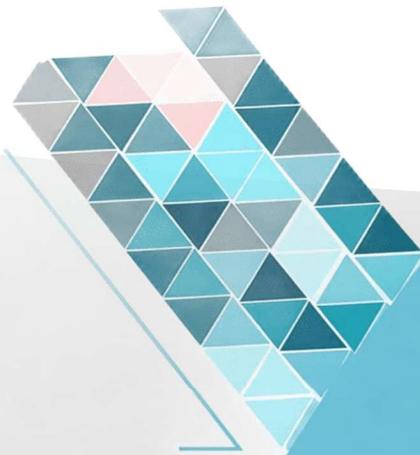


**MODERN**  
METAL WORKS



**2026**

**pre -  
Qualification**

# Index

1. Cover Page
2. Index
3. Profile
4. Official Papers
5. List of Machineries
6. Joint Ventures
7. Cooperation letters
8. Certified Service Providers
9. Our Partners
10. Our Suppliers



# 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.



MODERN  
METAL WORKS

# 3-Profile

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

<b>Handrail</b>	<b>Cat Ladders</b>	<b>Grill mesh</b>	<b>Louvers</b>	<b>pergolas</b>	<b>fence</b>
-----------------	--------------------	-------------------	----------------	-----------------	--------------

# 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

<b>BR5</b>	<b>BR5 NS</b>	<b>BR6</b>	<b>BR6 NS</b>	<b>BR7</b>	<b>BR7 NS</b>
------------	---------------	------------	---------------	------------	---------------

# 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

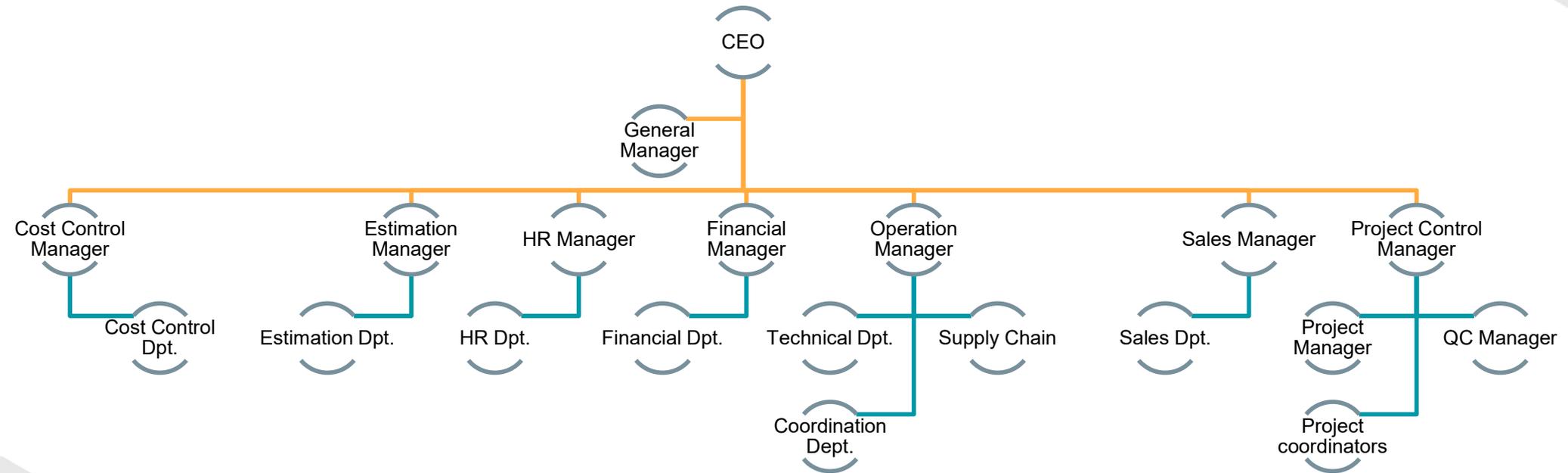
Management identifies and defines the processes and procedures essential for the effective operation of the quality management system. Adequate resources—including technology, machinery, materials, and personnel—are allocated and periodically evaluated to identify potential gaps and implement improvements. 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:** Riyadh

**Total Area:** 13,000 m<sup>2</sup>

**Contract Value:** 27,000,000 SAR

**Implementation Period:** 6 months



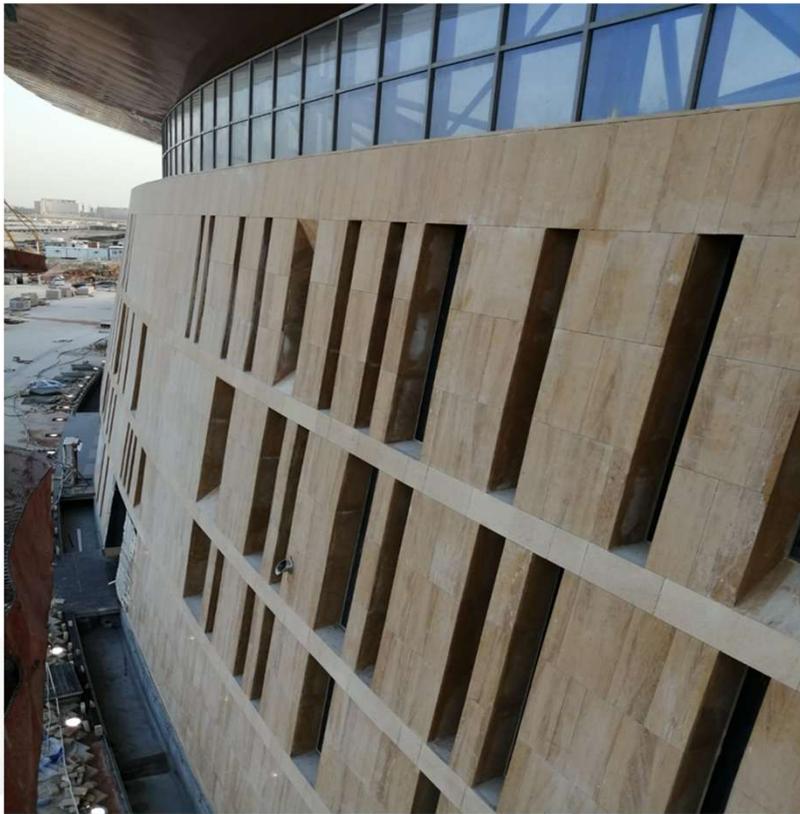
# Our Projects

## 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 m<sup>2</sup>

**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



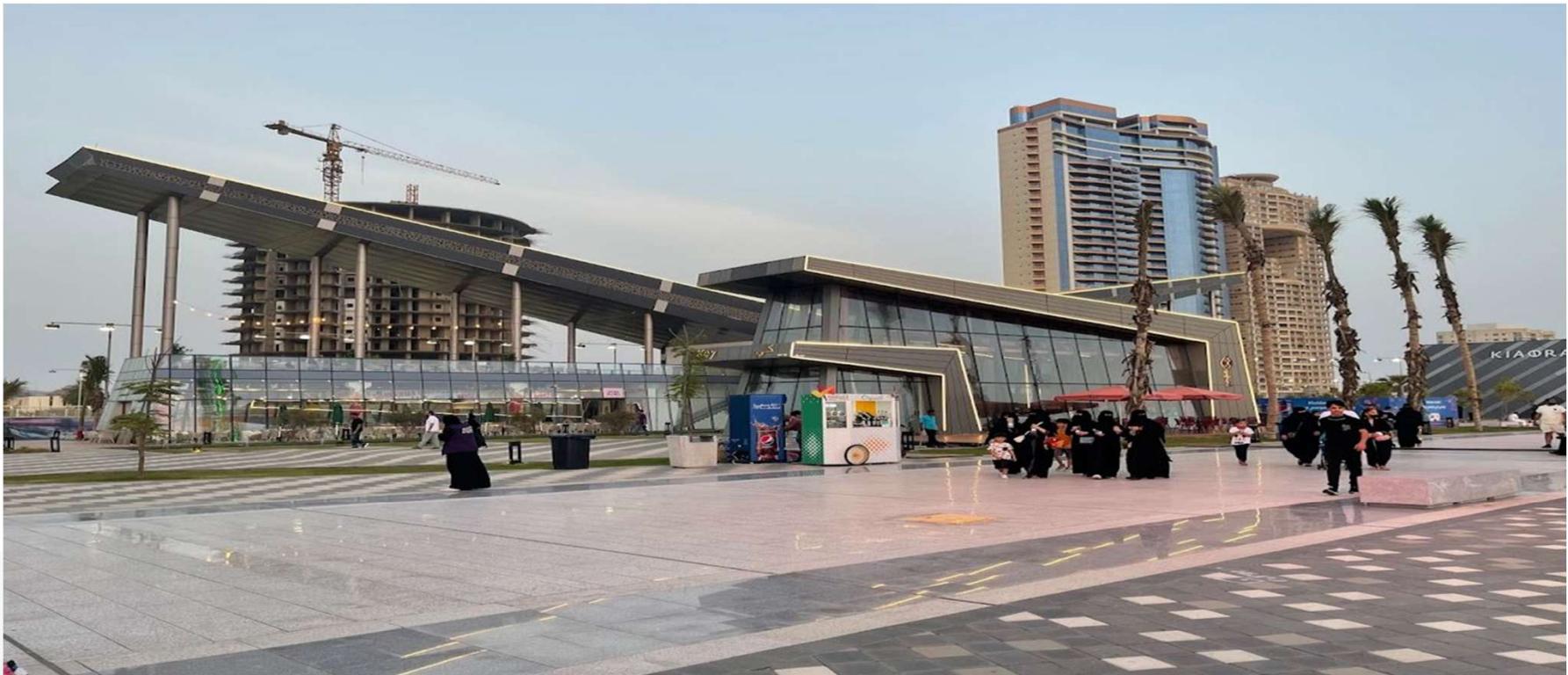
# Our Projects

## 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 m<sup>2</sup>

**Contract Value:** 750,000 SAR

**Implementation Period:** 2 months

# Certifications & Licenses



# Bulletproof Certificates



MODERN  
METAL WORKS



# H.P. White Laboratory, Inc.

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

## STANAG 4569 Testing – Test Report

Glass Shield FZ LLC  
P.O Box 35410

Client: Ras Al Khaimah  
UAE  
Attention: Mohammed Abu Taha

Date of report: 2 March 2015

Report prepared by: Ashley Gowland, Customer Operations Coordinator

Report reviewed by: Wesley Mason, Manager of Technical Operations - Hard Armor

Test method and supporting documentation: Per Customer Instructions  
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 Scarboro 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  
 HPWLI000003907E  
 2 March 2015  
 Attention: Mohammed 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 1 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 1: Ballistic Resistance, Summary of Results**

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

(a) Based on an average of four corner thicknesses  
 (b) 3 shots on a 120mm triangle



# H.P. White Laboratory, Inc.

Client : 3093: GLASS SHIELD FZ LLC.

## BALLISTIC RESISTANCE TEST

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 (Stagag)

Weight : 175.86 lbs.

Hardness : NA

Plies/Laminates : NA

Date Recd. : 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.

Range No. : 3

Temp. : 65 F

BP : 30.12 in. Hg

RH : 30%

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

Gunner : CHES

Recorder : TRAUTMAN

### AMMUNITION

(1): 7.62 X 54R, B32, 155 gr.

(2):

(3):

(4):

Lot No. : UNKNOWN

Lot No. :

Lot No. :

Lot No. :

### APPLICABLE STANDARDS OR PROCEDURES

(1): STANAG 4569 EDITION 1 (MODIFIED)

(2): LEVEL 3

(3): REQUIRED VELOCITY: 2736-2867 FPS.

Shot No.	Ammo.	Time 1 (usec)	Velocity 1 (ft/s)	Time 2 (usec)	Velocity 2 (ft/s)	Avg. Vel. (ft/s)	Penetration	Footnotes
1	1	3616	2765	3621	2762	2764	None	
2	1	3645	2743	3653	2737	2740	None	
3	1	3599	2779	3603	2775	2777	None	

REMARKS :

FOOTNOTES :





**Baden-Württemberg**  
Regierungspräsidium Tübingen

**Beschussamt Ulm e.V.**

**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)

**Typenbezeichnung**  
Product reference

**EN 1063 BR6 NS**

**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

Hiermit bestätigen wir, dass sämtliche zur Zertifizierung eingesetzten Prüfmittel, Messmittel und Hilfsmittel entsprechend dem akkreditierten System qualifiziert bzw. messtechnisch rückgeführt sind.  
We hereby confirm that all test devices, measuring tools and aids used for the certification are qualified or metrological traceable to the accredited system.

Zertifikate ohne Unterschrift und Dienstsiegel haben keine Gültigkeit. Dieses Zertifikat darf nur vollständig und unverändert weiterverbreitet werden. Auszüge oder Änderungen bedürfen der Genehmigung des Beschussamtes Ulm.  
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.

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



Dokument: SI 19-010 Genehmigungs-L Stand: 30.04.2020



Ulm, den 12.10.2021

**H. F. J. J. J. J. J.**  
Leiter der Zertifizierung  
Head of certification



**Baden-Württemberg**  
Regierungspräsidium Tübingen

# 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)

**Typenbezeichnung:**

Product reference:

**EN 1063 BR6 NS**



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



  
**S. Junger**  
Leiter der Prüfung  
Head of Examination

Seite 1 von 6 Seiten  
Page 1 of 6 pages

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

**Prüfbericht-Nr.:**  
Test report number:

S 21 0068 01 / B

Beschussamt Ulm 

## Allgemeine Angaben

General details

### Art der Probennahme:

Vom Antragsteller ausgewählt und angeliefert am 05.10.2021  
Chosen and delivered on 05.10.2021 (d.m.y.) by the Applicant

Taking of samples:

### Prüfer:

M. Günther

Tester:

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:

Art

Type

Prüflauf

Test barrel

Kaliber

Calibre

7,62 x 51 mm

Dralllänge

Twist length

305 mm

### Munition:

Ammunition:

Geschoss

Bullet

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 Geschoss-

geschwindigkeit:

Required bullet velocity:

830 ± 10 m/s

### Schussentfernung:

Test distance:

10 ± 0,50 m



### Versuchsaufbau:

Test setup:

Prüfmuster 90° (0° Nato) zur Schussrichtung befestigt

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

### Trefferbild:

Hit location:

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

Triangle 120 mm ± 10 mm (each sample)

Prüfbericht-Nr.:  
Test report number:

S 21 0068 01 / B

Beschussamt Ulm e. V.

## Details zum Gegenstand der Prüfung

Details to the item under test

**Art:**  
Sample description:  
VSG-Verglasung  
Laminated glazing

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

**Anzahl:**  
Number of samples:  
3

**Aufbau:**  
(Beginnend mit Angriffssseite)  
Composition:  
(Starting from the attack face)  
8,00mm GI<sub>0,76mm</sub> PVB 8,00mm GI<sub>0,76mm</sub> PVB 8,00mm GI<sub>1,26mm</sub> PU 3,00mm LX  
1,26mm PU 8,00mm GI<sub>1,26mm</sub> PU 3,00mm LX (Nennmaße / Nominal sizes)

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

**Sonstige Angaben:**  
Further information:

Prüfmustereinlagerung: 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

Prüfbericht-Nr.:  
Test report number:

S 21 0068 01 / B

Beschussamt Ulm e.V.

## Darstellung der Prüfergebnisse

Presentation of the test results

Probe Nr. Sample number	Schuss- folge Shot number	V <sub>2,5</sub> <sup>1)</sup> [m/s]	E <sub>2,5</sub> <sup>2)</sup> [Joule]	Auswertung <sup>3)</sup> Evaluation	Trefferabstände Hit distances
1 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
2 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
3 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<sub>2,5</sub> = Geschwindigkeit 2,5 m  
vor dem Prüfmuster  
Bullet velocity 2,5 m in front of the  
sample

2) E<sub>2,5</sub> = 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:  
Certificate issued:

Ja / Yes S 21 0068 01 / Z

Nein / No

Der Prüfbericht ist Grundlage für das erstellte Zertifikat.  
The test report is the basis for the issued certificate.

## Fotodokumentation

Photo documentation

Prüfmuster 1 / Test sample 1: 09215683



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

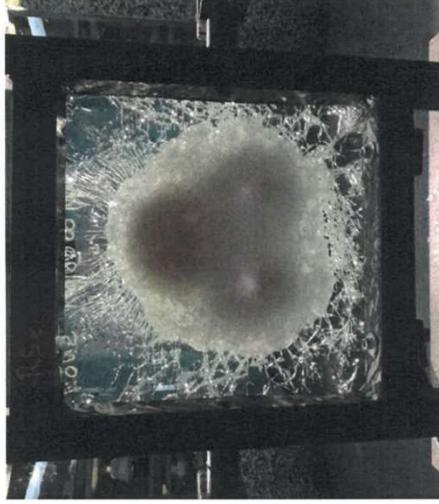


Foto / Photo: Beschussamt Ulm  
Nr. / No.: S 21 0068 01; B02

Prüfmuster 2 / Test sample 2: 09215722



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

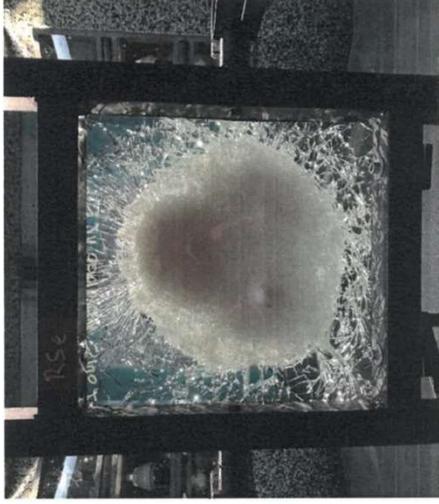


Foto / Photo: Beschussamt Ulm  
Nr. / No.: S 21 0068 01; B04

Prüfbericht-Nr.:  
Test report number:

S 21 0068 01 / B

Beschussamt Ulm e.V.

Prüfmuster 3 / Test sample 3: 09215643



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

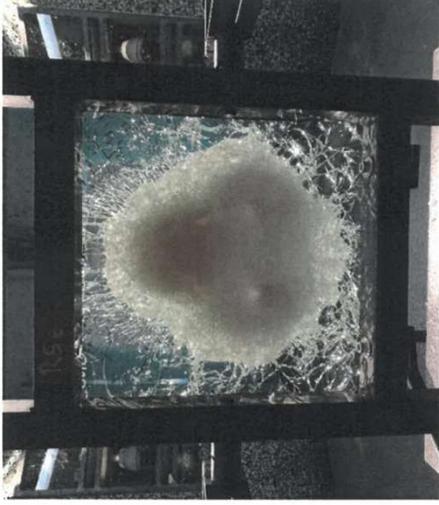


Foto / Photo: Beschussamt Ulm  
Nr. / No.: S 21 0068 01; B06



**Baden-Württemberg**  
Regierungspräsidium Tübingen

**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]

**Typenbezeichnung**

Product reference

GLASS SOLUTIONS LLC

Referenz / Reference: Sample 1-8

**Details siehe Prüfbericht-Nr.**

Details see test report number

S 23 0079 01 / B

**Erfüllt die Kundenspezifikation / Meets Applicant's specification**

Kaliber; Geschoss / Calibre; bullet: 7,62 x 39 mm; BZ; 7,70 Gramm / Gram  
Geschwindigkeit / Bullet velocity: 695 m/s ± 20 m/s  
Schussrichtung / Shooting direction: 90° / 0° Nato  
Prüfmuster Temperatur / Temperature test sample: +21° C

Hiertmit bestätigen wir, dass sämtliche zur Zertifizierung eingesetzten Prüfmittel, Messmittel und Hilfsmittel entsprechend dem akkreditiertem System qualifiziert bzw. messtechnisch rückgeführt sind.  
We hereby confirm that all test devices, measuring tools and aids used for the certification are qualified or metrological traceable to the accredited system.

Zertifikate ohne Unterschrift und Dienstsiegel haben keine Gültigkeit. Dieses Zertifikat darf nur vollständig und unverändert weiterverbreitet werden. Auszüge oder Änderungen bedürfen der Genehmigung des Beschussamtes Ulm.  
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 parts of the certificate is allowed only with the express consent of the Beschussamt Ulm.  
The test report is basis and part of the certificate.

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

Mitglied der VFAM



Ulm, den 31.10.2023

TONNIER  
Leiter der Zertifizierung  
Head of certification



Akkreditierte Prüf- und  
Zertifizierungsstelle

Dokument: St 51-020 Genehmigung: L Stand: 30.04.2020





**Baden-Württemberg**  
Regierungspräsidium Tübingen

## 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 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:

**GLASS SOLUTIONS LLC**  
Referenz / Reference: Sample 1-8



Mitglied der VPAM

Beschussamt Ulm  
Albstraße 74

89081 Ulm

Tel.: 0731-9 68 51-0  
Fax: 0731-9 68 51-99  
beschussamt@prt.bwl.de  
www.beschussamt.eu

Der Prüfbericht bezieht sich ausschließlich auf das zur Prüfung vorgestellte Prüfobjekt. Prüfberichte ohne Unterschrift und Dienstiegel haben keine Gültigkeit. Dieser Prüfbericht darf nur vollständig und unverändert weiterverbreitet werden. Auszüge oder Änderungen bedürfen der Genehmigung des Beschussamtes Ulm. Als rechtsverbindliche Fassung gilt nur die deutsche Ausfertigung.

Only the original test report stamped and signed by the Proof House is valid. This report may only be passed on in its entirety and without modification. The use of parts of this report is allowed only with the express consent of the Beschussamt Ulm. The German version is the only legally binding version.



Ulm, den 31.10.2023:

Akkreditierte Prüf- und  
Zertifizierungsstelle



  
S. Fringsinger  
Leiter der Prüfung  
Head of Examination

Seite 1 von 8 Seite  
Page 1 of 8 page

Document: SI 51-020 Genehmigungs-L Stand: 30.04.2020



Prüfbericht-Nr.:  
Test report number:

S 23 0079 01 / B

Beschussamt Ulm e.V.

## Allgemeine Angaben

General details

**Art der Probenahme:** Vom Antragsteller ausgewählt und angeliefert am 20.10.2023  
Taken and delivered on 20.10.2023 (dd.mm.yyyy) by the Applicant

**Prüfer:**  
Tester:

M. Güntner  
S. Junginger

**Teilnehmer:**  
Participants:

---

## Prüfvorgaben

Specification of the test

Munitionsart / Type of ammunition

**Waffe:**  
Weapon:

**Art**  
Type  
**Kaliber / Dralllänge**  
Calibre / Twist length  
7,62 x 39 mm / 240 mm

**Prüflauf**  
Test barrel

**Munition:**  
Ammunition:

**Geschoss**  
Bullet  
**Geschossgewicht**  
Bullet weight  
Vollmantel, Spitz, Hartkern-Brand; Typ: BZ  
Full jacket, pointed, hard core-incendiary; Type: BZ  
7,70 ± 0,10 Gramm / Gram

**Losnummer**  
Lot number

BaU 7.62BZ 1/6/5 L1

**Geforderte Geschoss-  
geschwindigkeit:**  
Required bullet velocity:

695 m/s ± 20 m/s

**Schussentfernung:**  
Test distance:

10 m



Prüfbericht-Nr.:  
Test report number:

S 23 0079 01 / B

Beschussamt Ulm e.V.

## Details zum Gegenstand der Prüfung

Details to the item under test

**Art:**  
Sample description:

VSG-Verglasung  
Laminated glazing  
500 x 500 x 60,90 mm [Istmaße / Actual sizes]

**Anzahl:**  
Number of samples:

8

**Aufbau:**  
(Beginnend mit Angriffsseite)

10,00mm Gl 0,76mm PVB 0,76mm PVB 10,00mm Gl 0,76mm PVB 8,00mm 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]

Composition:  
(Starting from the attack face)

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

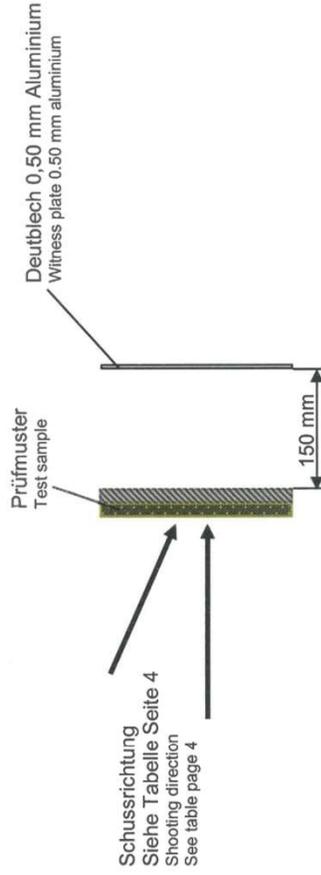
## Typenbezeichnung:

Product reference:

GLASS SOLUTIONS LLC

## Versuchsaufbau

Test setup



## Darstellung der Prüfergebnisse

Presentation of the test results

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

Prüfmustertemperatur  
Test sample temperature:  
+21° C

Trefferbild: Trefferdreieck 120 mm <sup>+20 mm</sup>

Hit location: Hit triangle 120 mm <sup>+20 mm</sup>

Probe Sample	Schuss- folge Shot number	Schuss- richtung Shooting direction	Trefferabstände [mm] Hit distances [mm]	V <sub>2,5</sub> <sup>1)</sup> [m/s]	E <sub>2,5</sub> <sup>2)</sup> [Joule]	Auswertung <sup>3)</sup> Evaluation
1 09231328	1.	90° 0° Nato	1 - 2 = 136	691	1838	PP RSe oM / DBI oM
	2.		1 - 3 = 137	693	1849	PP RSe oM / DBI oM
	3.		2 - 3 = 125	710	1941	PP RSe lBoR / DBI oM
2 09231327	4.		4 - 5 = 130	705	1914	PP RSe oM / DBI oM
	5.		4 - 6 = 135	696	1865	PP RSe oM / DBI oM
	6.		5 - 6 = 133	701	1892	PP RSe lBoR / DBI oM
3 09230850	7.		7 - 8 = 125	690	1833	PP RSe oM / DBI oM
	8.		7 - 9 = 125	693	1849	PP RSe oM / DBI oM
	9.		8 - 9 = 128	699	1881	PP RSe lBoR / DBI oM
4 09230849	10.		10 - 11 = 125	695	1860	PP RSe oM / DBI oM
	11.		10 - 12 = 120	691	1838	PP RSe oM / DBI oM
	12.		11 - 12 = 125	698	1876	PP RSe lBoR / DBI oM
5 09231416	13.		13 - 14 = 130	694	1854	PP RSe oM / DBI oM
	14.		13 - 15 = 120	691	1838	PP RSe oM / DBI oM
	15.		14 - 15 = 125	695	1860	PP RSe lBoR / DBI oM
6 09231073	16.		16 - 17 = 125	698	1876	PP RSe oM / DBI oM
	17.		16 - 18 = 125	697	1870	PP RSe oM / DBI oM
	18.		17 - 18 = 130	695	1860	PP RSe lBoR / DBI oM
7 09231074	19.		19 - 20 = 130	693	1849	PP RSe oM / DBI oM
	20.		19 - 21 = 130	693	1849	PP RSe oM / DBI oM
	21.		20 - 21 = 130	695	1860	PP RSe lBoR / DBI oM
8 09231326	22.		Einzelschuss / Single shot	695	1860	PP RSe oM / DBI oM

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

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

1) V<sub>2,5</sub> = Geschwindigkeit 2,5 m vor dem Prüfmuster  
Bullet velocity 2.5 m in front of the sample

2) E<sub>2,5</sub> = Geschossenergie 2.5 m vor dem Prüfmuster  
Bullet energy 2.5 m in front of the sample

3) PP = Teildurchdringung (Deutblech ohne Lichtdurchlass)  
Partial penetration (Witness plate without light)  
CP = **Komplette Durchdringung** (Ziel und Deutblech durchdrungen)  
**Complete penetration** (Sample and witness plate penetrated)  
o.W. = Ohne Wertung / Without evaluation

RSe = Rückseite der Probe / Rear side of the sample  
DBI = Deutblech / Witness plate

oM = ohne Merkmal / Without mark  
lBoR = 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

Prüfbericht-Nr.:  
Test report number:

S 23 0079 01 / B

Beschussamt Ulm e.V.

## Fotodokumentation

Photo documentation

Probe 1 / sample 1: 09231328



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



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

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; 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



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

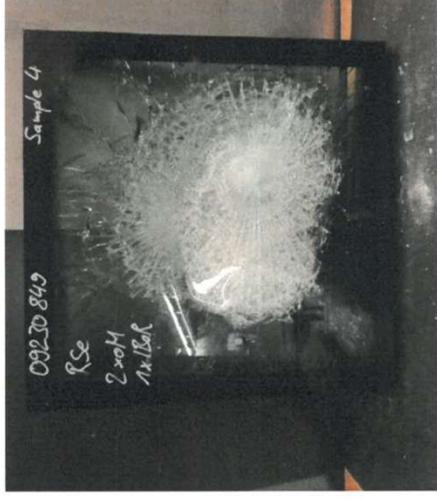


Foto / Photo: Beschussamt Ulm  
Nr. / No.: S 23 0079 01; B08

Prüfbericht-Nr.:  
Test report number:

S 23 0079 01 / B

Beschussamt Ulm e.<sup>ve</sup>

**Probe 5 / sample 5:** 09231416



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

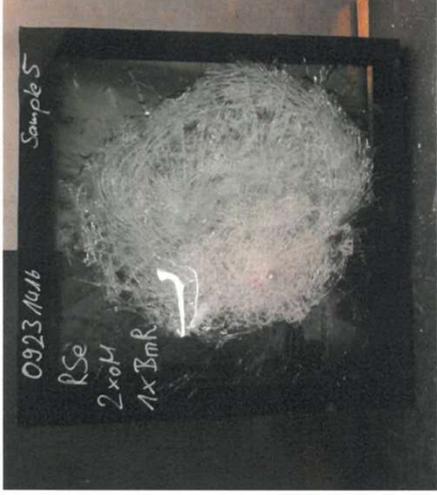


Foto / Photo: Beschussamt Ulm  
Nr. / No.: S 23 0079 01; B10

**Probe 6 / sample 6:** 09231073

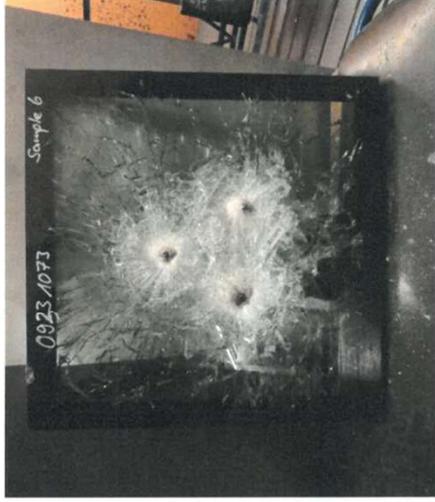


Foto / Photo: Beschussamt Ulm  
Nr. / No.: S 23 0079 01; B11



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

Prüfbericht-Nr.:  
Test report number:

S 23 0079 01 / B

Beschussamt Ulm e.<sup>ve</sup>

**Probe 7 / sample 7:** 09231074



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



Foto / Photo: Beschussamt Ulm  
Nr. / No.: S 23 0079 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**

This Summary Test Result relates only to the test specimens tested and should not be published or copied or distributed or reissued to any party whatsoever without the prior written permission of Jordan Design and Development Bureau

## 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. Riyadh Ali Ratrouf

Signature



Date

7 August 2023

**1. Test Data**

<b>Requester</b>	JODDB / Sales
<b>Contractor</b>	GLASS SHIELD INDUSTRIAL CO./ Warehouse No. W 8 Block 14, AQABA, JORDAN
<b>References</b>	<ul style="list-style-type: none"> <li>• Test and Evaluation Request No.1190 dated 03/07/2023</li> <li>• Test Proposal No. JODDB/TEST/BTE/TP/1190-1 Dated 01/08/2023 (See Appendix A)</li> </ul>
<b>Test Sample</b>	84.45mm Ballistic Glass/ S.N.11218743 / Size 1000x1000mm (See Photos No. 1)
<b>Manufacturer</b>	GLASS SHIELD INDUSTRIAL CO.
<b>Test Type</b>	Ballistic Resistance Test
<b>Test Standard</b>	Customized Special Test "0.50 Cal Ball M33 Bullet"
<b>Test Site</b>	Ballistic Testing Facility (JODDB)
<b>Samples Received Date</b>	31 <sup>st</sup> July 2023
<b>Test Temperature</b>	22 °C
<b>Test Weapon</b>	NATO Universal Ballistic Breccch with standard barrel: 12.7x99mm SN:3834
<b>Type of Bullets</b>	0.50 Cal Ball M33 Bullet Batch No.00307/H (See Photos No. 1)
<b>Test Equipment</b>	<ul style="list-style-type: none"> <li>• Doppler Radar SN.3503-13-270-011 (<math>\pm 0.4</math> m/s)</li> <li>• Digital caliper SN. 112167 (<math>\pm 0.05</math> mm)</li> <li>• Temp .Hum. Meter SN.95941255 (<math>\pm 0.3</math> °C)</li> <li>• Distance laser Measuring Device (Lacia) SN. 1030969032 (<math>\pm 2</math> mm)</li> </ul>
<b>Test Conducted By</b>	<ul style="list-style-type: none"> <li>• Eng. Ali Sardyah</li> <li>• Eng. Sameer Obaidat</li> <li>• Eng. Mohammad Akilan</li> <li>• Seiner Technician- Jalal Gulilat</li> <li>• Seiner Technician Hasn Debs</li> <li>• Technician Islam Al Qusashi</li> <li>• Technician Muath Anagrch</li> </ul>
<b>Test Date</b>	2 <sup>nd</sup> 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 P- Perforation NP- No Perforation
"0.50 Cal Ball M33 Bullet" @ 50m  Distance between shots 35±5 cm	1	926.3	NP
	2	917.7	NP
	3	910.6	NP
NP- No Perforation. See photos No.2			
<b>P- Perforation:</b> Perforation of the test Sample by the bullet or parts of the bullet or perforation of the witnessfoil.			
<b>NP- No Perforation:</b> No perforation of the test Sample by the bullet or parts of the bullet and No perforation of the witness foil.			

## RANGE EQUIPMENT & CONFIGURATION

### THE GUN

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

### VELOCITY MEASUREMENT

he projectile velocity was measured using Doppler Radar System at 1 m from the Striking Face with uncertainty .4 m/s

### STANCE MESUREMENTS

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.

### PLINIER 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 /m<sup>2</sup> 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 Khaima Port, Al Mairid Corniche, P.O Box  
 Phone: Phone: +971 7 2080092 / Mobile: +971 50 3170765

**Page 1 of 2****Ballistic Test Report**

Report Date: January 20, 2022  
 Contact: Lariza Dela Cruz  
 Email: rhiza02.glassolutions@gmail.com

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

**International Ballistic Standards / Specifications Testing**

ASTM  Canadian  FRA  NIJ  CFR Pass All  
 Australian  EN1063  Germ DIN  State Dept  CFR SYA  
 British  EN1522/23  MIL-SAMIT  UL 752  Other

Test Standard: European EN1063 [No Splinters]  
 Particular Test: EN BR7 [N5] [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

**Test Results**

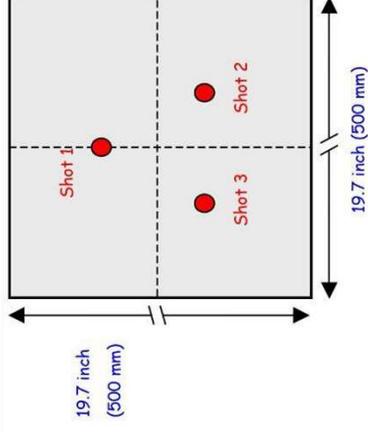
Test Sample: Sample 3  
 Item / Part Number: 3 / SR. 12219914  
 Date of Manufacture: January 7, 2022  
 Description: Bullet Resistant Glazing  
 Sample Size: 19.7 x 19.7 inch (500 x 500 mm)  
 Thickness: 3.060 inch (77.7 mm)  
 Weight: 97.2 lbs (44.1 kg)  
 Weapon Type: 7.62 NATO  
 Cartridge / Projectile 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)



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

**Test and Report Engineers**

Tested and Reported by: Sam Raheb

Signature: *Sam Raheb*

Date: January 20, 2022

Name: Glass Solutions LLC

Report Date: January 20, 2022

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.

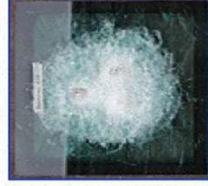
Sample 3: SR. 12219914 - D.O.M. January 7, 2022 - EN BR7 [NS] - 500 x 500 x 77.7 mm



Pre Test Impact Side



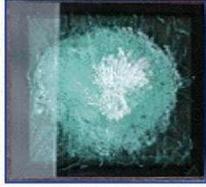
Pre Test Rear Side



Post Test Impact Side



Post Test Impact Side



Post Test Rear Side



Post Test Rear Side

Test and Report Engineers

Tested and Reported by: Sam Raheb

Signature: *Sam Raheb*

Date: January 20, 2022

Form: BTR22F-12 © 2/06 Close Focus Research

# Jadeer Certificate



MODERN  
METAL WORKS

جدير

منشآت  
monsha'at  
الهيئة العامة للمنشآت الصغيرة والمتوسطة  
Small & Medium Enterprises General Authority



## شهادة تأهيل

تشهد الهيئة العامة للمنشآت الصغيرة والمتوسطة "منشآت" بأن

شركة مودرن ميتالوركس

قد استكملت متطلبات التأهيل في خدمة جدير، وقد أعطيت هذه الشهادة بناءً على طلبها دون أدنى مسؤولية.

"يجب التحقق من خلال الباركود عن صلاحية الشهادة حيث أنه يتم تحديثها بشكل دوري"



18-Jan-2026

تاريخ التأهيل:

1972460246

رقم الشهادة:

7050493530

الرقم الوطني الموحد



\*تعد هذه الشهادة من الوثائق الحكومية الرسمية، ويحظر قطعياً تقليدها أو إدخال أي تعديلات عليها، كما تعرض صاحبها إلى الملاحقة النظامية أمام الجهات المختصة، وتعتبر لاغية في حال وجود أي كسح أو تعديل، دون أدنى مسؤولية على منشآت وما يترتب من أثر عليها، وتعتبر منشآت غير مسؤولة عن أي آثار أخرى مترتبة على الشهادة أو أي عملية تعديل أو تزوير على البيانات الواردة فيها

تاريخ انتهاء الشهادة يعتمد على أقرب تاريخ انتهاء لأحد المستندات.

المستندات الحكومية والمرفات الأخرى

# 4-List of Machineries

# List Of Machineries

<b>Machinerv and Equipment – Fabrication</b>	
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

<b>New Machinery and Equipment – Fabrication</b>	
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

<b><u>Machinery and Equipment – Fabrication</u></b>	
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

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

# 5-Official Papers

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

## إثبات عنوان Address Proof

### Address Holder Details

### بيانات صاحب العنوان

Name	شركة مدرن ميتالوروركس	الاسم
Company Modern Metalworks		
Customer Acc.	3 1 3 3 2 2 7 3 0 0 4 0	رقم الحساب
Reg. Date	27/7/2025	تاريخ التسجيل

### Address Details

### تفاصيل العنوان

Short Address	J E S A 7 6 2 6	العنوان المختصر
Building No.	7 6 2 6	رقم المبنى
Street	Ahmad Zeni	المشاع
Secondary No.	3 0 4 2	الرقم الفرعي
District	As Salamah Dist.	الحي
Postal Code	2 3 5 2 5	الرمزي البريدي
City	JEDDAH	المدينة
	Kingdom of Saudi Arabia	جدة
		المملكة العربية السعودية



للتحقق عنوان

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

تم إصدار هذا الإثبات إلكترونياً ولا يتطلب التوقيع عليه  
تم إصدار هذا الإثبات بناء على طلب الموضح أعلاه، ويحظر قطعياً تقليده أو إدخال أي تعديلات عليه سواء بالإضافة أو الحذف، وبعد الإثبات لانغيا إذا نشابه شيء من ذلك، كما يعرض صاحبه للمساءلة القانونية.

**This proof has been issued electronically and does not require a signature**

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.

## شهادة

### منشأة غير خاضعة لأحكام النظام

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

عدد المشتركين السعوديين	المجموع
رقم	
كتابة	

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 لتقدمه لآية جهة تطلبها، وهي صالحة لجميع الأغراض التي نصت عليها الفقرة (6) من المادة (التاسعة عشر) من نظام التأمينات الاجتماعية الصادر بالمرسوم الملكي رقم (م/33) بتاريخ 1421/9/3 هـ و المادة (العاشرة) من نظام التأمينات الاجتماعية الصادر بالمرسوم الملكي رقم (م/273) وتاريخ 1445/12/26 هـ .

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

الشهادة معتمدة من صاحب الصلاحية ولا تحتاج لتوقيع أو ختم  
عام Public



لتحقق من صحة وصلاحيه الشهادة عبر زيارة الرابط أدناه في الموقع الالكتروني للمؤسسة العامة للتأمينات الاجتماعية أو عن طريق استخدام الرمز المعرف التالي  
هذه الشهادة من الوثائق الالكترونية الحكومية الرسمية ويحظر قطعاً تقليدها أو إدخال أي تعديلات عليها سواء بالإضافة أو الحذف أو التغيير أو بنائها أو غير ذلك من أنواع التعديل. وبعد الشهادة لأغية إذا شأها مني من ذلك كما تعرض صاحبها للملاحقة الطارية أمام الجهات المختصة بالإضافة إل ما يفرضه نظام التأمينات الاجتماعية من عقوبات ولا يجوز تداول الشهادة إلا في القرائن التي أصدرت لأجلها وفقاً لأحكام النظام التأمينات الاجتماعية. والمؤسسة العامة للتأمينات الاجتماعية غير مسؤولة عن أي عملية تزوير أو تعديل تمس على البيانات الواردة فيها.



800124 3344  
gosi.gov.sa

المملكة العربية السعودية، الرياض 12622 - 8308 - حي الوزارات 3795  
Kingdom of Saudi Arabia, Riyadh 12622- 8308 Al Wizarat 3795



158273143100441

TIN 31,90869851 الرقم المميز  
Certificate No. 100251143100441 رقم الشهادة  
Certificate date 1447/01/02 هـ تاريخ الشهادة



هيئة الزكاة والضريبة والجمارك  
Zakat, Tax and Customs Authority

المملكة العربية السعودية  
Kingdom of Saudi Arabia

## شهادة تسجيل الزكاة

### Zakat Registration Certificate

The Zakat, Tax and Customs

تشهد هيئة الزكاة والضريبة

Authority certifies that the Taxpayer

والجمارك أن المكلف /

Company Modern Metalworks

Entity Unified No./ID No

7050493530

الرقم الموحد للمنشأة / رقم هوية

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

مسجل لديها بتاريخ 1447/01/02 هـ الموافق 2025م

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

(الثاني من محرم ألف و أربعمئة و سبعة و أربعون هجري)

Was granted this certificate to complete all transactions.

وقد منح هذه الشهادة لإتمام جميع معاملاته .

[www.zatca.gov.sa](http://www.zatca.gov.sa) يمكن التحقق من صلاحية الشهادة عبر موقع الهيئة

The validity of the certificate can be verified via the Authority's Website [www.zatca.gov.sa](http://www.zatca.gov.sa)



zatca.gov.sa 19993 @zatca\_sa

هذه الشهادة مستخرجة من النظام الآلي ولا تحتاج إلى توقيع  
و لا يعتد بهذه الشهادة إلا بعد التحقق من موقع الهيئة  
[www.zatca.gov.sa](http://www.zatca.gov.sa)



TIN 3150869851  
الرقم المعبر  
Certificate No. 100251146713332  
رقم الشهادة  
Certificate date 27/07/2025  
تاريخ الشهادة

هيئة الزكاة والضريبة والجمارك  
Zakat, Tax and Customs Authority

المملكة العربية السعودية  
Kingdom of Saudi Arabia

## شهادة تسجيل في ضريبة القيمة المضافة VAT Registration Certificate

تشهد هيئة الزكاة والضريبة والجمارك بأن المكلف أدناه مسجل في ضريبة القيمة المضافة بتاريخ ٢٠٢٥/٠٧/٢٧ 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 .احمد زبل. Jeddah, As Salamah Dist	عنوان المكلف
CR / License Contact / ID No	7050493330	رقم السجل التجاري / الرخصة / العقد / الهوية
Tax Period	Quarterly - سنوي	الفترة الضريبية
First Filing due date	2025/10/31	تاريخ استحقاق أول إقرار ضريبي

**ملاحظة:** كعمالين مسجلين في ضريبة القيمة المضافة، لا يجوز لكم تحصيل ضريبة القيمة المضافة من عملائكم قبل تاريخ نفاذ التسجيل في الضريبة. و في حال تبين غير ذلك ستقوم هيئة الزكاة والضريبة و الجمارك بتنفيذ الإجراءات المستحقة

**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



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19993 @zatca\_sa



صحة الوثيقة مستخرجة من النظام الآلي ولا تحتاج إلى توقيع  
و لا يعتد بهذه الشهادة إلا بعد التحقق من موقع الهيئة  
www.zatca.gov.sa



# شهادة السجل التجاري

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

البيانات الأساسية للسجل التجاري



7050493530



MODERN  
METAL WORKS

# 6-Joint Ventures

Actualities

# 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 ورکس  
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



C.R. 7050493530

☎ 0124224223 ✉ info@modern-mw.com

📍 Ahmed Zaiat As Salamah, Jeddah ٢٤٢٥

# Joint Ventures (SunFrame)

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

## Annual Capacity

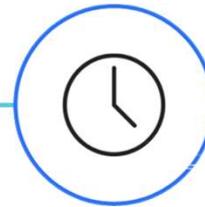
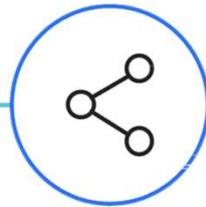
Extrusion: 100,000 ton  
Facade Fabrication: 500,000sqm

## Staff

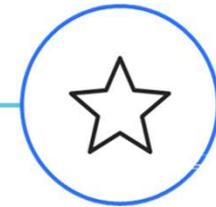
Over 200 Senior and Intermediate  
technical engineers;  
over 1000 Staff & Workers



**Production  
Area Over**  
200,000 sqm



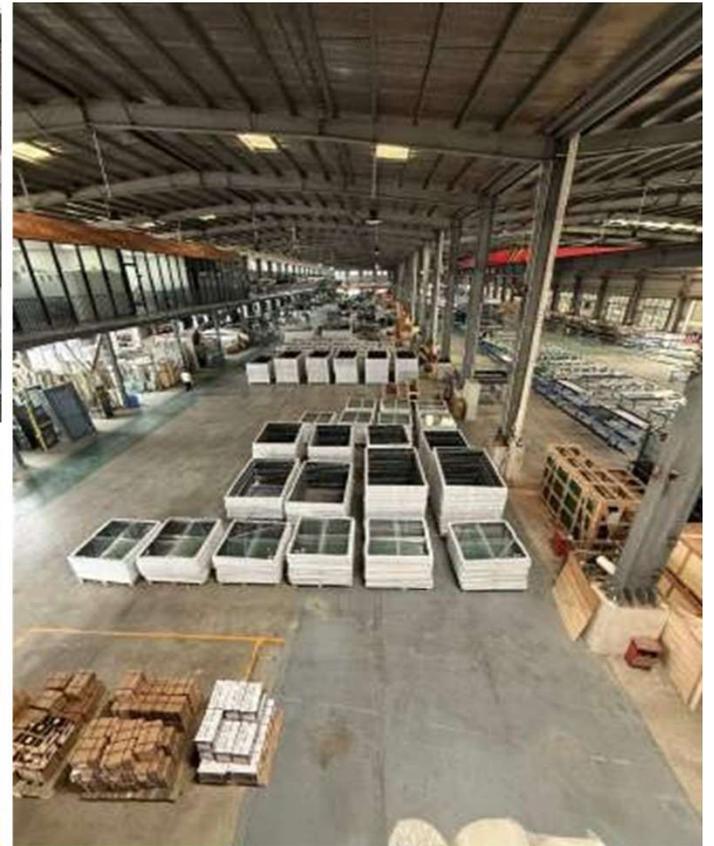
**Alu Products Standards**  
National GB5237 ISO9001;ISO14001;  
OHSAS18001 Japanese JISH4100;  
JISH8601; JISH 8602;JISH8601; JISH 8602;  
US AAMA 2603; AAMA2604; AAMA2605; UK  
BS6496;



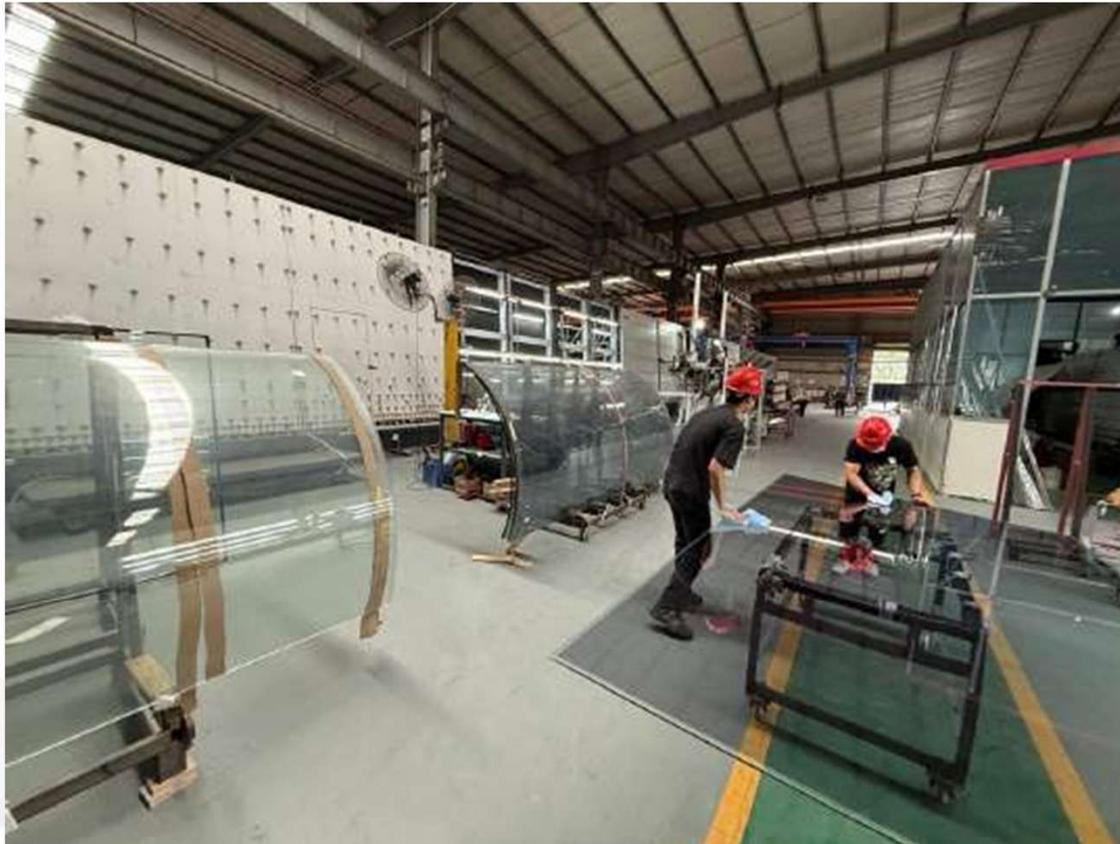
# SunFrame Locations



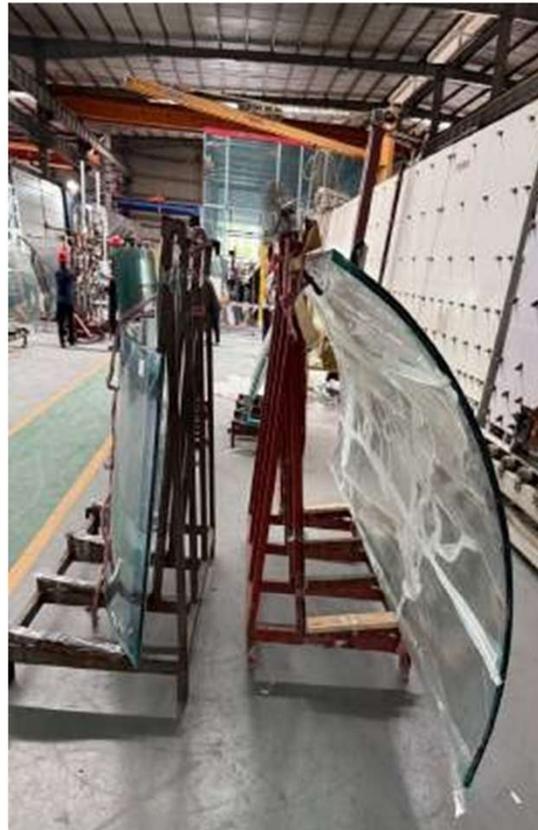
# SunFrame Fabrication Area



# 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







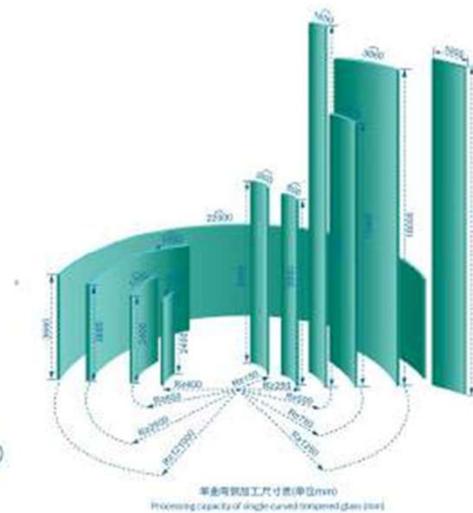
# Type Of Glass Works

## Single Curved Glass

Composite processing technology	Digital printing glass	Flat and curved tempered glass	Laminated Glass	Insulated Glass
Maximum Process Size		$\widehat{3660 \times 18000\text{mm}}$	$\widehat{1650 \times 24000\text{mm}}$	
Maximum Load		700 KG/m <sup>2</sup>		
Minimum U Value w/ m <sup>2</sup> .°C		0.76		



单曲(凸)弯钢化最大加工尺寸(单位mm)  
Processing capacity of single curved tempered glass(mm)



单曲弯钢化加工尺寸(单位mm)  
Processing capacity of single curved tempered glass(mm)



# 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		$\widehat{\quad} 3660 \times \widehat{\quad} 13000 \text{mm}$		
Maximum Load		$700 \text{ KG/m}^2$		
Minimum U Value w/ $\text{m}^2 \cdot ^\circ\text{C}$		$0.76$		



Ruci Museum, China

# Type Of Glass Works

## Semi Circular Curved Tempered Glass

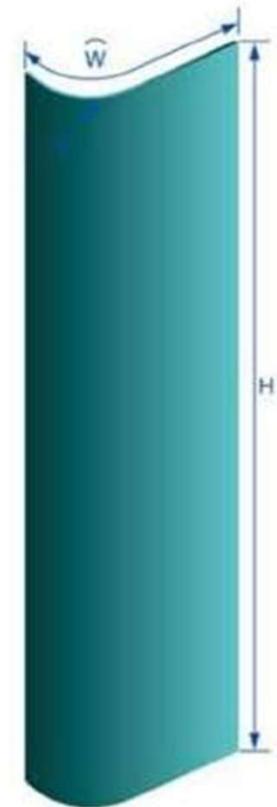
Capable of processing		
R	W	H
150mm	471mm	5000mm
250mm	785mm	5000mm
500mm	1571mm	24000mm
750mm	2356mm	13000mm
1250mm	3660mm	18000mm



# 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

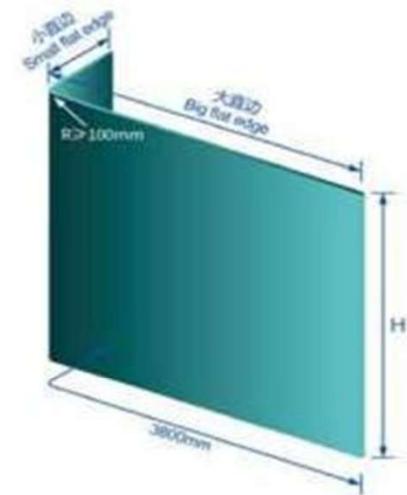
Capable of processing		
R	W	H
150mm	471mm	5000mm
250mm	785mm	5000mm
500mm	1571mm	24000mm
750mm	2356mm	13000mm
1250mm	3660mm	18000mm



# Type Of Glass Works

## L-Shaped Curved Tempered Glass

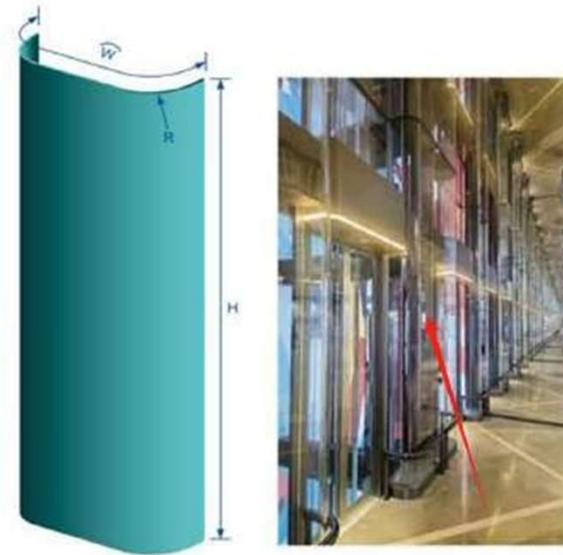
Capable of processing		
Small flat edge	Big Flat Edge	H
$300\text{mm} \leq \text{edge} \leq 1200\text{mm}$	$300\text{mm} \leq \text{edge} \leq 2600\text{mm}$	$\leq 10000\text{mm}$



# Type Of Glass Works

## U-Shaped Curved Tempered Glass

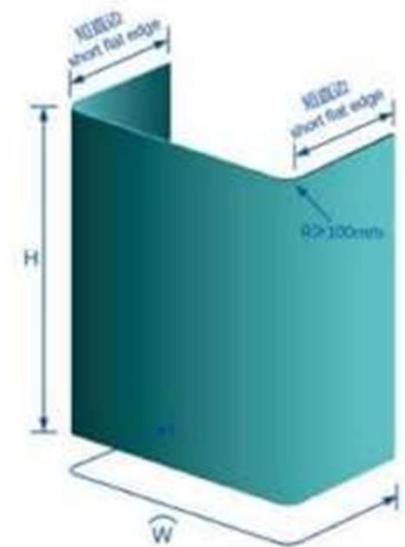
Capable of processing		
R	W	H
500mm	3300mm	5000mm
500mm	3660mm	3660mm
500mm	5000mm	3660mm
500mm	6000mm	3660mm
500mm	8000mm	3660mm
500mm	10000mm	3660mm
500mm	1650mm	24000mm
750mm	2400mm	13000mm
1250mm	3660mm	18000mm



# Type Of Glass Works

## C-Shaped Curved Tempered Glass

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



# Types Of Aluminum Works

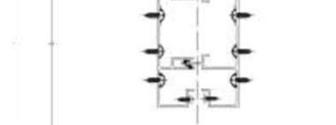
## UN 150

### UNITIZED CURTAIN WALL

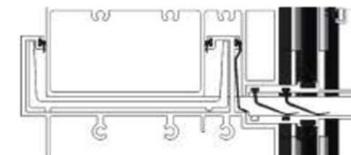


*Thermal Break/ Enhanced Stability / Convenience / Waterproof*

## PERFORMANCE CHARACTERISTICS



*Yin and Yang mosaic connection enhance stability*



*Four-layers waterproofing design*



U-Value:  
↑ to 1.5W/(m<sup>2</sup>·K)



Sound Insulation  
↑ to 52 dB



Wind load Resistance  
±1.40kPa / ±2.10kPa



Air permeability  
±300 Pa



Light Reduction



Water Resistance



Light Transmittance



Thermal Break



Quick Installation

Glazing Options: 24-60mm thk

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

**UN 150 construction schedule**



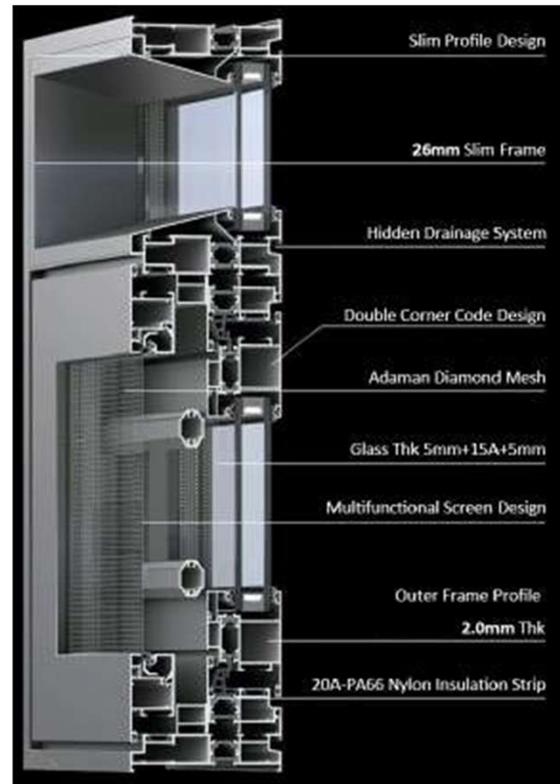
**Site built construction schedule**



# Types Of Aluminum Works

## ULTRA-106

### 26MM ULTRA SLIM CASEMENT WINDOW



Water resistance 600 Pa



Full screen window mesh  
enhanced ventilation



Thermal Break System



Noise Reduction over 40dB

# Types Of Aluminum Works

## 140A



### 17MM MINIMALIST SLIDING WINDOWS

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



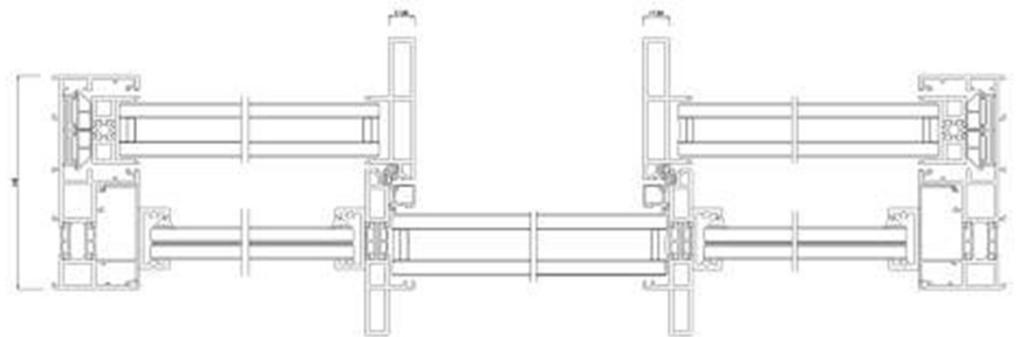
Hollow Aluminum Strip with  
Molecular Sieve Embedded  
Window Leaf

**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**

*TILT & TURN THERMAL  
BREAK CASEMENT WINDOW*

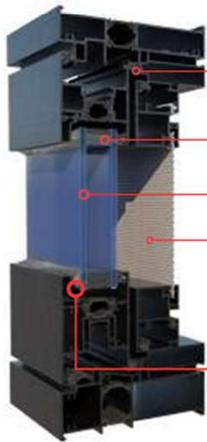


Technical Parameters			
Viewing Surface Width	Profile Occupies Space	Glass Configuration	Profile Wall Thickness
Frame - 56mm Mullion - 78mm Opening - 56mm	Frame - 121mm Mullion - 170mm Opening - 61mm	5mm+18A+5mm 5mm+12A+5mm+12A+5mm	1.8mm-3.0mm

# 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

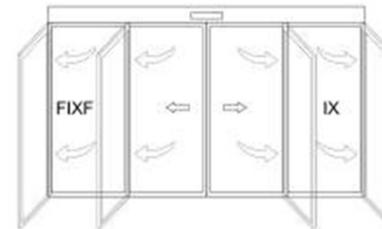
2100-3000

No. of Slidable Panel

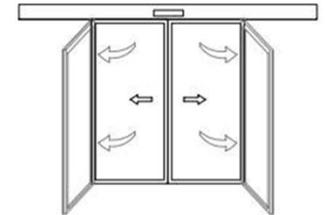
1 or 2 panels

Emergency Exit Door

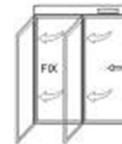
2 or 4 panels



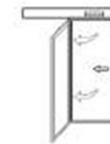
Double Translation Four Automatic Escape Doors



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**



Certified Product  
Australian  
Standard



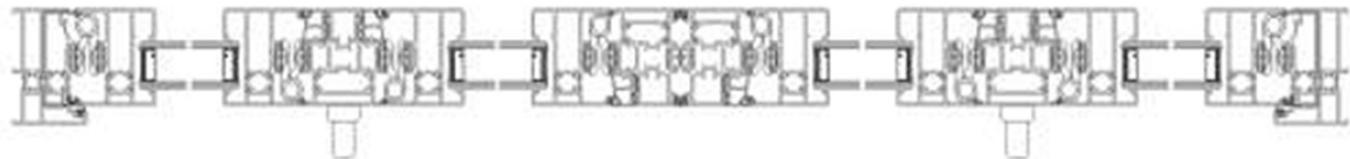
**6063 aviation - grade virgin aluminum**  
Resistant to corrosion, offers excellent durability and strength

**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**



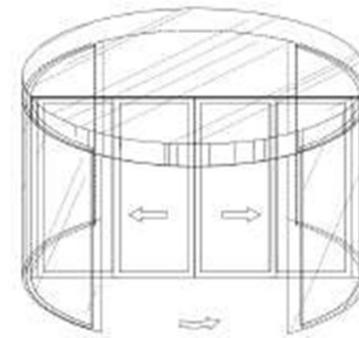
# Types Of Aluminum Works

## AUTOMATIC DOOR SERIES

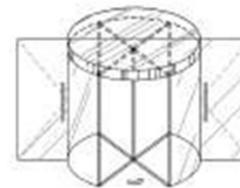
### AUTOMATIC REVOLVING DOOR SERIES



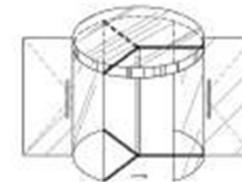
Description	Parameter
Style	2/3/4 wings revolving door
Door Panel Height	≤2500 mm
Min. Radius	≥1500 mm (Recommend)
Door Sill Height	300 mm
Door Frame Material	Stainless steel Aluminum alloy



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



مودرن ميتال ووركس  
MODERN METAL WORKS

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



# 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



مودرن ميتال ورکس  
MODERN METAL WORKS

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*



Kin-Long Management



C.R: 7050493530

☎ 0124224223 ✉ info@modern-mw.com

📍 Ahmed Zaia, As Salamah, Jeddah 7626

# 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



مودرن ميتال ووركس  
MODERN METAL WORKS

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,

General Manager

Eng. Kenan Ramadan

Eng. Kenan



Max Beam Management



C.R: 7050493530

0124224223 info@modern-mw.com

Ahmed Zaiaf As Salamah Jeddah 7000

# 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 ورکس  
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

Eng. Kenan Ramadani



C.R: 70504935  
0124224223 info@modern-mw.com  
Ahmed Zaia. As Salamah. Jeddah 7000

Structure Style Management



# 7-Cooperation letters

# Cooperation letters with our Suppliers



Dears/Modern Metal Works Co.

OCT 8<sup>th</sup> 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)



Kenoo Building 1 - 3rd floor - Madinah Road  
Tel. +966 12 2036237 - Fax +966 12 263 2901  
Jeddah - Kingdom of Saudi Arabia  
L.L.C. C.R. 4030408296  
VAT No. 310892249900003

مبنى كانو ١ - الدور ٣ - طريق المدينة  
هاتف +٩٦٦ ١٢ ٢٠٣٦٢٣٧ - فاكس +٩٦٦ ١٢ ٢٦٣٢٩٠١  
جدة - المملكة العربية السعودية  
ذ.م.م. سجل تجاري ٤٠٣٠٤٠٨٢٩٦  
الرقم الضريبي ٣١٠٨٩٢٢٤٩٩٠٠٠٠٣



EJOT Limited Co.  
Kingdom of Saudi Arabia

10/09/2025

**Subject:** Confirmation of Supply and Cooperation

Dears /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,

EJOT Saudi Arabia



Bringing it together.

# Cooperation 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.

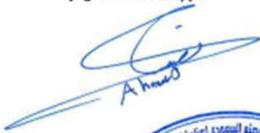
With best regards,

[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.technofixksa.com

info@technofixksa.com

3382 Jeddah 22525

VAT 311104894300003

4030483680



MODERN  
METAL WORKS

# 8-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



NEOM S.C.

صندوق  
الاستثمارات  
العامّة  
PUBLIC INVESTMENT FUND



روشن  
ROSHN

- Conceived to support and deliver urban solutions

- Where bold visions meet transformative investments.

- Transforming the urban landscape and enhance the quality.

# Certified Service Provider



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



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



- Deliver excellence in the construction and contracting industry.

## Certified Service Provider



- Find solutions to the challenges of today to help our customers achieve their ambitions.



- Dedicated urban development and creating opportunities.



- To elevate the property experience by delivering distinctive, valuable real estate services.

## Certified Service Provider



**NEW MURABBA**

- Boldly push the boundaries of technology and development.



- Quality, Safety, Functionality, and Aesthetics.



البواني  
AL BAWANI

- Be leading diversified group in the region with sustainable growth.

# Certified Service Provider



An integrated sector aimed to provide digital services and solutions to individual and business segments by creating a unique experience for clients and partners with added value



MODERN  
METAL WORKS

# 9-Our Partners

# Our Partners



# 10- Our Suppliers

# Our Suppliers (Aluminum Extruders)

**ALUPCO**  
WHERE VISION TAKES SHAPE 

**SunFrame**  
Facade System One Stop Solution

**SCHÜCO**

  
GUTMANN

**ALUK<sup>®</sup>**

  
**TECHNAL**  
By  Hydro

مجموعة الخريير  
AL GHURAIR GROUP



# Our Suppliers (Glass Manufacturer)



# Our Suppliers



**ALUCOBOND®**



**somfy®**



**fischer** 

**TECHNOFIX**  
FIXATION TECHNOLOGIES

**HILTI**

**EJOT®**

Saudi  
**Rock wool** الطوف  
الصخري  
السعودي

**SICC**



**Kingdom Of Saudi Arabia**  
**Jeddah – As Salamah Dist. -Bld. 7626**  
**Tel: +9662 422 4223**  
**Mob: +966 556 600 297**  
**[Est@modern-mw.com](mailto:Est@modern-mw.com)**