
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*Door dimension and drawing*

*Delivered from A.H.M Co. Roofing , Cladding , Insulation ,  
Skylights & Space frame systems*



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### Conclusions

*The delivered sample conforms with the condition of 120 min firing rate test .*

*This report was given to you representing only the Fire Rate test for 120 min on a Metal Door 2.20 × 1.6m , These results and conclusions were given to you without any responsibility on THE CERAMICS, POLYMERS AND SOLID MATTER DEP. of THE MATERIAL TEST LAB in THE NATIONAL RESEARCH CENTRE , for pick up to be tested samples .*

**Head of Director of the Board of Central Department  
For Scientific Analysis and Tests**

&

**SUPERVISOR  
OF CERAMICS, POLYMER AND  
SOLID MATTER DEPARTMENT**

A.A.   
PROF.DR. MOSTAFA ZAKI MOSTAFA



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٣٧٦٠٧٥٤١ - ٣٣٣٥٥١٩٢



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# CERTIFICATE

Certificate of Registration

TEAM QUALITY MANAGEMENT SYSTEMS

This is to Certify that the Quality Management System of  
**A.H.M Roofing, Cladding, Insulation and Space Frame System**  
 Site#1: 1st floor, 155 El maryoteia st, El Andalus building, El haram, Giza - Egypt  
 Site#2: CPC-Egypt, Block (148) Developers Land-Northern Extension  
 Area-6th of October city, Giza - Egypt  
 Has been found to be of the Quality Management System Standard

## ISO 9001:2015

(Quality Management System)

This certificate is valid for the following product or service range

Materials for Roofing, Cladding, Insulation, Skylight, Standing seam system & Spaceframe system Steel structure Fabrication Engineering and Contracting -Metal doors (fire rated) UPVC sheets - PVC sandwich panel - polycarbonate sheets and system, Aluminum windows, doors and facades.

Certificate No. : TQQ23011201

Date of initial registration	12-01-2023
Date of this certificate/Issue No.	12-01-2023
Certificate Expiry	11-01-2024
Recertification Due	11-01-2026



\*After successful completion of Annual Surveillance Audit, New certificate will be issued.

This Certificate is valid per Rules and Regulations of TQ & also the surveillance audits conducted atleast once a year  
 To check the certification validity please visit our website- [www.tq.com.eg](http://www.tq.com.eg) or contact at- [info@tq.com.eg](mailto:info@tq.com.eg)



*Kassem Shorby*  
Director

**TEAM QUALITY MANAGEMENT SYSTEMS**

Abass Alaquad St Al Yousra Building- Office No 9- Sadat City, Egypt  
 Ph: +20 48 2677 103 Mobile: +20 100 3888626 -+20 1000547672 - +20 1099337474  
 website: [www.tq.com.eg](http://www.tq.com.eg) E-mail: [info@tq.com.eg](mailto:info@tq.com.eg)  
 Accreditation by EGAC Kornish El-Maadi, Riad El-Maadi Tower 1 - Cairo - Egypt



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 Site#1: 1st floor, 155 El maryoteia st, El Andalus building, El haram, Giza - Egypt  
 Site#2: CPC-Egypt, Block (148) Developers Land-Northern Extension  
 Area-6th of October city, Giza - Egypt

Has been found to be of the Quality Management System Standard

## ISO 45001:2018

(Occupational Health and Safety Management Systems)

This certificate is valid for the following product or service range

Materials for Roofing, Cladding, Insulation, Skylight, Standing seam system & Spaceframe system Steel structure Fabrication Engineering and Contracting -Metal doors (fire rated) UPVC sheets - PVC sandwich panel - polycarbonate sheets and system, Aluminum windows, doors and facades.

Certificate No. : TQO23011201

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This Certificate is valid per Rules and Regulations of TQ & also the surveillance audits conducted atleast once a year  
 To check the certification validity please visit our website- [www.tq.com.eg](http://www.tq.com.eg) or contact at- [info@tq.com.eg](mailto:info@tq.com.eg)



*Tamer Akhry*  
 Director

**TEAM QUALITY MANAGEMENT SYSTEMS**

Abass Alaqaad St Al Yousra Building, Office No 9, Sadat City, Egypt

Ph: +20 48 2677 103 Mobile: +20 100 3888626 --+20 1000547672 - +20 1099337474

website: [www.tq.com.eg](http://www.tq.com.eg) E-mail: [info@tq.com.eg](mailto:info@tq.com.eg)

Accreditation by EGAC Kornish El-Maadi, Riad El-Maadi Tower 1 - Cairo - Egypt



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Area-6th of October city, Giza - Egypt

Has been found to be of the Quality Management System Standard

## ISO 14001:2015

(Environmental Management System)

This certificate is valid for the following product or service range

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Certificate No. : TQE23011201

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Date of this certificate/Issue No.	12-01-2023
Certificate Expiry	11-01-2024
Recertification Due	11-01-2026



\*After successful completion of Annual Surveillance Audit, New certificate will be issued.

This Certificate is valid per Rules and Regulations of TQ & also the surveillance audits conducted atleast once a year  
To check the certification validity please visit our website- [www.tq.com.eg](http://www.tq.com.eg) or contact [info@tq.com.eg](mailto:info@tq.com.eg)



*Tamer Akhry*  
Director

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Accreditation by EGAC Kornish El-Maadi, Riad El-Maadi Tower 1 - Cairo - Egypt


A photograph of two people in business suits shaking hands, symbolizing a partnership or agreement. The image is partially obscured by a dark grey overlay containing text and icons.

# **WE DEVELOP TO MEET YOUR NEEDS**

## **Contact us**

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