

# **Pre-Qualification**TABLE OF CONTENTS

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## ر خصة تحاربة **Commercial License**

تفاصيل الرخصة / License Details

رقم الرخصة License No. 737592

> اسبيكترو للتجارة العامة اسم الشركة

Company Name **ESPECTRO GENERAL TRADING** 

> اسبيكترو للتجارة العامة الاسم التجاري

**Business Name ESPECTRO GENERAL TRADING** 

دائرة التنمية الاقتصادية فئة الرخصة **License Category Dep. of Economic Development** 

**Legal Type** Limited Liability Company - Single Owner(LLC - SO) شركة ذات مسؤولية محدودة - الشخص الواحد (ذ.م. الشكل القانوني

**Expiry Date** 29/06/2026 تاريخ الإنتهاء Issue Date 30/06/2015

D&B D-U-N-S ® No الرقم العالمي رقم الرخصة الام Main License No. 737592

رقم السجل التجارى Register No. 1746339 DCCI No. 255650

الاطراف / License Members

تاريخ الإصدار

عضوية الغرفة

الصفة / Role الحصص / Share الجنسية / Nationality رقم الشخص/.No الإسم / Name محمد نايف عبدالله الهريس مالك / Shares Owner United Arab Emirates / 111602 حصص الامارات

**MOHAMMAD NAYEF ABDULLA** 

مدیر / Manager سوریا / Syria محمد تيسير ضياء الدين بقاعي 1026323

**MOHAMMAD TAYSEER DIAA ELDIN** 

**BOUKAI** 

نشاط الرخصة التحارية / License Activities

Activity		Status	الحالة		النشاط
General Trac	ding	Active	فعال		تجارة عامة
					العنوان / Address
Phone No	971-4-5759272	تليفون	P.O. Box	52913	صندوق بريد
Fax No		فاكس	Parcel ID	346-489	رقم القطعة
Mobile No	971-50-6268665	هاتف متحرك		mohamed.mgn26@gmail.com	البريد الإلكتروني / Email

مكتب رقم 2203-138-ملك احمد على على اكبر كلجين خرازي-الخليج التجاري

**Print Date** 02/07/2025 تاريخ الطباعة 18:28 Receipt No. رقم الإيصال

THE EMIRATES

يمكنك الآن تجديد رخصتك التجارية من خلال الرسائل النصية القصيرة، أرسل رقم الرخصة إلى 6969 (دو/ اتصالات) للحصول على اذن الدفع.

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وثيقة إلكترونية معتمدة وصادرة بدون توقيع من دائرة الاقتصاد والسياحة في دبي المراجعة صحة البيانات الواردة في الرخصة يرجى مسح رمز الاستجابة السريعة





## شهادة تسجيل لضريبة القيمة المضافة في الامارات العربية المتحدة Certificate of Registration for Value Added Tax in the United Arab Emirates

The Federal Tax Authority certifies that the entity below is a registered person for Value Added Tax in the UAE

تشهد الهيئة الاتحادية للضرائب أن الجهة التالية مسجلة لضريبة القيمة المضافة في الامارات العربية المتحدة

Full Arabic legal name	اسبيكترو للتجارة العامة	الاسم القانوني الكامل باللغة العربية
Full English legal name	ESPECTRO GENERAL TRADING	الاسم القانوني الكامل باللغة الانجليزية
Registered address	Office 201, Mamzar, Deira, Dubai, Dubai, United Arab Emirates, 52913, +97143142000	العنوان المسجل

Tax Registration Number100261630600003100261630600003Effective Registration Date01/01/2018تاريخ التسجيل الفعلي

First VAT Return Period	01 Jan 2018 - 31 May 2018 and quarterly	فترة أول إقرار لضريبة القيمة المضافة

<u>thereafter</u>

تاريخ استحقاق إقرار ضريبة القيمة المضافة <u>28 Jun 2018</u>

Start and end dates of Tax periods: 1 Mar to 31 May, 1 Jun to 31 Aug, 1 Sep to 30

Nov, 1 Dec to 28/29 Feb

يرجى التأكد من صحة تفاصيل الشهادة. يجب إبلاغ الهيئة الاتحادية للضرائب في حال تغيير الاسس التي حصلت فيها على رقم التسجيل الضريبي الخاص بك.

Please check that the details on this certificate are correct. You must inform the Federal Tax Authority of any change on the basis of which you obtained your Tax Registration Number.





## SYSTEMS CERTIFICATION INTERNATIONAL

Leaders in **ISO Management**System Certification

## CERTIFICATE

This is to Certify that the

Environmental Management System of

## **Espectro General Trading**

Office 201, Mamzar, Deira, Dubai, United Arab Emirates, 52913,

Has been independently assessed and is compliant with the requirements of:

ISO 14001:2015

For the following scope of activities:

## Supply & Installation of Prefab Modular Cabins

Certificate Number: AE-13283 EC

Date of Initial Registration 07/08/2025
Date of this Certificate 07/08/2025
Certificate Validity 07/08/2028
Recertification Date 07/08/2028

Junio

Jennifer Dean
On Behalf of Certification Approval Panel
System Certification International







This Certificate is the property of Systems Certification International and must be returned on request. The Validity of this Certificate can be verified at www.systemscertification.com or through info@systemscertification.com. This certificate will be valid once Surveillance Audits are Satisfactorily Completed. Systems Certification International is assessed as a System Assessment Body for Compliance with ISO 17021:2015. Certificate holders are listed in the International Register of Quality Assessed Organization (IRQAO) / Address: 8 The Green, Dover, DE, 19901, United States/ Website: www.irqao.com



## SYSTEMS CERTIFICATION INTERNATIONAL

Leaders in **ISO Management**System Certification

## CERTIFICATE

This is to Certify that the

Occupational Health & Safety Management System of

## **Espectro General Trading**

Office 201, Mamzar, Deira, Dubai, United Arab Emirates, 52913,

Has been independently assessed and is compliant with the requirements of:

ISO 45001:2018

For the following scope of activities:

## Supply & Installation of Prefab Modular Cabins

Certificate Number: AE-13283 OHS

Date of Initial Registration 07/08/2025
Date of this Certificate 07/08/2025
Certificate Validity 07/08/2028
Recertification Date 07/08/2028

Jennifer Dean
On Behalf of Certification Approval Panel
System Certification International







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## SYSTEMS CERTIFICATION INTERNATIONAL

Leaders in **ISO Management**System Certification

## CERTIFICATE

This is to Certify that the

Quality Management System

## **Espectro General Trading**

Office 201, Mamzar, Deira, Dubai, United Arab Emirates, 52913,

Has been independently assessed and is compliant with the requirements of:

ISO 9001:2015

For the following scope of activities:

## Supply & Installation of Prefab Modular Cabins

Certificate Number: AE-13283 QC

Date of Initial Registration 07/08/2025
Date of this Certificate 07/08/2025
Certificate Validity 07/08/2028
Recertification Date 07/08/2028

Jennifer Dean
On Behalf of Certification Approval Panel
System Certification International







This Certificate is the property of Systems Certification International and must be returned on request. The Validity of this Certificate can be verified at www.systemscertification.com or through info@systemscertification.com. This certificate will be valid once Surveillance Audits are Satisfactorily Completed. Systems Certification International is assessed as a System Assessment Body for Compliance with ISO 17021:2015. Certificate holders are listed in the International Register of Quality Assessed Organization (IRQAO) / Address: 8 The Green, Dover, DE, 19901, United States/Website: www.irqao.com



## **TECHNICAL DATA SHEET**

Fabrication, Supply, Delivery, Commissioning and Handing Over of Prefabricated Aluminum Curve Security Cabin complete with Doors, Windows including Staircase, Handrails, Electrical, Plumbing, Sanitary Ware, Wooden Desk, Finishes, Accessories, Fittings, etc. \_all as per the Main Contractor, Engineer, Employer and Concerned Authority approval.

## **Specifications:**

**Dimension:** 2.5m (W) x 5.5m (L) x 4.0m (H)

## **Steel Structure:**

- Anti-Rust Coated ASTM MTC-MS Tubes 100 x 50mm Main Frame Structure from **KSA/Oman**.
- Anti-Rust Coated ASTM MTC-MS Tubes 50 x50 Support for Structure from **KSA/Oman**.
- Anti-Rust Coated ASTM MTC-MS Base Plate for Anchor Bolt fixation on steel tube legs.

## Flooring:

- 0.7mm thick GI Sheet + 12mm Marine Plywood + 12mm Cement Flooring finish with 2mm thick Vinyl Flooring from **Germany** and 10m H Vinyl Skirting from **Turkey**.

## **Internal & External Walls Cladding:**

- 4mm thick FR Aluminum Composite Cladding, Glossy White (internal) and external to be selected (from **USA**) with 50mm thick Rockwool insulation (**UAE**) with a density of 48kgs/m3 and SS Brush Finish Strips Gr. 304, 4cm x 0.8mm as per design (for external) from **Taiwan**.

## **Roof & Ceiling:**

- FR Flat Sandwich Panel Roofing with 50mm thick and density of 48kg/m3 (**UAE**) sealed with 2x coats Terraco Waterproofing **(Spain)**
- $60 \times 60 \times 2$ cm Gypsum thick frosted false ceiling (**Donn \_KSA**) with 50mm thick Rockwool insulation (48kgs/m3) (UAE)

#### **Doors & Windows:**

- Aluminum Framed Powder Coated Profile from **Gulf Extrusions**.
- 6mm thick Bronze Tinted Tempered Single Glazed Glass Sliding Window/Door from **Guardian-UAE**.
- 6mm thick Bronze Tinted UV Reflective Polycarbonate sheet unbreakable for round fixed front window (**Germany**) or Clear Glass Tempered (**Belgium**).

#### **Plumbing (Sanitary and Fittings):**

- RAK Ceramic / Milano Sanitary and Fittings (UAE) (Floor Mounted Stand Wash Basin, 6mm Guardian Mirror, Hand Towel, Soap Dispenser, Tissue Holder, Shataf/Hand Bidet-RAK / Milano, WC Std., SS 316 Grade Floor trap Cover, Heavy Duty Hot / Cold Mixture & Milano Automatic Hand, Dryer
- RAK PPR Thermal concealed piping for water inlet.
- Atlas PVC piping for drainage concealed.
- GRP/PVC drainage and water storage tanks 400 lit., (1 x 0.8 x 0.6m, 30cm freeboard)
- Ceiling Type Exhaust Fan with 125CFM Air Flow till Roof 6-inch Elbow (KDK/Kenwell).

#### **Electrical:**

- Single Phase cabling concealed (Ducab-UAE)
- LED Lighting as per specs
- Black Matt Color switches and sockets with USB (Novex UK)



## METHOD STATEMENT

Project Name	Construction of Live Stock Facility in the Khalifa Port Logistics, Abu Dhabi
	(Contract No. 2101-284)
Employer	M/s Abu Dhabi Ports Company (PJSC)
Engineer	M/s AMAR Golden Design LLC
<b>Main Contractor</b>	M/s Asia Prime General Contracting Co. L.L.C. (Asia-Prime)
<b>Sub Contractor</b>	M/s Espectro General Trading
Asia-Prime Job No.	ADJ-22000043 (J-43)
Subject	Prefabricated Aluminum Curve Security Cabin Works

## **General Description**

This method statement covers the various methods utilized to Supply & Install the Modular Cabin as per client guidelines and manufacturer standards.

## **Equipment for Prefabricated Unit Finishing Works at Site:**

Power Tools & Cordless Tighter

#### Materials at the Site

2.3.1 Low Bed Trailer shall be arranged by Espectro for delivery of the unit at the site. Client to provide a minimum 100 Ton Crane for Offloading the unit.

## **Planning & Preparation**

✓ After commencing the Supply & Installation of Prefab Cabins production activities, necessary approval from the concerned shall be obtained.

#### **Work Methodology**

- ✓ Site Planning & preparing the Shop drawings for approval and making execution drawings for the site.
- Purchase request: before making the requests all stock materials & tools availability will be checked.
- ✓ Production order: will be issued after all drawings are approved. Order will be included all the drawings and specs. & Quantities of the materials & tools for the project.
- Program Planning: will be made by the project Engineer, for each activity, materials, workers, date & task related to the project.
- ✓ Work report: daily QC & Production reports will be maintained.
- ✓ All drawings/designs are controlled & followed up. All designs/drawings with updated copies are distributed via email to the manager, and production team & for office records.
- ✓ The kiosk will be produced in the production division of Espectro & Transported to the site as oneshot delivery.

## **Assembly on Site**

✓ The Prefabricated Cabin shall be transported by Low Bed Trailer & 100 Ton Crane shall available
for offloading the unit. Under the circumstances of restriction of Crane Pickup & 4x4 Crane
inside the facility.



Each unit will be fabricated as a complete product at Espectro Production Facility.

✓ Electrical wiring & connection to the Distribution board will be done at the production facility of Espectro.

## **ENVIRONMENTAL, SAFETY AND HEALTH**

## **Risk Assessment**

A preliminary hazard analysis should be done.

#### **EMERGENCY PROCEDURE**

- 1. A safety induction course will be given to all individuals who are working at the site or related to the activity.
- 2. HSE Officer will give necessary guidelines to the workforce and ensure that those working on site are wearing necessary personnel protective equipment.
- 3. The site team will be responsible for keeping away vehicles/equipment safely away from the services and other concerned area.
- 4. A first Aid kit will be available at all times in the area.



## **RECENT PROJECTS**

Project: Fab & Supply of Premium Retail Express Mobile

Unit

Client: Papa Johns

Project Completion: 10th Nov 2022

Project: Dubai Police Security Cabins

Client: Dubai Police

Project Completion: 20th April 2022

Project: M Power Station Modular Cabin with Trailer Supply

Client: DEWA

Project Completion: 16th June 2022

Project: Fab & Supply of Premium Valet Cabins

Client: Museum of The Future, Dubai

Project Completion: 5th July 2022

Project: Fab & Supply of Premium Security Cabins

Client: Lapita Resorts, Marriott Hospitality

Project Completion: 20th June 2021

Project: Fab & Supply of Modular Golf Tuck Shop

**Client: Damac Properties** 

Project Completion: 20th June 2020

## APPROVALS PTW / PROJECTS



## **MATERIAL SUBMITTAL**

Project	Dubai Arena	Package	CE0002 (ASGC) - (ASGC) Design Build Contractor
Originator	ASGC Construction LLC	Recipient	Dar Al Handasah
Location	DA - Dubai Arena	Revision	1
Subject	Prefabricated Aluminum Cabin (Security Booth)	Document#	MR01-ASG-CE0002-MEI-MAT-0624
Discipline	MEI (Infra)	Category	Materials
Dwg Ref	MR01-DAR-DD-DAZZ-ZZZ-PLU-ZZ-4000/CO- DAZZ-000-WFT-ZZ-5505	BOQ Ref	
Spec Ref	233413	Standards	

#### Delivery

Mfr Name	Espectro General Trading	Origin	Local
Address		Local Agent	Espectro General Trading
Delivery Duration		Arrival Time on Site	
Date Req on Site		Latest Date of Order	

#### **Submitter Comments**

Prefabricated Aluminum Cabin (Security Booth)

Submitted By: Proscape Date: 26-May-18

Supervision Consultant / AOR Comments





Email: info@espectro-me.com



: H-FO/SA/NOC/EKSC/22-572 Ref.

Date: : 19th August 2022

M/s Emirates Sky Cargo **Dubai Airports** 

FAO. Mohammed Niyaz, Facilities Maintenance Manager

No Objection Certificate (NOC) for Design Submittal Subject:

**Project No:** 22278

**Project Title:** PORTA CABINS FOR ECD

**Project Location:** CTO/ FG1

Further to your submission E-mail, dated 09th June 2022, Dubai Airports confirms it's No Objection to the abovementioned Works, subject to the following conditions:

#### **Specific Project Conditions:**

#### Civil:

- No objection to proceed with the installation of portacabins in the east cross dock by EK as per the scope of
- The materials fire ratings for the cladding, walls and the ceiling shall be as per AFS recommendation.
- The installation of the portacabin should not affect any existing DA services.
- The power cables from the feeder pillar till the new cabin shall be protected from any vehicle impact.
- Contractor to resubmit the location plans based on the comments indicated.
- DA AFS team approvals shall be obtained on bringing in portacabins.
- EK to secure approvals from Mr. Nauman's/Control of Airside Works team, and the user to apply for PTW.
- Agreement shall be made with Mr. Jude/Mr. James from commercial team on the ownership of the portacabins, removal of the portacabin after its use, location of installation and maintenance aspects of the portacabins. The maintenance shall be under the clients' responsibility.
- We would recommend to permanently paste the owner and user details on the portacabin itself for avoiding any confusion in the future.

#### Electrical:

1. No Comments

#### HVAC:

1. No SOW

## Plumbing:

1. No SOW

## Fire Fighting:

1. No SOW

#### ELV:

1. No SOW

#### General NOC Conditions:

1. During the execution of the works, FOC will provide technical surveillance on a periodic basis which will be unannounced; the hourly rate shall be AED 72.

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Page 1 of 2

مطارات دبي | ص. ب ٢٥٢٥، دبي | الإمارات العربيـة المـتـحـدة | هـ: ٢٥٥٥ ع٢٢ ع ١٧٩١ | ف: ٤٧٠٣ ع٢٢ ع ١٧٩٠ Dubai Airports | PO Box 2525, Dubai | United Arab Emirates | T: +971 4 224 5555 | F: +971 4 224 4703 dubaiairports.ae



## Request for Extention of PTW

Work Location H - Station	PTW No. to be extended. P.O. # 3051701637
Date of PTW Issued (Existing). 28:12.17	Date of PTW Expire (Existing)31.72018
	due to so complete the balance works
Contractor's Name & Signature	Date 7 0 19
wite that	Seri Paging

Dawed Akwar Pak - civil New Engineer In charge

Date: 07.8, 2018

Note: - PTW for installation of prefabricated visitors room at H-Station main gate area (PO # 3051701637) may be extended till 30.09.2018 as requested. Comments in original PTW shall be followed.

m 08/0





PERMIT TO WORK (PTW) Valid for Date indicated Part A section 3 ONLY

PTW	Serial No	70.
HPTW if any	Serial No	



This permit is sizuad for (National DEFESSIONAL PROTECTIVE EQUIPMENT REQUIPMENT REQUIPME	PART A	4			17.4			LUPAR	RTD			
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SAFETY PROGRAMME  SAFETY PROGRAMME  Yes N/A No  PART F  Authorization by Responsible Appointed Person (AP)  I hereby declare that the isolators detailed in Part B of this form have been bompleted, except when otherwise specified and tips safe to undertake the work.  Bather shave been drained down.  Bather shave been exceed and danger/caution notices displayed.  Bather shave been exceed and is in safe condition to use.  Bather shave been exceed and is in safe condition to use.  Bather shave been exceed and is in safe condition to use.  Bather shave been exceed and is in safe condition to use.  Bather shave been exceed and is in safe condition to use.  Bather shave been exceed and is in safe condition to use.  Bather shave been exceed and is in safe condition to use.  Bather shave been exceed and is in safe condition to use.  Bather shave been exceed and is in safe condition to use.  Bather shave been exceed the work specified in Part A of this permit has been successfully completed and tested and that all persons, work equipment and wastes have been withdrawn from the work area.  Bather shave been exceeded in Part A has been completed, tested and that all isolators in Part B have been removed, the plant/equipment/work area has been recommissioned and returned to normal use.		HEIGHT	USED				DIX	1.	be stopped until the situation is resolved  Pre-work Precautions and Pre-work Safi			must
B.1 Method Statement / Risk Assessment / Insurances Received and approved  B.2 The plant or item of equipment has been isolated from all sources of energy and is certified free of any hazardous substances. (LOTO Applied)  B.3 All associated supply line valves have been closed and locked off.  B.4 The relevant feed pipelines have been drained down.  B.5 The fire detection and fire suppression systems has been isolated.  B.6 Barriers have been erected and dangerfocution notices displayed.  B.7 All persons potentially at risk have been notified of the work programme.  B.8 Safety and emergency information has been issued to contractor.  B.9 Plant system recently serviced and is in safe condition to use.  B.9 Plant system recently serviced and is in safe condition to use.  B.1 In the relevant feed pipelines have been notified of the work programme.  B.2 Safety and emergency information has been issued to contractor.  B.9 Plant system recently serviced and is in safe condition to use.  B.9 Plant system recently serviced and is in safe condition to use.  B.1 In the suppression by Responsible Appointed Person (AP)  Authorization by Responsible Appointed Person (AP)  Authorization by Responsible Appointed Person (AP)  In the subdiction of equipment from all is out of the work of except when otherwise specified and it is safe to undertake the work.  Acceptance by Contractor or other Competent Person  I ALAL MUH ANNON behalf of Interpretation or other Competent Person  I ALAL MUH ANNON behalf of Interpretation or other Competent Person  I ALAL MUH ANNON behalf of Interpretation or other Competent Person (AP)  Acceptance by Contractor or other Competent Person (AP)  I hereby declare that	ART	R										
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B.9 Plant system recently serviced and is in safe condition to use.    Hand back, completion by contractor who undertook the work   on behalf of company declare that the work specified in Part A of this permit has been successfully completed and tested and that all persons, work equipment and wastes have been withdrawn from the work area.   Date: Print Name: Signature: Print Name: Signature: Print Name: Signature:	B.7	All persons potentially at ri	isk have been notifi	ed of the work p	orogramme.				and method statements provided by my	Com	Pagy, IA	
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	f Any ar	nswered with Yes, please specify	the action taken							se.	AT SOON COURS	



# ORGANIZATION, RESPONSIBILITY & SUPERVISION

## i. Project Manager:

To ensure all operations are in accordance with the relevant Project contract specifications and this method statement.

## ii. Production Engineer:

To ensure all operations are in accordance with the relevant project contract specifications and this method statement. Also, ensure the accuracy of the work done by the site engineers.

## iii. **QC** Engineer:

Ensure that the work is carried out as per the specification requirements. If required, necessary tests are to be carried out for conformity with the work.

## iv. Site Supervisor:

To check the work as to be done according to the drawings and according to this method statement. Allocation of daily work to the foremen.

#### v. Site Foreman:

To carry out the work with proper control over labor and equipment, to monitor and instruct the movements of the equipment at the site.

## vi. <u>Labors (Skilled / Unskilled):</u>

Follow the instructions of the site engineers and foreman to carry out the job.

## **Work Force:**

S.No.	Position
1	Project Manager (SARHAN KHAN)
2	Production Engineer (TAYSEER BOUKAI)
3	Site Supervisor (USMAN GHANI)
4	Site Foreman (SHAMSHAD ALI)
5	Skilled Labour
6	Unskilled Labour



## **MTC**



P.O.BOX: 31165, ICAD-II, ABU DHABI, U.A.E.



DATE : 26.04.2022

MTC NO.: TSI/AD-22-802

## MANUFACTURER TEST CERTIFICATE

CUSTOMER: Shams Al Madinah Building Material Tr.LLC

P.O.BOX: 79667

SHJ, UAE

TEL NO :- 009716 5360032

WE CERTIFY THAT THE MATERIAL ERW STEEL TUBES & PIPES HAVE BEEN MANUFACTURED ACCORDING TO ASTM A500-13 GR.A. ALL CHEMICAL AND MECHANICAL PROPERTIES ALSO CONFORMS TO ASTM A500-13 GR.A.

	2000	THICK-				TOTAL	TOTAL		CHEMI	CAL COM	POSITION	(MAX)	MECH. P	ROPERTIES	(MIN)	SQUARE	CORNER	
S.No. SIZE (mm) NESS (mm) KG/MTR PIECES WEIGHT (MT) BATCH NO. HEAT NO.	с%	Mn %	P %	5 %	YST (MPa)	UTS (MPa)	EL %	NESS (*)	RADII (mm)	TWIS								
		v v	S	PECIFIED F	EQUIREM	ENTS			0.300	1.400	0.045	0.045	270	310	25	90±2	3T Max	-
1	100X50	3.00	6.00	6.601	50	1.980	4042/200305	812804	0.128	0.466	0.007	0.015	324	424	36	90±1	5.5/6.0	1.0

ote: Inspection Certificate Model No. EN:10204-3.1



AUTHORIZED SIGNATORY (QA/QC)

F:TSI/QC/07 Rev.00





						11,111,111		ERTIFICATE 04 TYPE 3.1	)						
Customer Project P.O.No Pipe Mani Grade & Specifical	ulacturer & Location	: A37M A 5	TEEL TUBE		DUSTRIES		ni Tuhin	g in Round and	Shones	Certificate N Dated : 28.0 Steel Making	6.2022				
-pacinosi	7901	1,000,001,000	110-00 - 110-11	Series of the speci		AUCT/HEAT			or conjugation.					310	
		Type	No.of	Heat No.	C%	M	n%	P%	1%	Cuff. (r	min)	NR	8%	CEV	REMARKS
Sr.No	Pipe No. / Product Dimenssions	Of	pes	Req	0.300	1.	40	0.045	44	0.11		0.009	-	**:	
1	59X59 MM X J.00 MM X 6,000 MTR	MLS SQUARE TUBE	174	A233036	9.110			0.018	9.006	0.213		0.004		(44)	P/A
					M	ECHANICA	L TESTS	-							
				Tensile Test					(20)		1			322	
Sr.No	Heaf No.	Y.S. (Mpm)	U.T.S. EL (Mps) (%)		Y.S. (Mpa)	U.T.S. EL (Mpd) (%)		(c) Flattening Test	(h) Squareness of Sides	(ci) Straightness	(b) Outside Dia	(j) Twist		(i) Radius of Corners	(f) Concave / Convex
	Keq	230	310	25	270	310	25				15,100,50			(3f max.)	
1	A233036	NA	NA	NA	330	451	32	PASS	90"	PASS	PASS	PASS		5.6	PASS
(b) Outside (c) The Flatti (d) Straightin (e) Well Thic (f) Convexit (f) Convexit (f) Over OD (g) Bead He (h) Squarens	on it's * tack * 1.05 mm (\$4+17] nearth min. A abid to * 18.75 % of specified Of one * 18.75 % of specified Of one * 18.75 % of specified of one * 19.75 % of specified of one * 19.75 % of specified will be the * 19.75 % of specified will be the * 19.75 % of specified one * 19.75 % of specified will be the * 19.75 % of the * 19.75 % of specified one * 19.75 % of specified one * 19.75 % of specified one * 19.75 % of specified specified one * 19.75 % of specified specified one * 19.75 % of specified one *	imer requirement on Pipes)		eleci and com	aply accor	2) Over O 3) Over O 4) Over O Note - 2 1) Y.S. = Y 2) CH3 = c 3) F/A = P 4) OD = O	D 65 to 16 D 100 to 1 D 150 to 2 D 200 mm inid Shens inculor he reduct An of slide Di	O mm = 1.7 mm/m 50 mm = 2.2 mm/n 00 mm = 2.5 mm/n = 2.5 mm/meter gh, U.T.5 = Ullimale slow socition / RH3 sloysis, U.A = laddle umeter, N.A = Not A adde, A	neter neter Tensile Strengti = rectangular H Anatysis & H/A	ollow section / \$		hollow sect	ton.		
	Alaman (Nizor Ahamed)							6	S POR STANDARD STANDA	The second	Qual	(Nana		angesh B	handari)
- 90	0120417-Ex16006 0F/M/15/01/01/2/061 CH	APP NEW WILL	4000	74000001720		NSE			ECE		ξ				HEV.OR





MILL TEST CERTIFICATE (EN 10204:2004 TYPE 3.1) STEEL Customer / Client Shams Al Madinah Bldg. Matt. Trdg. LLC Certificate No.: A.JS/TC/07-017, Rev.00 Dated : 07.07.2021 P.O.No 4938 Steel Making Process: Basic-Oxygen : AJMAL STEEL TUBES & PIPES INDUSTRIES L.L.C. Pipe Mo Grade & : ASTM A 500, Grade A Specification Cold formed welded and Carbon Steel Structural Tubing in Round and Shaper PRODUCT/HEAT ANALYSIS REMARKS Cu% (min) CEV Heat No. C76 Mn% 176 5% N% 8% Sr.No Pipe No. / Product Dimenssions 0.009 Req 0.300 0.045 0.18 50X50 MM X 2.00 MM X 6.000 MTR SQUARE TUBE 2004081 0.528 0.210 0.605 P/A 764 0.015 0.006 MECHANICAL TESTS Tensile Test Values Round hips Section Pipes Heat No. Y.S. (Mpe) U.1.S. (Mpa) U.T.S. (Mpa) EL (%) Req 230 310 25 270 310 25 PASS (f) Rodius of Comers = 3f where T is the Spec (f) Max. Yelst 1) Over O0 65 to 100 mm = 1.9 mm/meler 2) Over O0 100 150 150 mm = 2.2 mm/meler 3) Over O0 150 to 200 mm = 2.5 mm/meler 4) Over O0 200 mm = 2.8 mm/meler Note - 1
(a) Eorgalion % = thick < 3.05 mm (54t+17) near% min. 1 above 25 min.
(b) Outlide Dia = 10.75% of Specified OD
(c) The Richeling lest skall be made on round Pipes only.
(d) Straightness = 0.2% of the pipe length
(d) Straightness = 0.2% of the pipe length
(d) Convexity & Concavity shall be tested only Lection Pipes.
1) Over OD 46 to 10 mm = 20.4 mm
2) Over OD 40 to 10 mm = 25.4 mm
2) Over OD 40 mm = 25.4 mm
3) Over OD 40 mm = 25.4 mm
(g) Boad Relight = Without Removal of the Inside Plash (As Customer requirement)
(h) Squareness of Corners = 10°t 2° Max. (Applicable Only Section Pipes) Nate - 2

1) Y.S. - Yiald Shengh, U.T.S - Ulfimale Terails Strength, EL - Blongallen

2) Clifs - circular hollow section / BMS - rectangular Hollow section / SMS - as

3) Ir/A - Product Analysis, I/A - Ladder Analysis & Ir/A - Beaf Analysis

4) OP - OH side Disander, MA - Not Applicable It is certified that pipes listed in this certificate are manufactured, Examined, Tested and comply according ASTM A500 Grade. A mungestr LAB Inspector (Nizar Ahamed) Quality Manager (Mangesh Bhandari) APTHOUGH A (UL) m 1 2 NSE CE **CE CE** C€ IN THE 20120417-Ex16065 SF/IN/15/01/012/061 Cert.No.: 3058650 DAS 74985951/28/Q C0522633-01 1922-CPR-138 178 CE/1155/19/02 1922-CPR-1319 REV.02



## **COMPLIANCE STATEMENT**

As per captioned reference, we hereby confirm & submit the following for your record info:

Supply and installation of Standard Aluminum booth including internal and external finishes equipped with AC Unit, Interior LED Fixtures, One sliding door on one side & Shelf, Fixed Window and Sliding Window all in accordance with attached detail drawing & design.

**Dimension:** 2.5m (W) x 5.5m (L) x 4.0m (H)

**Colour of External Walls: TBC** 

**Colour of Internal Walls: GLOSSY WHITE** 

Material submittal for major accessories shall be provided to the client upon confirmation of the order.

## **QUALITY / RISK ASSESSMENT**

#### 3.1 Risk Assessment

A preliminary hazard analysis should be done.



- 5. A safety induction course will be given to all individuals who are working at the site or related to the activity.
- 6. HSE Officer will give necessary guidelines to the workforce and ensure that those working on site are wearing necessary personnel protective equipment.
- 7. The site team will be responsible for keeping away vehicles/equipment safely away from the services and other concerned area.
- 8. A first Aid kit will be available at all times in the area.

## **QUALITY ASSURANCE**

"Committed To Providing Quality Services and Products"

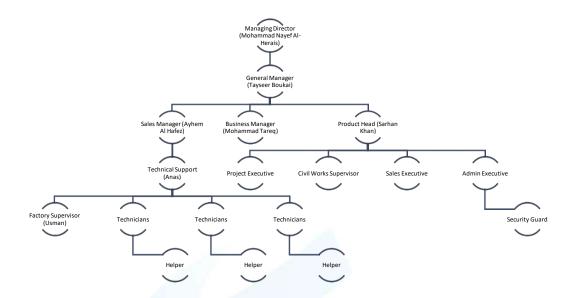
In line with quality benchmarks, Espectro Modular Cabins places a strong focus on quality compliance. The company offers international standard Cubicle Bathrooms at a comparatively low cost in the competitive market. Besides, assuring optimal product quality, superior quality raw materials and eco-friendly technology are used in manufacturing and designing Portable Cubicle Bathrooms. The company also recruits efficient quality controllers who conduct stringent quality tests on products on varied parameters like durability, precision dimensions and raw material, prior to the final dispatch.

#### **QA/QC Plan:**

- The Inventory Team leader approves the plan provided by the Operations Manager.
   QA/QC Personnel reviews the draft attendant file for the previous inventory and prepares the preliminary attendant file for the current inventory.
- According to QA/QC Plan, the inventory (or part of the inventory) is sent for check and review.
- QA/QC or OPS Manager obtains the results of check and review. It is reasonable to submit these results on updating each record on Espectro Software Systems.
- QA/QC or OPS Manager registers findings in the checklist and attendant file, as well as processes this information and makes decision about corrective actions.
- The person responsible for corrective actions carries out this work and reports to QA/QC or OPS Manager for updating the checklist and attendant file.
- QA/QC or OPS Manager prepares the QA/QC Final Report to the Inventory Expert and a draft attendant file it for the next inventory quality checkup.



## ORGANIZATIONAL CHART



## **LOCATION MAP / CONTACT DETAILS**

Head Office: Office # 805, 8th Floor, Buheira Corniche, Al Majaz, Sharjah - UAE

P.O. Box: 52913 Dubai-UAE

M: +971 50 7070160 M: +971 55 7070160

E: info@espectro-me.com

https://goo.gl/maps/4jpDnv8Nu2z42VU56





## **MATERIAL SPECS / ORIGIN / DATA SHEET**

# STEEL STRUCTURE

\$SPECTRO





## T S I METAL INDUSTRIES LLC

P.O.BOX: 31165, ICAD-II, ABU DHABI, U.A.E. MANUFACTURER TEST CERTIFICATE





CUSTOMER: Shams Al Madinah Building Material Tr.LLC

P.O.BOX: 79667

SHJ, UAE

DATE : 02.11.2023

MTC NO. : TSI/AD -2558

DATE : 26.04.2023

MTC NO.: TSI/AD-802

WE CERTIFY THAT THE MATERIAL ERW STEEL TUBES & PIPES HAVE BEEN MANUFACTURED ACCORDING TO ASTM A500-13 GR.A. ALL CHEMICAL AND MECHANICAL PROPERTIES ALSO CONFORMS TO ASTM A500-13 GR.A.

	SIZE	THICK-	LENGTH			TOTAL	*		CHEMI	CAL COM	POSITION	(MAX)	MECH. P	ROPERTIES	(MIN)	SQUARE	CORNER	TWIST
S.No.	(mm)	NESS (mm)	(Mtr.)	KG/MTR	PIECES	WEIGHT (MT)	BATCH NO.	HEAT NO.	с%	Mn %	Р%	s %	Yst (MPa)	UTS (MPa)	EL %	NESS (*)	RADIUS (mm)	mm
_				SPECIFIED	REQUIRE	MENTS			0.300	1.400	0.045	0.045	270	310	25	90±2	3T Max	1 ***
1	50X50	2.00	6.00		100		4149/200826	714330	0.118	0.483	0.007	0.006	325	428	30	90±1	5.5/6.0	1.0

Note: Inspection Certificate Model No. EN:10204-3.1



AUTHORIZED SIGNATORY (QA/QC)

F:TSI/QC/07 Rev.01



P.O.BOX: 31165, ICAD-II, ABU DHABI, U.A.E.

MANUFACTURER TEST CERTIFICATE



CUSTOMER : Shams Al Madinah Building Material Tr.LLC

P.O.BOX: 79667

SHJ, UAE

TEL NO :- 009716 5360032

WE CERTIFY THAT THE MATERIAL ERW STEEL TUBES & PIPES HAVE BEEN MANUFACTURED ACCORDING TO ASTM A500-13 GR.A.

ALL CHEMICAL AND MECHANICAL PROPERTIES ALSO CONFORMS TO ASTM A500-13 GR.A.

		THICK- TOTAL		CHEMICAL COMPOSITION (MAX)				MECH. PROPERTIES (MIN)			SQUARE CORNER							
S.No.	(mm)	NESS (mm)	(Mtr.)	KG/MTR	PIECES	WEIGHT (MT)	BATCH NO.	HEAT NO.	С%	Mn %	Р%	5%	YST (MPa)	UTS (MPa)	EL %	NESS (*)	RADII (mm)	TWIST
			5	PECIFIED I	REQUIREM	ENTS			0.300	1.400	0.045	0.045	270	310	25	90±2	3T Max	
1	100X50	3.00	6.00	6,601	50	1.980	4042/200305	812804	0.128	0.466	0.007	0.015	324	424	36	90±1	5.5/6.0	1.0

Note: Inspection Certificate Model No. EN:10204-3.1



AUTHORIZED SIGNATORY (QA/QC)

F:TSI/QC/07 Rev.00









الدانوب لمواد البناء ش.م.خ. DANUBE BUILDING MATERIALS FZCO

# TECHNICAL DATA KINGKONG PLYWOOD

SPECIES: COMBI POPLAR/HARDWOOD, 8-layer poplar & 3-layer Hardwood

SIZE: 2440 x 1220MM x 18MM

GLUE TYPE: WBP FILM COLOR: BLACK

Sr. No.	Proj	perty	Unit Standard Value		Result of Test	Conclusion	
1.	Moist	are rate	%	6-14	8.7	qualified	
2.	Bonding	Bonding Quality		>=0.70	2.50	qualified	
3.	Bending Modules of	Longitudinal	Man	>=5500	7150	qualified	
3.	elasticity	Lateral	Mpa	>=3500	4408	quamicu	
4.	Bending	Longitudinal	Mpa	>=26	59.3	qualified	
:::##	strength	Lateral	pu	>=20	31.4	quanticu	
5.	Envir for test			20 °C		/x	
6.	Test Conclusion			ODUCTS CON GB/T9846-200			



Corporate Office: P.O. Box 18022, Jebel Ali, United Arab Emirates. T: +97l 4 887/234, F: +97l 4 887/235.

www.aldanube.com

UAE | DMAN | BAHRAIN | K.S.A. | QATAR | INDIA | CHINA

Toll free in UAE - 800 DANUBE

FORMED PURSUANT TO LAW NO.2 OF 1986 AND IMPLEMENTING REGULATION NO.1 OF 1999 WITH LIMITED LIABILITY







HICEM – Non-combustible multi-purpose fibre cement flat boards are made as per IS:14862-2000.

The Product contains cement, cellulose fibres and minerals cured under HPSC technology.



HICEM has superior attributes including Fire, Termite, Water and Moisture resistance, good dimensional stability and smooth finish.

The Product is available in various dimensions and thicknesses and can be used for interior and exterior applications. HICEM replaces plywood, particle boards and other wood based products.

PROPERTIES	UNIT	STANDARD	VALUES
Thickness	mm		4,6,8,9,10,12,16 and 18
Length	mm		595, 610, 1195, 1220,1830 and 2440
Width	mm		595, 610 and 1220
Physical:			
Apparent density(Dry)	Kg/m <sup>3</sup>	IS: 14862	>1200
Compressive strength	N/mm²	ASTM D1037	>30
Tensile strength	N/mm²	ASTM D1037	>20-Longitudinal and >18-Transverse
Modulus of Rupture (EMC)	N/mm²	IS: 14862	>10
Screw Withdrawal Strength	N	IS: 2380 Part XIV	>1300
Alkalinity	pH		8 - 9
Moisture content (EMC)	%		< 12
Sound Insulation:			
Acoustic Insulation	dB	IS: 9901-Part 3:1981	29
Heat Insulation:			
Thermal conductivity	W/m-K	ASTM C177 & ISO 8302	0.18
Fire Protection:			
a) Combustibility		BS 476: Part 4:1970	Non-combustible
b) Surface spread of flame	TUV	BS 476: Part 7:1997	Class - 1
c) Ignitability	TUV	BS 476: Part 5: 1979	'P' - Not easily ignitable
d) Fire Propagation Index	PSB Singapore	BS 476: Part 6: 1989 + A1:2009	1 = 0.7
Durability:			
Water Impermeability	II THE RESERVE	IS:14862	Passes
Freeze thaw test	-	IS:14862	Passes
Warm Water	-	IS:14862	Passes
Soak dry	-	IS:14862	Passes
Heat rain	-	IS:14862	Passes
Biological			No fungus growth



CMS Chemical & Metallurgical Services NABL ISO 9001 : 2008 (NABL ACCREDITED LABORATORY) T.S.No.63-A, SIDCO Industrial Estate, Ekkaduthangal, Chennai - 600 032, Tamilnadu INDIA. Phone: 91-44-2225 3863, 2225 3547 Mobile: 9445067918 Tele Fax: 91-44-2225 2944. ABORATOR After Off. Hrs: 91-44-2245 1794 E-mail: rmd@sify.com / cmslab81@gmail.com CMS Page: 1 of 1 TEST CERTIFICATE CMS CMS CMS/LTR/T-8484-Y/2014-15 26-07-2014 Test Report No. Date Ramco Industries Limited Issued To Mylapore, Chennai-4 Your Ref. : Letter Dt: 17-07-2014. No. of Samples : Physical Test. Date of Receipt of Sample : 17-07-2014 Nature of Test : 1No. Date of Testing : 18-07-2014 . Nil. Enclosures **TEST RESULTS** : IS: 2380, ASTM C1185. Test Method Sample Details Cellulose Fiber Cement Board ( Hicem Board ) CHARACTERISTICS RESULTS (1) Screw withdrawal Strength (N) = 2538 Swelling in water (2) Change in thickness % 0.55 (3) Change in Length % 0.01 (4) Water Absorption % 34.28 CMS CMS \*\*\*\*END\*\*\*\* CMS R.M.D. NAYAR (Ex - Scientist - NML -CSIR) Recognised & Approved Laboratory by Steel Authority of India Ltd. RITES LTD, Airports Authority of INDIA LTD. Defence Establishments, CMS National & International Third Party Inspection Agencies & Many other State & Central Government Establishments. Note:- This report relates only to the particular Sample submitted for test. Any correction not attested shall invalidate this certificate. Sample will be destroyed after 15 days from the date of issue of certificate unless instructed otherwise. Any complaints about this report should be communicated in writing within 7 days of the issue of this report. This report should not be reproduced wholly or in parts and cannot be used as evidence in a court of law and shall not be used in advertising media without prior permission in writing. Sample descriptions is not verified in all case and is given as described by the customers Samples are not drawn by us unless otherwise stated.

Tel.: +971 4 5759272 Tel.: +971 6 5735216 P.O.Box : 52913 Dubai - UAE Email : info@espectro-me.com















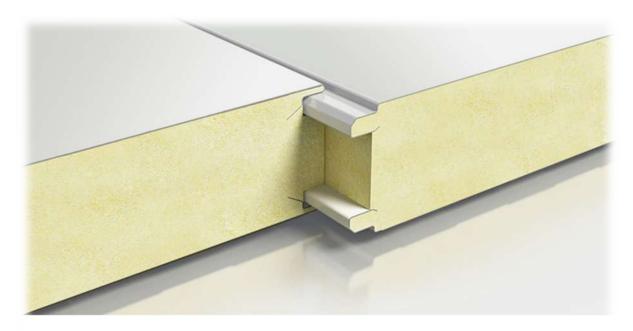
Gerflor theftoeringroup		SENSO	O PREMIUI	M CLIC	
DESCRIPTION					
Total Thickness	EN ISO 24346	mm		4.50	
Thickness of the wearlayer	EN ISO 24340	mm		0.55	
Weight	EN ISO 23997	g/m²		7385	
Size	EN ISO 24342	mm	214 x 1239	391 x 729	242 x 1461
Number of planks /tiles and sqm per box	-	-	8 / 2.12 m²	8 / 2.28 m²	7 / 2.47 m²
CLASSIFICATION					
Norm/Product Specification	-	-		EN ISO 10582	
European Classification	EN ISO 10874	class		33 -42	
Fire Rating	EN 13 501-1	class		Bfl-s1	
Static Electrical Propensity	EN 1815	kV		< 2	
Slip Resistance Wet	DIN 51 130	class		R10	
PERFORMANCES					
Wear Resistance	EN 660.2	mm³		< 2.0	
Wear Group	-	group		T	
Type Binder content	ISO 10582	group	327	Ţ	
Room Impact	NF S 31074	dB		78	
Impact sound insulation	EN ISO 717-2	dB		4	
Dimensional Stability	EN ISO 23999	%		≤ 0.15	
Residual Indentation	EN ISO 24343-1	mm		≤ 0.10	
Castor chair test	ISO 4918	-		ОК	
Thermal Conductivity	EN ISO 10456	W/(m.K)		0.25	
Colour Fastness	EN 20 105 - B02	degree		≥ 6	
Surface Treatment	-	-		PUR+ MATT	
Chemical Products Resistance	EN ISO 26987			ОК	
ENVIRONMENT / INDOOR AIR QUALITY					
TVOC after 28 days	ISO 16000-6	μg/ m3		< 10	
CE MARKING					
	EN 14041		F		as a
<b>(</b> €				B <sub>(1</sub> -s1	



# ROOF PANEL / WATERPROOFING







## FLAT SANDWICH PANELS







No. 5664/19-2 Page 1 of 7

# Classification Report Exact Fire Resistance Laboratory

#### APPLICANT:



BANA STEEL PROCESSING INDUSTRY LLC

CLASSIFICATION OF THE FIRE RESISTANCE ACCORDING TO STANDARD EN 18501-2:2016

- Specimes: \_\_\_\_\_metal sangleich papels mof
  - Manufacturur ...... ® DANA STEEL PROCESSING INDUSTRY LLC.
  - ➤ Reference: © "50 mm RDCKWOOK DCP 35/200 SANDWICH PANILS ROOF"

EXPONENTE N

Tel.: +971 4 5759272

CERTIFICATION AND ADDRESS OF THE PARTY OF TH

CANCEL OFFICE A. L. Strategical Life. For the 19th de decimposeral LABORATION (L. 1984).

# +34 900 71 134 # +34 916 71 134 # +34 901 798 587 # horizotto com

Tel.: +971 6 5735216 P.O.Box : 52913 Dubai - UAE Email : info@espectro-me.com





Classification Report No. 9664/19-2

## 3. TEST REPORTS AND RESULTS IN SUPPORT OF THIS CLASSIFICATION

## 3.1.- TESTS PERFORMED

rri-ucor mino del Estrechillo, 8	Applicant	Report	Test method	
	Carlo transcription of the particle and the carlo		Test method	
500 – Arganda del Rev	DANA STEEL PROCESSING INDUSTRY LLC Factory: Unit no 11. Emirates	No.: 9664/19	UNE-EN 1365-2:2016 UNE-EN 1363-1:2015	
adrid)	Modern Industrial area, Umm-	Test date:		
tified Body No.: 1168	al-Quwain, (UAE).  Head office: Suite No. 405-406,  B Block, Centurion Star Building Opposite Deira City Centre, Dubai (UAE).	05* Feb 19		
anditions of exposure				
Temperature curve /	time: Standard			
Number of exposed s	des: One (exposure on the b	ottom sidel		
st results			Specimen No.	
		-		
loadbearing capacity (	R)		240 minutes"	
Deflection			240 minutes <sup>FI</sup>	
Rate of deflection		1001004	240 minutes <sup>(f)</sup>	
Integrity (E)			240 minutes <sup>(F)</sup>	
Cotton ped			240 minutes <sup>(1)</sup>	
Gap gauges Ø 6 mm	***************************************		240 minutes <sup>(r)</sup>	
Gap gauges Ø 6 mm Gap gauges Ø 25 mm			240 minutes <sup>F1</sup>	
Loadbearing capacity (	***************************************		9664A 240 minutes <sup>3</sup> 240 minutes <sup>3</sup>	

<sup>(</sup>F): End of specimen evaluation without failure of this criterion





Classification Report No. 9664/19-2

## 4. CLASSIFICATION AND FIELD OF APPLICATION

#### 4.1. CLASSIFICATION STANDARD

This classification has been carried out in accordance with the clause 7.3.3 of the standard EN 13501-2-2016.

#### 4.2. CLASSIFICATION

The product "50 mm ROCKWOOL DCP 35/200 SANDWICH PANELS ROCF" is classified according the following symbination of performance parameters and classes.

Fire Resistance Classification	RE 240

The following classifications are alkowed:

HE	20	30	60	90	120	180	240	ŀ

#### 4.3. HELD UT APPLICATION

without glowing

According to the chapter 13 of the Standard UNE-EN 1365-2:2016, the tested element has the following field of application:

The classification platetred is also walld for the following modifications of the characteristics of the specimen without the need for farther testing.

Characterist	fice .	Permitted modification	Reference value (1)	
Structural merciber	building	The reasimum moment and shear forces, which when calculated on the same basis as the test load, shall not be greater than those tested.		$\begin{aligned} \mathbf{R}_{ij} &= \mathbf{R}_{ij} - \frac{\mathbf{q}L}{L} \\ \mathbf{R}_{ij} &= \mathbf{q} \left[ \frac{L}{2} + 0 \right] \\ \mathbf{H}_{ijk} &= \frac{\mathbf{q}L}{2} \mathbf{L} - \mathbf{q} \right] \\ \mathbf{M}_{ijk} &= \frac{\mathbf{q}L}{2} \mathbf{L} - \mathbf{q} \right] \\ \mathbf{M}_{ijk} &= \frac{\mathbf{q}L}{2} \mathbf{L} - \mathbf{q} \right] \end{aligned}$
inclination construction	ons	inme 0 - 157 Range	Indivation angle (IP	

 Reference values of the tested specimen on the basis of which the permitted modifications could be carried out.



# Insulation Specifications

### Thermal Conductivity Value

Amount of heat (W) passing through a meterial having surface of 1 M2 and thickness 1 M in order to rise temperature by 1 oC . Units are W/m K

K value (Insulation Value) Thermal conductivity divided by thickness of the material [ W / m2 K]

U value (Total Insulation Value) Also known as Overall Heat Transfer Coefficient. It is determined by the insulation value of the various materials forming the penal. [W / m2 K], KCal/m2 h oC, BTU/ F t2 h oF

On Continuous System	Density	Kwatus
Polyurethane (PUR)	35-40 Kg/m3	0.022 w/m²K
Polyisocyenurete (PIR)	40-45 kg/m3	0.022 w/m <sup>2</sup> K
Mineral Wool / Rockwool	80-150 kg/m3	0.04 w/m³K
Expanded Polystyrene (EPS)	16-24 kg/m3	0.035 w/m²K

### 1. Polyurethane Properties

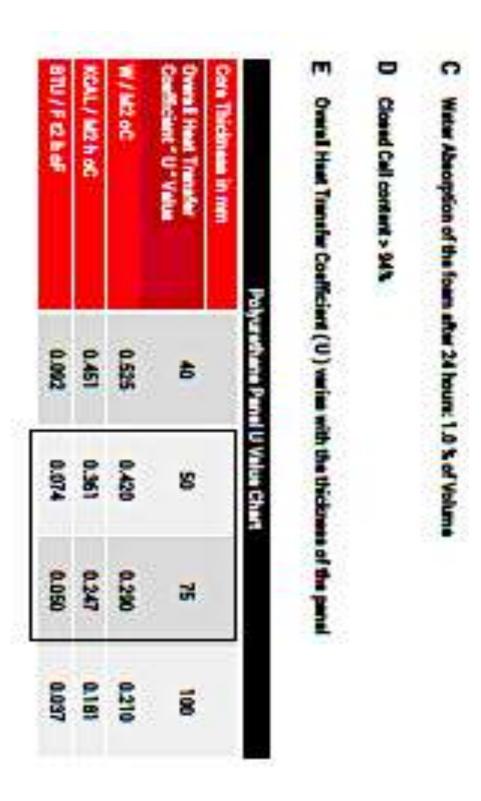
### A Mechanical Characteristic of Fours

Density	35-40Kg/m3 (ee per BSEN 1602: 1997)	
Tenelle Stress	150 kpa (as per BSEN 1608: 1997)	
Compression Resistance	100 kpa (sa per ASTM C165 ; 2000)	
Shear Resistance	150 kpe ( as per ASTM 271/ 271M)	
Fire Property	B2/ B3 as per DIN 4102-1	

### B Insulation Capacity

K Value - Thermal Conductivity Telerance	0.022 W/ mK + /- 0.002
MAN MOP PEPER NO CASHE DEBON	
Tel: 00871-9-2317373   Pex. 00871-9-2319080   1-	melt tringlebragnugs.org. dideragens ar :







# 3. Mineral Wool Features - For Fire Rated Panels

### A Mechanical Properties

Density:	80-120 Kg/m3
Tensile Stress	0.040 W/mK (Average )
Compression Resistance	>70 Kps (es per ASTM C165 : 2000 )
Fire Property	> 750 oC melting point AI as per DIN 4102-1

### **B** Insulation Capacity

Thickness of mineral Wool (mm)	50	80	100	
U Value (W / m2 K)	0.76	0.47	0.37	

N VALUE - GLOSO W ANN

Overall Hear Transfer Coefficient "U" varies with thickness of the panel

### C Fire Properties

File Resistance	> 750 a C melting point Al as per DIN 4102
Calorific Value	<1.8 Mg/ Kg according to EN 13501
Combustibility	A1 as per EN 13501 Non combustible as per BS 475 : Pert 4
Flame Spreed Index	0
Smoke Development Index	0

### D Water Absorption of the foem after 24 hours

	DIN 4	102-1 fire test
Building	Material Class	Designation
Class A	A1 (Mineral Wool Fire Fathed Panels) A2	Non-combustible materials
	B1	Not easily flammable
Class B	B2 (PoPend )	Flammable
	B3 (PoPend )	Easily flammable







# **IIIII TERRAÇO**

### MATERIAL SAFETY DATA SHEET

Ready Mixed, Primers, Bonding Agents and Topcoats for Surface Coatings Version: Revised Date of Issue: 04/11/2011

### 1. IDENTIFICATION OF PREPARATION

Product	Code	and	Names:
---------	------	-----	--------

<b>62250 -</b> Matisse	65222 - Styroskim Resin (Pt B)	65310 - Vinylbond PVA
66210 - Weathercoat Resin	67140 - DiamondSeal	<b>68110 -</b> Penetrating Primer
<b>68150 -</b> ALC Primer	<b>68180 -</b> Silprime	<b>68210 -</b> Terrabond A
<b>68230</b> - Terrabond P	68320 - Flexipave Concrete Primer	

Chemical Name: CAS Number:

Mixture of acrylic/vinyl emulsions and mineral fillers.

Blend

Identification of Company:

Terraco Architectural Coatings China Co., Ltd.

Tel: +86 (0)20 8759 4742 Fax: +86 (0)20 8526 8056 E-mail: sales@terraco.com.cn Web: www.terraco.com.cn

### Terraco Chemical (Shanghai) Co., Ltd.

Tel: +86 (0)21 621020 48 / 18 Fax: +86 (0)21 625205 47 Email: sales@terraco.com.cn Web: www.terraco.com.cn

### Terraco Egypt Chemical Industries S.A.E.

Tel: +20 (0)22 29184 53 / 57 / 58 Fax: +20 (0)22 29184 80 E-mail: terraco@terraco.com.ea Web: www.terraco.com.eg

### JORDAN:

Jordan Swedish Polymers Industrial Corp. Tel: +962 (0)6 553 8751 Fax: +962 (0)6 553 6560 E-mail: terraco@nol.com.jo Web: www.terraco.jo

### IRFI AND:

### Terraco Technical Centre, Ireland Tel: +353 (0) 404 66555

Fax: +353 (0) 404 66654 E-mail: technical-centre@terraco.com Web: www.terraco.com

### PAKISTAN:

Terraco Pakistan Pvt. Ltd. Tel: +92 (0) 42 3529 70 56-8 Fax: +92 (0)42 3529 70 55 Email: terraco@terraco.pk Web: www.terraco.com

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### RUSSIA

OOO Terraco Sweden Ltd, Russia Tel: +7 (0)495 9212 237 Fax: +7 (0)495 6273 881 Web: www.terraco.ru

### OOO Terraco Vostok Ltd

Tel: +7 (0)4212 410563 Fax: +7 (0)4212 410591 E-mail: terracovostok@terraco.khn.ru Web: www.terraco.com

### SOUTH KOREA: Terraco Korea Co., Ltd

Tel: +82 (0) 2 5611 551 Fax: +82 (0)2 5671 771 E-mail: terraco@terraco.co.ki Web: www.terraco.co.kr

### THAILAND:

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### TURKEY:

Terraco Yapi Malzemeleri Sanayi Ve Ticaret AS Tel: +90 (0)222 236 0423 Fax: +90 (0)222 236 0425 E-mail: terraco@terraco.com.tr Web: www.terraco.com.tr

### Terraco UAE Ltd

Tel: +971 (0)4 326 2699 Fax: +971 (0)4 326 2733 E-mail: terraco@terraco.ae Web: www.terraco.com

### ADDAGRIP Tel: +44 (0) 1825 761 333

Fax: +44 (0) 1825 768 566 E-mail: sales@addagrip.co.uk Web: www.addagrip.co.uk / www,terraco.com

### Terraco Vietnam Co., Ltd

Tel: +84 (0)650 3 820 100 Fax: +84 (0)650 3 820101 E-mail: terraco@terraco.com.vn Web: www.terraco.com

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Amount	CAS Number
Water:	>50.0%	7732-18-5
Acrylic/Vinyl Polymer:	<45.0%	Proprietary

### 3. HAZARDS IDENTIFICATION

Not classified as dangerous for supply. Avoid inhalation of dust during mixing.		
Potential Health Effects		
Eye	Contact may cause irritation.	
Skin Prolonged contact may dry the skin resulting in irritation and dermatitis.		
Inhalation	Avoid inhalation if product atomised during application, may cause respiratory tract irritation.	
Ingestion	Ingestion is not considered a potential route of exposure.	

Page 1 of 4





# WEATHERCOAT

**ELASTOMERIC WATERPROOFING** 

### **OVERVIEW**

Weathercoat is an economical, permanent waterproofing system for roofs and facades. The system will adhere to new and old surfaces of concrete, bitumen, and tiles. Weathercoat has long-life flexibility and is ideally suited for use in areas with extreme climatic conditions. It is

PRODUCT GRADES/CODES

 Resin
 66210

 Powder Grey
 76110

 Powder White
 76115

applied by brush or spray and after drying can be walked upon uncovered. After application the Weathercoat system has high resistance to chemical attack, atmospheric pollution, UV light and fire.

### **PROPERTIES**

Weathercoat is supplied as a two component, powder (cement based) and resin (acrylic based) system, to be mixed on site. Different mixing ratios will produce compounds of different degrees of flexibility, suitable for different purposes.

### **Weathercoat Resin**

Is based on concentrated acrylic resins, highly resistant to UV light and alkalinity. The system is permanently flexible and miscible with cement and cement based materials in all proportions. Although developed as a high class waterproofing system, it is very suitable as an additive to mortars and screeds to increase their tensile, compressive and flexural strengths and reduces their water cement ratio.

### **Weathercoat Powder**

Is based on special cements and precisely graded fillers, wetting and adhesion promoters. Properties of the final mix will vary according to the ratio of powder to resin.

### **ADVANTAGES**

- Permanent waterproofing
- Abrasion resistant
- Non-toxic ideal for water tanks
- Weather resistant
- High adhesion power
- Highly flexible
- Vapour permeable
- Cement mortars adhere to it
- Bridges cracks in substrates

### AREA OF USE

For waterproofing most building surfaces e.g. roofs, facades, foundations, retaining walls, swimming pools, planters, wet room floors, water tanks, etc.

### PREPARATION OF SURFACE

Ensure all dirt and foreign matter is cleaned off the areas to be coated. Remove any ridges or form oil. Dusty or flaking surfaces must be cleaned thoroughly, then primed with Penetrating Primer.

### APPLICATION & CLEANING OF TOOLS

Mix the components in the ratios shown in the table below. Add powder to resin and use a high speed mixer or power agitator until the mix is homogenous. If spraying add enough water to bring to the correct consistency. Apply using brush, roller or spray, leave 3 hours between coats for drying. Mixed Weathercoat must be used within 1 hour of mixing.

**Mix Proportions** 

Uses	Waterproof Flexible		
uses	Coating	Slurry	Screed
Weathercoat Resin	1	1	1
Weathercoat Powder	2	3	4
Water	-	0-0.1	0.1-0.2

Tools may be cleaned with water, ensure this is done within one hour of mixing of materials.

### **HEALTH & SAFETY**

Avoid prolonged contact with eyes and skin. For detailed information refer to relevant material safety data sheet.

### PACKAGING & STORAGE

Weathercoat Resin is supplied in 5kg and 20kg pails. Weathercoat Powder is supplied in 25kg paper bags.

Store containers in a clean dry area protected from direct sunlight and extreme heat and cold. Unopened containers can be stored for 12 months. Use oldest material first.

For further details visit: www.terraco.com

V. 11.2011 - Issued by Terraco Technical Centre, Ireland



# **IIIII TERRAÇO**

### MATERIAL SAFETY DATA SHEET

**Dry Powder Adhesive and Surfacing Compounds** Version: Revised Date of Issue: 04/11/2011

### 1. IDENTIFICATION OF PREPARATION

<b>75160 -</b> Rapidfix W1	<b>75165 -</b> Rapidfix F1	<b>75310 -</b> Blockfix ALC Grey
75311 - Blockfix ALC White	<b>75410 -</b> Styrobond DP	<b>75411 -</b> Ambient Adhesive DP
<b>75412 -</b> Styrobond HB	<b>75417 -</b> Styrobond FM	<b>75419 -</b> Styrobond DP CONC
<b>75420 -</b> Styrofix	<b>75421 -</b> Styrotile	<b>75422 -</b> Styrogrout
<b>75425 -</b> Styrofix CONC	<b>75430 -</b> Tilobond Fine White	<b>75435 -</b> Tilobond Fine Grey
<b>75440 -</b> Tilobond Standard White	<b>75445 -</b> Tilobond Standard Grey	<b>75510 -</b> Maxifix White
<b>75520 -</b> Maxifix Grey	<b>75522 -</b> Maxifix CONC	<b>75530 -</b> MaxiGrout Grey
<b>75530 -</b> MaxiGrout White	<b>76110 -</b> Weathercoat Powder Grey	<b>76115 -</b> Weathercoat Powder White
<b>76120 -</b> Terracrete Powder - Grey	<b>76130 -</b> Weathercoat SP	77111 - Maximix Grey
<b>76130 -</b> Weathercoat SP	77111 - Maximix Grey	77114 - Handymix Putty Grey A100
77114 - Handymix Putty Grey A100	77121 - Handymix Putty Grey B100	77122 - Handymix Putty White B200
77128 - Styroskim Powder (Pt A)	77330 - Flexipave Patching Compound Powder	77610 - Sprayplaster CM
77611 - Sprayplaster CM-XT	<b>77650 -</b> Keybond	
Chamical Manage		

Chemical Name: Mixture of calcium oxide, polymers, fillers cement, and additives CAS Number: Blend

### Identification of Company:

Terraco Architectural Coatings China Co., Ltd. Tel: +86 (0)20 8759 4742 Fax: +86 (0)20 8526 8056 E-mail: sales@terraco.com.cn

### Terraco Chemical (Shanghai) Co., Ltd.

Tel: +86 (0)21 621020 48 / 18 Fax: +86 (0)21 625205 47 Email: sales@terraco.com.cn Web: www.terraco.com.cn

Web: www.terraco.com.cn

### FGYPT.

### Terraco Egypt Chemical Industries S.A.E.

Tel: +20 (0)22 2918453 / 57 / 58 Fax: +20 (0)22 29184 80 E-mail: terraco@terraco.com.eg Web: www.terraco.com.eg

Jordan Swedish Polymers Industrial Corp. Tel: +962 (0)6 553 8751 Fax: +962 (0)6 553 6560 E-mail: terraco@nol.com.jo Web: www.terraco.jo

### IRELAND:

Terraco Technical Centre, Ireland Tel: +353 (0) 404 66555 Fax: +353 (0) 404 66654 E-mail: technical-centre@terraco.com Web: www.terraco.com

### PAKISTAN:

Terraco Pakistan Pvt. Ltd. Tel: +92 (0) 42 3529 70 56-8 Fax: +92 (0)42 3529 70 55 Email: terraco@terraco.pk Web: www.terraco.com

### Terraco Romania SRL

Tel: +40 (0)749 203 133 Fax: +40 (0)318 148 810 E-mail: ahaque@terraco.com Web: www.terraco.com

### OOO Terraco Sweden Ltd, Russia

Tel: +7 (0)495 9212 237 Fax: +7 (0)495 6273 881 E-mail: adm@terraco.ru Web: www.terraco.ru

### **OOO Terraco Vostok Ltd**

Tel: +7 (0)4212 410563 Fax: +7 (0)4212 410591 E-mail: terracovostok@terraco.khn.ru Web: www.terraco.com

### SOUTH KOREA:

# Terraco Korea Co., Ltd Tel: +82 (0) 2 5611 551 Fax: +82 (0)2 5671 771

E-mail: terraco@terraco.co.kr Web: www.terraco.co.kr

### THAILAND:

### Terraco Industry (Thailand) Limited Tel: +66 (0)2 946 68 56 / 58

Fax: +66 (0)2 946 68 59 E-mail: terraco@terraco.co.th Web: www.terraco.com

### TURKEY:

### Terraco Yapi Malzemeleri Sanayi Ve Ticaret AS

Tel: +90 (0)222 236 0423 Fax: +90 (0)222 236 0425 E-mail: terraco@terraco.com.tr Web: www.terraco.com.tr

### Terraco UAE Ltd

Tel: +971 (0)4 326 2699 Fax: +971 (0)4 326 2733 E-mail: terraco@terraco.ae Web: www.terraco.com

### UK:

# ADDAGRIP Tel: +44 (0) 1825 761 333 Fax: +44 (0) 1825 768 566

E-mail: sales@addagrip.co.uk Web: www.addagrip.co.uk / www,terraco.com

### VIFTNAM.

### Terraco Vietnam Co., Ltd

Tel: +84 (0)650 3 820 100 Fax: +84 (0)650 3 820101 E-mail: terraco@terraco.com.vn Web: www.terraco.com

Page 1 of 5





# WEATHERCOAT

**ELASTOMERIC WATERPROOFING** 

### **OVERVIEW**

Weathercoat is an economical, permanent waterproofing system for roofs and facades. The system will adhere to new and old surfaces of concrete, bitumen, and tiles. Weathercoat has long-life flexibility and is ideally suited for use in areas with extreme climatic conditions. It is

PRODUCT GRADES/CODES

 Resin
 66210

 Powder Grey
 76110

 Powder White
 76115

applied by brush or spray and after drying can be walked upon uncovered. After application the Weathercoat system has high resistance to chemical attack, atmospheric pollution, UV light and fire.

### **PROPERTIES**

Weathercoat is supplied as a two component, powder (cement based) and resin (acrylic based) system, to be mixed on site. Different mixing ratios will produce compounds of different degrees of flexibility, suitable for different purposes.

### **Weathercoat Resin**

Is based on concentrated acrylic resins, highly resistant to UV light and alkalinity. The system is permanently flexible and miscible with cement and cement based materials in all proportions. Although developed as a high class waterproofing system, it is very suitable as an additive to mortars and screeds to increase their tensile, compressive and flexural strengths and reduces their water cement ratio.

### **Weathercoat Powder**

Is based on special cements and precisely graded fillers, wetting and adhesion promoters. Properties of the final mix will vary according to the ratio of powder to resin.

### **ADVANTAGES**

- Permanent waterproofing
- Abrasion resistant
- Non-toxic ideal for water tanks
- Weather resistant
- High adhesion power
- Highly flexible
- Vapour permeable
- Cement mortars adhere to it
- Bridges cracks in substrates

### AREA OF USE

For waterproofing most building surfaces e.g. roofs, facades, foundations, retaining walls, swimming pools, planters, wet room floors, water tanks, etc.

### PREPARATION OF SURFACE

Ensure all dirt and foreign matter is cleaned off the areas to be coated. Remove any ridges or form oil. Dusty or flaking surfaces must be cleaned thoroughly, then primed with Penetrating Primer.

### APPLICATION & CLEANING OF TOOLS

Mix the components in the ratios shown in the table below. Add powder to resin and use a high speed mixer or power agitator until the mix is homogenous. If spraying add enough water to bring to the correct consistency. Apply using brush, roller or spray, leave 3 hours between coats for drying. Mixed Weathercoat must be used within 1 hour of mixing.

**Mix Proportions** 

Uses	Waterproof Flexible								
uses	Coating	Slurry	Screed						
Weathercoat Resin	1	1	1						
Weathercoat Powder	2	3	4						
Water	-	0-0.1	0.1-0.2						

Tools may be cleaned with water, ensure this is done within one hour of mixing of materials.

### **HEALTH & SAFETY**

Avoid prolonged contact with eyes and skin. For detailed information refer to relevant material safety data sheet.

### PACKAGING & STORAGE

Weathercoat Resin is supplied in 5kg and 20kg pails. Weathercoat Powder is supplied in 25kg paper bags.

Store containers in a clean dry area protected from direct sunlight and extreme heat and cold. Unopened containers can be stored for 12 months. Use oldest material first.

For further details visit: www.terraco.com

V. 11.2011 - Issued by Terraco Technical Centre, Ireland



# **ALUMINIUM / GLASS**





# **ALUTRADE L.L.C.**

[Aluminium Trading Co.]

# **Product Catalog**



















Email: <u>alutrade@emirates.net.ae</u>
Website: www.alutrademe.com



DORMA



MAB







# INTRODUCTION

ALUTRADE LLC was established in the year 1983. We have gained great reputation in Middle East because of our quality and sincere services. We also known in different Countries like Pakistan, Sri Lanka, India, and Kenya and are a major distributor and supplier. We provide Superior quality and value to serve the needs of business and organization in the field of construction. ALUTRADE will at all times maintain principles of integrity, honesty, and quality.

### **Mission Statement:**

"To be the provider of choice for all building material and accessory needs"

### **Company Description:**

ALUTRADE LLC is one of the first and leading suppliers of Aluminum accessories and building materials in the Gulf for over 26 years. Formed in 1983 and based in Dubai, UAE, ALUTRADE is led by its founder Mr. Abid Hussain and a team of professionals from the construction and engineering industry.

ALUTRADE pride's itself as the provider of high quality aluminum products and is reflective by its long history and large client base in the region (MENA). Focusing on building materials, ALUTRADE provides all the necessary products including but not limited to: aluminum doors and window locks, fly screens, fiberglass screens, tools for glass works, window glass and etc.

ALUTRADE has been the provider of choice of retailers, wholesalers and contractors in the region. ALUTRADE's brand is synonymous with excellence and the company at all times maintains the principles of integrity, honesty, and quality.

### **Customer Info:**

ALUTRADE's current client base consists of approximately 400 international firms. Its primary focus is on the gulf countries but also has a long list of clients in East Africa and Pakistan.

### **Core competency:**

ALUTRADE has over the last 26 years identified the key providers to meet the ever-rising demand for construction in the region. Always ahead of the curve, ALUTRADE understands the need of the growing economy and has accordingly established the necessary partnerships and network with the leading suppliers in the region. ALUTRADE's brand and reach within the gulf countries gives it's customers immediate access to world leading products, which are priced at competitive rates, at their doorstep.



Below is a list, which does not cover our entire range of products. However it gives a brief idea about our business line.

- ➤ Aluminum & Fiberglass Mosquito Netting -- Roll-up Fly Screen.
- ➤ Sliding and Hinge Doors & Windows -- Handles Hinges Locks Rollers Friction Stays Locking Latches.
- ➤ PVC and EPDM Gaskets Weatherstrip Brush Self Adhesive Normal and Automatic Guard Seals PVC Components.
- ➤ Overhead concealed and normal Door Closers Floor Springs Vertical Sliding Window Accessories High Rise Window Operators.
- ➤ Stainless Steel and Galvanized Self-Tapping, Wood and Machine Screws Anchor Bolts Through Bolts Center Bolts.
- ➤ Glass Tools Freezing Bits Cutting Blades H.S.S. Bits Louver Blades.
- ➤ Aluminium and Stainless Steel Pipe Handles Patch Fittings Spider Fittings Show Case Fittings Kitchen Accessories.
- Double Glazing Materials Aluminium Spacer Georgian Bar Molsives (Desiccant) Structural Glazing Tapes Polysulphide Butyl Silicones PVC Components.

We are representing some of the most reputable manufacturers worldwide are as below.

### 1.1 DOMUS – GREECE

Door & Window Locks

### 1.2 SOFI – PORTUGAL

Door Locks & Sliding Handles

### 1.3 SAVIO & GIESSE – ITALY

Handles, Sliding Flush Locks, Curtain Wall Handle, Hinge Window Handle, Restrictor Stays, Rollers, etc.

### 1.4 MAB – ITALY

Floor Springs

### 1.5 **DORMA - GERMANY**

Floor Spring and Frameless Glass Fittings







### CASAL PRODUCTS

### **HINGES**



**MODEL NUMBER: ALU 001** 

# Available in: white, black, silver and mill finish

### **Components**

- 1 pc extruded aluminium male hinge
- 1 pc extruded aluminium femail hinge
- 1 nylon bush
- 2 stainless steel securing plates aisi 430
- 4 M5 steel screws aisi 340
- 1 stainless steel pin, d. 7xL.76



**MODEL NUMBER: ALU 002** 

# Available in: white, black, silver and mill finish

### Components

- 1 pc extruded aluminium male hinge
- 1 pc extruded aluminium femail hinge
- 1 nylon bush
- 2 nylon caps
- 1 galvanized pin d. 8xL52
- 2 fixing plates inox aisi 430



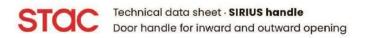
**MODEL NUMBER: ALU 003** 

# Available in: white, black, silver and mill finish

### Components

- 1 pc extruded aluminium male hinge
- 1 pc extruded aluminium femail hinge
- 1 nylon bush
- 2 stainless steel securing plates aisi 430
- 4 M5 steel screws aisi 340
- 1 stainless steel pin, d. 7xL.76







### **UNE standards**

The following products have been tested in accordance with the procedures described in the building hardware standards:

### » UNE-EN 1906: 2015

Lever handles and knob furniture. Requirements and test methods.

### » UNE-EN 1670: 2007 · AC: 2008

Corrosion resistance. Requirements and test methods.

The standard has been developed by the Technical Committee for Standardisation CTN 85: Closure of frames in building and related products. Secretary: ASEFAVE, Asociación Española de Fabricantes de Fachadas Ligeras y Ventanas.

2

3



### Hardware classification

1

DIGIT

The values indicated below have been obtained in the STAC Test Laboratory in accordance with the procedures described in the European standard UNE-EN 1906: 2015, \* Building hardware. Lever handles and knob furniture. Requirements and test methods. \*\*

4

5

6

7

GRADE	2	6	-	0	0	4	0	В
digit 1	Use category		e 2: average frequor office doors.	uency of use by p	persons paying at	tention and wher	e there is some r	isk of misuse, e.g.
digit 2	Durability	Grad	e 6: average frequ	ency of use: 100.0	00 opening cycles	; (+1%).		
digit 3	Mass door	- no r	equirements.					
digit 4	Fire resistance	Grad	e 0: without a spec	cific benefit.				
digit 5	Safety of use	Grad	e 0: normal use.					
digit 6	Corrosion resistance	Grad	e 4: 240 hours, ver	y high corrosion r	esistance.			
digit 7	Security	Grad	e 0: without a spec	cific benefit.				
digit 8	Type of operation	Grad	e B: door device w	ith handle return	spring.			



A05082 - A05083 - 0508029

🔯 info@stac.es » stac.es

10.00





### References

Reference	Description		\$pindle
A05082 **	SIRIUS ambidextro	us single handle with zinc plated steel spindle	8 x 129 millimetres
A05083 ++	Set of SIRIUS hand	le with zinc plated steel spindle	8 x 129 millimetres
0508029 **	SIRIUS keyhole cov	er plate	•
00 Bare met	al (without finishing)	01 White lacquered finish	02 Black lacquered finish
81 Special to	acquered finish I	52 Special lacquered finish 2	 93 Special lacquered finish 1

AGSCR2 - AGSCR3 - GSGRC29

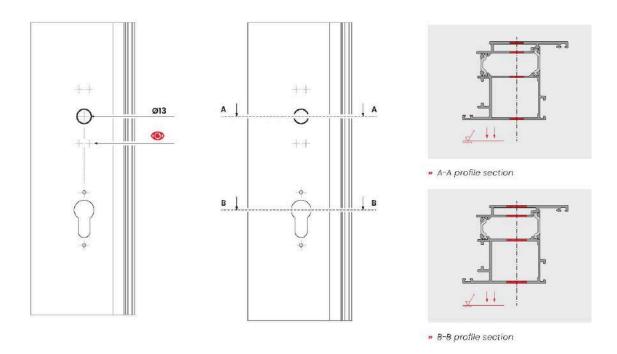
info@stac.es stac.es





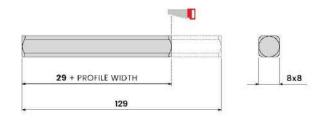
### **Profile machining**

Considerations	SIRIUS doc	or handles are fixed to the profile by means of self-tap	ping screws.	A05082	A05083
	[]>>>	TORX DIN 7984 4.8 x 19 self-tapping screws	(6)	Includes 8 pcs.	Includes 4 pcs.



### Transmission spindle

All references include 8 x 8 x 129 millimetres transmission spindle.



AC5082 - AC5083 - C508029

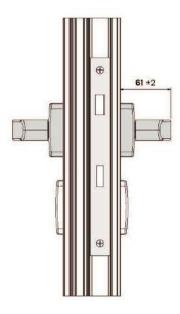
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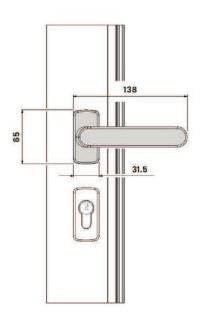


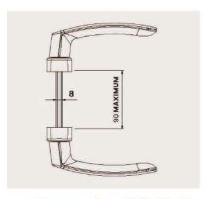


### Overall dimensions

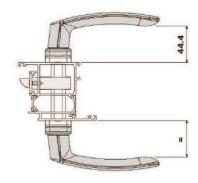












A05082 - A05083 - 0508029

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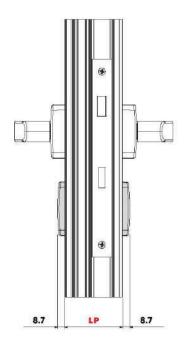


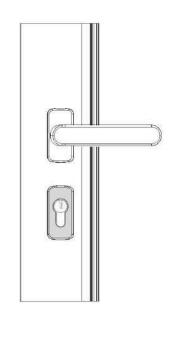


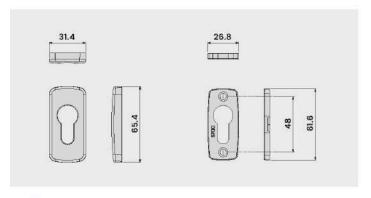
0508029

### Overall dimensions

Considerations In order to select the right cylinder you should take into account: " Length of door system profile LP Keyhole cover plate depth 8.7 millimetres







Cylinder keyhole cover plate and counterplate for profile fixing.



Ref. 0508029 does not include the fixing screws or the European cylinder.

ACSCR2 - ACSCR3 - CSCRC29

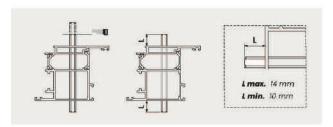
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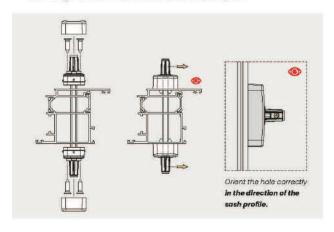


### Fixing to the profile by means of self-tapping screws

### 01 Installation of the transmission spindle

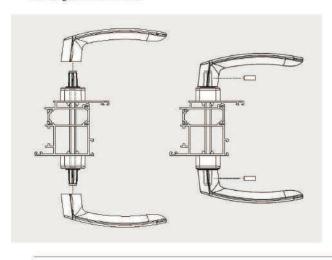


02 Fixing the base mechanism and the cover plate





03 Fixing of SIRIUS handles





AG50R2 - AG50R3 - C50RG29

info@stac.es stac.es



141N Debiancest 2017\_11 EM - Non confractual document. Subject to change



# TECHNICAL

85 mm centre distance FEATURES:

Latchbolt operated by handle and key with european profile cylinders Latchbolt and deadbolt flush with front plate

For metal frames (codes 741N): 741N series is interchangeable with the previous version 741 8 mm handle follower

(real backsets 21, 26, 31, 36 mm) Front plate in chrome-plated steel Backsets 20, 25, 30, 35 mm 22 mm squared front plate

(2,7 mm thickness) or in stainless

For wooden frames (codes 200N): steel (3 mm thickness)

Front plate in brass-plated steel (real backsets 26, 31, 36 mm) in gold-painted steel (2,7 mm Backsets 25, 30, 35 mm

# **KEY POINT**

 Closed case on all sides. This stops door chips and shavings from getting jammed in the lock;

2 fixing holes, 21,5 mm (bottom) and 46 mm (top) from the handle

Case painted marbled grey;

Reversible latchbolt, no tools

15 mm single throw.

www.iseo.com

# PRODUCT

MORTICE LOCKS, CENTRE DISTANCE 85

Tel.: +971 4 5759272

The mortice lock 741N series with centre distance 85, with new features with glass. It can be used with the wide range of Iseo cylinders, giving to and a wider range, can be installed on metal doors or wooden frame doors the doors different security levels.

# OPERATION

The deadbolt and the latchbolt are operated by the key. The latchbolt is operated by the handle.

# RANGE

Mechanical lateral locks, centre distance 85, with the following functions:

Latchbolt and deadbolt (741N series - 200N series);

Roller and deadbolt (743N series); Deadbolt only (745N series);

Latchbolt only (749N series).

# CERTIFICATION

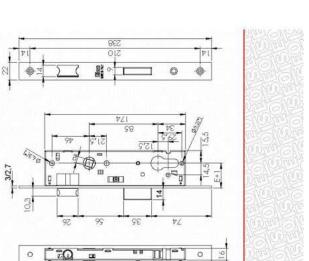
# EN12209

# COMPATIBLE PRODUCTS

Striking plates (please refer to ISEO general catalogue).

# **TEXT FOR SPECIFICATIONS:**

ISEO 741N series mortise locks for framed glass doors, with 85 mm handle-cylinder centre distance, latch retractable with handle and key, and 14 mm thick latch with 10.3 mm protrusion.



Email: info@espectro-me.com

Tel.: +971 6 5735216

P.O.Box: 52913 Dubai - UAE

















### CLEAR FLOAT GLASS

### THERE'S ONLY ONE NAME YOU NEED TO KNOW: GUARDIAN.

Guardian Float Glass is manufactured throughout the world using the latest in glass-making technology. With numerous manufacturing facilities, Guardian can meet the needs of the architectural glass market with quick and reliable service.

### CHARACTERISTICS

- High light transmission
- Optical clarity
- Can be further fabricated into reflective, low-E, larminated, security, insulating, heat-treated and ceramic decorated glass.

### APPLICATIONS

Clear Glass: Ideal where high visibility and clarity are required.

- Windows
- III Solariums
- Sholvas
- Tablotops
- Skylights
- III Groonhouses
- Display cases
- Picture frame glass
- Doors
- III Mirrors
- III Handrals
- Applances
- M Attums
- Safety glazing
- Furniture applications









### FUJAIRAH ROCKWOOL FACTORY

REF: FRF-TDS/0417/2019

(Subsidiary of Fujairah Building Industries P.S.C.)



مصنع الفجيرة للصوف الصخري

(اللبع الشركة اللجيرة استلمات البناء في مرح)

DATE: 28 March 2019

# Fujairah Rockwool Slabs With Aluminium Foil Facing On One Side S2XX

Thickness: 50 mm
Density: 50 kg/m<sup>3</sup>



Fujairah Rockwool slabs conforming to ASTM C-612 and equivalent BS-3958 Part 5 are designed for thermal and acoustic insulation of flat or slightly curved surfaces. These slabs are produced from long, non-combustible resin bonded fibers. They are easy to cut, fit and handle. The robust fibers in the slabs combine high levels of thermal efficiency and acoustic absorption.

### **Applications**

Designed for a wide range of applications at both high and low service temperatures. It can be used on both flat and slightly curved surfaces for thermal and acoustic insulation.

They are also suitable for thermal insulation of ducts, tanks, large vessels, cavity walls, curtain walls and sandwich panels.

### **Standard Delivery**

Available in standard width of 600 mm and length of 1200 mm.
Other sizes are available upon request.

### **Service Temperature**

Plain Rockwool Insulation has a service temperature of 780°C when tested in accordance with DIN 52271 for 80mm thickness and 100 kg/m³ density. However there is possible deviation for lower densities and with facings.

The user is advised that it is possible that the maximum use temperature of facings and adhesives is lower than the maximum use temperature of the insulation. The user shall ensure that sufficient thickness shall be installed so none of these accessory items (facings and adhesives) are exposed to temperatures above their maximum use temperature.







Certificate Number: 1187 Certificate Number: 2326 Certificate Number: 11

ص.ب، ٢١١ - الفجيرة - الإمارات المربية المستحدة، تليفون، ٩٧١٩٢٢٢٢٩٧ - ماكس، ٩٠٠٩٢٢٢٢٩٧ . P.O. Box:211, Fujairah, United Arab Emirates, Tel.: 00971-9-2222297, Fax: 00971-9-2222573 E-mail: frf@frf.ae, Website: http://www.frf.ae



United Arab Emirates
Ministry of Interior
General Directorate of Civil Defense
General Department of Civil Defense Abu Dhabi

2013113360854: 2022: 0501919347 06/09/0022 (22724916198836933303) (24)> 2012 CN 1005988 29/09/2022 2013113360854 08/08/2023

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0551560579 29/09/202201:41 AM 2

Tel.: +971 4 5759272

Tel.: +971 6 5735216

P.O.Box : 52913 Dubai - UAE

Email: info@espectro-me.com



### **TECHNICAL DATA SHEET**



# **ACETIC SILICONE**

### **General Purpose (SL212)**

### CHARACTERISTICS

- Excellent weatherability
- Fast curing

PATTEX\_ACETIC SILICONE\_SL212\_GCC\_0213

· Anti fungus

### **SCOPE OF USE**

ACETIC SILICONE (General Purpose SL212) is a one component, ready-to-use silicone sealant for general purpose sealing applications (indoor and outdoor). It is suitable for bonding and repairing properties of a wide variety of joints, it cures at room temperature and in the presence of air moisture to form a flexible and resistant joint.

### **APPLICATION**

### **Surface preparation:**

Surfaces must be dry, clean of dust and free of any substances which may impair adhesion.

### Application procedure:

Cut off tip of spout at  $45^{\circ}$  angle, load cartridge into gun and apply steadily.

### Cleaning:

Clean residue and tools with cloth.

PACKAGI	PACKAGING INFORMATION												
Packaging Size	Packaging Type	Pieces/ Carton	IDH	Country of Origin									
280 ml	Cartridge	24	1719790	Germany									
280 ml	Cartridge	24	1719466	Germany									
280 ml	Cartridge	24	1719465	Germany									

<sup>\*</sup>Colours available (in respective order): Transparent, Black & White



### **STORAGE & SHELF LIFE**

This product should be stored in its original packaging in a cool, dry place, protected from frost, sparks, flames and direct sunlight. Keep away from children. Shelf life: 12 months from manufacturing date.

### **HEALTH & SAFETY**

Irritating to the eyes and skin. Repeated exposure may cause skin dryness or cracking. Vapors may cause drowsiness and dizziness. Keep out of reach of children. Keep container in a well-ventilated place. Keep away from sources of ignition - No smoking. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. If swallowed, seek medical advice immediately and show this container or label.



# **HVAC**



# 18000 BTUs Split Air Conditioners – eJET Series SGS195GE

# **SPECIFICATIONS**

Rated T1 Capacity (Btu/h)

18000

Compressor Type

**ROTARY** 

Climate Type / Air Flow

T3/550/650/780

Refrigerant Type

R410a

Voltage (V, Hz, Ph)

220-240V, 1Ph, 50Hz

Dimension (Indoor-Prod/Pack WxDxH mm)

965x215x319 / 1045x305x405

Dimension (Outdoor-Prod/Pack WxDxH mm)

845x363x702 / 965x395x765

Weight (Indoor) (Net /Gross Kg)

11.5/15.0

Weight (Outdoor) (Net /Gross Kg)









20 Sound ab 21 Sound transi								16 Dry file	15 Type / fir		14	13 0			11 Linear The	10 Ek	9 Peel o	7	6 Yield	5 Tensi		4	3 Core	2 Aluminium	1 ACP		
	THERMAL PROPE	Sound transmission Loss (Rw)	Sound absorption factor	TICAL	Salt Spray Test	Pencil hardness	Gloss Type	Dry film Thickness	ype / finish (top side)	SURFACE FINISH PROPERTIES	Color	Density	Core	CORE PROPERTIES	Linear Thermal Expansion	Elongation	Peel off strength	Alloy	Yield Strength	Tensile Strength	MECHANICAL PROPERTIES AL COIL	Weight	Core thickness	Aluminium Skin thickness	ACP Thickness	ACP TECHNICAL SPECIFICATION	
5	PROPERTIES	Db		PROPERTIES	Paint performance	10000	%	coat system	PE/HDPE/PVDF	OPERTIES	As per PO	G/cc	virgin or recycled?		mm/m @100°C	%	Nimm		N/mm2	N/mm2	TIES AL COIL	kg/m²	mm	mm	mm	CIFICATION	
250		30	0.15		Pass for 3000 Hrs	H pass	As per customer req.	25 microns	34			1	Recycled		2.4	>3	8	1100-H-16	155	165		4.5±5%	3.6	0.21	4±0.2		





### RAMCO-HICEM FIBRE CEMENT BOARDS

HICEM – Non-combustible multi-purpose fibre cement flat boards are made as per IS:14862-2000.

The Product contains cement, cellulose fibres and minerals cured under HPSC technology.



HICEM has superior attributes including Fire, Termite, Water and Moisture resistance, good dimensional stability and smooth finish.

The Product is available in various dimensions and thicknesses and can be used for interior and exterior applications. HICEM replaces plywood, particle boards and other wood based products.

PROPERTIES	UNIT	STANDARD	VALUES
Thickness	mm		4,6,8,9,10,12,16 and 18
Length	mm		595, 610, 1195, 1220,1830 and 2440
Width	mm		595, 610 and 1220
Physical:			
Apparent density(Dry)	Kg/m <sup>3</sup>	IS: 14862	>1200
Compressive strength	N/mm²	ASTM D1037	>30
Tensile strength	N/mm²	ASTM D1037	>20-Longitudinal and >18-Transverse
Modulus of Rupture (EMC)	N/mm²	IS: 14862	>10
Screw Withdrawal Strength	N	IS: 2380 Part XIV	>1300
Alkalinity	pH		8 - 9
Moisture content (EMC)	%		< 12
Sound Insulation:			
Acoustic Insulation	dB	IS: 9901-Part 3:1981	29
Heat Insulation:			
Thermal conductivity	W/m-K	ASTM C177 & ISO 8302	0.18
Fire Protection:			
a) Combustibility		BS 476: Part 4:1970	Non-combustible
b) Surface spread of flame	TUV	BS 476: Part 7:1997	Class - 1
c) Ignitability	SUD	BS 476: Part 5: 1979	'P' - Not easily ignitable
d) Fire Propagation Index	PSB Singapore	BS 476: Part 6: 1989 + A1:2009	I = 0.7
Durability:			
Water Impermeability		IS:14862	Passes
Freeze thaw test	*	IS:14862	Passes
Warm Water		IS:14862	Passes
Soak dry	-	IS:14862	Passes
Heat rain		IS:14862	Passes
Biological			No fungus growth



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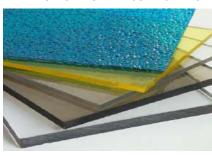
CMS CMS CMS CMS CMS CMS CMS CMS CMS CMS CMS CMS CMS CMS CMS CMS Chemical & Metallurgical Services NABL (NABL ACCREDITED LABORATORY)
T.S.No.63-A, SIDCO Industrial Estate, Ekkaduthangal, Chennai - 600 032, Tamilnadu INDIA.
Phone: 91-44-2225 3863, 2225 3547 Mobile: 9445067918 Tele Fax: 91-44-2225 2944,
After Off. Hrs: 91-44-2245 1794 E-mail: rmd@sify.com / cmslab81@gmail.com ISO 9001 : 2008 CMS CMS Page: 1 of 1 CMS TEST CERTIFICATE CMS CMS/LTR/T-8484-Y/2014-15 26-07-2014 Test Report No. Date Ramco Industries Limited Issued To Mylapore, Chennai-4 Your Ref. : Letter Dt: 17-07-2014. No. of Samples : Physical Test. Date of Receipt of Sample : 17-07-2014 1No. Date of Testing : 18-07-2014 Nature of Test Nil. Enclosures **TEST RESULTS** Test Method : IS: 2380, ASTM C1185. Sample Details Cellulose Fiber Cement Board ( Hicem Board ) CHARACTERISTICS RESULTS CMS (1) Screw withdrawal Strength (N) = 2538 Swelling in water (2) Change in thickness % 0.55 (3) Change in Length % 0.01 CMS (4) Water Absorption % 34.28 CMS CMS \*\*\*\*END\*\*\*\* R.M.D. NAYAR (Ex - Scientist - NML -CSIR) Technical Director Recognised & Approved Laboratory by Steel Authority of India Ltd. RITES LTD, Airports Authority of INDIA LTD. Defence Establishments, CMS National & International Third Party Inspection Agencies & Many other State & Central Government Establishments. Note:- This report relates only to the particular Sample submitted for test. Any correction not attested shall invalidate this certificate. Sample will be destroyed CMS after 15 days from the date of issue of certificate unless instructed otherwise. Any complaints about this report should be communicated in writing within 7 days of the issue of this report. This report should not be reproduced wholly or in parts and cannot be used as evidence in a court of law and shall not CMS be used in advertising media without prior permission in writing. Sample descriptions is not verified in all case and is given as described by the customers Samples are not drawn by us unless otherwise stated. Website: www.cmslab.in





### EMIRATES PANEL PLASTIC INDUSTRIES L.L.C

### **EPM POLYCARPONATE SOLID SHEETS**



# Properties of EPM Solid polycarbonate Sheets:

- 1- Very high impact resistance.
- 2- Up to 89% light transmission.
- 3- Thermal insulaton
- 4- Flame resistance.
- 5- Uv protection.
- 6- Sound insulation.
- 7- Excellent thermoforming capabilities.
- 8- Outstanding weatherability.
- 9- Easy fabrication.
- 10- Excellent resistance to dilute acids and mineral oils.

# Application of EPM Solid Polycarbonate sheets:

- 1- Polycarbonate visor.
- 2- Police shield.
- 3- Skylight and roofing.
- 4- Swimming pool enclosure and covers.
- 5- Carport kits.
- 6- Green house.
- 7- Signs and graphics.
- 8- Building windows&Doors.
- 9- Lightining&electric compenets, fixtures.

### **Product Data Sheet**

General properities	Method	unit	value
Density	ISO 1183-1	gr/cm3	1.2
Flammability		mm	1.48
water absorption saturation	ISO 62	%	0.45
water at 23 C			
water absorption equilibrium	ISO 62	%	0.12
23 c, 50% relative humidity			
Forming temparature		С	180-210
MECHANICAL PROPERTIES			
Tensile moduls	ISO 527-1,-2	Мра	2400
Yield stress	ISO 527-1,-2	Mpa	60
Yield strain	ISO 527-1,-2	%	6.3
Nominal strain at break	ISO 527-1,-2	%	50
Stress at break	ISO 527-1,-2	Mpa	70
Strain at break	ISO 527-1,-2	%	125
Flexural strength	ISO 527-1,-3	Mpa	100
Taber Abrasion		mg/1000 cycles	10
Impact Resistance		joules	72
Charpy impact strength	ISO 179-1	kj/m2	No Break
THERMAL PROPERTIES			
Vicat softening temperature	ISO 306	С	148
Thermal conductivity 23 c	ISO 8302	W/(M.K)	0.2
Coefficient of linear thermal	ISO 11359-1	m/m C	70x10 <sup>-5</sup>
Expansion, parallel 23 to 55 c			
Shrinkage		%	< 3
Temperature of deflection	ISO 75-1,-2	С	132
Under load 1.80 Mpa			
Temperature of deflection	ISO 75-1,-2	С	140
Under load 0.45 Mpa			
ELECTRIC PROPERTIES			
Volume resistivity	IEC 60093	Ohm.cm	1.00E+15
Electric strength	IEC 60243-1	kv/mm	30
Surface resistivity	IEC 60093	Ohm	1.00E+16
Dissipation factor - 100 Hz	IEC 60250	104	5
Light transimiision		%	85

Thickness of solid p	olycarbonate sheets
Thisles are in man	overall thickness
Thickness in mm	tolerance (mm)
1.5	±0.15
2	±0.2
3	±0.3
4	±0.4
5	±0.5
6	±0.3
7	±0.35
8	±0.4
9	±0.45
10	±0.5
12	±0.6

Size of EPM Solid Polycarbonate sheets								
Max. Width (mm)  Standard Width & Length Length (mm) Tolerance								
2010	3000	-0.1 % ; +0.3 %						

<u>Sheet.</u> \*Depends on customer request thickness: 1 - 12 mm

Length: unlimited but normally 3 meters is widely in use

width: for thickness of 1.2 and below 2mm up to 1.22 meters,

for thickness of 2 - 12mm up to 2 meters

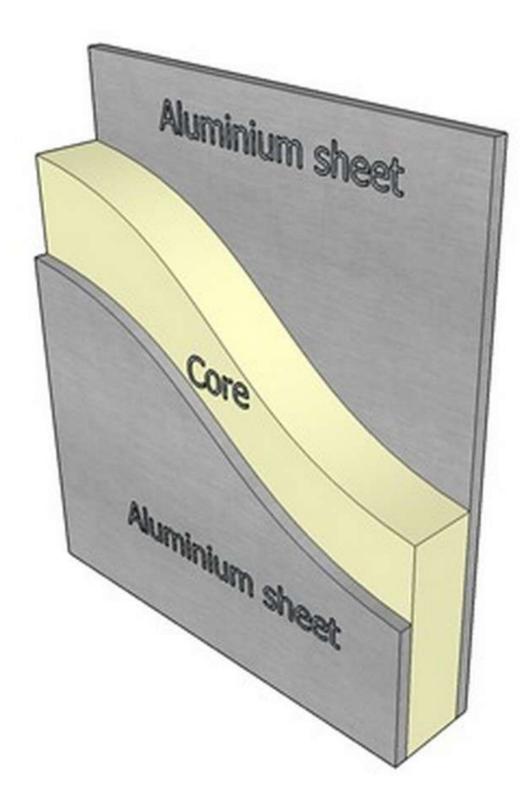
Roll.

Thickness: 1.2 - 4 mm

Length: normally 30 meters is widely in use

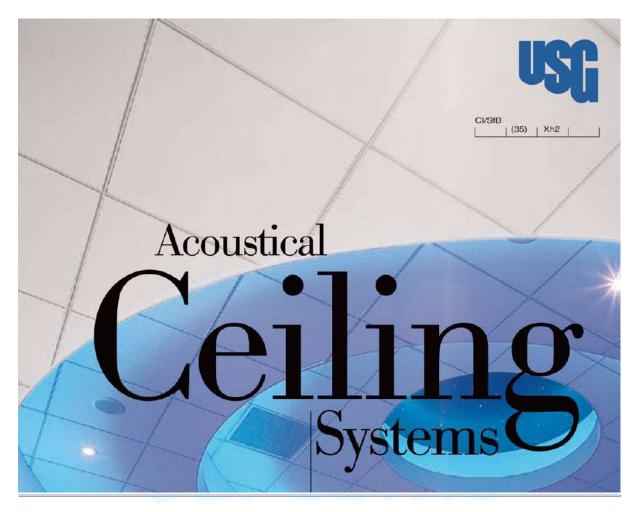
Width: up to 1.22 meters







# FALSE CEILING



GENERAL TRADING



Sound attenuation

"Sound attenuation" refers to the attenuation of

noise passing into a room from outside, such as room-fo-room noise or make from above ceiling services. The test data in d8 (bncW) for each tile gwes gudance on the sound issuation, but it should be seen in the context of the overall room

# Technical performance selector

Today's building designs require demanding performance in many areas including fire, accustics, humidity resistance and hygiene. USG offers a range of products for interior applications, designed to meet these performance criteria.

						Accestical Performance	ice
Product Name		Type	Humidity Resistance Max % RH / *C	Thermal resistance R value at *C/W	NIC	WD	DecW
Scratone	6	7	95/40	0.38	0.75	HM 02.0	38#8
Ceramic Radar	7	8	100/40	0.22	0.50	0.50	4168
Clean Room	9	20	95/12	025	0.15	0.15	35d8
Diympia II Micro	13	8	95/12	026	0.60	0.55 (L)	3268
Badar Camapius	11	B	95/22	0.25	0.70	0.70	31d8
Bostu	i.	0	70/50	28	0.65	0.50.64	3348
			- Company	-	-	2000	

						Accestical Performance	æ
Rame		Typo	Humidity Resistance Max % RH / *C	Thermal resistance R value at "C/W	NRC	Wo	DesiW
	0	20	95/40	0.38	0.75	HW 05.0	3849
Radar	7	8	100/40	022	0.50	0.50	4108
0000	9	20	95/12	025	0.15	0.15	35d8
il Micro	10	8	95/12	025	0.60	0.55 (L)	3268
amaphas	11	8	95/12	0.25	0,70	0.70	31dB
	15	æ	70/29	0.25	0.55	0.50 M	34d8

Fire Reaction BS 476; pt 6 & 7

Stoct Beam BS 478: pt 23

Timber Floor BS 476: pt 21

Mezzanine Floor BS 476: pt 21

Binefit

Reaction to fire EN 13501-1

Release of Ashestos

EN 13964 - Table 7

80 mins

60 mins

60 mins

A2-61, 00 A2-61, 00

Class Et

Class

1121 - CPD - HC0030 1121 - CPD - HC0002 1121 - CPD - HC0031

60 mins

60 mm

A2-61, d0

Class

1121 CPD -CPD - BC0002

A2-91, d0

No cament

Class E1 Class E1

Class A

1121 - CPD - BC0002

30 mins

# Acoustics



often plays an important port in improving productivity, comfert and peoples sense of well being. Through appropriate selection and pleasement of USG accusted a celling systems, it is possible to improve speech intelligibility. A balanced acoustical environment

sound. The two main accustical performance ratings indicate panel performance: Acoustical ceilings absorb and/or attenuate

within a space or between adjacent offices reduce unwanted noise or increase privacy

c/W, NRC - defines the average sound absorption

Sound absorption

of a ceiling system



Sound attenuation

# Humidity



to relative hundrity (RH) is crucial in determining the best product for any application. USG's specially formulated colling punetic resist high heat and hundrity without visitle sag and are available in a range of performance colores up to 100%, RH/40°C.

The USG ceiling tile range meets or exceeds the minimum requirements of BS8290 (1991) as defined as:

(max. 25±2°C/65±5%RH) b. High humidily environments (max. 25±2°C/90±5%RH) . Normal environments

conditions such as exterior sofflis, parking garages or awimming pools, products with 100% RH44°C are recommended, install with DJNN Brand DX244B corresion resistant grid. • For applications with uncontrolled For applications in extreme environmental

environmental conditions, natural ventilation systems, or in humid areas such as products with 95-99%RHV40°C or better are washrooms, kitchens or wet process areas,

For applications with intermittent heating and cooling systems, products with 90%RH32°C or better are recommended.
 For applications with normal controlled

RH/29°C or better are suitable environmental conditions, products with 70%

Fire



Life safety and protection of property are important considerations in the design and septicication of acoustical ceiling systems. Specially formulated Frenche (Fr) rated ceiling panels are a crucial component of 15% tested for protection systems. Specification and

selected fire test description of the system installation must be in accordance with the

Celling products are generally considered suitable for multi-use buildings when the products conform to BS 476 part 6 and 7.

BS 476 part 6 is the fire propagation classification which compares the constitution of performance class 0 combusible materials to the development of fire

All USG titles achieve Class 1 and Class 0 as designated by BS 476 part 7 and 6, and as materials to support the spread of flame acros the surface. (Best performance Class 1, worst BS 476 part 7 is the surface spread of fiame classification which indicates the tendency of required by Building Regulations Approved performance Class 4.)

ensure the validity of a "fire protecting" ceiling, installation must be as described in the relevant test report. Any afteration may affect the fire protection capabilities of that ceiling system. section 7, determines the protection provided to a loaded timber floor structure, in order to

For further information or advice on our testing, products or relevant standards, please contact your local representative or our Technical Services Department.

Fire protection
Structural fire protection BS 476 parts 21 and 23

Suspended ceilings can be used to provide protection to the structural elements of a building, in the event of a fire, the oriling membrane protects the structure for a period of time enabling sevecation and fire highfrig. The period of protection is elemented by hesting to BS 476 part 23, Teating to BS 476 part 21, BS EN 13964:2004 Suspended Ceilings

USG ceiling systems must be installed and maintained in accordance with current USG written instructions and industry best practice as defined by BS 8290.





provides information for parties responsible for designing, manufacturing and specifying/ selecting suspanded ceilings used for interior applications. It covers suspanded ceilings sold as kits, irdicidial components and membrane components and describes test methods and the evaluation of conformity of the products to the requirements of this standard. effective from 1st January 2005, which This is the new harmonised European methods of assessment as well as provisions for

USG offers a lifetime (30 year) limited warranty on utra high performance tites and a 15 year limited warranty on high performance tites when installed on USG's DONN Brand suspension grid. Refer to USG Technical Services Department for details.

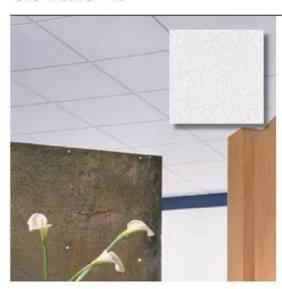
Tel.: +971 6 5735216

P.O.Box: 52913 Dubai - UAE



# Sonatone





SLT/DX24

FLB/DX15

### Description

 Accessible acoustical ceiling system with fine textured laminated panels.

### **Features and Benefits**

- · Durable laminated construction
- High sound absorption, for effective reduction of unwanted noise
- Mid range sound attenuation, ideal for general commercial construction
- High light reflectance, to improve lighting efficiency and reduce energy costs. Ideal for use with uplighters
- Air filtration resistant, panels stay cleaner longer, ideal for applications with 'return air plenums'
- Cleanroom classified, Federal Spec. 209E class 10,000 option (Ref. USG)
- Scrub resistant. Dirt marks are easy to remove
- Scuff and scratch resistant, for longer life and lower maintenance costs
- Ultra high humidity resistant, ensures durability in standard or extreme environmental conditions. May be installed early in the building program
- Fire resistant system options, for life safety and protection of property
- Durable fully painted and sealed edge options (SLT, FL), ideal for frequently accessed ceilings

### **Applications**

- Education
  - Healthcare
- OfficeRetail
- Hotels
- Sport
- Leisure

Pattern	Type *	Edge	Size (mm)	Item No.	Acoust	ical performat	ice	LR	Colour	Grid option
					NRC	αW	DncW			
Sonatone	R	SQ	600 x 600 x 19	ME 86185	0.75	0.70(MH)	38dB	92%	White	A,D1
Sonatone	R	sa	1200 x 600 x 19	ME 88185	0.75	0.70(MH)	38dB	92%	White	A,D1
Sonatone	R	SLT	600 x 600 x 19	ME 86785	0.75	0.70(MH)	38dB	92%	White	E
Sonatone	R	FLB	600 x 600 x 19	ME 86985	0.75	0.70(MH)	38dB	92%	White	K,M
* Type: R: Regular										

Sound	Hz	125	250	500	1000	2000	4000
Absorption	αS	0.67	0.39	0.67	0.97	1.02	1.04

### Warranty

10 year panel or 30 year system warranty, ref USG.

DONN ® Grid Options

SQ/DX35

A SQ/DX24

### Composition

Contains recycled material, no asbestos. Tile is a patented process blend of NC mineral tibre, inorganic fillers and speciallty hydrophobic organic binders. Pre-finished with painted glass tissue laminate. Material safety data sheet available on request.

### **Humidity Resistance**

Maximum 95% RH / 40°C Class C (BS EN 13964)

### Fire reaction

BS 476 Pt 6/7 Class 1/0 A2-s1, d0 (BS EN 13964)

### Air filtration resistance

>8000 Pa.s/m per ASTM 522C Classified as low fibre emission when tested to Nord Test method NT Build 347 at the Danish Technological Institute.

### Scrub resistance

FLB/

Scrub resistant, exceeds 5000 cycles per ASTM D 2486-89.

### Scratch resistance

Scratch resistant - no visible damage by metal shim up to 20mm using surface scratch test.

### Thermal resistance

R 0.38 m<sup>2</sup> °C/W

### Release of asbestos

No content (BS EN 13964)

### Release of formaldehyde

Class E1 (BS EN 13964)

### Weight

5.7 kg/m<sup>2</sup>

### Maintenance

Easily cleaned using soft brush, vacuum or damp sponge.

### Indoor Environmental Quality (IEQ)

This product has particular performance characteristics that benefit designers striving for Indoor Environmental Quality.



### BS EN 13964:2004 Suspended Ceilings

is the new harmonised European standard, effective from 1st January 2005, which provides information for parties responsible for designing, manufacturing and specifying/ selecting suspended ceilings used for interior applications. It covers suspended ceilings sold as kits, individual components & membrane components and describes test methods & methods of assessment as well as provisions for the evaluation of conformity of the products to the requirements of this standard.

This product has been subjected to factory production controls and additional testing according to a fixed test plan and the recognised testing office Warrington Certification Ltd. Holmesfield Road, Warrington, WA1 2DS, UK has performed all tests of the relevant properties of the product and provided an EC certificate of Conformity, number: 1121 - CPD - BC0030



# Installation and maintenance

### System performance

USG ceiling systems should be installed in accordance with recommendations described within this catalogue and the DONN grid application guide. System performance following any substitution of materials or compromises in assembly cannot be guaranteed and may result in failure under critical conditions. Reference should be made to BS 8290 1991 Suspended Ceilings parts 1, 2 and 3, and the European Standard for Suspended Ceilings BS EN 13964:2004. COSHH data sheets are available on request.

### Site storage and handling

Storage on site should be as short as possible with environmental conditions as near as possible to those specified for occupancy (see below). Any storage area should be secure and fully protected from the weather with cartons stored on a clean, dry base. Cartons of material should never be rolled, dropped or slid, and under no circumstances used as a workbase or substitute for ladders, scaffolding, etc.

### Pattern direction

With directional face patterns, such as Glastone, Sandrift and Frost, the orientation of pattern relative to light sources should be carefully considered for desired visual effect, and specified and installed accordingly. Variations in colour and fissure size in Glastone, Sandrift and Frost ceiling tiles will be of little consequence within a single production batch. However, minor variations can occur from time to time, and projects should be planned so that all material for continuous ceiling space is ordered and delivered from the same production batch. USG tiles are marked with a directional arrow on the back and should always be installed with this in alignment to ensure total consistency of pattern and paint shade in a production batch.

### Overlaid material

Wherever possible overlaid material, such as insulation, should not be laid directly on the back

of the ceiling membrane, as this will compromise the fire resistant properties of the ceilings. In normal conditions (BS 8290), overlaid material should not exceed 3.6kg/m² weight. For high humidity environments, overlaid installation shall be limited to 1.2 kg/m².

### Installation/environmental conditions

For applications with normal controlled environmental conditions, products with 70% RH/29°C or better are suitable.

Installation should only take place under ambient conditions after residual moisture from concrete and plaster has dissipated.

The recommended relative humidity should not exceed 70% RH within a temperature range 65-85°F, 18-29°C for installation and occupancy.

Once ceiling installation has commenced, it is essential that RH% and temperature be maintained at acceptable levels by heating the building if necessary. Dry heating should be employed and paraffin or gas heaters avoided. These recommendations should still be applied between completion of contract and the occupation of the building. Unoccupied buildings with uncontrolled atmospheres may have a wide temperature range during a 24 hour period which could lead to an unacceptable change in dimension stability of the ceiling panels, causing excessive sag.

For applications with intermittent heating and cooling systems, products with 90%RH/32°C or better are recommended. (See Technical Performance Selector, pages 4-5.)

For applications with uncontrolled environmental conditions, natural ventilation systems or in humid areas such as washrooms, kitchens or wet process areas, products with 95-99%RH/40°C or better are recommended. (See Technical Performance Selector, page 4-5.)

Ceramic Radar ceiling panels perform especially well in areas such as swimming pools, where the ceiling may be subject to unusually high levels of humidity up to 100% RH and chemical attack. They should be installed with USG DONN Corrosion Protected ceiling grid and appropriate hangers to resist corrosion.

All USG tiles should be protected from sustained direct contact with water.

### Maintenance and cleaning

General cleaning of dust and loose dirt may be easily achieved using a soft brush or vacuum cleaner. Soiled panels can be cleaned with an art gum eraser or dampened cloth or sponge containing as little water as possible.

Clean Room tiles can be wet wiped on a regular basis without damage.

Panels should never be soaked or immersed in water

Cleaning can also be carried out by specialist contractors using proprietary methods and chemicals. It is strongly recommended that a trial area be cleaned to ensure that there is no detrimental effect on the ceiling panel or grid.

### Re-decoration

It should be noted that a new paint finish may compromise the Surface Spread of Flame classification and acoustic absorption for that panel.

Please consult the USG Technical Services Department for expert advice and recommendations.

# Custom products

In addition to a wide standard range, USG can satisfy specifiers' needs for non-standard, specialised ceilings. Please talk to your local USG representative to arrange production of your specific ideas.



# HEAVY DUTY - STANDARD DONN DX24

dain Runner DX3600H

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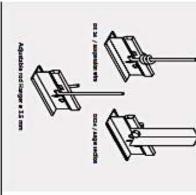
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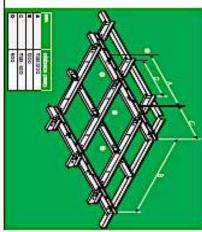
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# long Cross Tay DXTDDHUD / DXTDOOLM t

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rum allowed weight of ties per m <sup>2</sup> of ceiling	A	ē	
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180 kg		]

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Spring clip

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Metablis

All USG Broth ME suspension systems feature a body
and cap made of hot-dip galversed sheet. To ensure that
the cap remains attractive and nut-thee for long term,
manufacturing rectudes an exclusive loss steep coating process
that outperforms the competition in part achieves must
correction resistance, as proven by industry standard suff aptay texts conducted by an independent laboratory. For or actions environments we offer our grid system, with holi-dipped galvanized steel body and painted sturnium cup to difficial corresion and humidity resistance.

# Product information

	•	•	•	•	Ŧ
HADNE	Will Argle	Short Chest For DOSGOSLM	Long Group Tee	Main Surreyr	- Contract
	MITHOUNDED	DOBOGHID/	/ ethosopia	00000000	Marrie .
SALES SALES	DOMESTIC WINDOWS	Dodlota /	DICTORNA /	окивания	Tarent I

- System characteristics:

   Exposed Himm system

   Exposed Himm system

   The most widely used gnd system in the world

   Safe, test and simple to make it easily accessible

   Maximum economy and deepn simplicity
- Cost-test with override-ends rests twisting and give Professionally finished look with no exposed steel edges
- without book

Patented GUICK-RELEASE TM dip design: demountable

- Compatible with square edge and SLB edge colleg ties. Audible Click means you know when less are corrected.
- Exceed load complance specifications as per ASTM CGSS Available in metric and imperial size

Specification DOMP DOZA-III
God in position with popularized capping, statis
with Arem. To suit weather with popularized capping, statis
with Arem. To suit weather mobile actual most typically
good a Colorem and 1000 or Colorem. Wen inventor 3c a 24mm,
on DOZICOH what is no memally spead at 1000mm context and
supported from the abrocuture or staffs using pre-interphrened
Zerm determine I/CO state were tempera, at 1 pipelity 1000mm
central. First inventor tempera and many from Adorms from the
perimeter Arem numeral principle and on by means of the integral
politic Spice a commontion about the supported within 100mm with
a hamper, and shall be staggarded across the stating area.

Coess teast (200mm creat teat, IR s 34mm ref DX (200HJD) and 35 x 34mm ref DX (200 mm creates to time a 1000 x 600mm received to time a 1000 x 600mm ref DX (200HJD) and 35 x 600mm ref DX

else telena: 22mm x 19.5mm/12x3x3x3x12mm / 30 x 30 x 30 x

20mm painted HDG steel ungle time, set NT3600/MS0000/ MSG6L, based to pertineter well sainty famps appropriate to the structure of monomina 400mm centers. Comera shall comistly be finished with a lipped or but joint.

froot through holes in state or bulb of main numer and enterped around tools a maintain of 3 times. Alternatively language on the formed time is 3 forms equilibrium for 3 forms of times of the 2 forms of the 10 forms of times and other processor of 10 forms of the 10 fo Hangert - Seismic Application: Shall be from pre-straightened 2 Syran diameter HDG stool with, set \$58400000, Hangers shall be

Mod down digit. Whose applicable, those shall be non-nemovable type-lips. These person's will confur be required in certain his protecting assembles or whose those is a not of the splitt. Whose fitted, these should be applied to all grid members at a rick of 1 slip per following of the edge.



# WALLS

# **LED LIGHTS / SWITCHES / SOCKETS**



### PRODUCT DATASHEET LED Value Slim Downlight 18 W/6500 K

LED VALUE SLIM DOWNLIGHT | Flat downlight luminaires



### Areas of application

- Corridors, entrance areas
- Foyers
- Elevators
- Retail.

### Product benefits

- Die-cast aluminum housing for improved heat dissipation
- No light can escape at the back of the luminaires thanks a special cover
- Elegant design

### Product features

- Product color: white
- Available with color temperature: 3,000 K, 4,000 K, 6,500 K
- Color rendering index R<sub>a</sub>: > BD
- High color consistency: ≤ 6 SDCM
- Luminaire efficacy; up to 89 lm/W
- Type of protection: IP20
- Lifetime (L70/B50): up to 30,000 h
- Protection class: II
- Uniform illumination





# PRODUCT DATASHEET LED Bulkhead 11W 4000K Black

LED BULKHEAD | Wall and ceiling luminaires



### Areas of application

- Outdoor
- Basements, garages, warehouses

### **Product benefits**

- Easy and quick installation
- Energy-efficient thanks to LED technology

### **Product features**

- Bright and functional outdoor LED luminaires
- Type of protection: IP54



February 10, 2023, 17:31:13 LED Bulkhead 11W 4000K Black © 2023, LEDVANCE GmbH. All rights reserved.

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# **ELECTRIC**

### **HAGER / ABB IP66 ISOLATOR**

WEATHERPROOF SWITCHES AND SOCKET OUTLETS SWITCHED ISOLATOR IP66

### Weatherproof Switched Isolator IP66





### Range features:

- Degree of protection IP66 prevents dust and powerful water jets
- Complies to outdoor applications
- Enclosure made of high quality PC materials and high temperature insulation
- Resistance to Ultra Violet (UV) radiation and anti-corrosion

### Isola

- High reliability with 4500 A rated short-circuit making capacity for isolators
- Complete accessories for easy installation

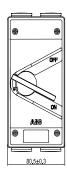
### Technical Specification

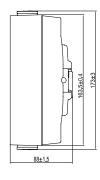
Standard Specifications	IEC 60947-3 (Third Edition) + A1:2012 + A2:2015
Number of poles	2P & 4P
Rated operational current	20 A, 32 A, 45 A, 63 A
Rated operational voltage	240 V/440 V
Rated insulation voltage	630 V
Rated impulse withstand voltage	2.5 KV 1.2/50 μs
Rated frequency	50/60 Hz
Rated utilization	AC-23 A
Rated making capacity	3 le
Rated breaking capacity	3 le
Rated short-time withstadn current	15 le for 1 s
Rated short-circuit making capacity	4500 A
Pollution degree	3
Degree of protection	IP66

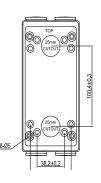
### Ordering details

Stock code	Туре	Description
2TCZ751006R0001	WSD220CL	20 A 2P Switch-Isolator
2TCZ751006R0002	WSD232CL	32 A 2P Switch-Isolator
2TCZ751006R0003	WSD245CL	45 A 2P Switch-Isolator
2TCZ751006R0004	WSD263CL	63 A 2P Switch-Isolator
2TCZ751006R0005	WSD420CL	20 A 4P Switch-Isolator
2TCZ751006R0006	WSD432CL	32 A 4P Switch-Isolator
2TCZ751006R0007	WSD445CL	45 A 4P Switch-Isolator
2TCZ751006R0008	WSD463CL	63 A 4P Switch-Isolator

### **Dimensions**











### **Description**

Cosmoplast / Clipsal 25mm PVC Conduit HD bending type

### **Specification**

Brand: Clipsal / Cosmoplast

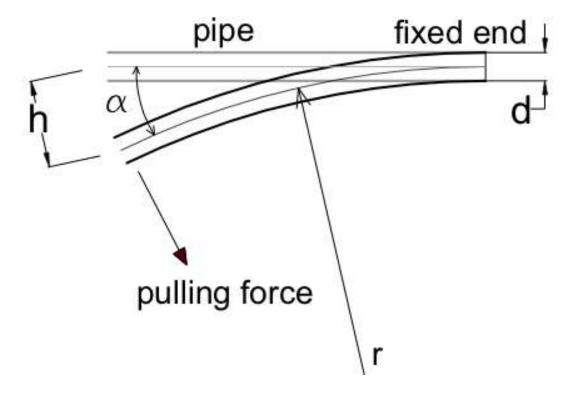
Size: 25mm

Thickness: 1.8mm (HEAVY GAUGE)

Colour: Black









### BS EN / IEC 61386-1 & 21, IEC 60423



### **Electric Cabling Accessories**

- Conduits
- Couplings
- Adapters
- Boxes
- Bends
- Saddles
- Circular Lids
- Circular Extension Ring
- Adaptable Boxes
- Bending Springs
- Clear PVC Solvent Cement







### DISTRIBUTION BOX

### **HTB - SERIES**

ZHTB Series Distribution box is in accordance with IEC-993-1 standard, attractive and durable, usis and dependable, and is extensively utilized in a variety of settings such as industries, manutons, residences, shopping mails, and as no.

### Construction

Surface Mount distribution boxes are composed of high-quality heavy-duty. ABS that is UV resistant, rever changes colour, and is fire resistant. It was intended for the Gulf and African electrical methods and can fit the inejectly of the loop brands of cloud protection devices and accessories on the market today.

The power distribution boa's wiring design instactes a guide rail support plate that can be lifted to the highest adjustable position, eliminating the coset for a restricted space when installing wire for easier installation, and having a mostular capacity of us to 18 mostular.

Designed for interior and extentor applications when a high level of profection is required.

### Features

- \* The panel is an engineering material made of ASS, which has ecceptional
- strength and does not change colour; the transparent meterial is PC.

  \* Cover the push-type opening and closing. The distribution box's face covering opens and closes using a push-type mechanism; the face mask can be opened by setfly pressing, and a self-locking positioning hings structure is above when opening.
- structure is given when opening.

  Wining design for the power distribution box The guide riel support plate can be called to its highest adjustable point, eliminating the need for a small space while installing the wire. To make mid-abstor easier.
- The distribution box switch is equipped with wire grooves and wire pipe east haves that are suitable for a wide range of wire grooves and wire pipes.



INSTALLATION	WINDOW	MATERIAL	WATER PROOFING	FIRE RETARDANT	MODULES	TERMINAL 1	TERMINAL 2
RECESSED/ SURFACE	BLACKFUT	Ads	F60	CLASSI	RAIL	NUTRUL	EARTH

MODEL	MODULER			E	D
ZHTB-5	2-3 WAY	120	160	90	1400
ZHTB-II	8-8 WAY	207	161	90	3300
JHTB-13	30-32 WAY	255	108	106	8400
JHTB-13	12-15 WAY	305	300	108	1000
JHTB-18	15-18 WAY	365	300	101	1,070
29/78-18	20-24 WAY	273	356	100	1.550









Window

Selone opening the untire box, use the See Thru window to identify the short circuit issue. Large open window to handle mixing tours.





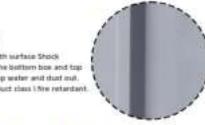
Latch Design with Safety



GERMANY

### Rubber Gasket

Close the operation window property to present mater and dust. 20190 Shore rating





### Construction

Made of ABS. Material amounts surface Shock stoorber. Rubber gasket in the buttom box and top cover junction regions to keep water and that out. 20-90 Shore rating. This product class \ fire retardant.

### Reserve Knock Down Holes

Wiring holes on all four sides of the box are simply threaded and many for use, facilitating wiring from any direction.



### Built-in Modular Rail

The distribution box has an integrated modular rail to mount ELCS, RCCS, RCD, & MCS for installation convenience.



### **Built-in Shorting Bar**

The distribution box has an integraled neutral and earth shorting bar for convenience.

Tel.: +971 4 5759272 Tel.: +971 6 5735216 Email: info@espectro-me.com P.O.Box: 52913 Dubai - UAE



# USB Charging Solutions













VZ205U2

VZ206U2

T405W-MF+2USB T405G-MF+2USB

T405S-MF+2USB

T405MB-MF+2USB



NOVEX Electric USB charging solutions are also designed with inherent safety features such as overload protection and automatic disconnect on the modular product when the cable is removed.

In addition, users can benefit from a fixed installation USB charger by requiring just one charging cable to be used for multiple devices, which avoids the need to carry a variety of bulky adaptors for different devices. The NOVEX Electric solution is also designed to provide optimal charging performance, enhancing the user experience by delivering fast charging solutions.

The recent advances in Smartphones and tablets, means that many of us now depend upon them to keep in contact in both our personal and professional lives. A recent study by Forbes suggested that by 2017, 87% of the worldwide smart connected device market will be tablets and Smartphones and the need to keep the integral batteries charged and the devices functional has never been greater.

In 2013 NOVEX Electric was one of the first UK manufacturers to introduce a range of award winning USB charging modules, and now this technology is being integrated into our market leading twin socket. The USB charging capability will now be integral within 6 NOVEX Electric wiring device ranges – Logic Plus, Metalclad Plus, Albany Plus, Edge, Aspect and the newly introduced Elements, offering the widest choice and flexibility to suit any application.

Fixed installation USB chargers remove the need for continual PAT testing of adaptors and takes away the risk of unapproved chargers being used, which can lead to damage of devices.



Airports, hotels, universities, schools, retail outlets and any other environment that regularly host visitors with a mobile device, would benefit from the USB charging solutions which NOVEX Electric can provide.



### USB SOCKET - FEATURES AND BENEFITS

As 2014 marked the UK production of the 100 millionth socket for NOVEX Electric at its Southend site, it also signified a milestone change in the way devices will be powered and charged in the future. With USB charging capability being built into the most iconic product within the Novex Electric portfolio, USB adoption is well and truly here to stay.

Yet whilst building innovation into our core, we have stayed true to our heartland in ensuring that safety, quality and reliability are at the forefront of everything we design.

### 3-Pin "Child Resistant Shutter System"

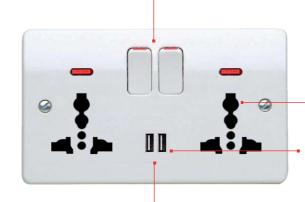
Designed to inhibit access to the electricity supply, unless all 3 pins of a standard British 13A plug are in position

### Double Pole Switching

Neutral makes first, breaks last

### 3mm Minimum Switch Contact Gap

Eliminates possibility of circuit forming when in the off position



### Vertically stacked central USB ports

Access to USB ports is not restricted when using virtu ally any standard 13A plug, inclu ding moulded plugs

### Two 5V Outlets With A Combined Total Of 5A Charging

To provide optimal charging capacity 2A can be drawn fully from one port when one device is charging or split between ports when devices are charging simultaneously

### Dynamic Device Recognition

By detecting the nuances between the differing charging configurations tablet manufacturers use, the product can react accordingly for optimal charging efficiency

### Electrically Protected Against An Overload Or Short Circuit

Prevents damage to the socket and provides safety to the user in the event of an overload or short circuit conditions

### Backed Out Terminal Screws Kept Captive Within The Terminal Housing

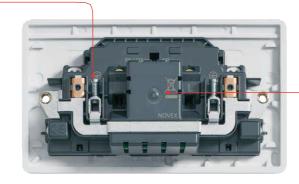
Aids, and makes installation faster

### In Line Terminals

Allows wire to be cut stripped to the same length for faster and easier installation

### Funnel Entrance To Terminals

Terminals are upward facing to make installation easier



### **Dual Earth Terminals**

For high integrity earthing



### USB INTEGRATED SOCKET - FAQ

### What charging capacity does the socket provide?

The Novex Electric USB Integrated socket provides a total of 5A charging capacity. This means that if only one device is connected, the total rated output current of 5A is available from either port. In the event that both ports are connected, the total rated current will be divided between the two ports.

Novex dynamic device recognition detects differing charging configurations and requirements and reacts accordingly, for example if two devices were charging simultaneously, more current will be diverted to the device with the least charge and the biggest demand.

### What is Dynamic device recognition?

Tablet manufacturers have each adopted differing configurations for charging their devices. The NOVEX Electric USB Integrated socket has been designed such that it understands and recognises this nuance and is designed to react accordingly, rather than be aligned to one specific

charging configuration. This ensures we provide the optimum charging compatibility across a broad range of devices.

# Can I charge two different devices from two different manufacturers at the same time?

The Novex Electric USB Integrated socket is designed such that the dynamic device recognition is unique to each USB port which means that different manufacturers devices can be charged simultaneously without any impairment to the other. As well as different manufacturers, each port can also charge different types of devices at the same time i.e. the ports are not allocated to specific devices such as tablets or phones.

### How can I be sure my device will be compatible?

Novex Electric has undertaken extensive compatibility testing and found that numerous devices from various manufacturers are compatible.

### Which standards do your products conform to?

The Novex Electric USB charging socket holds the CE mark as it conforms to all the safety certification and approvals

applicable for a 13A socket including BS5733, BS1363-2 and IEC 61558-2-16. Novex Electric prides itself on delivering the safest solution to our customers, which is why we also have conformity to the relevant directives applicable to electronic products and which should be mandatory for this type of product. This includes IEC 61000-6-1 and IEC 61000-6-3 which covers Electromagnetic compatibility (EMC).

### What back box depth will I need?

All products will fit into a 35mm back box, with the exception of the Edge™ range which requires a 47mm back box. For extra wiring space we would recommend the use of a 47mm back box for Aspect products, in line with current practice. We will also be offering a 10mm moulded pattress to allow retrofit into a shallower box.

## Why are your USB ports vertically stacked in the centre of the socket?

The Novex Electric USB charging socket has its USB ports aligned under the rockers to ensure the least disruption to the 13A plug space. When larger transformer type plugs are used on the 13A outlets, there is the risk that they will cover the USB ports and make them inaccessible if they are located elsewhere on the socket. Locating them in the way that we do allows for all four outlets to be used simultaneously.