



pre -
Qualification



2026

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About Us

MODERN METAL WORKS

is a distinguished manufacturer and installer of premium-quality glass windows, doors, and facades. Equipped with advanced facilities and a highly skilled team, we specialize in delivering tailored glass solutions for residential, commercial, and industrial developments.

Our unwavering commitment to excellence, innovation, and client satisfaction has earned us a strong reputation as a reliable partner within the construction industry.

At MODERN METAL WORKS, we take pride in producing precision-engineered glass products that seamlessly combine aesthetics, durability, and functionality—transforming our clients' vision into reality.

Vision & Missions

Vision

To be recognized as a leading provider of innovative, high-quality aluminum and glazing solutions, setting new benchmarks in design excellence, durability, and customer satisfaction. We aspire to serve as a trusted partner across residential, commercial, and industrial projects by consistently delivering products and services that combine aesthetic appeal with long-lasting performance. Through continuous innovation, advanced technology, and a customer-centric approach, we aim to contribute to the advancement of modern architecture while maintaining the highest standards of quality, safety, and sustainability.

Mission

- Deliver superior aluminum and glazing products and installations that meet the highest industry standards.
- Ensure precision, safety, and efficiency in every project through skilled craftsmanship and advanced technology.
- Foster strong relationships with clients, architects, and contractors through transparency, reliability, and professionalism.
- Continuously improve processes, materials, and workforce capabilities to exceed client expectations.

3-Profile



Products & Services

Tailored Building Solutions

MODERN provides bespoke building solutions tailored to meet the unique requirements of each project. By working in close collaboration with our partners, we ensure that every façade embodies the perfect balance of functionality, aesthetics, and performance.

High-Performance Façades

We specialize in the design and manufacture of premium glass and aluminum façades that are not only visually striking but also energy-efficient and highly durable. Our products are engineered to withstand the most demanding environmental conditions while maintaining structural integrity and long-lasting visual appeal.

Expert Consultation & Rigorous Testing

At MODERN, we collaborate with architects and engineers to deliver customized solutions that align with specific project and site requirements. Every solution undergoes rigorous testing and quality control to ensure compliance with international standards of performance, safety, and durability.



Products & Services

Aluminium Systems

Bullet Proof Systems

Steel & SS. Systems

Products & Services

Aluminum Systems

Our Aluminum Systems division specializes in the design, fabrication, and installation of high-quality architectural solutions, including **Curtain Walls, Doors, Windows, Skylights, Cladding, and Louvers**.

These systems are engineered to provide **durability, thermal efficiency, aesthetic appeal, and structural performance**, ensuring modern and elegant building façades that meet international standards.

Products & Services

Aluminum Systems

Curtain Wall

Structure Glazing
Frameless Glazing
Partitions
Spider System
Balustrade
Handrails

Doors

Hinged
Sliding
Folding
Smart Hadrwares
Fire rated systems

Windows

fixed
hinged
sliding
top & bottom hung

Skylights

canopies
domes

Clading

ACP
mashrabiah
fire rated systems

Louvers

z-shape
pergola
louver doors
rolling-up shutters
flyscreen

Products & Services

Engineering Services

Engineering services include the preparation of **shop drawings** that translate design intent into detailed, fabrication- and construction-ready documents; **structural calculations** to ensure safety, stability, and code compliance; **material take-offs** for accurate quantity estimation and cost control; **fabrication orders** with precise instructions for manufacturing and assembly; and **as-built drawings** that record actual site conditions and final construction for future reference and facility management.

Products & Services

Steel & SS. Systems

Our Steel and Stainless-Steel Systems cover the **design, fabrication, and installation** of a wide range of architectural and structural elements, including **Handrails, Cat Ladders, Grill Mesh, Louvers, Pergolas, and Fences**.

All systems are manufactured with **precision, high-quality materials, and corrosion-resistant finishes**, ensuring **strength, safety, and long-lasting performance** for both interior and exterior applications.



Products & Services

Steel & SS. Systems

Handrail	Cat Ladders	Grill mesh	Louvers	pergolas	fence
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Products & Services

Bullet Proof Systems

Our Bullet Proof Systems include a wide range of **high-security products** designed to provide **ballistic protection**, such as **bulletproof glass, doors, and windows**.

These systems are developed and manufactured in collaboration with **leading security solution providers**, ensuring **exceptional protection, reliability, and compliance with international ballistic standards**.



Products & Services

Bullet Proof Systems

BR5	BR5 NS	BR6	BR6 NS	BR7	BR7 NS
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Quality Management System

Our Quality Management System ensures every aluminum, glazing, and cladding project meets the highest standards of precision, durability, and safety. We follow strict procedures for material selection, fabrication, and installation, supported by skilled professionals and continuous inspection at every stage. By adhering to international standards and fostering a culture of excellence, we deliver reliable, defect-free, and visually superior results that consistently exceed client expectations.

High Standards – Deliver projects with precision, durability, and safety.

Quality Materials – Source and use only approved, reliable materials.

Skilled Workforce – Employ trained professionals for all stages of work.

Inspection & Control – Conduct checks at fabrication, delivery, and installation.

Compliance – Adhere to international and industry-specific standards.

Continuous Improvement – Regularly review processes to enhance quality.

Management Responsibility

Manage & ensure the success and sustainability of the company through effective leadership, strategic planning, and adherence to the highest standards of quality, safety, and customer satisfaction.

Key responsibilities:

- **Strategic Direction** – Define the company's vision, mission, and objectives, ensuring alignment with market demands and client expectations.
- **Quality Assurance** – Implement and maintain a robust Quality Management System to ensure precision, durability, and compliance with industry standards in all aluminum and glass works.
- **Resource Management** – Allocate and manage resources effectively, including skilled personnel, materials, and technology, to deliver projects on time and within budget.
- **Health, Safety & Environment (HSE)** – Promote a safe work environment by enforcing HSE policies, risk assessments, and preventive measures.
- **Customer Focus** – Build and maintain strong relationships with clients by ensuring clear communication, transparency, and continuous improvement in service delivery.
- **Compliance & Ethics** – Ensure all operations adhere to legal, regulatory, and ethical requirements.
- **Continuous Improvement** – Regularly review performance, identify opportunities for innovation, and invest in staff training and development.

Management Responsibility

Planning

Quality goals are strategically established, progress is continuously monitored, and corrective actions are implemented to enhance the factory's overall performance and production efficiency.

Quality Objectives

To ensure product compliance and customer satisfaction, management emphasizes the importance of setting measurable objectives aligned with the company's quality policy. Progress toward these objectives is reviewed during system evaluations, with necessary actions taken to achieve improvements. New objectives are established as part of the ongoing commitment to continuous enhancement.

Quality Planning

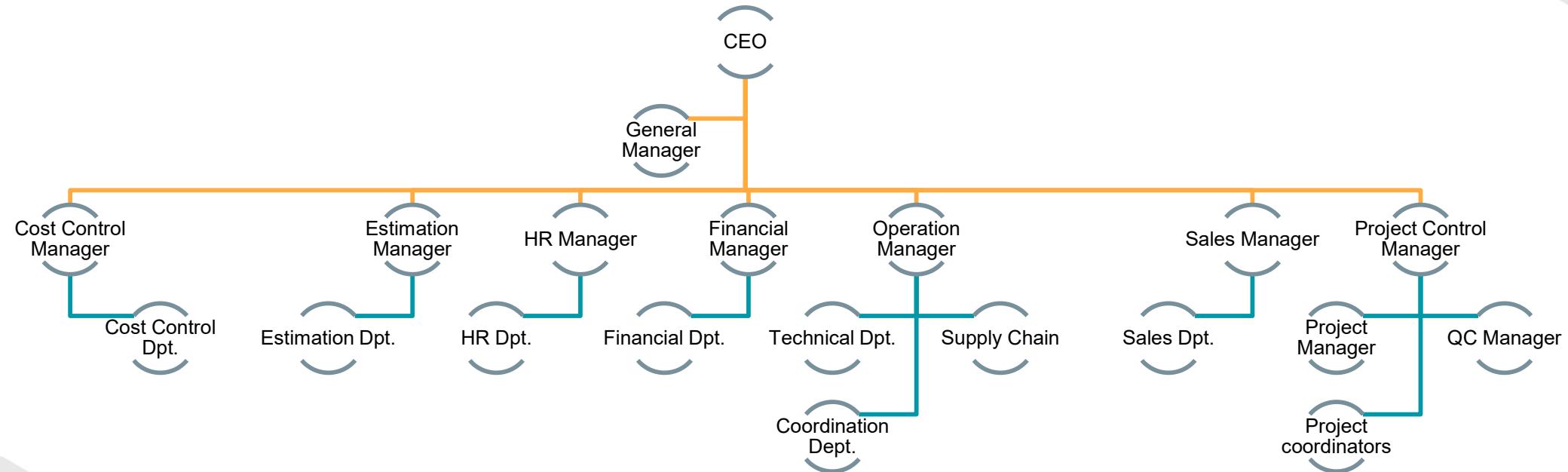
Management identifies and defines the processes and procedures essential for the effective operation of the quality management system. Adequate resources—including technology, machinery, materials, and personnel—are allocated and periodically evaluated to identify potential gaps and implement improvements. Any modifications to the quality system or its processes are carefully controlled and communicated to all relevant personnel within the factory.

Management Responsibility

Health, Safety & Environmental (HSE) Policy

- Ensure a safe, healthy, and well-organized workplace.
- Provide necessary training, instructions, and information to employees.
- Manage materials, equipment, and processes to minimize risks.
- Conduct regular risk assessments and implement preventive measures.
- Comply with all applicable HSE laws and regulations.
- Promote awareness of environmental, health, and safety practices among staff, contractors, and stakeholders.
- Continuously monitor and improve the HSE Management System.

Organization Chart



Our Projects

Project Name: Arena

Client: King Saud University

Main Contractor: SBG

Location: Riyad

Total Area: 13,000 m²

Contract Value: 27,000,000 SAR

Implementation Period: 6 months



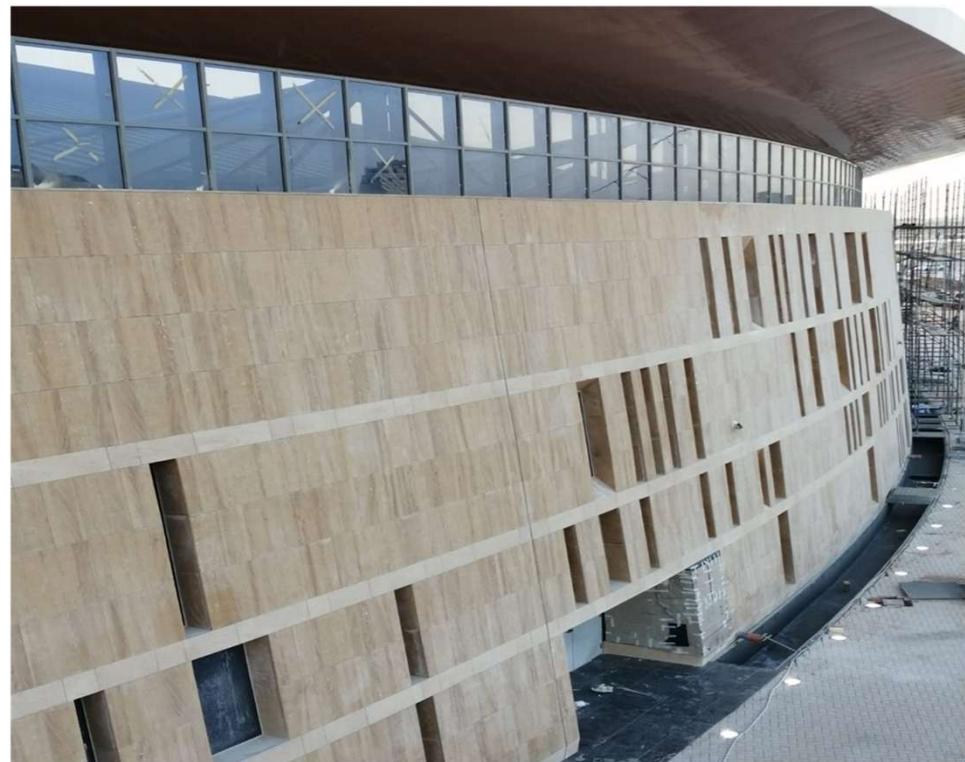
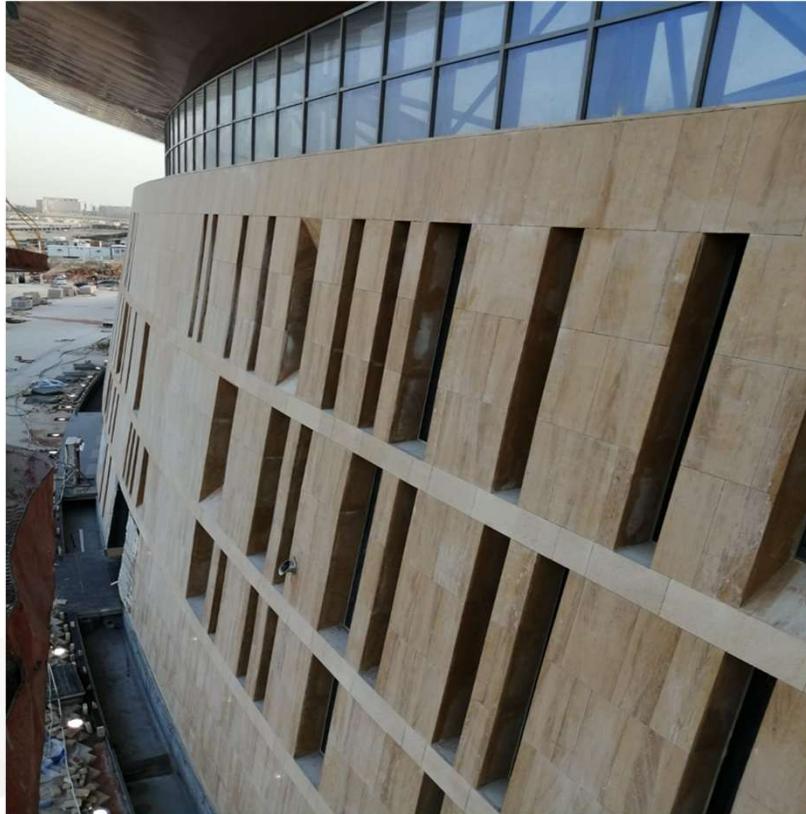
Our Projects

Arena Project



Our Projects

Arena Project



Our Projects

Arena Project



Our Projects

Project Name: Jeddah Promenade

Client: SELA

Main Contractor: MBL

Location: JEDDAH

Total Area: 3300 m²

Contract Value: 24,000,000 SAR

Implementation Period: 2 months (Rush Project)



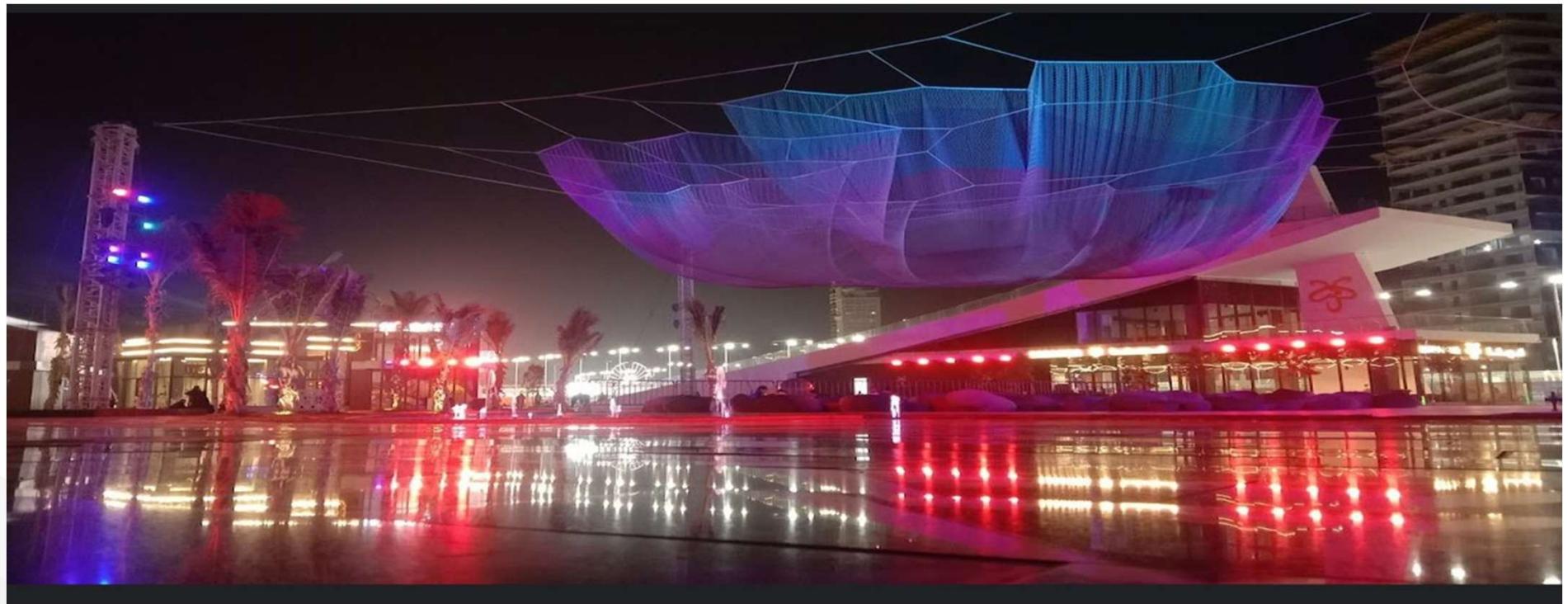
Our Projects

Jeddah Promenade



Our Projects

Jeddah Promenade



Our Projects

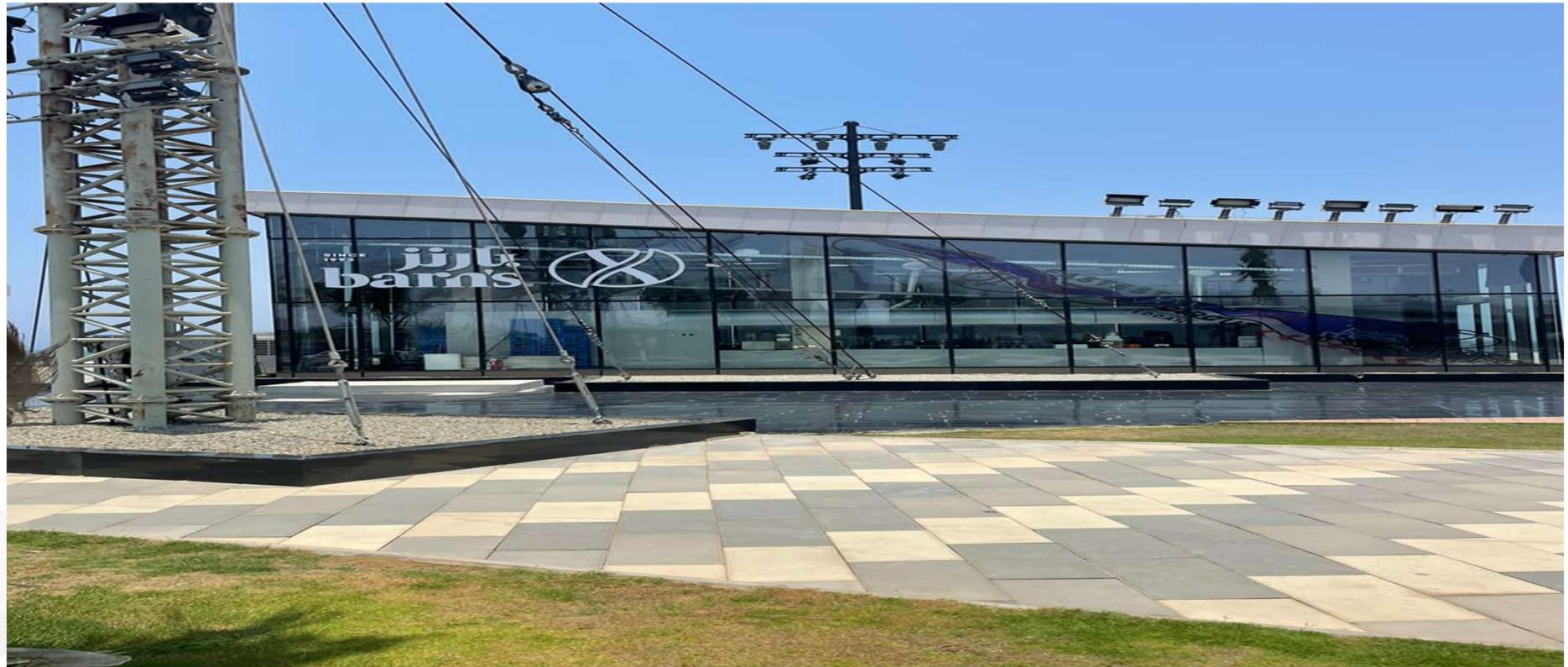
Jeddah Promenade



Our Projects



Jeddah Promenade



Our Projects

Jeddah Promenade



Our Projects

Jeddah Promenade



Our Projects

Jeddah Promenade



Our Projects

Project Name: NEOM Hospital

Client: NEOM

Main Contractor: Al-Bawani

Location: NEOM

Total Area: 4000 m² (including 300 m² bulletproof glass)

Contract Value: 35,000,000 SAR

Implementation Period: 3 months (Rush Project)



Our Projects

NEOM Hospital



Our Projects

NEOM Hospital



Our Projects

Project Name: Prime Business Resort

Client: AluSystem

Service Type: Engineering: (Shop drawings – MTO –
Fabrication orders – as Built drawings)

Main Contractor: Mas Eng. & Const. company

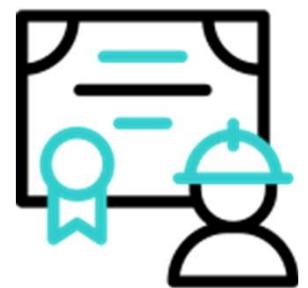
Location: Riyadh

Total Area: 14,000 m2

Contract Value: 750,000 SAR

Implementation Period: 2 months

Certifications & Licenses





H.P. White Laboratory, Inc.

3114 Scarborough Road | Street, MD 21154 | +1.410.838.6550 | www.hpwhite.com

STANAG 4569 Testing – Test Report

Glass Shield FZ LLC

P.O Box 35410

Ras Al Khaimah

UAE

Attention: Mohammed Abu Taha

Date of report: 2 March 2015

Report prepared by: Ashley Mason, Manager of Technical Operations - Hard Armor

Test method and supporting documentation: STANAG 4569, Level III – Modified

Job number: 000003907E

Test item receipt date, shipping method, identification information, and inspection results: The sample(s) were received on 26 February 2015 via DHL. Test items were identified as laminated transparencies. The sample(s) were inspected prior to testing and no anomalies were discovered.

Date of testing, test range, and testing performed: Testing commenced at the H.P. White Laboratory, Inc. facilities at 3114 Scarborough Road, Street MD on 2 March 2015.

Date testing completed, sample disposal, return shipping method: Testing concluded on 2 March 2015; sample(s) will be discarded.

Test data transmittal method and storage location: This test report and test data were transmitted via email in a manner compliant with ISO 17025 requirements. Permanent electronic and hardcopy files are maintained in accordance with HPWL data storage policy on data storage systems, filed by job number.

Revision number and date: NA

Testing was performed on samples provided by the client. H.P. White Laboratory, Inc. holds no responsibility for sample selection methods. This report is based on data obtained from testing only the samples submitted, and should NOT be interpreted as an endorsement by H.P. White Laboratory, Inc. of the continuing quality or performance of any other items of the same, or similar, design. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. This testing was performed by H.P. White laboratory, Inc. to client specification, and the test results are the property of the client, who holds all rights of reproduction or publication of this report and related test data.

Glass Shield FZ LLC,
HPWI 000003907E
2 March 2015
Attention: Mohammad Abu Taha

Test Procedures

Ballistic Resistance Testing: All testing was conducted on an indoor range at ambient conditions in accordance with your instructions and the modified provisions of STANAG 4569. Testing was conducted at threat level III, using caliber 7.62x54R, 155 grain, B32 ammunition. The test sample was positioned 25.0 feet from the muzzle of the barrel to produce zero degree obliquity impacts. Photoelectric infrared screens were located at 10.0 feet and 20.0 feet which, in conjunction with electronic chronographs, were used to compute bullet velocities at 15.0 feet forward of the muzzle. Penetrations was determined by visual examination of the 0.020 inch thick 2024-T3 aluminum alloy witness plate, placed parallel to and at a distance of 6.0 inches behind the test sample. Table I provides a summary of information on the attached data record(s).

Report prepared by:

Ashley Gowland

Ashley Gowland
Customer Operations Coordinator

Report reviewed by:

Wesley Mason

Wesley Mason
Manager of Technical Operations - Hard Armor

Table I: Ballistic Resistance Summary of Results

Sample Number	Test Sample			Ballistic Threat			Results		
	Thickness (in.) (a)	Weight (lbs.)	Caliber	Obliquity	Shots (b)	Velocity (fps)	Max	Min	Penetrations
HPW-8	3.625	175.86	7.62, B32	0°	3	2777	2740	0	

(a) Based on an average of four corner thicknesses

(b) 3 shots on a 120mm triangle



H.P. White Laboratory, Inc.
BALLISTIC RESISTANCE TEST

Client : 3093: GLASS SHIELD FZ LLC.
Job No. : 000003907 Test Date : 3/2/15

TEST PANEL

Manufacturer: GLASS SHIELD FZ LLC.

Size : 19.5 x 19.5 in.

Thicknesses : 3.625, 3.625, 3.625, 3.625 in.

Avg. Thick. : 3.625 in.

Description : 100mm LAMINATED TRANSPARENCY

Sample No. : HPW-8 (Stanag)

Weight : 175.86 lbs.

Hardness : NA

Plies/Laminates : NA

Date Rec'd : 2/26/15

Via : DHL

Returned : N/A

SET-UP

Shot Spacing : 3 ON A 120mm TRIANGLE

Witness Panel : 0.020" 2024-T3 ALUMINUM

Obliquity : 0 deg.

Backing Material : NA

Conditioning : AMBIENT

Primary Vel. Screens : 10.0 ft., 20.0 ft.

Primary Vel. Location : 15.0 ft. From Muzzle

Residual Vel. Screens : NA

Residual Vel. Location : NA

Range to Target : 25.0 ft.

Target to Wit. : 6.0 in.

Recorder : TRAUTMAN

Lot No. : UNKNOWN

Lot No. :

Lot No. :

Lot No. :

Date Rec'd : 3/2/15

Via : DHL

Returned : N/A

Range No. : 3

Temp. : 65 F

BP : 30.12 in. Hg

RH : 30%

Barrel No./Gun : R37.62 X 54R

Gunner : CHES

Recorder : TRAUTMAN

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Range No. : 3



Beschussamt Ulm

Eich- und Beschusswesen Baden-Württemberg

Staatliche Prüf- und Zertifizierungsstelle für Waffen- und Sicherheitstechnik
Legal verification and certification office for weapons and security engineering

Zertifikat - Certificate

S 21 0068 01 / Z

Durchschusshemmende Verbundsicherheitsverglasung

Bullet resistant laminated glazing

Antragsteller

Applicant

GLASS SOLUTIONS LLC
UAE - RAS AL KHAIMAH

Hersteller

Manufacturer

GLASS SOLUTIONS LLC
UAE - RAS AL KHAIMAH

Ort und Datum der Prüfung

Location and test date (d.m.y.)

89081 Ulm, 12.10.2021

Prüfvorgabe

Test requirement

DIN EN 1063 : 2000-01

Gegenstand der Zertifizierung

Item under certification

VSG-Verglasung (+21°C)
Laminated glazing (+21°C)

500 x 500 x 41,60 mm [Istmaße / Actual sizes]
(22,10 kg)

EN 1063 BR6 NS

Typenbezeichnung

Product reference

Zugeordnete Widerstandsklasse

Resistance class achieved

DIN EN 1063 BR6 NS

Details siehe Prüfbericht-Nr.

Details see test report number

S 21 0068 01 / B



Mitglied der VPAM

Beschussamt Ulm
Albstraße 74
89081 Ulm
Tel.: 0731-9 68 51-0
Fax: 0731-9 68 51-99
beschussamt@rpt.bwl.de
www.beschussamt.eu

Ulm, den 12.10.2021

Akkreditierte Prüf- und
Zertifizierungsstelle



Deutsche
Akkreditierungsstelle
D-CE-17067-01-00

Dokument: S 10-010 Genehmigung: L Stand: 30.04.2020



HAEUSSLER

Leiter der Zertifizierung

Head of certification



Beschussamt Ulm

Eich- und Beschusswesen Baden-Württemberg

Staatliche Prüf- und Zertifizierungsstelle für Waffen- und Sicherheitstechnik
Legal verification and certification office for weapons and security engineering

Prüfbericht – Test report

S 21 0068 01 / B

Durchschusshemmende Verbundsicherheitsverglasung

Bullet resistant laminated glazing

Antragsteller:

Applicant:

GLASS SOLUTIONS LLC
Ras Al Khaimah Port
P.O. BOX 35410
UAE - RAS AL KHAIMAH

Hersteller:

Manufacturer:

GLASS SOLUTIONS LLC
Ras Al Khaimah Port
P.O. BOX 35410
UAE - RAS AL KHAIMAH

Ort und Datum der Prüfung:

Location and test date (d.m.y.):

89081 Ulm, 12.10.2021

Prüfvorgabe:

Test requirement:

DIN EN 1063 : 2000-01

Geforderte Widerstandsklasse BR6 NS

Required resistance class BR6 NS

Gegenstand der Prüfung:

Item under test:

VSG-Verglasung

Laminated glazing

500 x 500 x 41,60 mm [Istmaße / Actual sizes]
(22,10 kg)

EN 1063 BR6 NS

Product reference:



Mitglied der VPAM

Beschussamt Ulm

Albstraße 74

89081 Ulm

TeL.: 0731-9 68 51-0

Fax: 0731-9 68 51-99

beschussamt@rpt.bwl.de

www.beschussamt.eu

Ulm, den 12.10.2021

S. Junginger
Leiter der Prüfung
Head of examination
Seite 6 von 6 Seiten
Page 1 of 6 pages



 DAkkS
Deutsche Akkreditierungsstelle
D-PL-17047-02-00

Dokument: Si 10-010 Genehmigung: L Stand: 30.04.2020

Allgemeine Angaben

General details

Art der Probennahme: Vom Antragsteller ausgewählt und angeliefert am 05.10.2021

Taking of samples:

Prüfer:

Tester:

M. Günther

S. Junginger

Teilnehmer:

Participants:

Prüfvorgaben

Specifications of the standard

Entsprechend der Widerstandsklasse BR6 NS nach DIN EN 1063

According to the resistance class BR6 NS of DIN EN 1063

Waffe:

Weapon:

Prüflauf

Test barrel

Kaliber

7,62 x 51 mm

Dralllänge

Twist length

Geschoß

Bullet

305 mm

Munition:

Ammunition:

Vollmantel, Spitz, Weichkern; Typ: DM41

Full jacket, pointed, soft core; Type: DM41

Geschoßgewicht

Bullet weight

9,50 ± 0,10 Gramm / gram

Losnummer

Lot number

BaU 7.62 DM41MEN 1/3/3 L1

Geforderte Geschoßgeschwindigkeit:

Required bullet velocity:

830 ± 10 m/s

Schussentfernung:

Test distance:

10 ± 0,50 m



Versuchsaufbau:

Test setup:

Prüfmuster 90° (0° Nato) zur Schussrichtung befestigt

Trefferbild:

Hit location:

Test sample fixed 90° (0° Nato) to the shooting direction

Dreieck, Seitenlänge 120 mm ± 10 mm (je Probe)

Triangle 120 mm ± 10 mm (each sample)

Details zum Gegenstand der Prüfung

Details to the item under test

Art: VSG-Verglasung

Sample description:
Laminated glazing

Abmessungen:
Size / thickness:
500 x 500 x 41,60 mm [Istmaße / Actual sizes]

Anzahl:
Number of samples:
3

Aufbau:
(Beginnend mit Angriffsseite)
Composition:
(Starting from the attack face)

Gl = Glas / Glass
PVB = PVB-Folie / PVB-film
PU = Polyurethan-Folie / Polyurethane foil
LX = Lexan-Folie / Lexan-film

Sonstige Angaben:

Further information:

Prüfmusterreinlagerung: 12 Stunden bei +21° C
Umgebungstemperatur während der Prüfung: +21° C
Test sample stored prior to test: 12 hours at +21° C
Ambient temperature during the test: +21° C

Typenbezeichnung:
Product reference:

EN 1063 BR6 NS

Darstellung der Prüfergebnisse

Presentation of the test results

Probe Nr. Sample number	Schuss- folge Shot number	$V_{2,5}^{1)} [m/s]$	$E_{2,5}^{2)} [Joule]$	Auswertung ³⁾ Evaluation	Trefferabstände Hit distances
09215683	1.	838	3336	KD, NS	1 - 2 = 120 mm
	2.	832	3288	KD, NS	1 - 3 = 120 mm
	3.	838	3336	KD, NS	2 - 3 = 120 mm
09215722	1.	835	3312	KD, NS	1 - 2 = 121 mm
	2.	836	3320	KD, NS	1 - 3 = 120 mm
	3.	838	3336	KD, NS	2 - 3 = 118 mm
09215643	1.	833	3296	KD, NS	1 - 2 = 120 mm
	2.	837	3328	KD, NS	1 - 3 = 120 mm
	3.	838	3336	KD, NS	2 - 3 = 119 mm

1) $V_{2,5}$ = Geschossgeschwindigkeit 2,5 m vor dem Prüfmuster
Bullet velocity 2,5 m in front of the sample

2) $E_{2,5}$ = Geschossenergie 2,5 m vor dem Prüfmuster
Bullet energy 2,5 m in front of the sample

3) KD = Kein Durchschuss / No penetration
D = Durchschuss / Penetration
S = Splitterabgang auf der Rückseite des Prüfmusters /
Splinters on the rear side of the sample

NS = Kein Splitterabgang auf der Rückseite des Prüfmusters /
No splinters on the rear side of the sample

Ergebnis der Prüfung (Zusammenfassung)

Result of the test (summary)

Die Verglasung erfüllt die Prüfanforderungen der Widerstandsklasse **BR6 NS**

The glazing meets the requirements of the resistance class **BR6 NS**

Zertifikat erstellt: Ja / Yes S 21 0068 01 / Z
Certificate issued: Nein / No

Der Prüfbericht ist Grundlage für das erstellte Zertifikat.

The test report is the basis for the issued certificate.

Prüfbericht-Nr.: S 21 0068 01 / B
Test report number:

Beschussamt Ulm e.V.

Fotodokumentation

Photo documentation

Prüfmuster 1 / Test sample 1: 09215683



Foto / Photo: Beschussamt Ulm
Nr. / No.: S 21 0068 01; B01

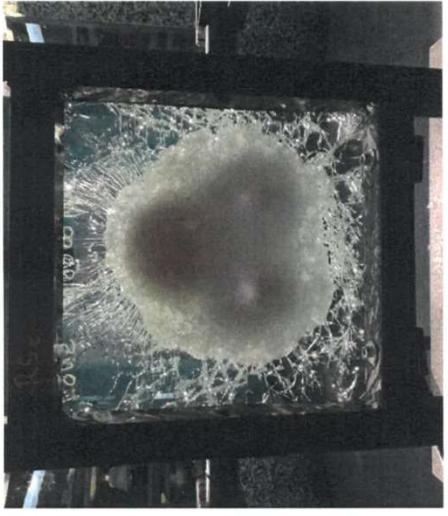


Foto / Photo: Beschussamt Ulm
Nr. / No.: S 21 0068 01; B02

Prüfmuster 2 / Test sample 2: 09215722



Foto / Photo: Beschussamt Ulm
Nr. / No.: S 21 0068 01; B03

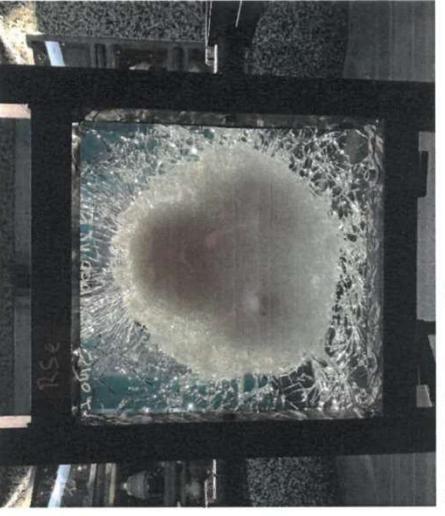


Foto / Photo: Beschussamt Ulm
Nr. / No.: S 21 0068 01; B04

Prüfbericht-Nr.: S 21 0068 01 / B
Test report number:

Beschussamt Ulm e.V.

Prüfmuster 3 / Test sample 3: 09215643



Foto / Photo: Beschussamt Ulm
Nr. / No.: S 21 0068 01; B05

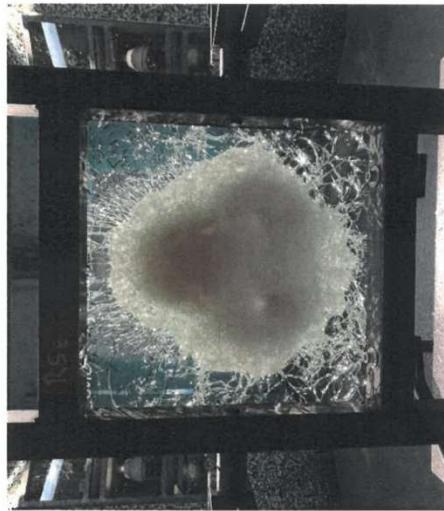


Foto / Photo: Beschussamt Ulm
Nr. / No.: S 21 0068 01; B06



Beschussamt Ulm

Eich- und Beschusswesen Baden-Württemberg
Staatliche Prüf- und Zertifizierungsstelle für Waffen- und Sicherheitstechnik
Legal verification and certification office for weapons and security engineering

Zertifikat - Certificate

S 23 0079 01 / Z

Durchschusshemmende Verglasung

Bullet resistant glazing

Antragsteller
Applicant

GLASS SOLUTIONS LLC
UAE - RAS AL KHAIMAH

Hersteller
Manufacturer

GLASS SOLUTIONS LLC
UAE - RAS AL KHAIMAH

Ort und Datum der Prüfung
Location and test date (dd.mm.yyyy)

89081 Ulm, 26.10.2023

Prüfvorgabe
Test requirement

Nach Kundenspezifikation
Verfahren: STANAG 4569, AEP55; Level 2
To Applicant's specification
Method: STANAG 4569, AEP55; Level 2

Gegenstand der Zertifizierung
Item under certification

VSG-Verglasung
Laminated glazing

500 x 500 x 60,90 mm / 33,60 kg
[Istmaße / Actual sizes]

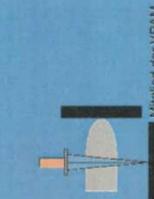
GLASS SOLUTIONS LLC

Referenz / Reference: Sample 1-8
S 23 0079 01 / B

Typenbezeichnung
Product reference

Details siehe Prüfbericht-Nr.
Details see test report number

Erfüllt die Kundenspezifikation / Meets Applicant's specification
Kaliber; Geschoss / Calibre; bullet: 7,62 x 39 mm; BZ; 7,70 Gramm / Gram
Geschossgeschwindigkeit / Bullet velocity: 695 m/s ± 20 m/s
Schussrichtung / Shooting direction: 90° / 0° Nato
PrüfmusterTemperatur / Temperature test sample: +21° C



Mitglied der VPAM

Hiermit bestätigen wir, dass sämtliche zur Zertifizierung eingesetzten Prüfmittel, Messmittel und Hilfsmittel entsprechend dem akkreditierten System qualifiziert bzw. messtechnisch rückgekennzeichnet sind.
We hereby confirm that all test devices, measuring tools and aids used for the certification are qualified or metrologically traceable to the accredited system.
Zertifikat ohne Unterschrift und Bestandteil des Zertifikats.
Der Prüfbericht ist Grundlage und Bestandteil des Zertifikats.
Only the original certificate stamped and signed by the Proof House is valid. This certificate may only be passed on in its entirety and without modification. The use of parts of this certificate is allowed only with the express consent of the Beschussamt Ulm.
The test report is basis and part of the certificate.

Ulm, den 31.10.2023

Akkreditierte Prüf- und
Zertifizierungsstelle



Beschussamt Ulm
Albstraße 74
89081 Ulm
Tel.: 0731-9-58 51-0
Fax: 0731-9-58 51-99
beschussamt@rmt.bwl.de
www.beschussamt.eu

Document: S 51-020 Genehmigung: L Stand: 30.04.2020


TONNIER
Leiter der Zertifizierung
Head of certification



Beschussamt Ulm E₄₄

Eich- und Beschusswesen Baden-Württemberg
Staatliche Prüf- und Zertifizierungsstelle für Waffen- und Sicherheitstechnik
Legal verification and certification office for weapons and security engineering

Prüfbericht – Test report

S 23 0079 01 / B

Durchschusshemmende Verglasung

Bullet resistant glazing

Antragsteller:

Applicant:

GLASS SOLUTIONS LLC
WH 1.3 Ras Al Khaimah Port
P.O. BOX 35410
UAE - RAS AL KHAIMAH

Hersteller:

Manufacturer:

GLASS SOLUTIONS LLC
WH 1.3 Ras Al Khaimah Port
P.O. BOX 35410
UAE - RAS AL KHAIMAH

Ort und Datum der Prüfung:

Location and test date (dd.mm.yyyy):

89081 Ulm, 26.10.2023

Prüfvorgabe:

Test requirement

Nach Kundenspezifikation
Verfahren: STANAG 4569, AEP55; Level 2
To Applicant's specification
Method: STANAG 4569, AEP55; Level 2

Gegenstand der Prüfung:

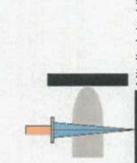
Item under test

VSG-Verglasung

Laminated glazing
500 x 500 x 60,90 mm / 33,60 kg
[Istmaße / Actual sizes]

Typenbezeichnung:

Product reference:



Mitglied der VPAM

Beschussamt Ulm
Albstraße 74
89081 Ulm
Tel.: 0731-9 68 51-0
Fax: 0731-9 68 51-99
beschussamt@rpt.bwl.de
www.beschussamt.eu

Akkreditierte Prüf- und
Zertifizierungsstelle



Deutsche
Akreditierungsstelle
D-PL-17047-02-00

Ulm, den 31.10.2023;



S. Junginger
S. Junginger
Leiter der Prüfung
Head of examination
Seite 1 von 8 Seiten
Page 1 of 8 page

Document: Si 51-020 Genehmigung: L Stand: 30.04.2020

Allgemeine Angaben

General details

Art der Probenahme: Vom Antragsteller ausgewählt und angeliefert am 20.10.2023

Taking of samples: Chosen and delivered on 20.10.2023 (dd.mm.yyyy) by the Applicant

Prüfer:

Tester:

M. Günther

S. Junginger

Teilnehmer:

Prüfvorgaben

Specification of the test

Munitionsart / Type of ammunition

Waffe: Prüflauf

Weapon: Test barrel

Art Kaliber / Draillänge

Type Calibre / twist length 7,62 x 39 mm / 240 mm

Munition: Geschoss

Ammunition: Bullet

Geschossgewicht

Bullet weight 7,70 ± 0,10 Gramm / Gram

Losnummer

Lot number BaU 7.62BZ 1/6/5 L1

**Geforderte Geschoss-
geschwindigkeit:**

Required bullet velocity.

Schussentfernung:

Test distance:

695 m/s ± 20 m/s

10 m



Details zum Gegenstand der Prüfung

Details to the item under test

Art: VSG-Verglasung

Laminated glazing

Abmessungen: 500 x 500 x 60,90 mm [istmaße / Actual sizes]

Size / thickness:

Anzahl: 8

Number of samples:

Aufbau: (Beginnend mit Angriffsseite)

Composition: (Starting from the attack face)

(Starting from the attack face)

10,00mm Gl 0,76mm PVB 0,76mm PVB 10,00mm Gl 0,76mm PVB 8,00mm Gl 0,76mm PVB
8,00mm Gl 0,76mm PVB 8,00mm Gl 0,76mm PVB 3,00mm PC

[Nennmaße / Nominal sizes]

Gl = Glas / Glass

PVB = PVB-Folie / PVB-foil

PC = Polycarbonat Scheibe / Polycarbonate

Sonstige Angaben:

Further information:

Prüfmustereinlagerung: 24 Stunden bei +21° C
Umgebungstemperatur während der Prüfung: +21° C
Test sample stored prior to test: 24 hours at +21° C
Environmental temperature during the test: +21° C

Probengewicht 33,60 kg

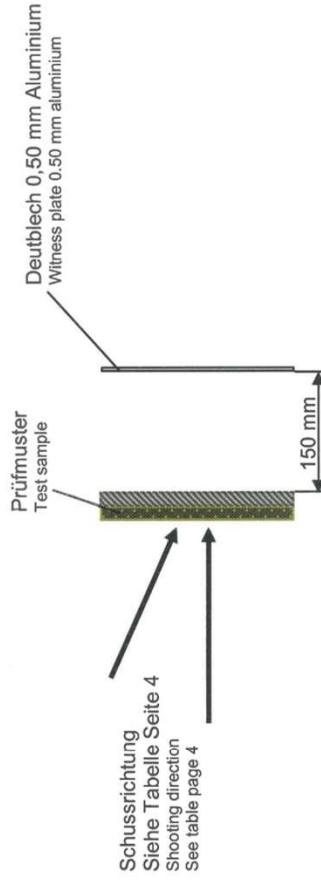
Weight of test sample: 33,60 kg

Typenbezeichnung: GLASS SOLUTIONS LLC

Product reference:

Versuchsaufbau

Test setup



Darstellung der Prüfergebnisse

Presentation of the test results

Kaliber; Geschoß / Calibre; bullet: 7,62 x 39 mm; BZ

Trefferbild: Trefferdreieck 120 mm * 20 mm

Hit location: Hit triangle 120 mm * 20 mm

Probe Sample	Schuss- folge Shot number	Schuss- richtung Shooting direction	Trefferabstände [mm] Hit distances [mm]	$V_{2,5}^{(1)}$ [m/s]	$E_{2,5}^{(2)}$ [Joule]	Auswertung Evaluation 3)
09231328	1.	90° 0° Nato	1 - 2 = 136 1 - 3 = 137 2 - 3 = 125	691 693 710	1838 1849 1941	RS eM / DBI oM RS eM / DBI oM RS eIBoR / DBI oM
	2.		4 - 5 = 130	705	1914	RS eM / DBI oM
	3.		4 - 6 = 135	696	1865	RS eM / DBI oM
	4.		5 - 6 = 133	701	1892	RS eIBoR / DBI oM
09231327	5.		7 - 8 = 125	690	1833	RS eM / DBI oM
	6.		7 - 9 = 125	693	1849	RS eM / DBI oM
	7.		8 - 9 = 128	699	1881	RS eIBoR / DBI oM
	8.		10 - 11 = 125	695	1860	RS eM / DBI oM
09230850	9.		10 - 12 = 120	691	1838	RS eM / DBI oM
	10.		11 - 12 = 125	698	1876	RS eIBoR / DBI oM
	11.		13 - 14 = 130	694	1854	RS eM / DBI oM
	12.		13 - 15 = 120	691	1838	RS eM / DBI oM
09230849	13.		14 - 15 = 125	695	1860	RS eIBoR / DBI oM
	14.		16 - 17 = 125	698	1876	RS eM / DBI oM
	15.		16 - 18 = 125	697	1870	RS eM / DBI oM
	16.		17 - 18 = 130	695	1860	RS eIBoR / DBI oM
09231073	17.		19 - 20 = 130	693	1849	RS eM / DBI oM
	18.		19 - 21 = 130	693	1849	RS eM / DBI oM
	19.		20 - 21 = 130	695	1860	RS eIBoR / DBI oM
	20.					
09231074	21.					
	22.		Einzelschuss / Single shot	695	1860	RS eM / DBI oM

Pendelung: 22 x <3 Grad (mit Hilfe Pendelkarten ermittelt)

Yaw: 22 x <3 degrees (determined by using of yaw cards)

1) $V_{2,5}$ = Geschossgeschwindigkeit 2,5 m vor dem Prüfmuster
Bullet velocity 2,5 m in front of the sample

2) $E_{2,5}$ = Geschossenergie 2,5 m vor dem Prüfmuster
Bullet energy 2,5 m in front of the sample

3) PP = Teildurchdringung (Deutlich ohne Lichtdurchlass)
CP = Partial penetration (Witness plate without light)
KDR = Komplett Durchdringung (Ziel und Deutlich durchdringen)
o.W. = Ohne Wertung / Without evaluation

RS e = Rückseite der Probe / Rear side of the sample

DBI = Deutlich / Witness plate

oM = ohne Merkmal / Without mark

IBoR = Leichte Beule ohne Riss / Little bump without crack

BoR = Beule ohne Riss / Bump without crack

BmRoL = Beule mit Riss ohne Lichtdurchlass / Bump with crack without light

BmRuL = Beule mit Riss und Lichtdurchlass / Bump with crack and light

Restl. = Restleistung / Residual penetration

Fotodokumentation

Photo documentation

Probe 1 / Sample 1: 09231328



Foto / Photo: Beschussamt Ulm
Nr. / No.: S 23 0079 01; B01

Probe 2 / Sample 2: 09231327



Foto / Photo: Beschussamt Ulm
Nr. / No.: S 23 0079 01; B03



Foto / Photo: Beschussamt Ulm
Nr. / No.: S 23 0079 01; B02



Foto / Photo: Beschussamt Ulm
Nr. / No.: S 23 0079 01; B04

Prüfbericht-Nr.:
Test report number:

S 23 0079 01 / B

Beschussamt Ulm e.V.

Probe 3 / Sample 3: 09230850



Foto / Photo: Beschussamt Ulm
Nr. / No.: S 23 0079 01; B05

Probe 3 / Sample 3: 09230850



Foto / Photo: Beschussamt Ulm
Nr. / No.: S 23 0079 01; B06

Probe 4 / Sample 4: 09230849



Foto / Photo: Beschussamt Ulm
Nr. / No.: S 23 0079 01; B07

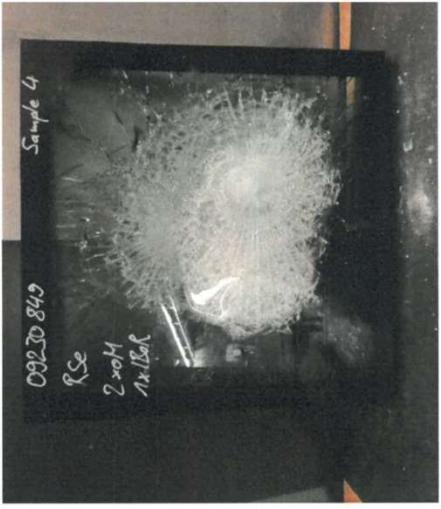


Foto / Photo: Beschussamt Ulm
Nr. / No.: S 23 0079 01; B08

Prüfbericht-Nr.:
Test report number:

S 23 0079 01 / B

Beschussamt Ulm 

Probe 5 / Sample 5: 09231416



Foto / Photo: Beschussamt Ulm
Nr. / No.: S 23 0079 01; B09



Foto / Photo: Beschussamt Ulm
Nr. / No.: S 23 0079 01; B10

Probe 6 / Sample 6: 09231073



Foto / Photo: Beschussamt Ulm
Nr. / No.: S 23 0079 01; B11



Foto / Photo: Beschussamt Ulm
Nr. / No.: S 23 0079 01; B12

Prüfbericht-Nr.:
Test report number:

S 23 0079 01 / B

Beschussamt Ulm

Probe 7 / Sample 7: 09231074



Foto / Photo: Beschussamt Ulm
Nr. / No.: S 23 0079 01; B13

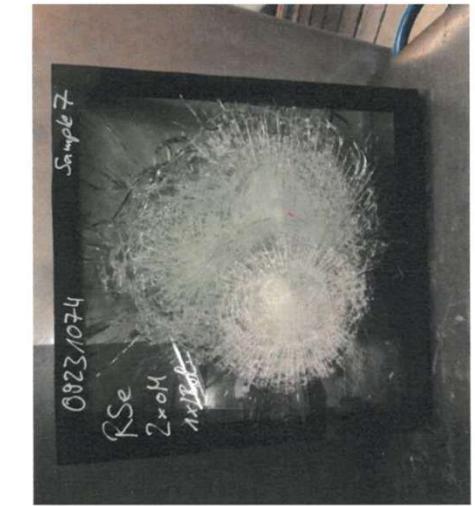


Foto / Photo: Beschussamt Ulm
Nr. / No.: S 23 0078 01; B14

Probe 8 / Sample 8: 09231326

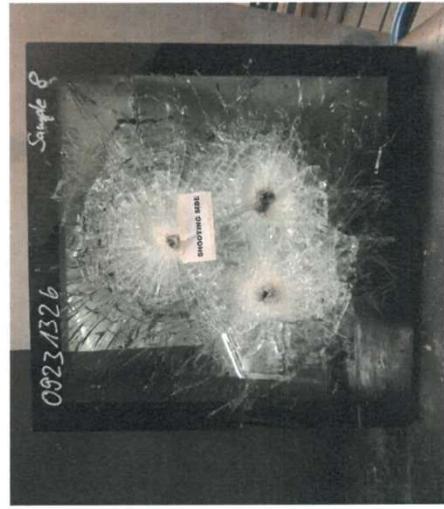


Foto / Photo: Beschussamt Ulm
Nr. / No.: S 23 0079 01; B15



Foto / Photo: Beschussamt Ulm
Nr. / No.: S 23 0079 01; B16

Test and Evaluation Department

Ballistic Testing Facility

Summary Test Result

Ballistic Resistance Test

84 mm Armored Glass

Customized Special Test 0.50 Cal Ball M33 Bullet @ 50m

GLASS SHIELD INDUSTRIAL CO.

JODDB/TEST/BTF/STR/1190

Approval

Summary Test Result

Ballistic Resistance Test

84 mm Armored Glass

Customized Special Test

0.50 Cal Ball M33 Bullet @ 50m

GLASS SHIELD INDUSTRIAL CO.

Compiled by
Head of Weapons, Ammunition & Armor Testing
Eng. Issa Abed AL Rahman Rawashdeh

Approved by
Head of Test & Evaluation Department
Dr. Eng. Riyad Ali Ratrouf

Signature

7 August 2023

I. Test Data

Requester	JODDB / Sales
Contractor	GLASS SHIELD INDUSTRIAL CO. / Warehouse No. W 8 Block 14, AQABA, JORDAN
References	<ul style="list-style-type: none"> Test and Evaluation Request No.1190 dated 03/07/2023 Test Proposal No. JODDB/TEST/BTF/TP/1190-1 Dated 01/08/2023 <p>(See Appendix A)</p>
Test Sample	84.45mm Ballistic Glass/ S.N.11218743 / Size 1000x1000mm (See Photos No. 1)
Manufacturer	GLASS SHIELD INDUSTRIAL CO.
Test Type	Ballistic Resistance Test
Test Standard	Customized Special Test "0.50 Cal Ball M33 Bullet"
Test Site	Ballistic Testing Facility (JODDB)
Samples Received Date	31 th July 2023
Test Temperature	22 °C
Test Weapon	NATO Universal Ballistic Breccch with standard barrel: 12.7x99mm SN:3834
Type of Bullets	0.50 Cal Ball M33 Bullet Batch No.00307/H (See Photos No. 1)
Test Equipment	<ul style="list-style-type: none"> Doppler Radar SN.3503-13-270-011 (± 0.4 m/s) Digital caliper SN. 112167 (± 0.05 mm) Temp .Hum. Meter SN.95941255 (± 0.3 °C) Distance laser Measuring Device (Lacia) SN. 1030969032 (±2 mm)
Test Conducted By	<ul style="list-style-type: none"> Eng. Ali Sardyah Eng. Sameer Obaidat Eng. Mohammad Akilan Seiner Technician- Jalal Guliat Seiner Technician Hasn Debs Technician Islam Al Qusashi Technician Muath Anagreh
Test Date	2 nd August 2023

Note: The results contained in this Summary Test Result are only valid for detailed above and the Summary Test Result shall not be reproduced except in full without approval of the laboratory.

2. Test Results

84.45mm Ballistic Glass/S.N.11218743 / Size 1000x1000mm			
Customized Special Test			
Threat	Shot No.	Bullet Velocity @ 50m (m/s)	Status
“0.50 Cal Ball M33 Bullet” @ 50m	1	926.3	NP
Distance between shots 35±5 cm	2	917.7	NP
	3	910.6	NP
NP- No Perforation. See photos No.2			
P- Perforation: Perforation of the test Sample by the bullet or parts of the bullet or perforation of the witnessfoil.			
NP- No Perforation: No perforation of the test Sample by the bullet or parts of the bullet and No perforation of the witness foil.			

RANGE EQUIPMENT & CONFIGURATION

HE GUN

he test sample was shot from the NATO Universal Ballistic Breech with the appropriate standard barrel and bullet type to give projectile stability.

ELOCITY MEASUREMENT

he projectile velocity was measured using Doppler Radar System at 1 m from the Striking Face with uncertainty

.4 m/s

INSTANCE MEASURMENTS

est range distance was measured by laser measuring device with uncertainty 2 mm, striking distances were marked by a digital calipers with uncertainty 0.05 mm.

UPPORT FIXTURE

he test sample was supported by a fixture that permits its position and attitude to be readily adjusted so that it is perpendicular to the line of flight of the bullet at the point of impact.

IMING

he aiming process has been achieved by using standard laser bullets.

HOT PLACEMENT

.ll shots hit the test sample in the required pattern, with the required place.

PLINTER COLLECTING BOX & WITNESS FOIL

is fully enclose the space between the test piece and the 0.02 mm thickness standard witness foil with density 54 /m² which is mounted in the splinter collecting box in a vertical position at a distance of (500 ± 10) mm behind the test piece.

Close Focus Research

Ballistic Testing Services

Phone: 800-513-4291 Email: techsupport@CloseFocusResearch.com

Name: Glass Solutions LLC

Address: WH 1.3 Ras Al Khaimah Port, Al Mairid Corniche, P.O. Box

Phone: +971 7 2080092 / Mobile: +971 50 3170765

Page 1 of 2**Ballistic Test Report**

Report Number: BTR-01-20-2022-Sample 3

CloseFocusResearch.com

Ballistic Results**Project Summary**

Type of Products to be tested: Bullet Resistant Glazings
 Test Specimen Sample size(s): 500 x 500 mm
 Number of test specimens: 3 Samples
 Weight of all samples: 291.6 lbs
 Are Materials a Health Hazard: No
 Need the Tests performed by: within 5 days
 Need products shipped back: No
 Purchase Order Number: Not Applicable

Test Results

Test Sample: Sample 3
 Item / Part Number: 3 / SR. 12219914
 Date of Manufacture: January 7, 2022
 Description: Bullet Resistant Glazing
 Sample Size: 19.7 x 19.7 inch (500 x 500 mm)
 Thickness: 3.060 inch (77.7 mm)
 Weight: 97.2 lbs (44.1 kg)
 Weapon Type: 7.62 NATO
 Cartridge / Projectile Type: 7.62 x 51 NATO FCJ steel hard core AP
 Projectile Weight: 150 grains
 Target Distance: 32.8 feet
 Number of Shots: 3 shots
 Shot Sequence: Shot 1 Shot 2 Shot 3
 Impact Velocity (ft/sec)*: 2,688 2,695 2,698
 Impact Energy (ft-lbs): 2,406 2,419 2,424
 Impact Momentum (lb-sec.): 1.79 1.79 1.80
 Impact Angle (degrees): 0 ° 0 ° 0 °
 Sample Penetration: NP NP NP
 Witness Plate Penetration: NP NP NP
 Impact Spacing (inches)**: 4.30 4.60 3.80
 Impact Spacing / Pattern: 4.23 inch (average)
 Witness plate material: 0.0008 in. thick Type 1100 Aluminum foil
 Spall catch box: 17.32 x 17.32 in.
 Witness / Box Distance: 19.7 inches
 Spall Occurrence: No spall occurred
 Test Temperature: 63 ° F
 Test Date: January 20, 2022
 Pass / Fail Results: Passed the Test
 Comments:

Footnotes

* Velocity measurements were taken at a distance of 8.2 feet from muzzle.

** Impact Spacing is the distance between shots (shot 1= 3 to 1, shot 2 = 1 to 2, shot 3 = 2 to 3)

Test and Report Engineers

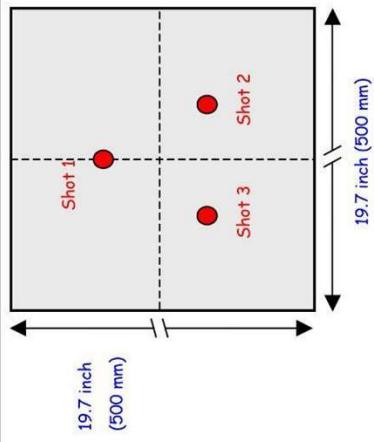
Tested and Reported by: Sam Raheb

Signature: 

Date: January 20, 2022

Form: BTR22P-12 © 2/06 Close Focus Research

International Ballistic Standards / Specifications Testing
 ASTM Canadian FRA NIJ CFR Pass All
 Australian EN1063 Germ DIN State Dept CFR SYA
 British EN1522/23 MIL-SAMTT UL 752 Other
 Test Standard: European EN1063 [No Splinters]
 Particular Test: EN BTR7 [NS] (7.62 x 51 NATO 150 gr FCJ SHC AP)
 Velocity Range: 2,657 to 2,723 ft/s
 Shots: 3 shots
 Shot Pattern: 4.3 to 5.1 inch triangle



NP = No Penetration
 PP = Partial Penetration
 CP = Complete Penetration
 N/A = Not Applicable

Close Focus Research

Ballistic Testing Services

Phone: 800-513-4291 Email: techsupport@CloseFocusResearch.com**Page 2 of 2****Ballistic Test Report**Report Number: BTR-01-20-2022-Sample 3
CloseFocusResearch.com

Name: Glass Solutions LLC

Ballistic Test Results and Photographs

Ballistic Test Results:

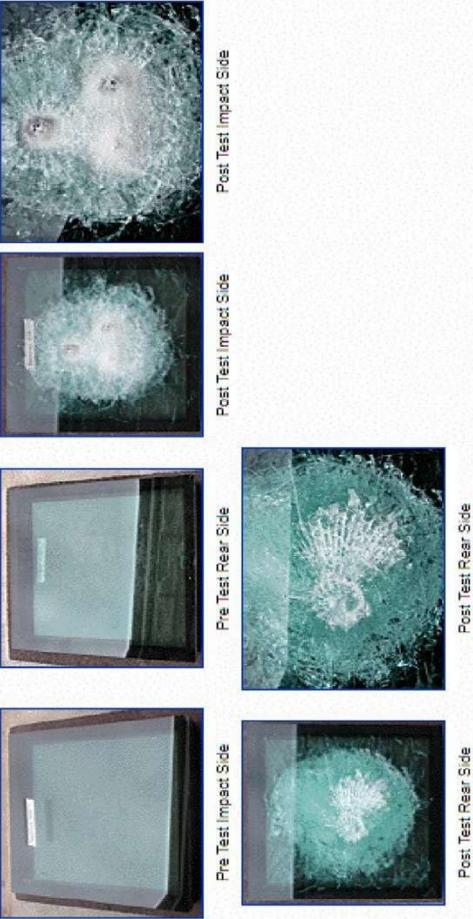
Test Sample 3 passed the European EN1063 [No Splinters] EN BR7 [NS] (7.62 x 51 NATO 150 gr FCJ SHC AP) Ballistic test. There was no complete penetration of the test sample from any of the 7.62 x 51 NATO FCJ steel hard core AP caliber projectiles. This test sample is assigned the EN1063 [NS] No Splinters Rating.

Witness Plate and Spall Effects:

No spall occurred or damage to the 0.0008 in. thick Type 1100 Aluminum foil witness plate was observed.

Photographs

The following photographs show both the pre and post-test sample. Additional larger sized photographs are included with this report.

Sample 3: SR. 12219914 - D.O.M. January 7, 2022 - EN BR7 [NS] - 500 x 500 x 77.7 mm**Test and Report Engineers**

Tested and Reported by: Sam Raheb

Signature:

Date: January 20, 2022

4-Official Papers



العنوان الوطني
NATIONAL ADDRESS

رقم الإثبات	1069044751
تاريخ الإصدار	27/7/2025
تاريخ الاستهلاك	23/1/2026

إثبات عنوان
Address Proof

Address Holder Details

بيانات صاحب العنوان

Name	Company Modern Metalworks						الاسم					
Customer Acc.	3	1	3	3	2	7	3	0	0	4	0	رقم الحساب
Reg. Date	27/7/2025											تاريخ التسجيل
شريك	مودرن ميتالوركس											شريك

Address Details

نَفَادِي، الْعَنْدِيَّ

Short Address	J	E	S	A	7	6	2	6
Building No.	Street				رقم المبنى			
Secondary No.	7	6	2	6	Ahmad Zeni	العنوان المختصر		
Postal Code	3	0	4	2	As Salamah Dist.	رقم البريد		
	2	3	5	2	5	المنطقة		
	2	3	5	2	5	البلدة		
	2	3	5	2	5	المحافظة		
	2	3	5	2	5	الإقليم		
	2	3	5	2	5	الإقليم الفرعى		
	2	3	5	2	5	المنطقة البريدية		
	2	3	5	2	5	البلدة البريدية		
	2	3	5	2	5	البلدة المختصرة		

JEDDAH

To Verify قناعت
<https://proof.address.gov.sa/VerifyProofNA.aspx>

للتتحقق To Verify

شيء من ذلك، مما يعرض صاحبه للمساءلة القانونية.

This proof has been issued upon the request of the above named, and it is absolutely prohibited to imitate it or make any modifications to it, whether by addition or deletion, and the proof is considered void if it is marred by something, and its owner is subject to legal accountability.



التأمينات الاجتماعية
Social Insurance

التاريخ: 27/07/2025
المواافق: 1447/02/02
رمز الشهادة: 99401829

۳۹۶

منشأة غير خاضعة لأحكام النظام

العنوان	رقم الاشتراك	اسم صاحب العمل	اسم المنشأة
السعودية 23525	655656324	شركة مودرن ميتسالوركس	7050493530

كتابه	رقمها
عدد المنشر��ين السعوديين	٢٠٢٠
المجموع	٢٠٢٠
عدد المنشرڪين غير السعوديين	٢٠٢٠

تشهد المؤسسة العامة للتأمينات الاجتماعية بأن المنشأة المذكورة أعلاه قد أوفت بالتزاماتها تجاه المؤسسة وفق البيانات المقدمة منها حتى تاريخ اصدار هذه الشهادة، والتي تم منحها تقديمه لآلية تطليها، وهي صالحة لجميع الأغراض التي نصت عليها الفقرة (6) من المادة (الثانية عشر) من نظام التأمينات الاجتماعية الصادر بالمرسوم الملكي رقم (م/33) بتاريخ 1421/9/3 هـ والمادة (العاشرة) من نظام التأمينات الاجتماعية الصادر بالمرسوم الملكي رقم (م/273) و تاريخ 1445/12/26 هـ.

هـ. 1447/03/03 حتى المفعول سارية الشهادة هذه

PLC Public



المملكة العربية السعودية - 12622 - 8308 - 3795
Kingdom of Saudi Arabia - 12622 - 8308 - 3795

800 124 3344
gosi.gov.sa





100251143100441



31308699551

الرقم المميز

100251143100441

رقم الشناسة

هيئة الزكاة والضريبة والجمارك
Zakat, Tax and Customs Authority

TN

نوع

Certificate No.

رقم

Certificate date

التاريخ

شهادة تسجيل الزكاة

Zakat Registration Certificate

The Zakat Tax and Customs

الجهة المختصة

Authority certifies that the Taxpayer

الجهة المختصة

Company Modern Metalworks

Entity Unified No./ID No

رقم المؤسسة / رقم هوية

7050493530

Is registered on 02/01/1447 AH corresponding to
27/06/2025 AD

(The second of Muhamarram one thousand four hundred forty-seven
Hijri)

Was granted this certificate to complete all transactions.

رقم التسجيل 1447/01/02 ٢٧/٦/٢٠٢٥
(الثاني من محرم الحرام ١٤٤٧ هـ)

تم إصداره لانتهاء جميع معاملاته.

www.zatca.gov.sa الموقع الإلكتروني للجهة المختصة

The validity of the certificate can be verified via the Authority's Website www.zatca.gov.sa

zatca.gov.sa 19993 @zatca_sa



هذا التسجيل رقم ١٤٤٧/٠١/٠٢ ٢٧/٦/٢٠٢٥
تم إصداره لانتهاء جميع معاملاته.
يمكن التحقق من صحة الشهادة من الموقع الإلكتروني للجهة المختصة
وهو www.zatca.gov.sa



TIN

3130869851

الرقم الممدوح

الرقم الممدوح

هيئة الزكاة والضريبة والجمارك
Zakat, Tax and Customs Authorityالمملكة العربية السعودية
Kingdom of Saudi Arabia

شهادة تسجيل في ضريبة القيمة المضافة

VAT Registration Certificate

تمت صياغة الإذاعة والضريبة والجمارك بأن المكلف، أذنها مسجل في ضريبة القيمة المضافة بتاريخ ٢٧/٠٧/٢٠٢٥ م
The Zakat, Tax and Customs Authority certifies that taxpayer below is VAT registered on 27/07/2025 AD

Taxpayer Name	Company Modern Metalworks	اسم المكلف
VAT Registration Number	313086985100003	رقم التسجيل الضريبي
Effective Registration Date	2025/07/01	تاريخ نفاذ التسجيل
Taxpayer Address	23525- Jeddah As Salam Dist	عنوان المكلف
CR / License	7050493530	رقم السجل التجاري
Contact / ID No		الرخصة / المقدد / الهوية
Tax Period	Quarterly-سنتين	الفترة الضريبية
First Filing due date	2025/10/31	تاريخ استحقاق أول إقرار
		ضريبي

كلمة مسجل ضريبي: ضريبة القيمة المضافة، لا يجوز لكم تحصيل ضريبة القيمة المضافة من عملائكم قبل تاريخ نفاذ
التسجيل في الضريبة، وهي حال تبيّن غير ذلك ستقوم هيئة الزكاة والضريبة والجمارك بتنفيذ الفرماط المنسوب

Note: As a VAT registered taxpayer, you are not allowed to collect VAT from your customers prior to the effective date of the tax registration.. If otherwise approved, The ZAKAT, Tax and Customs Authority will impose the applicable penalties



zatca.gov.sa 19993 @zatca_sa

٢٠٢٥/٠٧/٢٧ تاریخ صدور شهادت تسجيل ضريبي من الظاهراني لـ (العنوان) ٩٦٢
و بعنوان الشهاده رقم ٩٦٢

www.zatca.gov.sa



شهادة السجل التجاري

البيانات الأساسية للسجل التجاري



7050493530

شركة مودرن ميتالوركس

الرقم الوطني الموحد: 7050493530

تاريخ الإصدار: 27/06/2025

نوع الكيان: شركة ذات مسؤولية محدودة

صفات الشركة : (شخص واحد)

حالة السجل: نشط

5-Joint ventures



Joint Ventures (SunFrame)

SunFrame Construction Consulting Co.,LTD.

A subsidiary of Yongli Group, Construction Consulting Co., Ltd. was established in September 1986. Over the years, it has grown into a large-scale, multi-functional enterprise, recognized for its expertise and innovation in the construction industry.

The company is not only a leading manufacturer of aluminum profiles but also holds first-class qualifications in façade design. Our specialization covers a wide range of building envelope solutions, including glass façades, aluminum composite panel (ACP) façades, Mashrabiya, and other architectural cladding systems.

We also provide complementary products such as aluminum and glass windows and doors, sunshades, sunrooms, canopies, glass balustrades, louvers, and more.

From concept to completion, we offer end-to-end services—covering design, material supply, project management, and installation—ensuring quality, precision, and client satisfaction at every stage.

SunFrame Cooperation Letter



مودرن ميتال ووركس
MODERN METAL WORKS

Date: [09/10/2025]

To: The Management of Sunframe.

China - KSA

Cooperation Letter

We, Modern Metal Works, are pleased to propose a Cooperation Letter with Sunframe to collaborate and share our experience and capabilities in the metal and façade industries.

We believe that by combining our strengths, we can deliver better solutions, expand opportunities, and achieve greater success together.

Thank you for considering this proposal. We look forward to a fruitful collaboration.

Sincerely,

General Manager

Eng. Kenan Ramadan



CR: 7050493530
0124224223 info@modern-mw.com
Ahmed Zaiat As Salamah Jeddah 7626

Joint Ventures (SunFrame)

Almost 35 years experience, has become a large comprehensive aluminum alloy profile manufacturing enterprise in China.

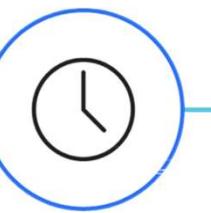
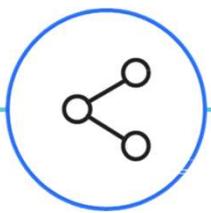
Annual Capacity

Extrusion: 100,000 ton

Facade Fabrication: 500,000sqm

Staff

Over 200 Senior and Intermediate technical engineers;
over 1000 Staff & Workers



Production
Area Over
200,000 sqm

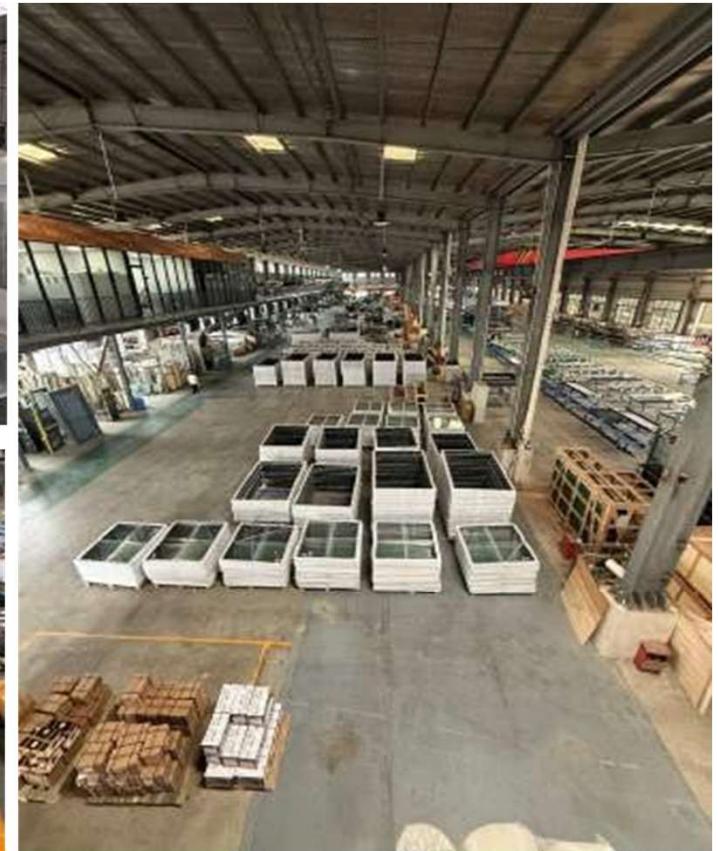
Alu Products Standards

National GB5237 ISO9001;ISO14001;
OHSAS18001 Japanese JISH4100;
JISH8601; JISH 8602;JISH8601; JISH 8602;
US AAMA 2603; AAMA2604; AAMA2605; UK
BS6496;

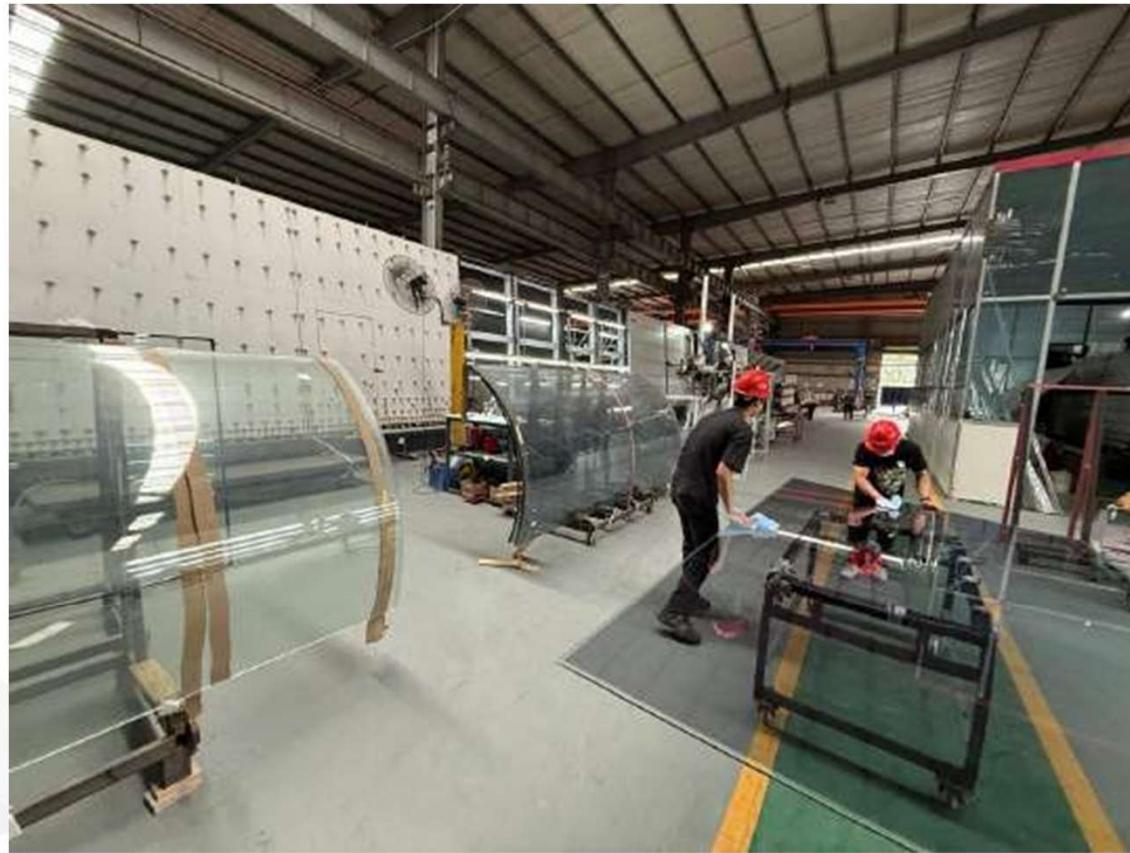
SunFrame Locations



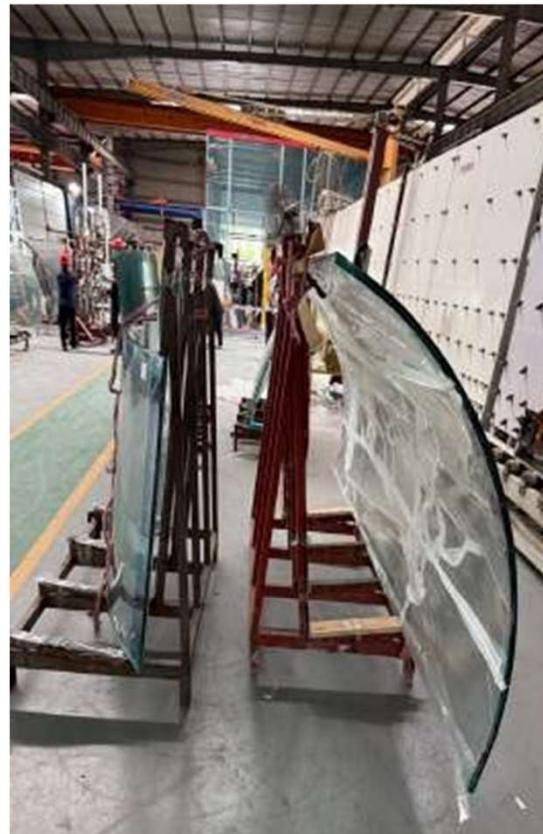
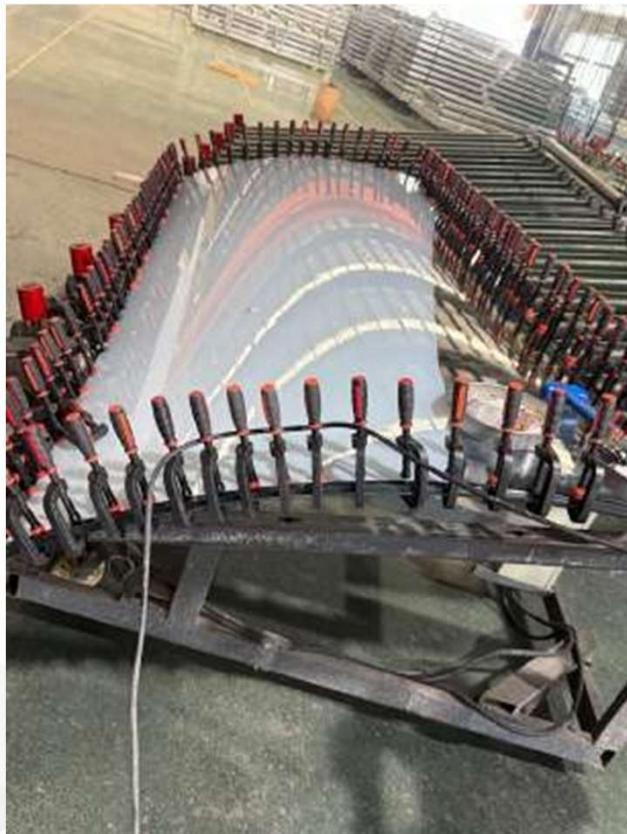
SunFrame Fabrication Area



SunFrame Fabrication Area



SunFrame Fabrication Area



SunFrame Fabrication Area



Extrusion Material

Aluminium Fabrication

Surface Treatment

SunFrame Fabrication Area



Assembly



Storage



Workshop View

SunFrame Fabrication Area



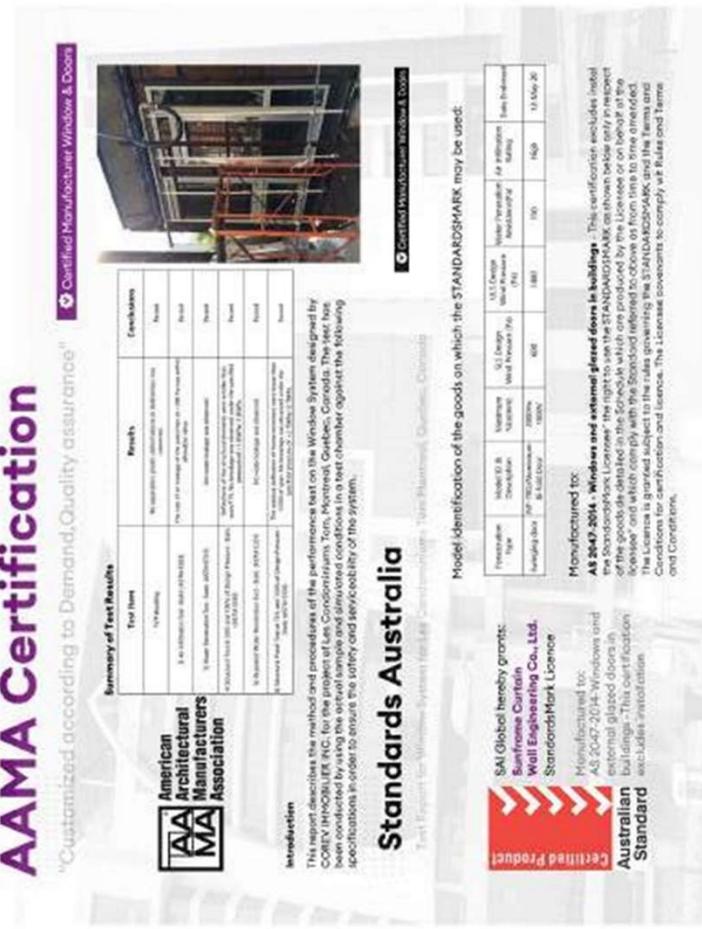
Assembling & Fabrication



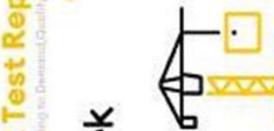
Honors & Certifications



Honors & Certifications

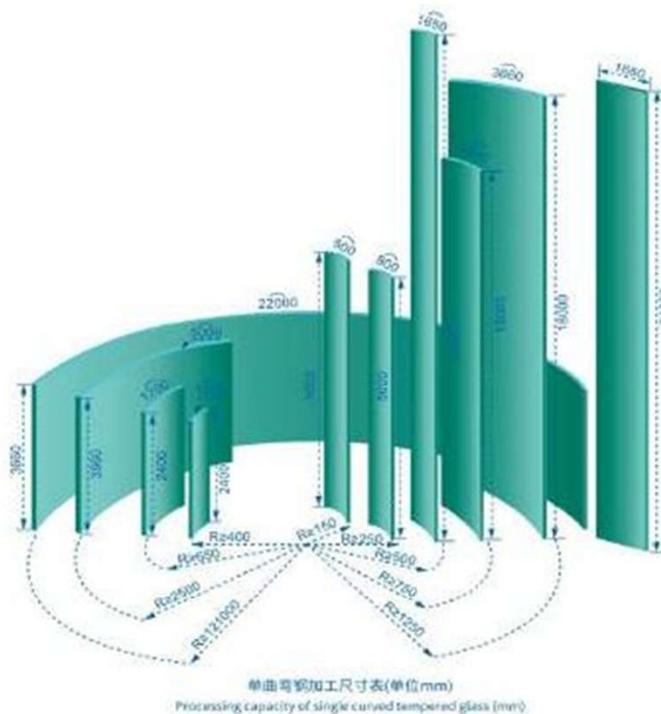
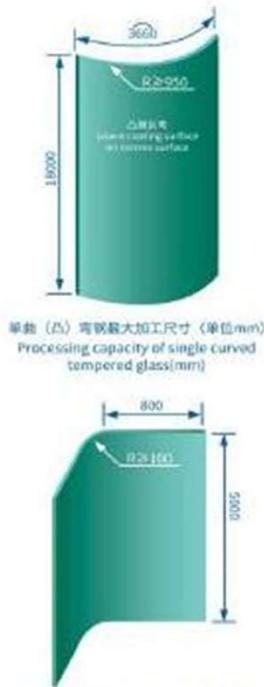
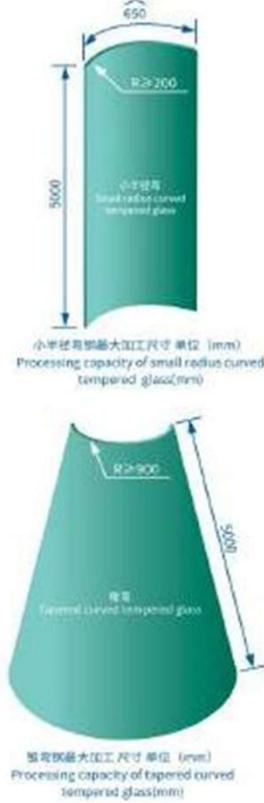


"Customized according to Demand, Quality assurance"



Type Of Glass Works

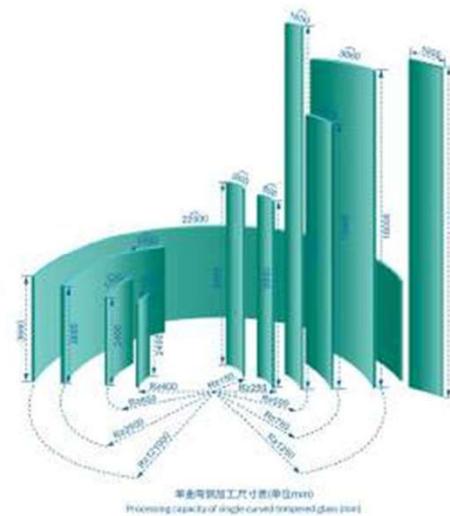
Curved Glass



Type Of Glass Works

Single Curved Glass

Composite processing technology	Digital printing glass	Flat and curved tempered glass	Laminated Glass	Insulated Glass
Maximum Process Size		3660 × 18000mm	1650 × 24000mm	
Maximum Load			700 KG/m ²	
Minimum U Value w/ m ² ·°C			0.76	



Type Of Glass Works

Multi Curved Glass

Composite processing technology	Digital printing glass	Flat and curved tempered glass	Laminated Glass	Insulated Glass
Maximum Process Size		3660 × 13000mm		
Maximum Load			700 KG/m ²	
Minimum U Value w/ m ² ·°C			0.76	

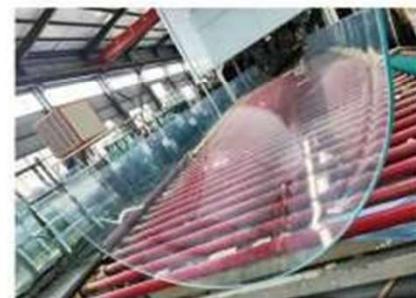


Ruci Museum, China

Type Of Glass Works

Semi Circular Curved Tempered Glass

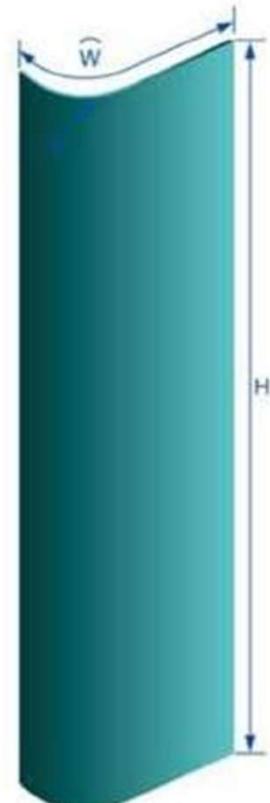
Capable of processing		
R	W	H
150mm	471mm	5000mm
250mm	785mm	5000mm
500mm	1571mm	24000mm
750mm	2356mm	13000mm
1250mm	3660mm	18000mm



Type Of Glass Works

J-Shaped Curved Tempered Glass

Capable of processing		
R	W	H
150mm	471mm	5000mm
250mm	785mm	5000mm
500mm	1571mm	24000mm
750mm	2356mm	13000mm
1250mm	3660mm	18000mm



Type Of Glass Works

V-Shaped Curved Tempered Glass

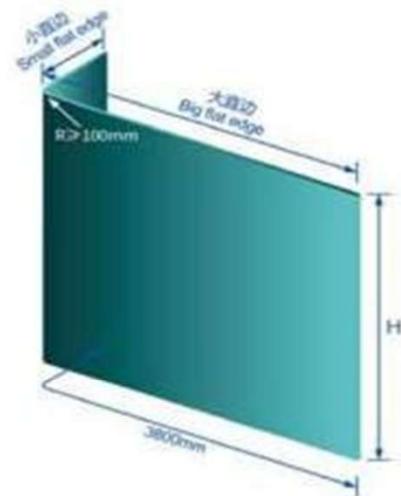
Capable of processing		
R	W	H
150mm	471mm	5000mm
250mm	785mm	5000mm
500mm	1571mm	24000mm
750mm	2356mm	13000mm
1250mm	3660mm	18000mm



Type Of Glass Works

L-Shaped Curved Tempered Glass

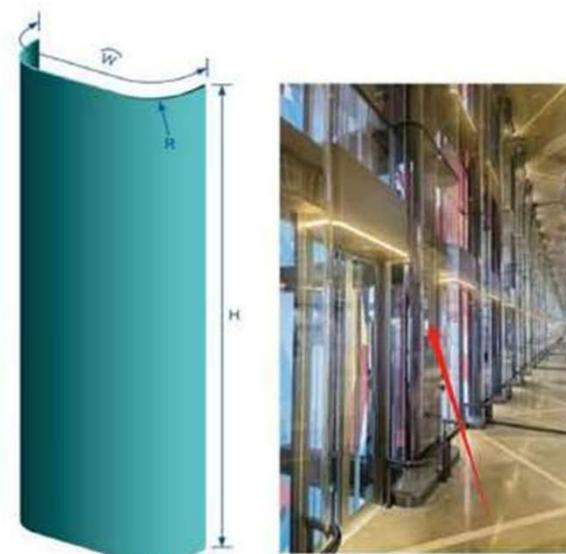
Capable of processing		
Small flat edge	Big Flat Edge	H
300mm≤edge≤1200mm	300mm≤edge≤2600mm	≤10000mm



Type Of Glass Works

U-Shaped Curved Tempered Glass

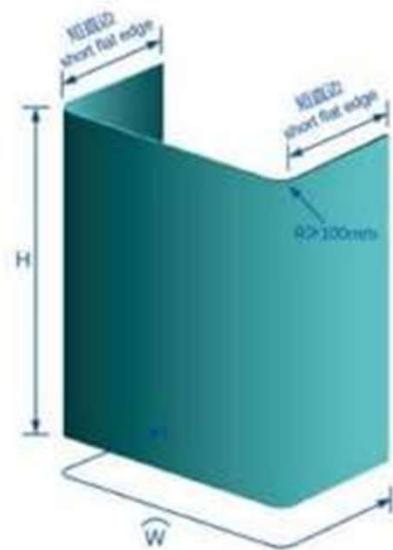
Capable of processing		
R	W	H
500mm	3300mm	5000mm
500mm	3660mm	3660mm
500mm	5000mm	3660mm
500mm	6000mm	3660mm
500mm	8000mm	3660mm
500mm	10000mm	3660mm
500mm	1650mm	24000mm
750mm	2400mm	13000mm
1250mm	3660mm	18000mm



Type Of Glass Works

C-Shaped Curved Tempered Glass

Capable of processing		
W	Short Flat Edge	H
≤3660mm	≤400mm	≤10000mm



Types Of Aluminum Works

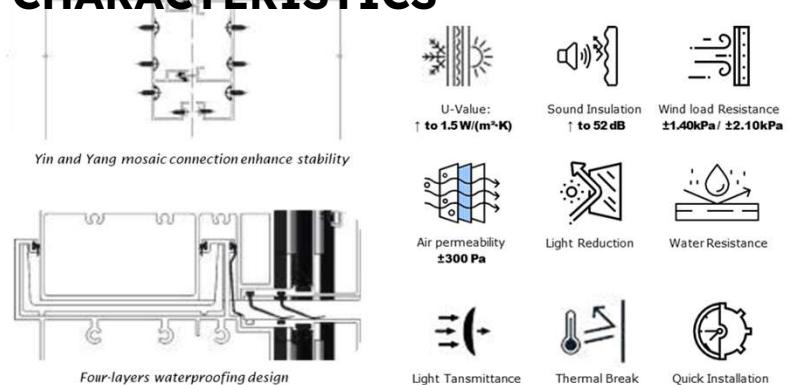
UN 150

UNITIZED CURTAIN WALL

Thermal Break/ Enhanced Stability / Convenience / Waterproof



PERFORMANCE CHARACTERISTICS



Glazing Options: **24-60mm** thk

- Floatglass
- Laminated glass
- Insulated glass
- UV-coated glass
- Double/ triple silver Low-E glass



UN 150 construction schedule



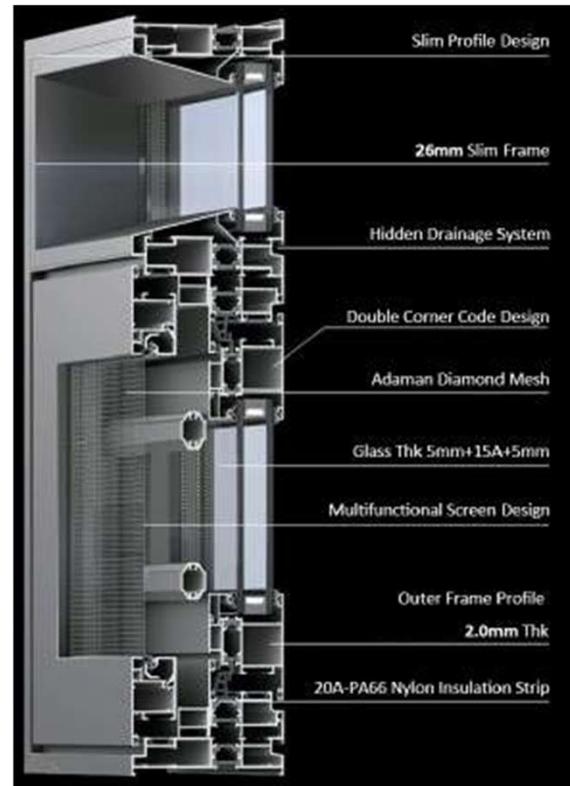
Site built construction schedule



Types Of Aluminum Works

ULTRA-106

**26MM ULTRA SLIM
CASEMENT WINDOW**



Types Of Aluminum Works

140A



17MM MINIMALIST SLIDING WINDOWS

17mm Ultra-Narrow Frame / Thermal Break / Embedded handle



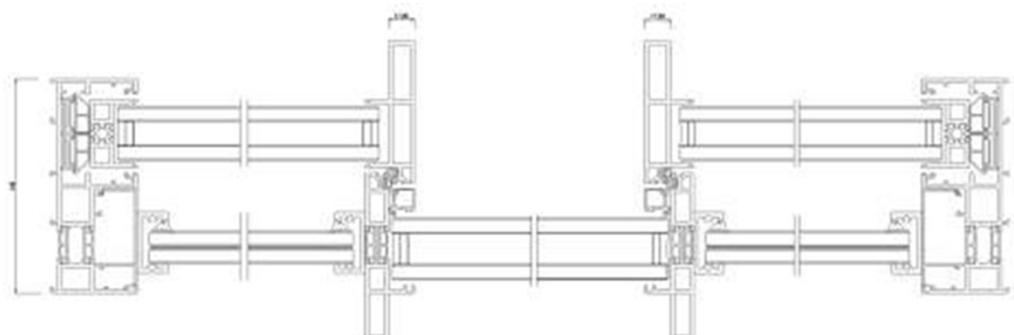
Hollow Aluminum Strip with Molecular Sieve Embedded Window Leaf

Thermal break profiles
Enhanced energy efficiency and indoor comfort

17mm Ultra-Narrow Frame

Standard Glass: **5mm+12A+5mm**

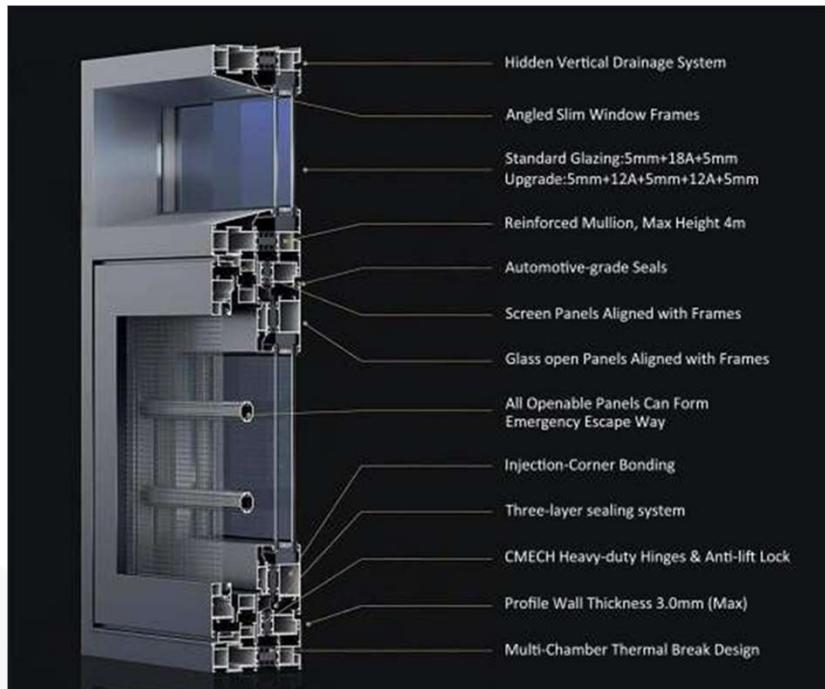
Slope drainage design
Effective Water Management
Reduced Maintenance



Types Of Aluminum Works

121

*TI LT & TURN THERMAL
BREAK CASEMENT WINDOW*

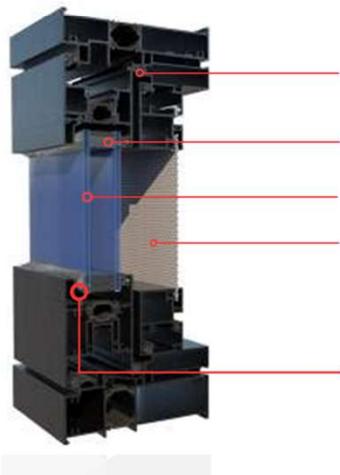


Technical Parameters			
Viewing Surface Width	Profile Occupies Space	Glass Configuration	Profile Wall Thickness
Frame - 56mm Mullion - 78mm Opening - 56mm	Frame - 121mm Mullion - 170mm Opening - 61mm	5mm+18A+5mm 5mm+12A+5mm+12A+5mm	1.8mm-3.0mm

Types Of Aluminum Works

125

**125 INSULATED SLIDING
WINDOW SYSTEM**



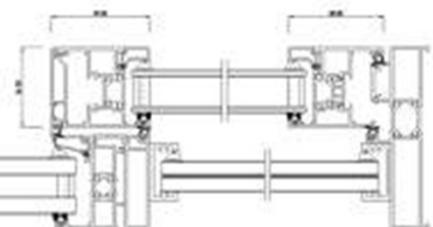
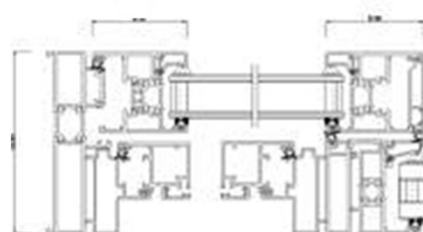
Multi-chamber system
design for Quieter and better insulation

Hollow Aluminum Strip with **Molecular Sieve**

Glass configuration: **5mm+12A+5mm**

Effective Mosquito Prevention
Bent screen design with screw-secured vertical
Installation ensures sturdy and secure screen setup

Sealing Strip with Hook Design
Reduces metal collision noise, providing collision
buffering and excellent sound insulation
Dust-proof brush strip enhances overall window
quality



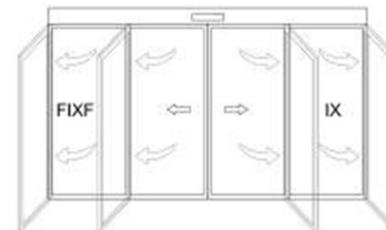
Types Of Aluminum Works

AUTOMATIC DOOR SERIES

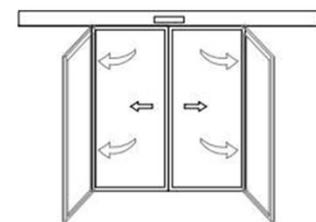
EMERGENCY SLIDING DOOR SERIES



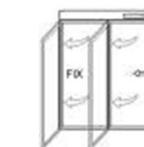
Description	Parameter(mm)
Width Of Sliding Panel	800~3000
Door Height	2100-3000
No. of Slidable Panel	1 or 2 panels
Emergency Exit Door	2 or 4 panels



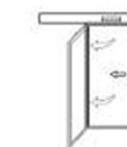
Double Translation Four Automatic Escape Doors



Single Horizontal Double Automatic Escape Door



Double Translation Double Automatic Escape Door



Double Open Four Panning Doors



Dunker
Motoren



Development
Capabilities



Extra Long
Warranty



Security



Silent Track



Tailor-Made

Assembly Test

Technical Support

Easy To Install

Types Of Aluminum Works

80Z

**THERMAL BREAK
BI-FOLD DOOR**



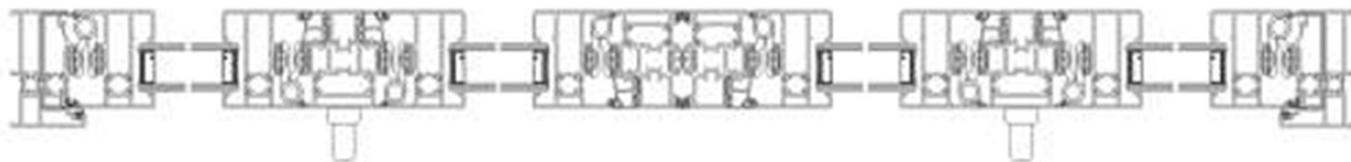
6063 aviation - grade virgin aluminum
Resistant to corrosion, offers excellent durability and strength

Superior Thermal Insulation
vertical isothermal line design and 20A - PA66 nylon thermal break strip

Outstanding Noise Reduction
Capable of achieving a noise reduction of over 40dB

Exceptional Sealing Performance with reinforcement mullion

Hidden Drainage System



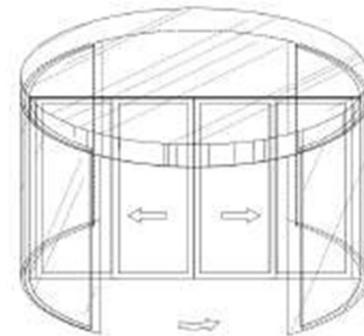
Types Of Aluminum Works

AUTOMATIC DOOR SERIES

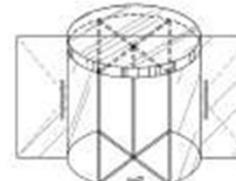
AUTOMATIC REVOLVING DOOR SERIES



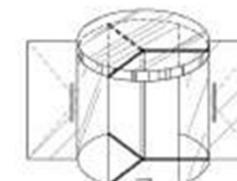
Description	Parameter
Style	2/3/4 wings revolving door
Door Panel Height	≤2500 mm
Min. Radius	≥1500 mm (Recommend)
Door Sill Height	300 mm
Door Frame Material	Stainless steel Aluminum alloy



Double-wing Revolving Door And Sliding Door



Four-wings Revolving Door



Three-wings Revolving Door



Double-wing Revolving Door

-  Dunker Motoren
-  Development Capabilities
-  Extra Long Warranty
-  Security
-  Silent Track
-  Tailor-Made
-  Assembly Test
-  Technical Support
-  Easy To Install

Joint Ventures (ALFATECH)

Founded in 2003, ALFATECH is a leading Saudi-based company specializing in aluminum facades, windows, doors, skylights, domes, and cladding.

With a strong presence in both local and international markets, ALFATECH is recognized for delivering innovative, high-quality aluminum solutions that enhance building aesthetics, functionality, and sustainability.

With a robust portfolio of projects across Saudi Arabia and beyond, ALFATECH has collaborated with top developers, architects, and contractors.

The company is known for its reliable, customized solutions and a strong track record of customer satisfaction.



ALFATECH Cooperation Letter



Date: [11/10/2025]

To: The Management of AlfaTech.

Jeddah - KSA

Cooperation Letter

We, Modern Metal Works, are pleased to propose a Cooperation Letter with AlfaTech to collaborate and share our experience and capabilities in the metal and façade industries.

We believe that by combining our strengths, we can deliver better solutions, expand opportunities, and achieve greater success together.

Thank you for considering this proposal. We look forward to a fruitful collaboration.

Sincerely,

General Manager

Eng. Kenan Ramadan

AlfaTech Management

Eng. Anas Sulaybi



List Of Machineries

Machinery and Equipment – Fabrication	
Protection Tape Machine	2 No.
Automatic Cutting Machine Saw Dia 380mm	5 No.
Automatic Double saw Cutting Machine Saw Dia 420mm	2 No.
Double saw Cutting Machine Saw Dia 400mm	2 No.
Automatic Double saw Cutting Machine Saw Dia 500mm	1 No.
Cladding Cutting Machine CNC 13m	1 No.
Cutting Saw Machine	1 o.
Drilling Machine	5 Nos.

List Of Machineries

New Machinery and Equipment – Fabrication	
Automatic CNC machining center with 4 controlled axis machine	1 No.
Automatic Cutting Machine with Automatic adjustable feeding system	1 No.
Advanced & High speed CNC Router for composite panels	1 No.
NC Hydraulic press brake	1 No.

List Of Machineries

<u>Machinery and Equipment – Fabrication</u>	
End Milling Machine	3 No.
Milling Machine	2 No.
Crimping Machine	2 No.
Bending Machine	1 No.
Sheet Bending Machine	1 No.
Hydraulic Notching Machine	9 No.
Punching Machine	4 No.
	1 No.
Panel Rolling Machine	1 No.
Air Compressor (Cobafer)	2 Nos.
Press Drill	35 Nos.
Welding Machine (Miller)	10 Nos.

List Of Machineries

<u>Machinery and Equipment – Transportation and Handling</u>	
Buses	2 Nos.
Pickup (3.5 Tons)	5 Nos.
Double Cabin Pickup	7 Nos.
Boom Crane	2 No.
Cradles	25 Nos.
Scaffoldings	2000 m²

Joint Ventures (KIN LONG)



Founded in 2003, **KINLONG** is a leading company in the **construction hardware industry**, and the **first A-share listed company** in this field (2016).

The company focuses on **innovation, manufacturing excellence, and customer satisfaction**, offering **comprehensive solutions** for modern construction needs.

With strong **R&D capabilities**, advanced systems, and a wide supplier network, **KINLONG** provides **high-quality, reliable products** and **one-stop solutions** that adapt quickly to market demands.

KIN LONG
For Better Living

KINLONG Joint Venture



Date: [08/10/2025]

To: The Management of Kin-Long.

China

Joint Venture Proposal

We, Modern Metal Works, are pleased to propose a Joint Venture with Kin-Long to collaborate and share our experience and capabilities in the metal and façade industries.

We believe that by combining our strengths, we can deliver better solutions, expand opportunities, and achieve greater success together.

We look forward to meeting with you soon to discuss the details of this partnership, including roles, resource sharing, and other requirements.

Thank you for considering this proposal. We look forward to a fruitful collaboration.

Sincerely,

General Manager

Eng. Kenan Ramadan

Eng. Kenan

Signature

CR : 7050493530
0124 224 223 | info@modern-mw.com
Ahmed Zaiat, As Salamah, Jeddah 2626

Kin-Long Management



Joint Ventures (MAX BEAM)

Max Beam was established to deliver innovative and high-quality solutions in the construction and finishing sector, with a strong commitment to efficiency, precision, and excellence.

Since its inception, the company has positioned itself as a trusted partner, providing end-to-end services from design to final implementation through advanced technical expertise and a skilled professional team.

With a clear vision to become a leading supplier of **metal, glass, and architectural systems**, Max Beam has evolved from component supply and manufacturing into offering complete **one-stop solutions** — including design, fabrication, installation, and post-delivery support.

The company's diverse portfolio spans residential, commercial, educational, and industrial projects, consistently upholding the highest standards of quality, safety, and durability.



MAX BEAM Joint Venture



Date: [06/10/2025]

To: The Management of Max Beam
UAE - Dubai

Joint Venture Proposal

We, Modern Metal Works, are pleased to propose a Joint Venture with Max Beam to collaborate and share our experience and capabilities in the metal and façade industries.

We believe that by combining our strengths, we can deliver better solutions, expand opportunities, and achieve greater success together.

We look forward to meeting with you soon to discuss the details of this partnership, including roles, resource sharing, and other requirements.

Thank you for considering this proposal. We look forward to a fruitful collaboration.

Sincerely,



Joint Ventures (Structure Style)



Structure Style was established with a clear vision to lead in the field of **aluminum façade systems and architectural cladding solutions**.

The company specializes in designing, manufacturing, and installing high-performance aluminum façades that combine modern aesthetics with engineering precision.

Since its foundation, Structure Style has built a solid reputation as a trusted partner for developers, consultants, and contractors, providing customized solutions that meet the highest international standards of **quality, safety, and durability**.

Backed by a team of skilled engineers and advanced fabrication facilities, the company delivers comprehensive **turnkey façade solutions** — from concept design and structural analysis to fabrication, installation, and post-project support.

Through its continuous commitment to innovation and excellence, **Structure Style** continues to play a vital role in shaping the architectural landscape with elegant, efficient, and sustainable aluminum façade systems.



STRUCTURE STYLE
FOR ALUMINIUM

STRUCTURE STYLE Joint Venture



مودرن ميتال ووركس
MODERN METAL WORKS



Date: [06/10/2025]

To: The Management of Structure Style
UAE - Dubai

Joint Venture Proposal

We, Modern Metal Works, are pleased to propose a Joint Venture with Max Beam to collaborate and share our experience and capabilities in the metal and façade industries.

We believe that by combining our strengths, we can deliver better solutions, expand opportunities, and achieve greater success together.

We look forward to meeting with you soon to discuss the details of this partnership, including roles, resource sharing, and other requirements.

Thank you for considering this proposal. We look forward to a fruitful collaboration.

Sincerely,

General Manager



Structure Style Management



6-Cooperation letters

Cooperation letters with our Suppliers



شركة المواد الخصوصية للكيماويات (شركة شخص واحد)
Specialities Materials Chemicals Company (One Person Company)

Dears/Modern Metal Works Co.

OCT 8TH 2025

Dear Sir,

We are pleased to inform you of our acceptance to supply our products to your esteemed company as per your request for the approved projects.

We have no objection to proceeding with the supply and look forward to cooperating with you to meet your requirements with the highest quality and within the agreed terms and conditions.

Thank you for your trust and cooperation.

With best regards.

SPECIALITIES MATERIALS CHEMICALS COMPANY (ONE PERSON COMPANY)



Kano Building 1 - 3rd floor - Madinah Road
Tel. +966 12 2636237 - Fax +966 12 263 2901
Jeddah - Kingdom of Saudi Arabia
L.L.C. C.R. 4030408296
VAT No. 310892249900003

مدين كانوا - ١ الدور - ٣ - طريق المدينة
٩٦٦ ١٢ ٢٢٢٢٢٧ - ٤ - مكبس ٩٦٦ ١٢ ٢٢٢٢٢٧
جدة - الملك العربية السعودية
٣٠٤ ٢٩٦٩ - م. س.ت
الرقم التسويقي ٣١٠٩٢٢٤٩٩٠٠٠٣



EJOT Limited Co.
Kingdom of Saudi Arabia

10/09/2025

Subject: Confirmation of Supply and Cooperation

Dear Modern Metal Works Co.

We are pleased to inform you of our acceptance to supply EJOT products to your esteemed company as per your request for the approved projects.

We have no objection to proceeding with the supply and look forward to cooperating with you to fulfill your requirements with the highest quality and within the agreed terms and conditions.

Thank you for your trust and cooperation

Sincerely,



Cover letters with our Suppliers



Dears /Modern Metal Works Co.

We are pleased to inform you of our acceptance to supply our products to your esteemed company as per your request for the approved projects.

We have no objection to proceeding with the supply and look forward to cooperating with you to meet your requirements with the highest quality and within the agreed timelines.

Thank you for your trust and cooperation.

With best regards,

[Saudi Rockwool Factory]

[Ahmad Tareq / Sales Engineer]

[7/10/2025]

[Signature & Stamp]




شركة مجال التثبيت التجارية
TECHNOFIX TRADING COMPANY

Att.: Modern Metal Works Company

Subject: Confirmation of Acceptance to Supply Products and Services

Dear Modern Metal Works Company,

We are pleased to confirm our acceptance to supply our products, along with technical and commercial support and services, to your esteemed organization, in line with your request for the approved projects.

We have no objection to proceeding with the supply and are committed to working closely with you to fulfill your requirements with the highest standards of quality and within the agreed timelines.

Thanks

Best Regards,

Technofix Company,

Eng. Yahya Shawar,

Chief Executive Officer

Dated: 13-10-2025




www.technofixsa.com
info@technofixsa.com

3382 Jeddah 22525
VAT 311104894300003

4030483680



7-Certified Service Providers

Certified Service Provider



- To deliver projects in partnership with our clients:
Safer, with zero loss time injuries. Better, with zero quality rejections



- Development and Construction is a leading pioneer in creating modern destinations. It is the owner and developer of Masar.



- A Smart Sourcing Platform Built for Construction Projects. Streamlining Procurement. Streamlining Procurement.

Certified Service Provider



- draw on our expertise to create an amazing world of joy, seeking a brighter tomorrow for Saudi entertainment.



- To continuously connect people, brands, and communities with spectacular experiences and iconic destinations



مجموعة بن لادن السعودية
SAUDI BINLADIN GROUP

- Perfected some values that guarantee high performance and a seamless flow between all the various stages of the working process.

Certified Service Provider



- Conceived to support and deliver urban solutions



- Where bold visions meet transformative investments.



Certified Service Provider



- Build a better future by delivering world-class construction services



- Provide certainty where failure in service is simply not an option.



8-Our Partners

Our Partners



KIN LONG
For Better Living



SunFrame
Facade System One Stop Solution



9- Our Suppliers

Our Suppliers (Aluminum Extruders)



Our Suppliers (Glass Manufacturer)



Our Suppliers

ALUCOBOND®

 **ALCO PANEL**
LIGHT COMMERCIAL COMPOSITE

somfy®

 **DORMA**

fischer 

TECHNofIX
FIXATION TECHNOLOGIES

HILTI

EJOT®

 Saudi Rock Wool الطوف الطيري الاسعوادي

STCC

 **MODERN
METAL WORKS**



Kingdom Of Saudi Arabia

Jeddah – As Salamah Dist. -Bld. 7626

Tel: +9662 422 4223

Mob: +966 556 600 297

Est@modern-mw.com

