



almanashy.com







# Overview

Brief Mission Vision Organization Chart

# Legal Documents & Certificates

Legal Documents & Certificates Doors Certificates Company Approvals

# **Facilities & Capabilities**

Manufacturing Plants. Warehouses. Machineries. Frame Production Line Fire Rated Panels Production Line Non-Fire Rated Panels Production Line Research & Development. Quality Control. Engineering Department. Material Specification and Suppliers.

# **Company Services**

Doors & Frames Manufacturing & Supplying. Door Fabrication Technical Standards. Doors Installation & Maintenance. Architectural Door Hardwar Supplying.

# **Projects & Clients**

Projects List. Clients.

Appreciation Letters

**Contact Details** 









# 1. Overview

Brief

Mission

Vision

**Organization Chart** 





# Brief

Al Manashy Doors Company was founded in Riyadh, Saudi Arabia in 2010, with the objective of meeting the growing demand for engineered metal products. We are specialized in manufacturing hollow metal doors and frames of different types for Industrial, Commercial, Residential, Security, and many other special applications. We have been supplying many government projects in the Kingdom of Saudi Arabia, the Gulf States and other countries for a long time. Also we are an approved vendor for many official and private institutions. Al Manashy inhouse capabilities including Manufacturing, Engineering, Project Management, Logistics and After Sales Service have all contributed in achieving the trust of its customers and expanding its business to become one of the leading suppliers of Integrated Solutions for Security and Safety within the region. Work at Al Manashy Doors is divided into

# Hollow Metal Doors Division

For manufacturing Fire-Rated and ordinary hollow Metal Doors, Acoustical Doors, Air tight Doors, and other types of doors. Architectural Door Hardware Division

For supply of door hardware from different manufacturers with high specification which cover American, European and British Standards Maintenance & Technical Services Division

For installation and maintenance of the different types of doors, in addition to executing long term maintenance contracts for major clients throughout the Kingdom of Saudi Arabia.



# **Mission**

Provide all categories of customers in Saudi Arabia with best products of building materials that are produced in our factories or imported from abroad through:

> Provide high quality products based on the best ways and means of production, transportation and installation in the kingdom.

Deliver Al-Manashy group products to all customers by using all available means. Employment of the best sales, marketing and management expertise and skills in order to provide the best products and services at the highest possible levels of performance.





# Vision

Al-Manashy endeavors to serve the construction and contracting sector in Saudi Arabia. The sector which is witnessing a steady growth through the provision of products, technologies and high-quality services to all companies operating in construction and contracting at competitive prices to achieve a balance between quality and cost. It also seeks to consolidate its relationship withcustomers to shift to a true partnership and relationship by satisfying the needs of customers in suitable quantities and appropriate times using the best methods ever available. Our mission in Al-Manashy group is to be one of the strongest suppliers of what the construction and reconstruction sector needs of basic products through existing factories, which operate according to the latest findings of the modern technology, or through external



# **Organization Chart**





Legal & Documents Certificates

۱۰۱۰۲۹۹٤۲۳ ه ۱٤۳۲/۰۱/۱۹	الرقم: التاريخ:	وزارة التجارة Ministry of Commerce	VISION الله المراجعة العربية السعودية مملكة العربية السعودية Kingdom of saudi arae
		شهادة تسجيل فرع الشركة	
	ناعة والمقاولات	دسم التجاري للشركة: <b>مجموعة المناشي للتجارة والص</b>	الرقم الموحد للمنشأة:الا
، سعودي	ا: ۱۰۰۰۰۰ ریال	رأسمال	نوعها: <b>ذات مسئوليةمحدودة</b>
			مركزها الرئيسي. <b>الرياض حي الخزمي</b>
<u>(0)2 (0 22 (0 20)</u>		۲۲۹۱۸۰	ص ب: ٧١٠٢١ الرمز البريدي: ١١٥٨٧
رياض	مصدرہ:		رقم سجل المركز الرئيسي:
07025425007			الدسم التجاري: <u>مصنع شركة المناشي للأبواب الحديدية والخش</u>
7 <u>~~</u> 7 <u>~</u> 9 <u>/(0</u> /		10/2527/10/25	العنوان الرياض حي القرينه
<u>)</u>			ص ب:هاتذ
		مار ي	النشاط للاطلاع على بيانات الأنشطة الرجاء مسح الرمز التج
			اســـم المـديــر (ربـاءيـا): خالد عبدالرحمن عبدالعزيز رشيد
د الرياض	مكان الميلا		الجنسيــــــــــــــــــــــــــــــــــــ
رياض	مصدرہ:	تاریخه:	رقم السجل المدني:
	مصدره:	تارىخە:	سلطات المدير حسب ما نص عليه عقد الشركة
<u>1 </u>	الرياض	بأنه تم تسجيل فرع الشركة المذكورة أعلاه بمدينة	يشهد مكتب السجل التجاري بمدينة: <b>الرياض</b>
	۱٤٤٢/۱ هـ	ب الإيصال رقم:٨١٩٧٦٤٨٢ وتاريخ:٩٧٦٤	وتنتهي صلاحية الشهادة في: ١٤٤٩/٠١/١٩ هـ
	ركات: <b>عبد المح</b> وقيع:	مدير السجل التجاري للش التر	





# شهادة سعودة

تاريخ الإصدار : ١٤٤٣/.٨/١٨ تاريخ صلاحية الشهادة : ١٤٤٣/١١/٢٢ رقم الشهادة : .٢٢٠.٣٠.٢١٥٥

اسم المنشأة: **مصنع شركة المناشي للأبواب الحديدية والخشبية فرع شركة المناشي** رقم الملف: I-۱۱۸۲۱۲ سجل تجاري: I.۱.۲۹۹٤۲۳ الصا<mark>در من: **الرياض**</mark>

تشهد وزارة <mark>العمل والتنمي</mark>ة الدجتماعية بأن المنشأة المذكورة أعلاه حققت نسب التوطين المطلوبة منها.. وتم منح<mark>ها هذه الش</mark>هادة حسب طلبها

(الشه<mark>ادة معت</mark>مدة من صا<mark>حب الصلاحية ولا تحتاج إلى توقيع أو ختم)</mark>

تنبيهات:

ا - يمكن التحقق من صحة وصلاحية الشهادة عبر زيارة الرابط:

٢ - في حال اكتشاف أي عملية تزوير في الشهادة المقدمة نرجو التبليغ عن ذلك بخطاب رسمي لأقرب مكتب عمل.



1 £ £ \$7/1 • /7 1	التاريخ	
7 7/ • 0/7 • 7 7	الموافق	
£7771788	رمز الشهادة	

شهادة

إسم المنشأة : فرع مصنع شركة المناشي للابواب الحديدية والخشيبة

مصدره :	الرياض السعودية رقم الإشتراك : ٥٩٢٥٦٠٤١٠ رقم السجل التجاري: ١٠١٠٢٩٩٤٢٣
کتابة واحد و ثلاثون مشترکا مائة و واحد مشترکا مائة و اثنان و ثلاثون مشترکا	رقما عدد المشتركين السعوديين عدد المشتركين غير السعوديين المجموع
تم منحها لتقديمها لأية جهة تطلبها ، وهي	تشهد المؤسسة العامة للتأمينات الإجتماعية بأن المنشأة المذكورة أع وفق البيانات المقدمة منها حتى تاريخ إصدار هذه الشهادة ، والتي ت صالحة لجميع الأغراض التي نص عليها نظام التأمينات الإجتماعيا هذه الشهادة سارية المفعول حتى ١٤٤٣/١١/٢١ هـ. يلزم التحقق من صحة وصلاحية الشهادة عبر زيارة الرابط أدناه في الموقع الإلكتروني للمؤسسة العامة للتأمينات الإجتماعية
	www.gosi.gov.sa/vc ( الشهادة معتمدة من صاحب الصلاحية ولا تحتاج إلى توقيع أو si.gov.sa عناي عناي المعندية عنه المعنية
، ويحظر قطعيا تقليدها أو إدخال أي تعديلات عليها سواء بالإضافة أو الحذف الشهادة لاغية إذا شابها شيء من ذلك ، كما تعرض صاحبها للملاحقة النظامية ت الاجتماعية من عقوبات ، ولايجوز تداول الشهادة إلا في الأغراض التي	أو التغيير في بياناتها أو غير ذلك من انواع التعديل ، وتعد

**التأمينات الإلكترونية** بإمكانك من مكانك

أصدرت لأجلها وفقا لأحكام نظام التأمينات الاجتماعية ، والمؤسسة العامة للتأمينات الاجتماعية غير مسؤوله عن أي آثار أخرى مترتبة قبل الغير عن الشهادة وغير مسؤولة عن أي عملية تزوير أو تعديل تتم على البيانات الواردة فيها .



تاريخ الإصدار: 2020/06/18 الرقـم المميز: 3002102781



الهيئة العامة للزكاة والدخل General Authority of Zakat & Tax



# شهادة تسجيل في ضريبة القيمة المضافة VAT Registration Certificate

تشهد الهيئة العامة للزكاة والدخل بأن المكلف أدناه مسجل في ضريبة القيمة المضافة بتاريخ 2017/08/23

Hereby, The General Authority of Zakat & Tax (GAZT) certifies that the taxpayer below is VAT registered on 23/08/2017

 ۲ معروعة المناشي للتجاره والصناعة والمقاولات

 Name: محموعة المناشي للتجاره والصناعة والمقاولات

 VAT Registration Number: محموعة المناشي 2018/01/01

 Effective Registration Date: 2018/01/01

 Taxpayer Address: المحكمات: المحكمات المحكمات المحكمات



كمكلف مسجل في ضريبة القيمة المضافة، لا يجوز لك تحصيل ضريبة القيمة المضافة من عملائك قبل تاريخ نفاذ التسجيل بالضريبة. في حال تبين غير ذلك، ستقوم الهيئة العامة للزكاة والدخل بتنفيذ الغرامات المستحقة

> هذه الوثيقة مرسـلة من النظام الآلي ولا تحتاج إلى توقيع – الهيئة العامة للزكاة والدخل –







تاريخ الإصدار: 2020/06/18 الرقم المميز: 3002102781



Taxpayer Name:	مجموعة المناشي للتجاره والصناعه والمقاولات	اسم المكلف:
CR / License / Contract No.	: 1010092857	رقم السجل/الرخصة/العقد:
Tax Period:	ربع سنوي-Quarterly	الغترة الضريبية:
First Filing due date:	2018/04/30 :••	تاريخ استحقاق أول إقرار ضريبج

# قائمة فروع المكلف

# List of Taxpayer Branches

المدينة City	اسم الغرع Branch Name	رقم الرخصة License No.	رقم السجل التجاري CR No.
الرياض	مص <mark>نك شركة</mark> المناشي <mark>للأبواب</mark> الحديدية والخشبية فرع <mark>شركة</mark> ال <mark>مناشي لل</mark> مقاولات		1010299423



كمكلف مسجل في ضريبة القيمة المضافة، لا يجوز لك تحصيل ضريبة القيمة المضافة من عملائك قبل تاريخ نفاذ التسجيل بالضريبة. في حال تبين غير ذلك، ستقوم الهيئة العامة للزكاة والدخل بتنفيذ الغرامات المستحقة

> هذه الوثيقة مرسـلة من النظام الآلي ولا تحتاج إلى توقيع – الهيئة العامة للزكاة والدخل –

المملكة العربية السعودية

الهيئة العامة للزكاة والدخل General Authority of Zakat & Tax





رقم الشهادة : ۵،۲۰۰۶،۱۰ التاريخ :۲۰٬۰۱۹/۱۳۵۶ هـ الرقم المميز : ۳۰٬۲۱٬۲۷۸



تشهد الهيئة العامة للزكاة والدخل بأن المكلف / مجموعة المناشى للتجاره والصناعه والمقاولات

شرکة رقم ۷۰٬۱۱۳۲۱ وسجل تجاری رقم ۱٬۱۰٬۹۲۸۵

قدم إقراره عن الفترة المنتهيه في ٥٢،٢١/١٢/٣١م

وقد منح هذه الشهاده لتمكينه من إنهاء جميع معاملاته بما في ذلك صرف مستحقاته

النهائية عن العقود.

يسرى مفعول هذه الشهادة حتى تاريخ ١٠/١١/١٤٤٤ هـ الموافق ٢٠٢٣/٠٤/٣ م.

(العاشر من شوال ألف و أربعمائة و أربعة و أربعون هجري)

الفروع (١) في النموذج المرفق



الختم الرسمي

هذة الوثيــقة مستــخرجة من النــظـام الآلـي ولا تحتــاج إلـى توقيـــع لا يعتد بهذه الشهادة إلا بعد التحقق من موقع الهيئة www.gazt.gov.sa

المملكة العربية السعودية

الهيئة العامة للزكاة والدخل General Authority of Zakat & Tax





رقم الشهادة : ۱،۲۰۰٤۸٤۸۲ التاريخ : ۱٬۰۱۹/۱۶۲۱ هـ الرقم المميز: ۳۰٬۲۱٬۲۷۸۱

# قائمة فروع المكلف مجموعة المناشي للتجاره والصناعه والمقاولات

المدينة	إسم الفرع	الرخصة	رقم السجل
الرياض	مصنع شركة المناشي للأبواب الحديدية والخشبية فرع شركة المناشي للمقاولات		۳٦3PP٦٠١٠



الختم الرسمي

هذة الوثيــقة مستــخرجة من النــظـام الآلـي ولا تحتــاج إلـى توقيـــع لا يعتد بهذه الشهادة إلا بعد التحقق من موقع الهيئة www.gazt.gov.sa

		شهــادة اشتر ا ership Certificate	Riyadh Chamber
Membership No. :	248800	248800	رقم العضوية الموحد :
Date of Issue:	07/03/2011	2011/03/07	تاريخ الاصدار:
Membership Class :	First	الاولى	درجة العضوية :
Riyadh Chamber Certifies			تشهد الغرفة التجارية الصناعية بالرياض بأن
ALMNASHE IRON AND WOODEN DOORS CO. FACTOR	Y		مصنع شركة المناشى للابواب الحديدية والخشبية
Commercial Registration No.	1010299423	1010299423	مقيدة بالسجل التجاري / الترخيص رقم :
Certificate Expires on	06/08/2023	2023/08/06	ينتهي سريان هذه الشهادة في

- يلزم التحقق من الوثيقة عبر الرابط <u>https://mybusiness.chamber.sa</u> ، أو تطبيق (سند)
   للأجهزة المحمولة أو الرقم الموحد دون ادنى مسؤولية على الغرفة عن محتوى الوثيقة.
- تعد هذه الورقة من الوثائق الالكترونية لغرفة الرياض، ويمنع تعديلها اول محاولة العبث بها وتصبح لاغية حال محاولة تعديلها وتعرض صاحبها للملاحقة القانونية.



الخدمات الإلكترونية لغرفة الرياض - بوابة أعمالي © E-Services Riyadh Chamber

**\$** 920004565

# 0

تفاصيل تسجيل العنوان الوطني

# **National Address Registration**

Account Information	معلومات الحساب
Application No: 115046143	رقم الطلب : ١١٥٠٤٦١٢٣
Service No: 115046143	رقم حساب الخدمة : ١١٥،٤٦١٤٣
Customer Account : 131064453	رقم حساب العميل : ١٣١،٦٤٤٥٣

# Address Details:

مجموعة المناشىي للتجارة والصناعة والمقاولات
6068 -
Unit No 1
Ghianah Wahurqan 15458 – 3379
Kingdom of Saudi Arabia

Address Details		تفاصيل العنوان
Building No	6068	رقم المبنى
Street Name		اسم الشارع
District Name		اسم الحي
City Name	غیانه وحرقان Ghianah Wahurqan	اسم المدينة
Zip Code	15458	الرمز البريدي
Additional No	3379	الرقم الإضافي
Unit No	1	وحدة رقمر

تفاصيل العنوان:

مجموعة المناشي للتجارة والصناعة والمقاولات ٦،٦٨ – وحدة رقم ا

غيانه وحرقان ١٥٤٥٨ – ٣٣٧٩ المملكة العربية السعودية



# Door Certificates



Underwriters Laboratories

# CERTIFICATE OF COMPLIANCE

Certificate Number Report Reference **Issue Date** 

2012-November-File number R27458-1990-12-17 1990-12-17

Issued to: AL-MANASHY DOORS CO. PRINCE SATAM STREET AL-KHOZAMA DIST. DIRIYAH, 11587 SAUDI ARABIA

Swinging-type Fire Doors

This is to certify that representative samples of

Swinging steel covered composite fire doors intended for 1-1/2 and 3/4 h locations.

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

UL 10B, UL Standard for Safety for Fire Tests of Door Standard(s) for Safety: Assemblies Additional Information: See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Classification Mark should be considered as being covered by UL's Classification and Follow-Up Service.

The UL Classification Mark includes: UL in a circle: with the word "CLASSIFIED" (6) (as shown); a control number (may be alphanumeric) assigned by UL; a statement to indicate the extent of UL's evaluation of the product; and the product category name (product identity) as indicated in the appropriate UL Directory.

Look for the UL Classification Mark on the product. This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.



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HLLC



Underwriters Laboratories

# CERTIFICATE OF COMPLIANCE

<b>Certificate Number</b>
Report Reference
Issue Date

2012-November-14-R27458 R27458-1991-12-10 1991-12-10

Issued to:

AL-MANASHY DOORS CO. PRINCE SATAM STREET AL-KHOZAMA DIST. DIRIYAH, 11587 SAUDI ARABIA

Swinging-type Fire Doors

This is to certify that representative samples of

Swinging hollow metal fire doors for 3, 1-1/2 and 3/4 h locations.

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

 Standard(s) for Safety:
 UL 10B, UL Standard for Safety for Fire Tests of Door Assemblies

 Additional Information:
 See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Classification Mark should be considered as being covered by UL's Classification and Follow-Up Service.

The UL Classification Mark includes: UL in a circle: with the word "CLASSIFIED" ((as shown); a control number (may be alphanumeric) assigned by UL; a statement to indicate the extent of UL's evaluation of the product; and the product category name (product identity) as indicated in the appropriate UL Directory.

Look for the UL Classification Mark on the product. This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

la

William R. Carney, Director, North American Certification Program



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Underwriters Laboratories

# CERTIFICATE OF COMPLIANCE

Certificate Number Report Reference Issue Date 2012-November-14-R27459 R27459- 1963-08-23 1963-08-23

Fire Door and Window Frames

Issued to: AL-MANASHY DOORS CO. PRINCE SATAM STREET AL-KHOZAMA DIST.

DIRIYAH, 11587 SAUDI ARABIA

This is to certify that representative samples of

Fire door frames of the single unit pressed steel type for walls at least 2 in. thick

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

 Standard(s) for Safety:
 UL 10B, UL Standard for Safety for Fire Tests of Door Assemblies

 Additional Information:
 See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Listing Mark should be considered as being covered by UL's Listing and Follow-Up Service.

The UL Listing Mark generally includes the following elements: the symbol UL in a circle: (U) with the word "LISTED"; a control number (may be alphanumeric) assigned by UL; and the product category name (product identifier) as indicated in the appropriate UL Directory.

Look for the UL Listing Mark on the product.

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.



UL LLC



Underwriters Laboratories

12/7/2014

GVTV.R27459 - Fire Door and Fire Window Frames

ONLINE CERTIFICATIONS DIRECTORY

## GVTV.R27459 Fire Door and Fire Window Frames

Page Bottom

## **Fire Door and Fire Window Frames**

See General Information for Fire Door and Fire Window Frames

AL-MANASHY DOORS CO.
Prince Satam Street
Al-Khozama Dist.
Dirivah, 11587 SAUDI ARABIA

Cased open type frame for single or double egress type for use with Won Door "Innovation" special purpose type fire door.

Door Frames for use as a component in fire door assemblies that meet the requirements of UL10C, (positive pressure):

Three slded steel frame without transoms (single swing, pairs and double egress pairs) (welded, knockdown). These frames are also suitable for use in smoke door applications when used with Classified Swinging Type Fire Doors, Positive Pressure Tested (GSZN) bearing the "S" mark on the Classification Marking and Category H Smoke and Draft Control Gasketing. See Gasketing Materials for Fire Doors, Positive Pressure Tested (GVYI) for listings of Category H smoke and draft control gaskets.

Door Frames for use as a component in fire door assemblies that meet the requirements of UL10B (neutral pressure):

Three sided frames without transom bars (single swing, pairs and double egress pairs) (welded, knockdown).

Window Frames for use as a component in fire window assemblies that meet the requirements of UL 9 (positive pressure):

Four sided steel frames. Requires Glazing Materials and glazing compound Classified as components in fire window assemblies complying with UL 9. See Glazing Materials (KCMZ) for a list of glazing materials and Miscellaneous Fire Doors Accessories, Positive Pressure Tested (GVUY) for a list of glazing compounds.

Window Frames for use as a component in fire window assemblies that meet the requirements of UL9 (neutral pressure):

Four sided steel frames. Requires Glazing Materials Classified as components in fire window assemblies complying with UL 9. See Glazing Materials (KCMZ) for a list of glazing materials.

Last Updated on 2014-03-20

Questions?	Print this page	Terms of Use	Page Top

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R27459

When the UL Leaf Mark is on the product, or when the word "Environment" is included in the UL Mark, please search the UL Environment database for additional information regarding this product's certification.

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Al-Manashy Doors 📘 Jjg

# Details and Specifications

FIRE RATED DOORS



# **Products**

## Description

LUDI ROCKWOO

HD Board is a high density Rockwool board insulation produced from molten basalt rocks spun to fine fibers and bonded with heat resistant binder. HD board meets the requirements of the technical standard ASTM C-612.

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### Application:

HD Board specially designed for high thermal resistance application for cold and hot serf aces such as Vessels, Exchangers, Storage Tanks, Ovens, Boilers, Chimney wall and heated ducts.

#### **Product Range:**

Dim	ension	Nominal Density	Thickness	
Width m	Length m	Kg /m3	mm	
0.60	1.20	(120-140)	(25-140)	

Note: other sizes can be produced upon special order

#### Packing:

HD Board is packed in a polyethylene shrinkage bags each bag contains a number of pieces depending on the thickness.

#### Storage:

HD Board must be stored in an area where it is protected from water exposure and physical damage

#### Maintenance:

Once HD Boards are installed they do not need any maintenance.

#### Installation:

HD Board is light and easy to handle and fix. The HD Board can be cut and shaped by using a sharp, broad bladed knife.



#### Advantages:

- Excellent thermal resistance.
- · High sound absorption.
- Non-Corrosive
- High compressive resistant.
- No aging effect on thermal properties.
- Non-Combustible.
- High fire rating
- Water repellent fibers.
- Asbestos free
- Chemically inert.
- Easy handling and installation.

Facing:

.....

## **Technical Properties:**

Thermal conductivity at 100° C 0.043 (W/M C) Max. use temperature 750° C Shoot content (weight %) <25 Water vapor sorption <1% (by weight) PH 8-9 Flame spread index <10 Smoke developed <20





# Products

# **SRW** Fire Board

#### Description:

SRW Fire Board is a high density Rockwool board insulation, made from fiberized basalt lava, bonded with a special fire resistant binder. Fire board meets the technical requirements of ASTM C-612.

### **Application:**

SRW Fire Board is used in cases where fire insulation and fire rating are required, e.g. between wall to top and the bottom of a concrete floor slab (gap seal), fire insulation of steel structure, air duct, fire proof doors, fire proof wall partitions in buildings and ships, etc.

Different fire rating can be achieved depending on the board thickness and the structural element construction. Special Rockwool fire stop board for electromechanical works (electric cables, ducts and pipes, wall or floor slab penetration) can be produced to provide the required fire rating.

#### **Product Range:**

Dimension		Nominal Density
Width m	Length m	Kg /m3
0.60	1.20	120, 140

Note: Thickness will be designed according to application requirements, Other size can be produced upon special order.

#### Storage:

SRW Fire Board must be stored in an area where it is protected from water exposure and physical damage

#### Packing:

SRW Fire Board is packed in polyethylene bags; each bag contains a number of pieces depending on the thickness.

#### Maintenance:

SRW Fire Boards are installed they do not need any maintenance.



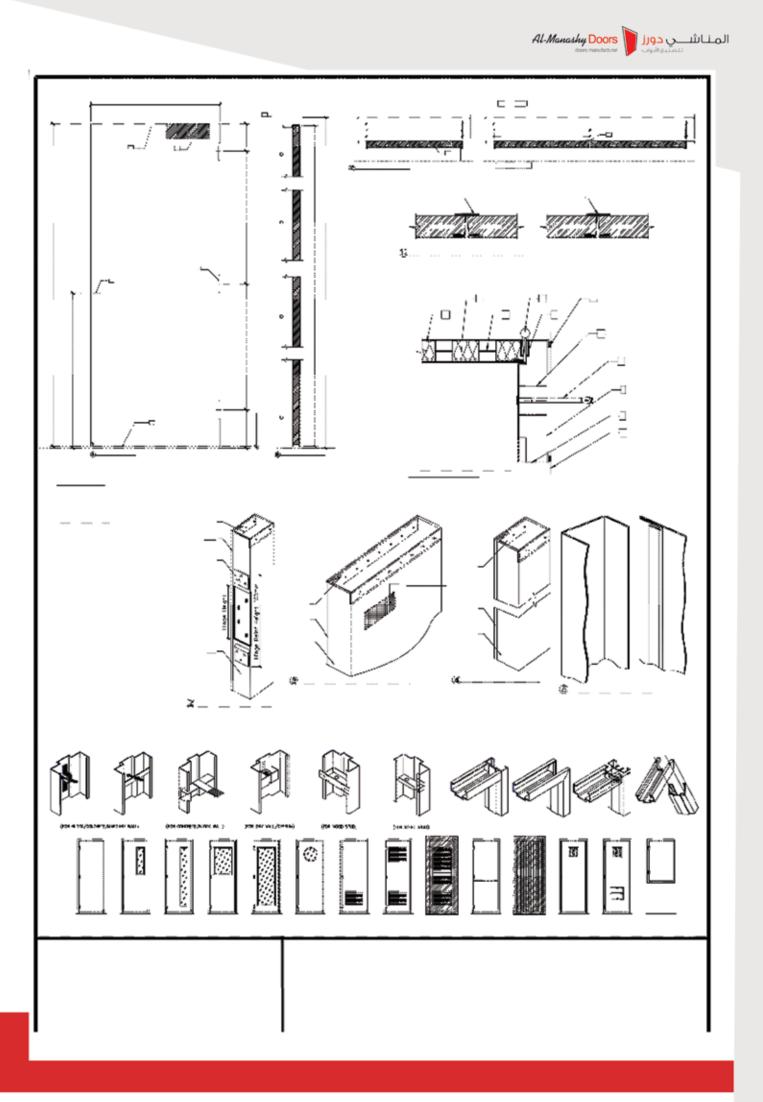
#### Advantages:

- · High fire rating.
- Dimensionally stable.
- Excellent thermal resistance.
- High sound absorption.
- Non-corrosive. .
- Stable physical properties.
- Non-combustible.
- Water repellent.
- Asbestos free.
- Chemically inert. .
- · Easy handling and installation.

### **Technical Properties:**

Thermal conductivity at 100 C 0.037 (w/m c) Melting temperature > 1100 C Fire rating >130 min for gap seal Shot content % <25 Water vapor sorption <1% (by weight) PH 8-9 Flame spread index <10 Smoke developed <20





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# Details and Specifications

Technical Data Sheet ION FIRE RATED DOORS











# **POLYURETHANE and POLYISOCYANURATE**



# **BOARDS** and **PIPES**

# TYPICAL PROPERTIES

# SAPTEX POLYURETHANE FOAM

Nominal Density	32 - 35 Kg/m3 (2.0 - 2.2 lbs/ft3)	45 Kg/m3 (2.81 lbs/ft3)
Compressive Strength		
(in direction of rise)	190 ± 50 KN/m <sup>2</sup> (27 ± 7 lbs/in <sup>2</sup> )	260 ± 30 KN/m <sup>2</sup> (37 ± 4 lbs/in <sup>2</sup> )
"K" Value at 75'F (24'C) mean temp,	0.023 W/m K (0.16 BTU in/ft2 hr. 'F)	0.023 W/m K (0.16 BTU in/ft2 hr. 'F)
(aged) max		
Temperature Limit	110°C (230°F)	110°C (230°F)
Fire Resistance (Small Scale tests)		
B.S. 4735: extent of burn	< 50 mm (< 2")	< 50 mm (< 2")
B.S. 476 Part 5 (1" Thick)	Class P (not easily ignitable)	Class P
a) Extinguishing behaviour	self extinguishing	self extinguishing
Closed Cell Content	> 90%	> 90%
Water Vapour Permeability		
(38°C 100% R.H.)	2.19 ng . Pa <sup>-1</sup> . S <sup>-1</sup> . M <sup>-1</sup> (1.5 perm inch)	2.19 ng . Pa-1 . S-1 . M-1 (1.5 perm inch)
Water Absorption		
(max.)	1% by volume	1% by volume

# SAPTEX POLYISOCYANURATE FOAM\*

Nominal Density	32 - 35 Kg/m3 (2.0 - 2.2 lbs/ft3)	45 Kg/m3 (2.81 lbs/ft3)
Compressive Strength		
(in direction of rise)	190 ± 50 KN/m <sup>2</sup> (27 ± 7 lbs/in <sup>2</sup> )	260 ± 30 KN/m <sup>2</sup> (37 ± 4 lbs/in <sup>2</sup> )
"K" Value at 75'F (24'C) mean temp,	0.023 W/m K (0.16 BTU in/ft2 hr. 'F)	0.023 W/m K (0.16 BTU in/ft2 hr. 'F)
(aged) max	and a second	
Temperature Limit	140°C (284°F)	140°C (284°F)
Fire Resistance (Small Scale tests)		
B.S. 4735: extent of burn	Negligible	Negligible
B.S. 476 Part 5 (1" Thick)	Class P (not easily ignitable)	Class P
B.S. 476 Part 7	Class 1 (very low surface spread of flame)	Class 1
U.S.A. Tunnel Test (E-84 Rating)*	< 25	< 25
Smoke Density	Within specified limits	Within specified limits
ASTM-D 2843		
Light Obscuration (max.)	30-35% (25mm Cubes)	30-35% (25mm Cubes)
Butler Chimney Test	> 90% (retention of weight)	> 90% (retention of weight)
Closed Cell Content	> 90%	> 90%
Water Vapour Permiability		
(38°C 100% R.H.)	2.19 ng . Pa-1 . S-1 . M-1 (1.5 perm inch)	2.19 ng . Pa-1 . S-1 . M-1 (1.5 perm inch
Water Absorption		
(max)	1% by volume	1% by volume

# Complies with ASTM E-84 Rating

The values given against the above properties are typical and are not meant to imply specification limits and should not be used for this purpose without references to SAPTEX.

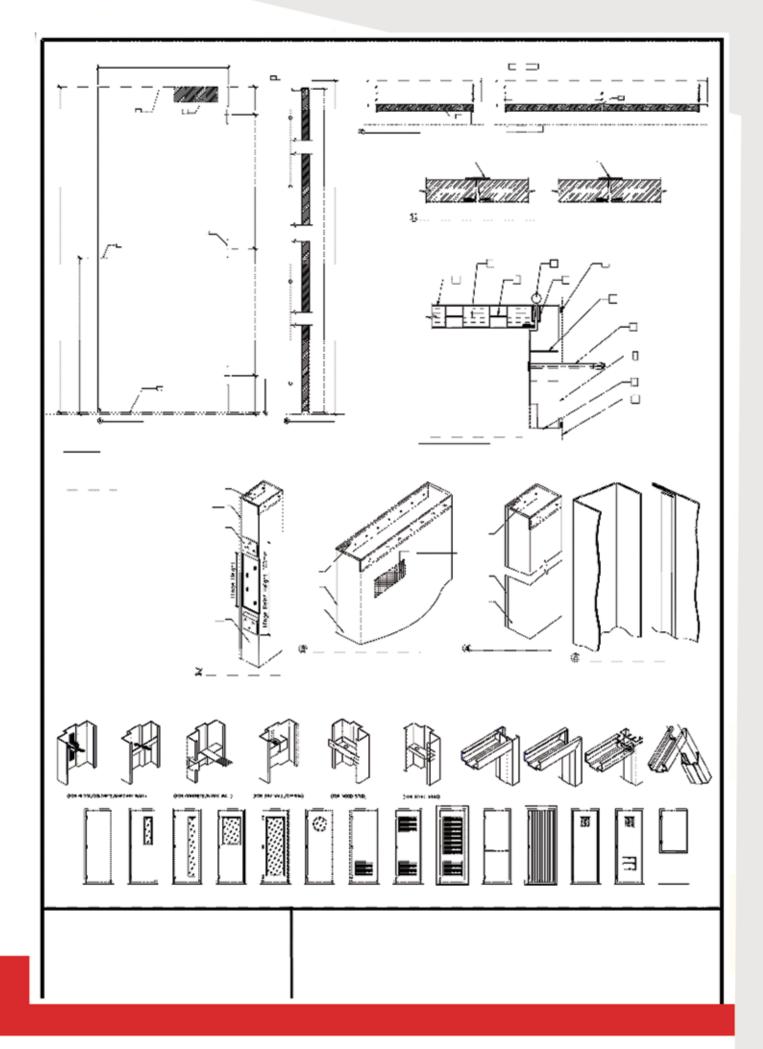
Numerical fire ratings or fire classification are not intended to reflect hazards presented by this material under actual fire conditions.

This leaflet cancels and supersedes all previous editions. We reserve the right to amend specifications without prior notice. The informations contained in this leaflet are true and accurate to the best of our knowledge and belief. All liability for errors and omissions, damage or loss resulting hereby excluded from any contractual legal bindings. Recommendations for use should be verified as to suitability and compliance with actual requirements, specifications and any applicable law and regulation.

SAPTEX has its own well equipped quality control laboratory to ensure product compliance with national, regional and international standards such as SASO, GULF, ASTM, DIN, BS, EN, FS, ISO, etc. etc.







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# Powder Coated Applications, Details And Specifications

echnical Data Shee POWDER COATED







# **Guard Endure D**

## PRODUCT DESCRIPTION

This product is a powder coating that has been specifically developed to have improved scratch, mar and abrasion resistance properties to help keep coated items looking better for longer. It will also meet industry standards with regard to all other mechanical and chemical properties.

### Application areas

This product is recommended for interior use on surfaces exposed to a dry environment.

Typical application areas: Office furniture Home furniture Commercial furniture

# POWDER PROPERTIES

#### Storage

Keep in a dry cool area. Maximum temperature 25 °C. Maximum relative humidity 60 %. If stored longer than 12 months a quality test is recommended.

# APPLICATION

### Pretreatment

The overall performance of the coating system is largely dependent on the nature of the substrate and the type and quality of the pretreatment. For optimal results, it is recommended to follow the pretreatment supplier's instructions and recommendations.

#### Powder application

Curing schedule	Object temperature	Time
Guard Endure D8	180 °C 200 °C	10 minutes 5 minutes
Guard Endure D6	160 °C 180 °C	10 minutes 5 minutes

Other curing schedules can be created upon technical approval.

Recommended film thickness (µm): 55-70

#### Equipment

Suitable for Corona or Tribo charging equipment.

## APPEARANCE

# Colour

The product is available in a wide variety of RAL and NCS colours.

#### P.2.1.a

This Technical Data Sheet supersedes those previously issued.

The Technical Data Sheet (TDS) is recommended to be read in conjunction with the Safety Data Sheet (SDS) for this product. For your nearest local Jotun office, please visit our website at www.jotun.com



Date of issue: 21 June 2016

# **Technical Data Sheet**

# **Guard Endure D**



Gloss	ISO 2813 (60°) Guard Endure D6 Guard Endure D8	60-95 15-95
Finish	Smooth	

If the significant surface is too small or unsuitable for the gloss to be measured with the glossmeter, the gloss should be compared visually with the reference sample (from the same viewing angle). Other gloss levels are available upon technical approval.

# PERFORMANCE

The technical data provided below are typical for this product when applied as follows:			
Substrate	Iron-phosphated cold rolled steel		
Substrate thickness (mm)	0,8		
Film thickness (µm)	55-70		
Typical values when tested.			

Property	Standard	Result
Adhesion	ISO 2409	Cross-cut rating Gt0 (100 % adhesion)
Pencil hardness test	ASTM D3363-05	Scratch hardness: ≥ 2H Gouge hardness: ≥ 4H
Scratch resistance	ISO 1518-1 / SIS 83 91 17	$\leq$ 0.5 mm wide scratch at 3 N load having a hemispherical hard-metal tip of radius 0.5 mm
Film hardness	ISO 2815	Indentation resistance according to Buchholz: $\geq$ 80
Crockmeter Mar test	Polishing paper type 9MIC, 281Q Wetodry from 3M, gloss at 20°	Maximum 50 % gloss change (5 double rubs)
Cupping test	ISO 1520	≥ 6 mm
Impact resistance	ASTM D2794 (5/8 " ball) (inch-pounds, front and reverse) Guard Endure D6 Guard Endure D8 (Gloss: 15-59) Guard Endure D8 (Gloss: 60-95)	120/80 80/40 120/80
Resistance to neutral salt spray	ASTM B117	No blistering and maximum 1 mm corrosion creep from scratch after 240 hours
Resistance to humid atmospheres	ISO 6270-2	No blistering and maximum 2 mm corrosion creep from scratch after 504 hours

### Disclaimer

The information in this document is given to the best of Jotun's knowledge, based on laboratory testing and practical experience. Jotun's products are considered as semi-finished goods and as such, products are often used under conditions beyond Jotun's control. Jotun cannot guarantee anything but the quality of the product itself. Minor product variations may be implemented in order to comply with local requirements. Jotun reserves the right to change the given data without further notice.

Users should always consult Jotun for specific guidance on the general suitability of this product for their needs and specific application practices.

If there is any inconsistency between different language issues of this document, the English (United Kingdom) version will prevail.

## P.2.1.b

Date of issue: 21 June 2016

This Technical Data Sheet supersedes those previously issued.

The Technical Data Sheet (TDS) is recommended to be read in control of the Safety Data Sheet (SDS) for this product. For your nearest local Jotun office, please visit our website at www.jotun.com



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# Primer Coated Applications,Details And Specifications

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# Alkydprimer

# Product description

This is a one component oxidatively drying alkyd coating. Can be used as primer or mid coat in atmospheric environments. Suitable for properly prepared carbon steel, aluminium and wooden substrates.

# Scope

The Application Guide offers product details and recommended practices for the use of the product.

The data and information provided are not definite requirements. They are guidelines to assist in smooth and safe use, and optimum service of the product. Adherence to the guidelines does not relieve the applicator of responsibility for ensuring that the work meets specification requirements. Jotuns liability is in accordance with general product liability rules.

The Application Guide (AG) must be read in conjunction with the relevant specification, Technical Data Sheet (TDS) and Safety Data Sheet (SDS) for all the products used as part of the coating system.

# **Referred standards**

Reference is generally made to ISO Standards. When using standards from other regions it is recommended to reference only one corresponding standard for the substrate being treated.

# Surface preparation

The required quality of surface preparation can vary depending on the area of use, expected durability and if applicable, project specification.

When preparing new surfaces, maintaining already coated surfaces or aged coatings it is necessary to remove all contamination that can interfere with coating adhesion, and prepare a sound substrate for the subsequent product.

Inspect the surface for hydrocarbon and other contamination and if present, remove with an alkaline detergent. Agitate the surface to activate the cleaner and before it dries, wash the treated area using fresh water. Paint solvents (thinners) shall not be used for general degreasing or preparation of the surface for painting due to the risk of spreading dissolved hydrocarbon contamination. Paint thinners can be used to treat small localized areas of contamination such as marks from marker pens. Use clean, white cotton cloths that are turned and replaced often. Do not bundle used solvent saturated cloths. Place used cloths into water.

### Process sequence

Surface preparation and coating should normally be commenced only after all welding, degreasing, removal of sharp edges, weld spatter and treatment of welds is complete. It is important that all hot work is completed before coating commences.

### Soluble salts removal

Soluble salts have a negative impact on the coating systems performance. Jotun's general recommendations for maximum soluble salts (sampled and measured as per ISO 8502-6 and -9) content on a surface are: Areas exposed to (ISO 12944-2): C1-C4: 200 mg/m2

### Carbon steel

### Initial rust grade

The steel shall preferably be Rust Grade A or B (ISO 8501-1). It is technically possible to apply the coating to rust grades C and D, but it is practically challenging to ensure specified film thickness on such a rough surface, hence risk of reduced lifetime of the coating system.

# P.2.2.a

Date of issue: 2 February 2017



This Application Guide supersedes those previously issued.

# Alkydprimer





#### Initial inspection and pretreatment

Inspect the surface for contaminations and if present, remove with an alkaline detergent. Agitate the surface to activate the cleaner and before it dries, wash the treated area by Low-Pressure Water Cleaning (LPWC) to Wa 1 (ISO 8501-4) using fresh water.

Non-contaminated areas shall be washed down by Low-Pressure Water Cleaning (LPWC) to Wa 1 (ISO 8501-4) using fresh water to reduce the concentration of surface chlorides.

#### Metal finishing

For areas in corrosivity category C1 to C4 (ISO 12944-2) all irregularities, burrs, slivers, slag and spatter on welds, sharp edges and corners shall conform to minimum grade P2 (ISO 8501-3) Table 1, or as specified. All edges shall have a rounded radius of minimum 2 mm subjected to three pass grinding or equally effective method.

Defective welds shall be replaced and treated to an acceptable finish before painting. Temporary welds and brackets shall be ground to a flat finish after removal from the parent metal.

#### Pitting repair

Pittings in steel can be difficult to cover fully with most coatings. In some areas it is practically feasible to use filler to fill pittings. This should then be done either after the initial surface preparation or after application of first coat.

### Abrasive blast cleaning

Optimum performance is achieved by dry abrasive blast cleaning to Sa  $2\frac{1}{2}$  or higher (ISO 8501-1) with a blast medium suitable to achieve a sharp and angular surface profile of 30-85  $\mu$ m, grade Fine to Medium G (ISO 8503- 2).

#### Cleanliness

Minimum acceptable blast cleaning standard is Sa 1 (ISO 8501-1).

#### Dust contamination

At the completion of abrasive blasting the prepared surface shall be cleaned to remove residues of corrosion products and abrasive media, and inspected for surface particulate contamination. Maximum contamination level is rating 2 (ISO 8502-3) as per Figure 1. Dust size no greater than class 2.

### Hand and Power Tool Cleaning

#### Power tool cleaning

Surfaces to be coated shall be prepared by mechanical preparation methods to minimum St 2 (ISO 8501-1). Suitable methods are disc grinding, hand sanding or hand wire brushing. Ensure the surface is free from mill scale, residual corrosion, failed coating and is suitable for painting. If power wire brushing is used, care should be taken not to polish the metal surface, as this can reduce adhesion of the coating. The surface should appear rough and mat.

# Water jetting

Optimum performance is achieved with preparation grade Wa 2<sup>1</sup>/<sub>2</sub> (ISO 8501-4). Minimum preparation grade is Wa 1. The maximum accepted grade of flash rust for any preparation is FR M.

#### Aluminium

#### Abrasive blast cleaning

Abrasive blast cleaning to achieve a surface profile using approved non-metallic abrasive media which is suitable to achieve a sharp and angular surface profile.

Hand and Power Tool Cleaning

# P.2.2.b

Date of issue: 2 February 2017

This Application Guide supersedes those previously issued.



# Alkydprimer



After pre-treatment of welds, sharp edges, removal of weld spatter and other surface contamination the surface shall be degreased using an alkaline detergent which is agitated with non-metallic brushes and then fresh water rinsed. The cleaned surface shall be then hand or machine abraded with non-metallic abrasives or bonded fibre machine or hand abrasive pads to remove all surface polish and to impart a scratch pattern to the surface. Do not use high speed rotational sanders.

### Coated surfaces

Verification of existing coatings including primers

When the surface is an existing coating, verify with technical data sheet and application guide of the involved products, both over coatability and the given maximum over coating interval.

#### Over coating

The surface of previous coats shall be free from contamination by water, hydrocarbon based products, wax, mud, mortar droppings and loose, chalked and flaking coating.

Inspect the surface for oil, grease and other contamination and if present, remove with an alkaline detergent. Agitate the surface to activate the detergent and before it dries, wash the treated area using plenty of fresh water.

When applied on coatings past maximum over coating interval light abrading may be required to achieve proper intercoat adhesion.

#### Organic primers/intermediates

Primers/ intermediates based on alkyd or epoxy are accepted.

#### Shop primers

Before being overcoated the shop primer must be fully cured, clean, dust free, dry and undamaged. Inorganic zinc shop primers must be free of zinc salts (white rust). Corroded and damaged areas must be mechanically cleaned to minimum St 2 (ISO 8501-1).

### Other surfaces

Wooden surfaces must be clean and dry before being coated. Surface contamination must be removed by use of alkaline detergent and flushing with fresh water.

# Application

Acceptable environmental conditions - before and during application

Before application, test the atmospheric conditions in the vicinity of the substrate for the dew formation according to ISO 8502-4.

Air temperature	5 - 60	°C
Substrate temperature	5 - 50	°C
Relative Humidity (RH)	10 - 85	%

The following restrictions must be observed:

• Only apply the coating when the substrate temperature is at least 3 °C (5 °F) above the dew point

- Do not apply the coating if the substrate is wet or likely to become wet
- Do not apply the coating if the weather is clearly deteriorating or unfavourable for application or curing
- Do not apply the coating in high wind conditions

# P.2.2.c

Date of Issue: 2 February 2017

This Application Guide supersedes those previously issued.



Alkydprimer



# Product mixing

Product mixing

Single pack

# Thinner/Cleaning solvent

Thinner:

Jotun Thinner No. 2

# Application data

# Airless Spray Equipment

Pump ratio (minimum) :	32:1
Pump output (litres/minute) :	0.9-1.5
Pressure at nozzle (minimum) :	150 bar/2100 psi
Nozzle tip (inch/1000) :	15-19
Filters (mesh) :	70-100

Several factors influence, and need to be observed to maintain the recommended pressure at nozzle. Among factors causing pressure drop are:

- long paint- and whip hoses
- low inner diameter hoses
- high paint viscosity
- large spray nozzle size
- inadequate air capacity from compressor
- wrong or clogged filters

### Other application tools

#### Brush application

Suitable for application with brush. Use a high quality, clean natural or synthetic bristle brush with proper shape and size. When used as primer coat, a stiff brush is recommended to secure proper substrate wetting. When used as a finish coat a more long haired brush is recommended to improve flow and appearance. To achieve specified dry film thickness it may be necessary to apply multiple coats.

### Roller application

Suitable for application with roller. Use a properly sized, high quality, clean roller with natural or synthetic cover. Pre-wash new rollers in proper thinner to remove loose fibres. Roller is not recommended for application of primer coat. Addition of small volumes (5-10 %) of thinner will improve appearance when used as finish coat. To achieve specified dry film thickness it may be necessary to apply multiple coats.

# Film thickness per coat

Typical recommended specification range

Dry film thickness	30	-	50	μm
Wet film thickness	60	-	95	μm
Theoretical spreading rate	17,3	-	10,4	m²/l

# P.2.2.d

Date of Issue: 2 February 2017

This Application Guide supersedes those previously issued.



Alkydprimer



#### Film thickness measurement

Wet film thickness (WFT) measurement and calculation

To ensure correct film thickness, it is recommended to measure the wet film thickness continuously during application using a painter's wet film comb (ISO 2808 Method 1A). Use a wet-to-dry film calculation table to calculate the required wet film thickness per coat.

A wet to dry film thickness chart is available on the Jotun Web site.

#### Dry film thickness (DFT) measurement

When the coating has cured to hard dry state the dry film thickness can be checked to SSPC PA 2 or equivalent standard using statistical sampling to verify the actual dry film thickness. Measurement and control of the WFT and DFT on welds is done by measuring adjacent to and no further than 15 cm from the weld.

### Ventilation

Sufficient ventilation is very important to ensure proper drying/curing of the film.

#### Drying process

Do not attempt to speed up the curing process by blowing hot air on to the wet coating film as this may lead to skin drying/curing, entrapped solvents and consequently solvent blistering and inferior corrosion protection.

#### Coating loss

The consumption of paint should be controlled carefully, with thorough planning and a practical approach to reducing loss. Application of liquid coatings will result in some material loss. Understanding the ways that coating can be lost during the application process, and making appropriate changes, can help reducing material loss.

Some of the factors that can influence the loss of coating material are:

- type of spray gun/unit used
- air pressure used for airless pump or for atomization
- orifice size of the spray tip or nozzle
- fan width of the spray tip or nozzle
- the amount of thinner added
- the distance between spray gun and substrate
- the profile or surface roughness of the substrate. Higher profiles will lead to a higher "dead volume"
- the shape of the substrate target
- environmental conditions such as wind and air temperature

# Drying and Curing time

Substrate temperature	5 °C	10 °C	23 °C	40 °C
Surface (touch) dry Walk-on-dry Dry to over coat, minimum	4 h 28 h 28 h		6 h	1 h 4 h 10 h

Drying and curing times are determined under controlled temperatures and relative humidity below 85 %, and at average of the DFT range for the product.

Surface (touch) dry: The state of drying when slight pressure with a finger does not leave an imprint or reveal tackiness.

Walk-on-dry: Minimum time before the coating can tolerate normal foot traffic without permanent marks, imprints or other physical damage.

Dry to over coat, minimum: The shortest time allowed before the next coat can be applied.

# P.2.2.e

Date of issue: 2 February 2017

This Application Guide supersedes those previously issued.





# Maximum over coating intervals

Maximum time before thorough surface preparation is required. The surface must be clean and dry and suitable for over coating. Inspect the surface for chalking and other contamination and if present, remove with an alkaline detergent. Agitate the surface to activate the cleaner and before it dries, wash the treated area by low-pressure water jetting to Wa 1 (ISO 8501-4) using fresh water.

If maximum over coating interval is exceeded the surface should in addition be carefully roughened to ensure good inter coat adhesion.

Areas for atmospheric exposure

Itself	extended	evtender	i evtender	d extended	
Average temperature during drying/curing	5 °C	10 °C	23 °C	40 °C	

# Other conditions that can affect drying / curing / over coating

#### Repair of coating system

### Damages to the coating layers:

Prepare the area through sandpapering or grinding, followed by thorough cleaning/vacuuming. When the surface is clean and dry the coating may be over coated by itself or by another product, ref. original specification.

Always observe the maximum over coating intervals. If the maximum over coating interval is exceeded the surface should be carefully roughened in order to ensure good intercoat adhesion.

#### Damages exposing bare substrate:

Remove all rust, loose paint, grease or other contaminants by spot blasting, mechanical grinding, water and/or solvent washing. Feather edges and roughen the overlap zone of surrounding intact coating. Apply the coating system specified for repair.

#### Repair of damaged areas

Sags and runs can be caused by too high wet film thickness, too much thinner added or the spray gun used too close to the surface.

Repair by using a paint brush to smooth the film when still wet.

Sand down to a rough, even surface and re-coat if the coating is cured.

Orange peel can be caused by poor flow/levelling properties of the paint, poor atomization of the paint, the spray gun held too close to the surface or by excessive film thickness.

This can be rectified by abrading the surface and applying an additional coat after having adjusted the application properties or the application technique.

Coating film continuity

When required by the specification, the coating shall be tested for film discontinuity according to ASTM D 5162, test method A or B as appropriate for the actual dry film thickness. All recorded defects shall be repaired by best practical means.

# Quality assurance

# P.2.2.f

Date of Issue: 2 February 2017

This Application Guide supersedes those previously issued.



Alkydprimer



The following information is the minimum required. The specification may have additional requirements.

- Confirm that all welding and other metal work has been completed before commencing pre-treatment and surface preparation

- Confirm that installed ventilation is balanced and has the capacity to deliver and maintain the RAQ

- Confirm that the required surface preparation standard has been achieved and is held prior to coating
- application

- Confirm that the climatic conditions are within recommendations in the AG, and are held during the application

- Confirm that the required number of stripe coats have been applied
- Confirm that each coat meets the DFT requirements in the specification
- Confirm that the coating has not been adversely affected by rain or other factors during curing
- Observe that adequate coverage has been achieved on corners, crevices, edges and surfaces where the spray gun cannot be positioned so that its spray impinges on the surface at 90° angle
- Observe that the coating is free from defects, discontinuities, insects, abrasive media and other contamination
   Observe that the coating is free from misses, sags, runs, wrinkles, fat edges, mud cracking, blistering, obvious pinholes, excessive dry spray, heavy brush marks and excessive film build
- Observe that the uniformity and colour are satisfactory

All noted defects shall be fully repaired to conform to the coating specification.

#### Caution

This product is for professional use only. The applicators and operators shall be trained, experienced and have the capability and equipment to mix/stir and apply the coatings correctly and according to Jotun's technical documentation. Applicators and operators shall use appropriate personal protection equipment when using this product. This guideline is given based on the current knowledge of the product. Any suggested deviation to suit the site conditions shall be forwarded to the responsible Jotun representative for approval before commencing the work.

For further advice please contact your local Jotun office.

### Health and safety

Please observe the precautionary notices displayed on the container. Use under well ventilated conditions. Do not inhale spray mist. Avoid skin contact. Spillage on the skin should immediately be removed with suitable cleanser, soap and water. Eyes should be well flushed with water and medical attention sought immediately.

### Accuracy of information

Always refer to and use the current (last issued) version of the TDS, SDS and if available, the AG for this product. Always refer to and use the current (last issued) version of all International and Local Authority Standards referred to in the TDS, AG & SDS for this product.

#### Colour variation

Some coatings used as the final coat may fade and chalk in time when exposed to sunlight and weathering effects. Coatings designed for high temperature service can undergo colour changes without affecting performance. Some slight colour variation can occur from batch to batch. When long term colour and gloss retention is required, please seek advice from your local Jotun office for assistance in selection of the most suitable top coat for the exposure conditions and durability requirements.

#### Reference to related documents

The Application Guide (AG) must be read in conjunction with the relevant specification, Technical Data Sheet (TDS) and Safety Data Sheet (SDS) for all the products used as part of the coating system.

When applicable, refer to the separate application procedure for Jotun products that are approved to classification societies such as PSPC, IMO etc.

# Symbols and abbreviations

min = minutes h = hours d = days °C = degree Celsius ° = unit of angle

# P.2.2.g

Date of issue: 2 February 2017

This Application Guide supersedes those previously issued.

The Application Guide (AG) must be read in conjunction with the relevant specification, Technical Data Sheet (TDS) and Safety Data Sheet (SDS) for all the products used as part of the coating system. For your nearest local Jotun office, please visit our website at www.jotun.com.

TDS = Technical Data Sheet

VOC = Volatile Organic Compound

MCI = Jotun Multi Colour Industry (tinted colour)

AG = Application Guide

SDS = Safety Data Sheet





# Alkydprimer



μm = microns = micrometres g/l = grams per litre g/kg = grams per kilogram m<sup>2</sup>/l = square metres per litre mg/m<sup>2</sup> = milligrams per square metre psi = unit of pressure, pounds/inch<sup>2</sup> Bar = unit of pressure RH = Relative humidity (% RH) UV = Ultraviolet DFT = dry film thickness WFT = wet film thickness RAQ = Required air quantity PPE = Personal Protective Equipment EU = European Union UK = United Kingdom EPA = Environmental Protection Agency ISO = International Standards Organisation ASTM = American Society of Testing and Materials AS/NZS = Australian/New Zealand Standards NACE = National Association of Corrosion Engineers SSPC = The Society for Protective Coatings PSPC = Performance Standard for Protective Coatings IMO = International Maritime Organization

# Disclaimer

The information in this document is given to the best of Jotun's knowledge, based on laboratory testing and practical experience. Jotun's products are considered as semi-finished goods and as such, products are often used under conditions beyond Jotun's control. Jotun cannot guarantee anything but the quality of the product itself. Minor product variations may be implemented in order to comply with local requirements. Jotun reserves the right to change the given data without further notice.

Users should always consult Jotun for specific guidance on the general suitability of this product for their needs and specific application practices.

If there is any inconsistency between different language issues of this document, the English (United Kingdom) version will prevail.

# P.2.2.h

Date of issue: 2 February 2017



This Application Guide supersedes those previously issued.



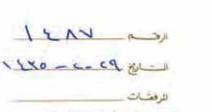
# Company Approvals

المناشب دورا 🔰 Al-Manashy Doors

المبلك العبية السكور

مكالمشروعاالنفو

وتارة اللاخالية



رقم سجل الوزارة : ٧٠٠٠٨٧١١٦٤

# عاجل جداً

التمالآح

السادة / مصنع شركة المناشي للأبواب

ص ب : ٧١٠٢١- الرياض : ١١٥١٧- هاتف : ٢٢٢٢٦٤٤- فاكس : ٢٢٢٢٧٤٤ السلام عليكم ورحمة الله وبركاته إشارة لخطابكم رقم ١٣٠٦ وتاريخ ١٤٣٥/٢/٢٧هـ المتضمن طلب اعتماد مصنعكم وتأهيله لدينا ليكون أحد المصانع التي تقوم بتوريد منتجاتها للمقاولين المتعاقدين مع مقام وزارة الداخلية لتنفيذ مشاريع في فروع مركز المعلومات الوطني.

نفيدكم أنه لا مانع لدينا من تعاملكم مع المقاولين المنفذين لمشاريع فروع مركز المعلومات الوطني على أن يتم اعتمادكم بذلك من قبلهم على تموذج اعتماد العينات، متمنين لكم التوفيق والسداد.

ولكم تحياتنا

مديسر قسم التنفيذ بإدارة المنشسآت بمركز المشروعات التطويرية

نقيب مهندس / طارق بن علي حلوي

بمسجد ورابه الماتها

المناشب دورز 🐚 Al-Manashy Doors







الموضوع اطلب استخدام منتجات مصنع المناشي للأبواب

> المكرم / مدير عام مصنع المناشي للأبواب ص ب ٧١٠٢١ - الرياض ١١٥٨٧ السلام عليكم ورحمة الله وبركاته

إشارة إلى خطابكم رقم ٣٣١٥٢٤٠٠٥ بتاريخ ١٥/ ٧ /١٤٣٣ هـ بخصوص طلبكم الموافقة على استخدام منتجاتكم في مجال الابواب المعدنية لمشاريع الوزارة .

نفيدكم بأنه يمكنكم تقديم عيناتكم من خلال المقاولين المنفذين لمشاريع الوزارة بضمان عشر سنوات وفق صيغة الضمان المعتمد بالوزارة وتعتبر مسئوليتكم تضامنية مع المقاول المنفذ وسيتم إيقاف استخدام المنتجات الموردة من قبلكم تلقائيا حال وجود عيوب صناعة أو ملاحظات على المنتحات المذكورة أعلام 1 1/2 day

والسلام عليكم ورحمة الله وبركاته

مدير عام البحوث وضبط الجودة ع بي من من من البراك

# Letter of Accreditation

Ministry of Health

الرقم : ۲۸۲ ۲۱۲ ۲۱۷ ۱۰ التاريخ : ۲۱ / ۲۱ /۲۰ ۱۶ هر المثفوعات : ( > + صلون )



المُمَلَّكَةُ العَرَبَيَّةُ السُّعُوديَّةُ وَزَارَة الصَّحَّة المشاريع والشنون المندسية

الموضوع: مجموعة المناشي (حلول عمرانية متكاملة).

السادة/ مجموعة المناشي رحلول عمرانية متكاملة) المسترمين

ص ب: ١٠٤٣٢ الرياض ١١٤٢٣ ت: ٢٤١٦٧٦٣ ف: ٢٤١٦٤٧٤١

# السلام عليكم و رحمة الله و بركاته...

إشارة إلى خطابكم رقم ١٥٣٠٠٥ وتاريخ ١٤٣٢/٧/١٦هـ والمتضمن طلب تأهيل منتجات المصنع من الأبواب والإطارات الحديدية المقاومة وغير المقاومة للحريق لإعتمادها في مشاريع الوزارة. نود أن نشكركم على إهتمامكم بالمشاركة بتقديم منتجاتكم لمشاريع الوزارة.

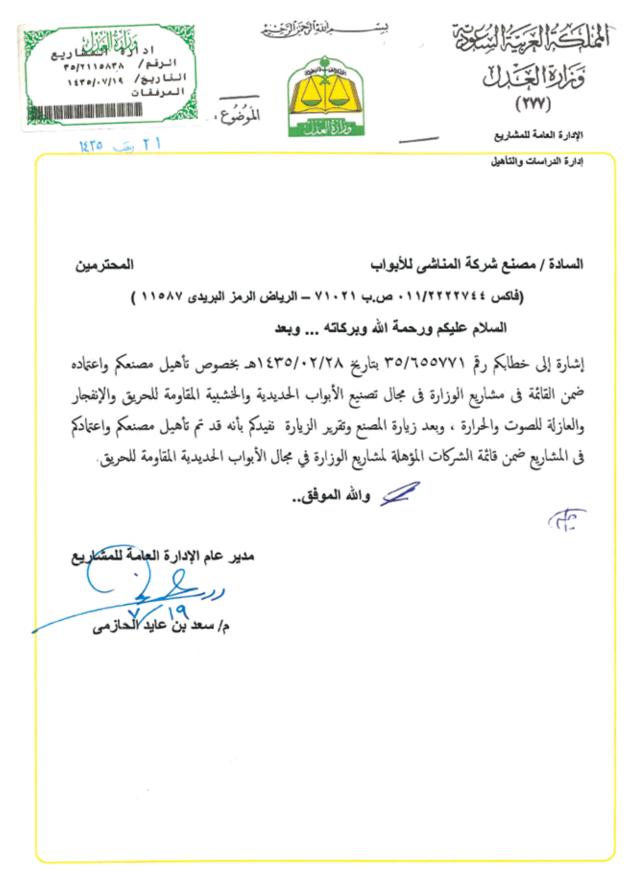
ونفيدكم بأنه تم الإطلاع على ملف المنتجات ويكنكم تقديم منتجاتكم لمقاولي مشاريع الوزارة في حال مطابقتها لمواصيفات الوزارة .

مع خالص التحيه ...

دير إدارة الإشراف على التنفيك 2 1885/11 المهندس/عبدالمنعم بين محمد المحسين

المناشب دورز 📔 Al-Manashy Doors

# Letter of Accreditation



نموذج رقم ۲۰۰۳-۱۰۰۷

# Letter of Accreditation

وزارة الإسكان Ministry of Housing المملكة العربية السعودية وأوالمشتر الدادي لغريغ فسأبر ١٩٠٠، الاحداد وزارة الإسكان منفرمان : 1 يَ الإدارة العامة للإشراف ومتابعة الشاريع NA TURAN HANG KUDUK HID لجئة أعتماد المواد الموضوع / <u>تأهيل مصنع شركة الناشي للأبواب في مشاريع الوزارة</u> المحترمين / مصنع شركة المناشي للأبواب فاکس: ۲۲۲۲۷٤٤ الياتف: ٢٢٢٢٦٤٤ الرياض: ١١٥٨٧ صب ۲۱۰۲۱ السلام عليكم ورحمة الله وبركاته إشارة إلى خطابكم رقم (١. م ١٢٠٠٢) وتاريخ ١٤٢٥/٠٥/٠٥هـ والوارد للوزارة برقم (٦٩٤٠) وتاريخ ١٤٣٥/٠٥/١٢هـ بشأن طلب تأهيل مصنعكم في مشاريع الوزارة. وبعد الاطلاع والدراسة من قبل المختصين بالوزارة لملف التأهيل نفيدكم أنه لا مانع من تأهيل مصنعكم كمورد للأبواب (الحديدية - الخشبية) في مشاريع الوزارة مع الإلتزام بالمواصفات الفنية الواردة بخطابنا رقم (٥١٤) وتاريخ ١٤٣٤/٠١/٢٣هـ وعلى أن يتم التقديم من خلال المقاولين المنفذين للمشاريع مع مراعاة الآتي: أن يتم التوريد للمشاريع طبقا لجداول الكميات والمخططات التعاقدية والمواصفات الفنية. ۲. هذا الإعتماد لا يلزم الوزارة بقبول أي منتجات لا تتناسب مع متطلبات المشاريع التابعة لها. < 8.s ولكم تحياتي المشرف على الادارة العامة للإشراف ومتابعة المشاريع المهندس/ عبدالله بن عواد العنزي

المناشـــي دورز 📔 Al-Manashy Doors

# Letter of Accreditation

المملكذ العرب يتحت التيعوديت KINGDOM OF SAUDI ARABIA فزالقالتحالي الخالى Ministry of Higher Education TAIBAH UNIVERSITY كامغة طيبة (• ٣٩) / 039 / إدارة الإشراف على المشاريع للحترمين السادة / مكتب الخدمات الاستشارية، السعودي المحترع عناية المهندس/نبيل شنطى السلام عليكم ورحمة الله وبركاته وبعد: إشارة إلى خطابكم رقم (س.كم/١٠٣٥/ج/١٩٤٧) في تاريخ ١٤٣٥/١١/٢٢هـ، والمعطوف على خطاب شركة أسعد سعيد رقم رقم (B15/AZ/SC/L/0110) في تاريخ الاراراماناهم والمتضمن طلب تأهيل واعتماد شركة مصنع المناشى للأبواب الحديدة كمورد للأبواب المدنية لمشروع مبنى المعهد المالي للأئمة والخطباء (B15) ومبنى كلية الآداب والملوم الإنسانية (BI3A) بجامعة طيبة المدينة المنورة. عليه وبناء على توصيتكم نفيدكم بأنه لا مانع من اعتماد شركة مصنع المناشي للأبواب الحديدة كمورد للأبواب المدنية لمشروع مبنى المعهد المالي للأئمة والخطباء (B15) ومبنى كلية الآداب والملوم الإنسانية (B13A)، إن يتم تقديم عينة على أرض /م الواقع. وتقبلوا تحياتي وتقديري . . . مدير عام الإدارة المامة للإشراف على للشاريع م/سمير عبداللحسن خاشقجي Stor CA سعادة المستشار والمشرف على المشاريع مكتبنا (٤:٥)خ/الاستشاري) اعتماد شرحلة اسراء العالية - حكوريا ۱۱۳۵ / هیٽم ايوزيد 

الملكذ العربيت الشغودين

وتاركا التغليز الغال

# Letter of Accreditation

Kingdom of Saudi Arabia Ministry of Higher Education Jazan University

من : المشرف العام على إدارة المشاريع

إلى : شركة أفراس

اعتماد مورد ثاني للأبواب المعدنية لمشروع مجمع كليات البذات بمحلية

الحترمين

السادة / شركة أفراس

السلام عليكم ورحمة الله وبركاته .... وبعد

إشارة إلى خطابكم الوارد إلينا رقم ٦٦٥٣٨ بتاريخ ١٤٣٥/١٠/٠٧ هـ بخصوص اعتماد مورد ثاني للأبواب المعدنية لمشروع مجمع كليات البنات بمحلية عليه فإنه لا مانع من اعتماد شركة المناشي للأبواب الحديدية والحلوق المعدنية على أن تقدم العينات والمخططات قبل البدء في التنفيذ.

20

יננבה. 170 רך

و الله ولى التوفيق .... المشرف العام على إدارة المشاريع نحامعة جازان

المرفقات ،

الملكة العربية السعودية - جازان - ص.ب ، ١١٤ - هاتف ، ٧٣٢٣٠٠٢٨ - ٢٢٣٢٨٠٠ - ٢٢٣٢٨٠٠ K. S. A - Jazan - P.o. Box.:114 - Tel : 073230028 - 3232800 - 073230029 - www.jazan.edu.sa

Q12 40/1/5 120

المتاشين جوزا 🎦 Al-Manashy Doors

# Letter of Compliance

ministry of interior-boarder guards

المديرية العامة لحرس الحدود 🙈	بشأننالج
السرقم : ٢١.١/١/١٣ السرقم التساريخ : ١٤٢٥/١٢٢ه التاريخ المنفوعات: الرفقاد المرفق الالالالالالالالالالالالالالالالالالال	

المملكة العربية السعودية وزارة الداخلي . حرس الحدود الإدارة المامة الشوون الهنسية إدارة الشاريع / الإشراف

السادة / مصنع شركة المناشي للأبواب

ص ب ۲۱۰۳۱ الرياش ۱۱۵۸۷ شاکس ۲۲۲۲۲۷٤

السلام عليكم ورحمة الله وبركاته

إشارة إلى خطابكم رقم بدون وتاريخ ١٤٣٥/٣/١٣هـ (المرفق نسخته) المتضمن طلبكم اعتماد منتجات مصنع المناشي للأبواب الحديدية والخشبية .

نفيدكم بأنه تم الاطلاع على ملف تأهيل مصنعكم ولا مانع لدينا من تقديم منتجاتكم

لمقاولي مشاريع حرس الحدود في حال مطابقتها للمواصفات .. والسلام عليكم ، ،

of in

مدير الإدارة العامة للشؤون الهندسية

العقيد المهندس المجتج المراج

هالال بن محمد الهسلال

# Letter of Compliance

Mohammed A. Al-Showair Est.

for Trading & Contracting

المحترمين

sceco approval



مؤسسة محمد بن عبد الرحمن الشويعر للتجارة والمقساولات

خطاب رقم 1 / م / 2014

التاريخ 2014/5/13م

# السادة الشركة السعودية للكهرباء

السلام عليكم ورحمة الله وبركاتة،،،

اشارة إلى العقد رقم 4400003135 بتاريخ 2014/2/9م بخصوص مشروع استبدال ابواب محطات الكهرباء بالمنطقة الوسطى نقدم لكم عينة باب الطوارئ بالمواصفات التالية :

أبواب حديدية بكامل ملحقاتها من البراويز ، أدوات التثبيت ، المفصلات ، وأشرطة مانعة للغبار وتركيبها بإحكام لضمان عدم دخول الأتربة داخل المحطة ويكون سمك صباح الحلق 2مم وسمك صباح الباب 2مم مبطن بمواد عازلة ومقاوم للحريق لمدة 60 دقيقة ويتم دهانة بدهان ناري طبقا للعينة المرفقة

المورد مصنع المناشي للابواب الحديدية

نأمل منك اعتماد العينة حتى يتسنى لذا بده الاعمال.

شاكرين لكم حسن تعاونكم والله الموفق .

معمد العين أحرم، طبق لواجعنة العمد المرتج

المدير العام محمد بن عيد الرحمن الشويع

المـنـاشــــي دورز 📔 Al-Manashy Doors



1 477 175 8.5. pass 12 MAL 7 / 1.9 101 المرفقات : .....

. ·

وزادة التعالي الغالي Kingdom Of Saudi Arabia Ministry of Higher Education

University of Ha'll

الموضوع : اعتماد عينة الحلق والباب الممسعدني المشروع : إنشاء كلية التمريض - جامعة حائل المقاول : شمر كة مجموعة العرض للمقاولات

المحترمين

السادة / مكتب فرحات للاستشارات الهندسية السلام عليكم ورحمة الله وبركاته وبعد

بالإشارة إلى مشروع إنشاء كلية التمريض بجامعة حائل والى خطابكم رقم ١٩/ف/ك ت / ١٤٣٨ بتاريخ ٢٨/٣/٩ ٩ هـ الموافق ٢٠١٦/١٢/٨ م بخصوص اعتماد عينة الحلق والباب المعدني المقدمة من مصنع شركة المناشى للأبواب والذى سبق اعتماده من وزارة التعليم العالى كمورد للمشروع أعلاه نفيدكم علما بالموافقة على اعتماد العينة المقدمة

مع ضرورة الالتزام بالاتى :-

- تقديم المخططات التنفيذية التفصيلية كاملة للاستشاري المشرف للاعتماد قبل البدء بالتنفيذ طبقاً للمواصفات المذكورة بالمشروع .
- ٢. تقديم كافة الإكسسوارات اللازمة للاعتماد على أن تكون من أفضل الماركات العالمية مع تقديم شهادة بلد المنشأ
- ٣. تقديم شهادة ضمان لمقاومة الحريق طبقا لمواصفات المشروع مع وضع (LABEL) على جميع الأبواب يوضيح المدة الزمنية لمقاومة الحريق ( UL LISTED ) .
  - ٤. يتم تركيب الأيواب من قبل العمالة المدرية للمورد أو مقاول متخصيص بقدم للاعتماد ويأبدي فنية متخصصة تحت إشراف الاستشاري .
- ٥. أن يكون الدهان ببوية الفرن على أن يتم تحديد اللون لاحقاً ضمن در اسة متكاملة لتحديد الألوان تقدم من قبل المقاول بالتنسيق مع إدارة المشاريع بالجامعة .
  - ٢. تقديم جدول زمنى للتوريد والتركيب من قبل المورد بالتوافق مع الجدول الزمنى للمشروع .

للإحاطة ولكم تحياتي،،،

المشرف العام على الادارة العالمة للمشاريع والتش ل والصيان م/فهيد بن عمير العجيم

المناشب دورز 📔 Al-Manashy Doors



، رقم الصادر اللحاد رقم الصادر المحاد على تركى موت ماكدونالد

المحترمين

العنوان (هاتف ١٢/٦٩١٤٧٣٢ • ١٢) فاكس ١٢/٦٨٢٢٩٧١ • ص.ب ٩٨٩٧ جدة:٢١٤٢٣

الموضوع: اعتماد مورد ثاني لشركات الأبواب المعدنية المشروع: خدمات الإشراف على تطوير مطار عرعر عقد رقم: (ط- ١٤ – ١٤٧ - دف- ٠)

السلام عليكم ورحمة الله ويركاته ،،،

إشارة إلى خطاب مقاول المشروع ج.م ٢٣٢/٠٤/١٧ وتاريخ ١٤٣٨/٠٨/١ هـ والمقيد لدينا برقم ٣٣٦٠٠ وتاريخ ١٤٣٨/٠٣/١٩ هـ وإلحاقا لخطابنا رقم ٢٣٦/٦/٧/٢٥٦ وتاريخ ١٤٣٨/٠٣/٠٧ هـ بخصوص الموضوع أعلاه والمبني على خطابكم رقم ٢٩٧٦/ص/١٦/١ وتاريخ ١٤٣٨/٢/١٧ هـ المقيد لدينا برقم ٦٨٩٩ وتاريخ ١٤٣٨/٢/١٣هـ (مرفق نسخة)

نعتمد لكم حسب توصيتكم شركة المناشي للأبواب كمورد ثاني مع العلم بأن هذا الإعتماد لا يعفي من مسؤولية تأخير تركيب الأبواب المعدنية كما نأمل منكم توجيه المقاول بمراعاة الوقت في ذلك.

كما نود منكم التنبيه على مقاول المشروع بضرورة الإلتزام بقنوات التواصل في المشروع عبركم ولن يتم قبول هذا التجاوز مستقبلاً. في ١٨٦

وتقبلوا تحياتي ،،،

مدير عام الخدمات الهندسية بقطاع المطارات

المهندس/عبدالله بن د كالكجديز الزهراني

ص- م/ معتزيوسف ( الملح ١٠٠٨ ) ص- ملف الأرشيف الرقــم/..... التاريخ / .... - عجود الدفقان/ ٢ لغة

المملكة العربية السعودية ص.ب: ٢٧٦٠ الرياض ١٥٥٢ فاكس: ٢٩٦١١٥٢٥٢٢٢٢ - ٢٩٦١١٥٢٥٢٢٢٢ - السنترال: ٢٩٦٦ Kingdom of Saudi Arabia, P.O Box: 47360 Riyadh 11552 Central: +966115253333 Fax: +966 11 5253 111 - +966 11 5253 222



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Material Submittal FormS6-PRS-018.1-F029

Project name	Educational Buildings Construction in Riyadh	Project no.	Riyadh111			
Contractor name	MOBCO - Civil Construction	Engineer name	Engr. Mohammed Fathy			
Consultant name	SAUD CONSULT.	Material submittal no.	111-MOB-SC-A-MS-0001			
Contract no.	TBC-SA-BD&&B-MOBCO-2007/2017	Date	30-03-2017			
To the Engineer		Approved Subcontractor (as applicable)				
Material Description One item only per	Pre-qualification Company documents (Al- MANASHY DOORS)	As per specification				
Form (system)	MANASHT DOORS)	Alternative				
Drawing reference		BOQ reference no.				
Specification reference		Standards, BS DIN				
/lanufacturer/Su	pplier		۵۰۵۵۵۵۵۵ ۱۰ الشاید ۱۰ موبکو ۱۰ رس			
Company name	AI-MANASHY DOORS	Locally manufactured	محمد م لدنية 11-			
Address		Other details	کة مؤنس دعمال ا			
Local agent			E Y			
Programme date material required on		Expected date of arrival on				

 Contractor's name
 Ashraf Ali Yehia
 Date
 30-03-2017

 Signature
 Image: Contractor of the state of the stat

site

Design Consultant's name Date Date

site









Material Submittal FormS6-PRS-018.1-F029

Project name	Educational Buildings Construction in Riyadh	Project no.	Riyadh111
Contractor name	MOBCO - Civil Construction	Engineer name	Engr. Mohammed Fathy
Consultant name	SAUD CONSULT.	Material submittal no.	111-MOB-SC-A-MS-0011
Contract no.	TBC-SA-BD&B-MOBCO-2007/2017	Date	08-05-2017
To the Engineer		Approved Subcontractor (as applicable)	
Material Description One item only per	Accessories (Hardware Sets), Al-	As per specification	
Form (system)	MANASHY DOORS	Alternative	S. F. O
Drawing reference		BOQ reference no.	هدان د اند ارس
Specification reference		Standards, BS DIN	محمه دنیه
/anufacturer/Su	ıpplier		مۇنىس مال 11 شىرو
Company name	AI-MANASHY DOORS	Locally manufactured	يركة بلاعة
Address		Other details	
Local agent			
Programme date material required on site		Expected date of arrival on site	
Contractor's name	Ashra Ali Yehia	Date	08-05-2017

# Detailed Design Oversight Professional's comments

	- Cor	- and offices					
Design Consultant's	Date						
name							
Signature							

Signature

\*

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SAUDCONSULT

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vervision of Schools Projects

المناشـــي دورز 📔 Al-Manashy Doors

الخلميات الهندسية Engineering Services

الهيلية العامية للطبران ألمدس General Authority of Civil Avlation

> السادة مكتب دار الرياض للاستشارات الهندسية ص.ب ( ۲۰۰۱۷۰ ) الرياض ( ۱۱۳۹۱ ) فاڪس (۲۰۱۰۰۹ )

الموضوع : إعتماد مورد ومواد الأبواب المدنية والإطارات المشروع : تطوير مطار أبها الاقليمي

السلام عليكم ورحمة الله وبركاته

بالإشارة الى خطابكم رقم DAR/GACA/AAP 284 16 وتاريخ ١٤٢٧/١٢/٢٤هـ والمقيد لدينا برقم ٥١٢ وتاريخ ١٤٢٨/٠١/٠٢هـ بخصوص الموضوع للمشروع أعلام .

نفيدكم بأنه لا مانع لدينا وحسب توصيتكم بإعتماد الشركات التالية :

شركة الكحيمي للصناعات المعدنية .

شركة المناشى لتصنيع الأبواب .

ومرفق بطيه صورة من نموذج الإعتماد للرقم المرجعي (٠٠٠٣٨) للعمل لموجبه . 🖧

وتقبلوا تحياتى

مدير عام الخدما الهند -\*

المهندس/ عبدالله بن عبدالعز\_ الزهراني

مرا منبوالتروع ما هنام تراود مرا با نابی سبون متنبر بر منصرا مرا مند ۲۵ زند ایساند انتر با ایمه منت ۲۵ زند ایساند انتر با مرا مند ۲۰ زمان ۱۹ زمان ما ۲۵ زمان ۲۰ زمان ۲۰ زمان ۲۰ ۲۵ زندان مسمود مسمود منافع ما

اللمسطلة المسمودية المعمم ودية عن ٢٨ جسدا (١١١٦ حالت (١٢٠٢٠ - (مر الميلة ٢٠١) (١٢٦٦ - (مر الميلة ٢٠١) Kingdom of Saudi Arabia, P.O Box 887 Jeddah 21421 Tel. +966 12 6405000 Fax: 966 12640 3876

المحترمين

Al-Manashy Doors

مكتب التعاونية للامتشارات القندسة الودنية Cooperative Office for Civil Engineering Consulting وزارة العمل شركة السبك للتجارة والماولات ALC: NO. اسم المشروع: انشاء مبنى مكتب العمل الموقع: بيشة قديم المواد -رقم التقديم السابق: Q52 رقم التقديم: الآ تقديم جديد - الموافق: ٢٠١٢/٥/٣٩م تاريخ التقديم السابق: ملاحظات ٢٠ تاريخ التقديم: ٢٢٨/٨/٢٢هـ 🗖 إعادة تقديم 🗆 معلومات غاية التقديم اخرى 🗆 مدنى 🗹 معماري 🗆 إنشاني 🗆 تكييف 🗆 صحى 📄 كهرباء التخصص 🗆 کتالوج 🗀 مخطط 📄 شهادة 🕑 عینة معلومات فنية مر فقات مادة حالة الاعتماد مواصفات قطاع اسم أو رقم وصف المادة مرجع قياسات المصتع/المورد ۴ مصنع المناشى Lus دورز المواصفات الأبواب المعدنية ملاحظات المقاول ممثل المقاول: استثناءات الاسم: محمد حسن الجماغي 8-2×1/N15:2013 التوقيع K توصيات الاستشاري ir, فوهم ما " من لا لم من احما د العنات المقدم مع الالتراج فالطلالات ون المرفقات اعتداورد) ودرار وزالت الارادين الان توصيات مهندس المالك 2 -لا مانع من الاعتماد متد تلاي ملاحيات الاس Kerne alter MI iei 511 1 · [1/180 ممثل الاستشارى: ممثل المالك: 211 مر هورا است وسيد من اللو مدم التوقيع: الاسم: 1 ح الأسم : R. التاري: الوظيفة: 10/0514 التارية الوظيفة: طريش علك بك -1 مساريع فك is of it حالة الاعتماد: C [عادة التقديم B يعتمد بملاحظات D A يعتمد مرفوض







# Rivedh Chamber Rivedh Chamber R I C E C ubyke Refu Biller, Re 1946

Dago H . 1 of 1

# Site Staff Comments

Subject : Metal Doors

			ragem. 1011
Received Date :	19 <sup>th</sup> July 2017	Issued Date:	
Contractor:	Al Latifia Trading & Contu	acting Co.	
Project Title:	RDISSON BLU CONVENT	TION CENTER	
Project No .:			
Attachments:			
Submittal Number	: P-A-AF-00-0007 Rev-4	Date : 23th July	2017

# Design drawings, specification, and site requirements have been used in the review

with the following conducted remarks:-Item No. Comments Recommended Code Al-manashy Doors Manufacturers is approved to supply metal doors for project. 1 2 Provide updated certificate & test report. 3 Submit a written 2 years guarantee, starting from substantial handover of the project, for all items specified under this Section, signed by manufacturer and the contractor, against all the defects, including bowing, and twisting. Submit 300 mm x 300 mm section sample of door showing internal construction, 4 edge detail and reinforcement for butts for approval. 5 Submit 300 mm x 300 mm L-section sample of frame showing corner detail and 300 mm long samples of removable stop for approval. Submit for fabrication and installation of metal doors and frames. Include details of 6 each frame type, elevations of door design types, conditions at openings, details of construction, location and installation requirements of finish hardware and reinforcements, and details of joints and connections. Show anchorage and details joints and connections, Show anchorage and accessory items. Provide schedule of doors and frames using same reference numbers for details and openings as shown on Drawings. 7 Arrange visit to manufacturer before apply primer paint. 8 Welding must be done by machine. 9 The final powder coating process shall be done according to the engineer selected colors and before the delivery in the site. 10 Submit pre qualification submittal for specialist supplier of doors hardware & accessories for approval.

Name: Eng. Abdallah Saleh

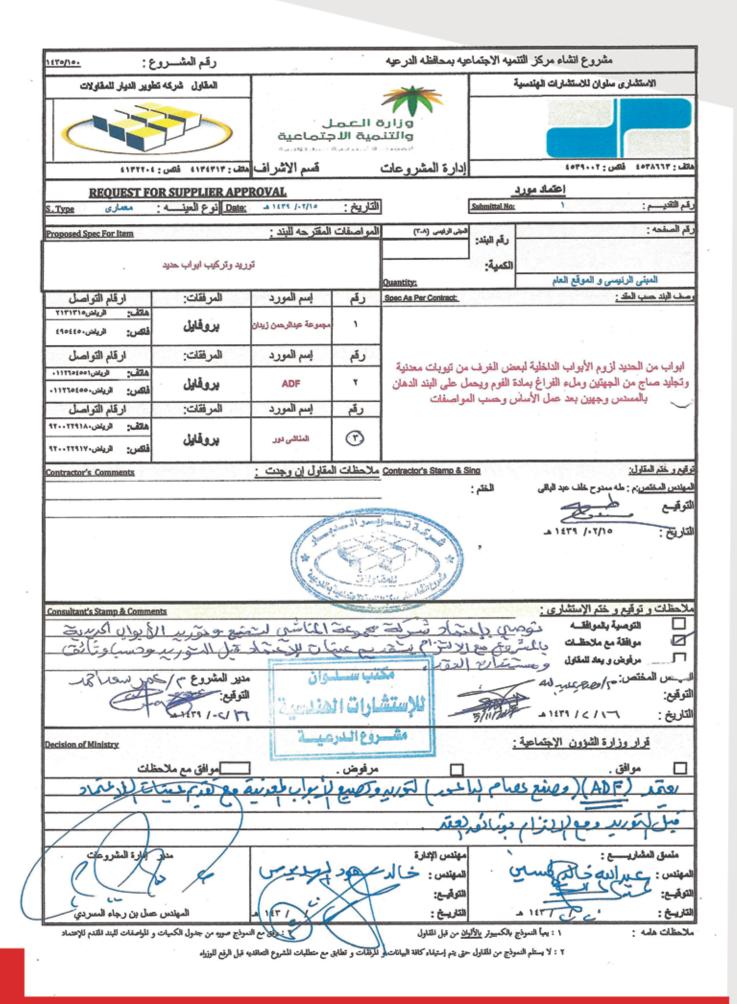
Signature : Jakall

Date: 23th July 2017

F-CS09/A

Kingdom of Saudig (الأناس)         Addition of Saudig (الأناس)           MATERIAL SUBMITTAL FORM / المدرد الذي الرئيس موالد (Saudig) (المدرس موالد) (لمدرس موالد) (المدرس م	Bé	مشروع خلام الحرمين الشريفين لتطوير المقرات الأمنية – المرحلة الثانية ب King Abdullah Ibn Abdulaziz Project For Development of the Security Facilities for MOI KAP-2 (E2)								NKY				
MATERIAL SUBMITTAL FORM (ماله مواد) مدراج طلب تقديم مواد) مدراج على المناجع من المعادي الم			Kingdom of Saudi Arabia						AF	ARCHITECTS & ENGINEERS				
Site Modulu 1.4       General       Site Name /داریا ۲۰۰۰       General       Project No. /٤, μ.Δ. μ. μ.       I/53/35/1.         Bidg, No. /μ.μ. μ.       General       Bidg, Name /μ.μ. μ.       General       Location /Δ5.4       Makinah 8         Tol. μ.       NKY – Architects & Engineers       Submittal No/μ. 3.1       KAP2E2-MT-ARC-GEN-8100-1257       Marcinah         Tol. μ.:       NKY – Architects & Engineers       Submittal No/μ. 3.1       KAP2E2-MT-ARC-GEN-8100-1257         Tol. μ.:       Ahmed Abouelghar (Project Director)       Date & Time /μ.μ. μ.       General       18-Feb-2016         From/s.:       Ahmed Abouelghar (Project Director)       MATERIALS DETAILS / A.L.a. 3.1 μ.μ.ts       19-45         Material Description/Lab.       MATERIALS DETAILS / A.L.a. 3.1 μ.μ.ts       19-45         Material Description/Lab.       METAL DOORS (Fire Rating & Non Fire Rating)       1 - Leafe/Frame (1.5mm Thick/Sor For Internal Doors.       2 - Leafe/Frame (1.5mm Thick/Lamm Thick) For Internal Doors.				TAN	ERIAL S				ج طلب ت	نموذ				
Side, No. (برای از مرابع) مرابع)       General       I. coation / (J.S. Markin ) & Makhah )         Side, No. (برای از مرابع) & J.       Markinah & Markinah	01-11-1-1-1	General	1	_		-					شروع <i>ا</i> . No.	No. /۶ المثروع/ 1/53/35/1		
Image: Image		General	Bldg.	Nam							Location /المكان Maki			
Witheniton/نیاد:       Yavuz Gokhan (Project Director)         Date & Time (نی تکی نی تکی الله حول الله و الل	الى/ە] :	NKY – Arc	chitects	& Er	ngineers	-	Subm	ittal No/التقدير		Madina				
MATERIALS DETAILS if دعله العلمي المعلمي	عناية /Attention													
METAL DOORS (Fire Rating & Non Fire Rating)         1 - Leafe/Frame (1.2mm Thick/1.5mm Thick) For Internal Doors.         2 - Leafe/Frame (1.2mm Thick/2mm Thick) For Internal Doors.	rom/نه: Ahmed Abouelghar (Project Director)									03-M	AR-2016			
Material Description/دامله العلي المعلي					MAT	ERIALS D	ETAILS A	اصيل المادة المقدم	<b>15</b>					
Availability معلی المعدر / المعدر	ndard / Specific pplier/Manufact contact Person/J idress Details/ن ocal Agent/ملک ontact Person / ال	ations منات غ/البورد/ urer : المنو : المنو : المنزول المح	المو اد : المصدّ	1 - I 2 - Dev AL I KAM RIYA	Leafe/Fra Leafe/Fra ision – (0 MANASH) MEL ALAT MEL ALAT MANASH)	ime (1.2n ame (1.5) 8100,0893 7 DOORS 7 IFY 7 DOORS	nm Thick mm Thick 30) (KSA) (KSA)	/1.5mm Thick /2mm Thick	ck) For () For E	Interna	Doors.	CEIVE	0	
Status / التوصول التوصيل       Specified / الموصل المرافقة         ENCLOSURES / المول المحرف ال				_					1 1		64	K	- AS	
ENCLOSURES       المرأةلك،         Catalogue / ويكلخ       ENCLOSURES         Catalogue / ويكلخ       Sample / حليه         Product Verification / موالد من الفتري المعلم ال				_			-			CO1101921				
Catalogue / تخلي تعدير دعين المعدير العن المعادر العن العن العن المعادر العن العن العن العن العن العن العن العن	Status /	التوصيف				Speci	مزصف/ lied			Alternative / 4				
Technical Data Sheet       Sample / دروی       List of Suppliers / موری ای المحدود (الله مردور) معدار (الله مردور) معدار) (الله مردور) معدار (الله مردور) معدار) (الله مردو		La series in				ENCLO	OSURES /	المرفقات						
Contractor's Note (ماللك المقاول) (08 SAMPLES)         Al Manashy Doors (KSA) Subcontractor Already Prequalified Under Submittal KAP2E2-SUB-ARC-GEN-1101-0 Attached.         "ubmitted for/"							Sample /	عرنان			List of St	uppliers	قائمة موردين/	
Al Manashy Doors (KSA) Subcontractor Already Prequalified Under Submittal KAP2E2-SUB-ARC-GEN-1101-0 Attached. "ubmitted for/المدينة التمريخ من التقديم من التقديم المعادية المدونة وشهد المقادل أن الوثقن تتطابق مع مواصفات العند signature/تقديم واصفات العند Signature/تقديم المقادل أن الوثقن تتطابق مع مواصفات العند Signature/تقديم واصفات العند Signature/تقديم مواصفات العند Signature/تقديم مواصفات العند Signature/تقديم مواصفات العند Signature/تقديم المقادل أن الوثقن تتطابق مع مواصفات العند Signature/تقديم المقادل أن الوثقن المقادل أن الوثقن المقادل أن الوثقن المقادل المقاد المقاد المقادل المق	Product Ve	erification /هذا	شهادة ترة			Comp	arison Shee	قائمة مقارنة/ ا			(	Other /J	اخر:	
Material Eng. Ahmed Abouelghar (Project Director)       Contractor's Representative / المعالية المعالية المعالية (Project Director)       Contractor's Representative / المعالية المعالية المعالية (Project Director)       Date/حيات المعالية المعالية المعالية (Project Director)       Contractor's Representative / Stamp         Received by       Received Date       15 NAR 2018       Received Time       Stamp         Received by       Received Date       15 NAR 2018       Received Time       Stamp         Engineer Comments/       :       :       :       .       .         PLE ALST       Roceived Date       :       .       .       .         Material Engineer Comments/       :       :       .       .       .         PLE ALST       Received Date       .       .       .       .       .         Material Engineer Comments/       :       :       .       .       .       .         PLE ALST       Received Date       .       .       .       .       .       .         Material Engineer Signature       .       .       .       .       .       .       .         Material Engineer Signature       .       .       .       .       .       .       .       .       .       .       .	്ubmitted for/പ്ര	الغرض من التق	:	] Ap	ئىاد/proval	للإء		مبة/nformation	للمعلو with cor	ntract sp	Co ecifications	ordina ).	للتتسيق/tion	
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PLE ALT         Refore to comments in Attached and the provided of the provid							e 5 1	5 MAR 2018			me B	ê		
لمد الموافقة لا يتغلب المقترم من مسؤدلوته هسب متطلبات المقد Engineer Signature مدد الموافقة لا يتغلب المقترم من مسؤدلوته هسب متطلبات المقد Hitle ANTHONY MURPHY Date 13.3.2016	Engineer Com	ments/	الإستشار	سيات	: ئوە		E.	Beck	S	11.4	12 :-		1011	
Engineer Signature AMA Ditte ANTHONY MURPHY Date 15.3.2016	PLEASE RE	for to	Col	MM	2T43	IN AT	TACH	Dici Cor	HEN	t sh	all and	MINNER	II.	
Lingheer signature Date 13.3.2016	٨ حسب متطلبات العقد	فاول من مسؤولية	لا تغلى الم	موافقة	This / This	approval d	loes not rel	ieve the contra	ctor of	his resp	onsibility as	per th	e contract.	
بالمطلقة المطلقة التاريخ Head Architect المطلقة بتوقيع الأستشاري	Engineer Signatu توقيع الأستشاري	re d (	WU	N				Architect			B.			
Result: 13/3/16 1413/2016	Result:	Partie	15	1	MS	13/	3/16				Contraction of the second		~~~~	
A- Approved B- Approved as Noted C- Revise & Resubmit D- Rejected يعتد بملاحظات B- Approved التقديم مرفوض يراجع ويعاد التقديم من يعتد بملاحظات		red		в- /							D- Rejec			
مرفوض ورابع ويعد المعديم I- For Information N- No Action T- Terminated N- Not Applicable غير قابل للتطبيق	I- For Info		C		No Action	- /		- Terminated			N-Not A	pplica		

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ALL PRO	اللموذي Prototyp	ch,	Materials Subm	ittal	KAP-01	اسم المشروع Project Name
Contract	1 DCS S		رم فشيم السابق (MAT/ARC/1680-RD	C/POO/SO/MAT/ARC/		Sub الثنيم جديد
16/	KAP1	/2014 : Pre.	تاريخ التقديم السابق Sub. Date	21-May-15	: Sub. Date دريخ شمير	ى مەدە ئىتىم ubmittal
	8486		√ اعتد Approval	Comments		Purpose غلية التقديم التفصص
0	Other	Elec لغرى جسابات ation		لکي STR انگييف Certificate		Dept. التغمص المرقتك Attach.
14	49 RIYAOM				Material / Equipment	12-an/15-
App Status	مرجع الشات Measurements Ref	مراسفات قطاع Section	الىمىنى / البورد Factory / Supplier	المحر Source	اسم و رقم و وصف العانة Material Name, No, & Descrip	ntion Ser
B		8510	Almanashy/ KSA	Almanashy/ KSA	Security Frame + Achor bolt: Frame Profile: - Double Rabbet Frame Sheet Material Thikness: 3.0mm Finish: Primer	1
B		8510	Almanashy/ KSA	Almanashy/ KSA	Security Panel Door: (Sheet Material Thickn Core Material:RockWool - Finish: Primer) thk	siffners: 1.5m
Contra Project M	Manager	مدير المشروع /	Contractor warrant that the submiss cont	ion is fully committed ract, except as mentio		ملاحظات واستثناءات المقاول: Contractor Comments
-6	Moetaz Ibrahir	n : Name لاسم الترقيع Signature	Sample of Frame Door I	eaf + ancho bolt + sma	all Frame with Anchor bolt preparation+ 4 Ha	ard Copy
		التريخ 1/5/2015				
					Consultant Recommendations	توصيك الاستشاري
		Approval of		tor of its contractual o	لمواد لا يعفي المقاول من التزاماته التعاقدية bligations	اعتماد ا
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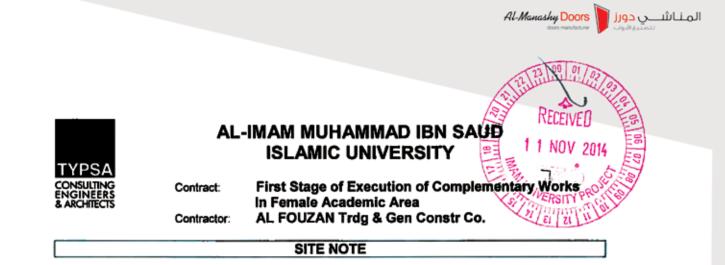


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بسم الله الرحمن الرحيم ميناء ضيا الهملكة العربية السعودية رقم الصادر: ١٤٩١٢/٤٣/٢٢ الهؤسسة العاهة للهوانئ تاريخه : ١٤٣٨/٠٦/٢٩ المرفقات : بدون هيخاء ضبا  $(\Gamma\Gamma/\Gamma^{m} \cdot)$ صورة مع التحية لسعادة مدير عام إدارة المشاريع بالجماز الرئيس للحترم السادة /عثمان السيف للإستشارات الهندسية. استشارى مشروع إنشاء وحدات سكنية ومهاجع بميناء ضبا ص ب ٨٨٥٣٠ الرياض ١١٦٧٢ فاكس/١١/٤١٦٣٠٥٧/ فاكس الموضوع : اعتماد مصنع لتوريد الابواب المعدنية بمشروع إنشاء وحدات سكنية ومهاجع بميناء ضبا . السلام عليكم ورحمة الله وبركاته . . أشير إلى خطابكم رقم ٧٣٩/ ١٧ وتاريخ ١٤٣٨/٠٦/٢٧ هـ وبخصوص اعتماد مصنع لتوريد الابواب العدنية بمشروع انشاء وحدات سكنية ومهاجع بميناء ضبا .. وبتقديم المقاول كتالوجات لعدد ثلاثة مصانع للاعتماد وهي : ۱- مصنع المناشى دورز لتصنيع الابواب ۲- مصنع تحت الشمس للاغمال العدنية . ۳- مصنع المكاتب للابواب المعدنية . نود الافادة بانه بعد مراجعة الكتالوجات لا مانع لدينا من اعتماد مصنع المناشي دورز لتصنيع الابواب كاختيار اول، ومصنع تحت الشمس للابواب المعدنية كمورد ثاني في حالة تخلف الاول عن التوريد .. وعلى المقاول الالتزام بما يلى قبل التوريد : ١- تقديم العينات والمخططات التنفيذية وتفاصيل الابواب قبل التوريد . ٢- التقيد بالمواصفات وبنود التعاقد . e. 1º مع أطيب تحياتي ،، مدير عام ميناء ضبا 🔁 (يمن بن احمد الجهني



To: The Project Manager.

Ref. GC7/G-089/14 15/01/1436 H Date: 08/11/2014 G

# SUBJECT: Material Transmittal: 09.03.02/1B1 Steel doors for building 419.

With reference to your letter Ref. M-A-7-101 dated 05/12/1435H (29/09/2014G), please find hereby enclosed the transmittals in original of the subject material with our action.

SL		Material		Transm	ittal	Manuf	act/Supplier	Approved previously	BOQ item /New Item	TYPSA Action		
1	fire-rameta Doors with 1 2.0m galva sheet skins Insula rockw polyu Fram steel wide Finisi	e: Galvanizo with 250mm maximum. h: One coat nhibitive epo	al m ed n	09.03.02	/1B1	Al Mar Riyadi	ashy Doors 1.	Νο	New Item	A		
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G2014'GC7-G-069-14-MT-Steel door in 419 dec



	Third			NEW SUBMITTAL	x	DATE:	05-12-1435 H					
	lementar				UU			RESUBMITTAL			29-09-2014 0	
y work Fema	le	CONTRACTOR: AI-FOUZAN	CONT				TERIAL INFO	RMATION		TRANSMITTAL NO.: 09.03.02 /1B1		
Students Trading & Acad: Area General Cont Co.			First & Third Stages of Complementary work of Female Students Acad. Area			CAT.		SAMPLE			Sheet 1 of 5	
						TEST CERT.		CALCULATIONS				
NO.	ITEM		UNIT	UNIT NO. IN B.O.Q.	ESTIMATED QUANTITY	SPEC. NO.	ONTRACT DOC			MFR	/ SUPPLIER	
A	rated Ho	d & Non Fire- llow Metal Door	No		As per doors	9.3	419-A-545	DESC. DET. NO.		Manufactur Al Manashy	Doors	
1)	1.2mm & galvanize	5mm thk with 2.0 mm thk ed steel sheet doors s on both side.			schedule		419-A-570			P.O Box: 71021 Riyadh – 11587 KSA. Tel: 01 222 2544		
2)	Rockwoo foam	n: Mineral I / Polyurethane	]							Fax: 01 222	2744	
3)		Salvanized steel with vide maximum.										
4)		One coat of rust epoxy primer.										
CONT	RACTOR	REMARKS:		TIFY THAT THE A				CONTRACTOR	SIG	NATURE		
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# KING FAISAL UNIVERSITY CAMPUS DEPARTMENT

جامعة الملك فيصل ادارة المدينة الجامعة بالاصباء

			Material Approv	val Req	uest	مواد	رة اعتماد	استما	in the second		Case!	ALC: NO
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			National Research									
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	o: Campus		K.F. University		$\checkmark$							
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OTHER	Made in:			KSA			6	بلد المنشأ				
	Ē	لائحة الشركات	جول مطابقة اليو اصغات	نشرة فنية	عينة مواد	الكميات	د جدول	المناقصة	مخططات	الخرى		مرفقات:
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Note :												
	*This review d	oes not relieve	the contractor of his resp	onsibilitie	s under the	terms of th	e contract n	or autho	orize addit	ional compe	insatio	

المناشب دورز 📔 Al-Manashy Doors

المملكخ للعربتين السموديتين Kingdom Of Saudi Arabia ذرادة التعالي للغالئ **Ministry Of Higher Education** جامعة الحدود الشمالية Northern Border University (.01) (054)جامعة الحذود الشعالية NORTHERN BORDER UNIVERSITY المحترمين السادة / شركة الخدمات الاستشارية السعودية المحترم عناية م / شريف أحمد فواد المىلام عليكم ورحمة الله وبركاته المشروع :- مبنى السنة التحضيرية الموضوع :- بخصوص إعتماد شركات تصنيع وتوريد أبواب معننية بالإشارة لخطابكم رقم ١٧/١٥٢٦/٣٧٢ بتاريخ ١٤٣٨/٧/١٩ هـ الموافق ٢٠١٧/٤/١٦ بشأن إعتماد شركات تصنيع وتوريد أبواب معدنية نفيدكم بأنه لا مانع من الموافقة طبقاً لتوصياتكم من الاعتماد طبقاً للأتى : ١ .. مصنع الأبواب المعمارية ( شركة دقة للصناعات الهندسية ) ( مورد أول ) . ٢ -- شركة المناشى دورز للتجارة والصناعة والمقاولات ( مورد ثاني ) . (مورد ئالٹ). ٣- شركة الدريس للصناعة والتجارة وناك مع مراعاة التالي : المسبجب تقديم عينات للاعتماد قبل التوريد يراعي فيها تحديد رقم النموذج للباب المراد اعتماد عينه له طبقاً لجداول الكميات والرسومات الأساسية للمشروع ( جداول الأبواب ) ومستوفاه المواصفات الفنية وعليها توقيع وختم المقاول والاستشاري . على المقاول تقديم عينات من كافة أنواع الكماليات والخردوات والمفصلات والمتابض in the set والأفعان والتي تكون من أجود النوعيات العالمية وفقأ للمواصفات وجداول الكميات مع نقديم شهادة منشا توكد صناعتها بالبلد الأم قبل الإعتماد. جـ - جميع الأبواب المقاومة للحريق يجب أن يكون عليها ختم لكل باب بما يفيد مقاومته للحريق موضع عليها مدة التحمل للحريق وكذلك الخردوات الخاصة بالباب . :. - يراعى الإلتزام بجداول الكميات والرسومات والمواصفات الفنية للمشروع وشروط التعاقد وتقبلوا خالص تحياتي ...... المشرف العام تحكم إدارة المدينة الجامعية ر بن ناصر الجديد Date : 2 281/11 Ì Ref Sig MANY Sit Encl: المشفوعات

# Letter of Accreditation

D6B

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This is to certify that

AL MANASHY FACTORY FOR DO ORS

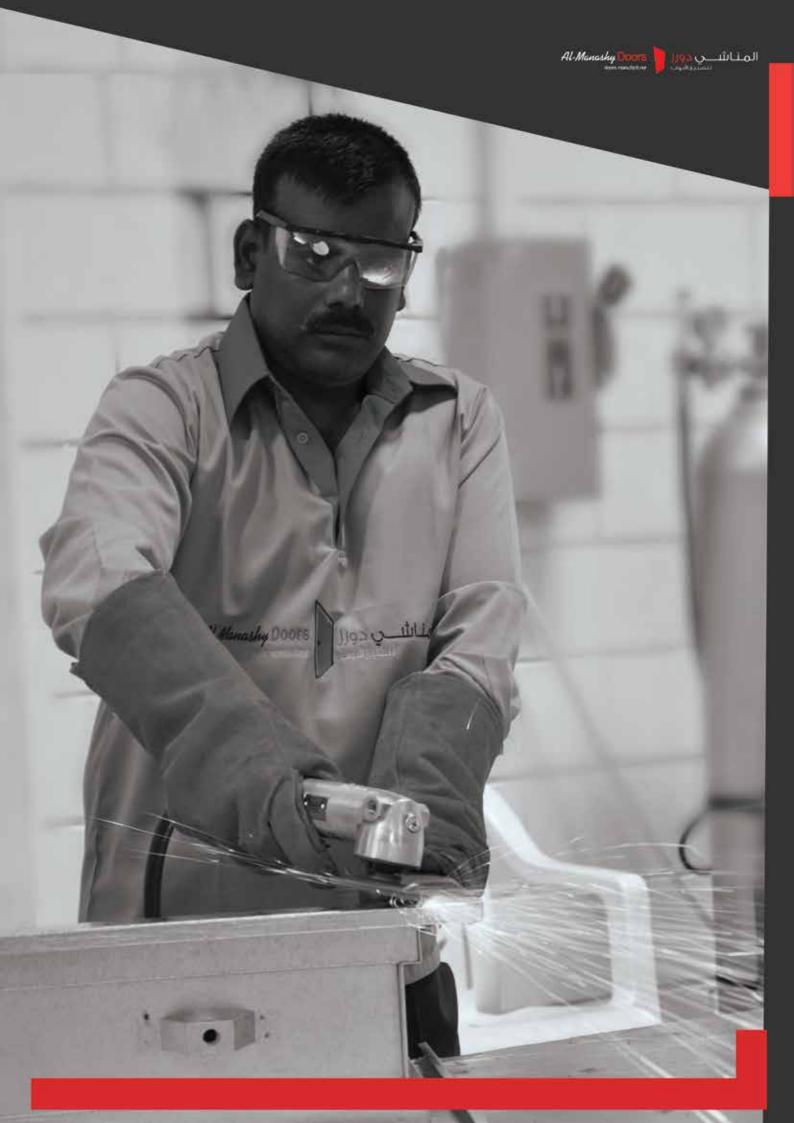
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March 18, 2015





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## Facilities & Capabilities

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# **3** Facilities & Capabilities

**Manufacturing Plants** 

Warehouses

Machineries

Frame Production Line

Fire Rated Panels Production Line

**Non-Fire Rated Panels Production Line** 

**Research & Development** 

**Quality Control** 

**Engineering Department** 

Material Specification and Suppliers





## **Manufacturing Plants**

Almanashy Steel Doors factory had been established over ten thousand square meters within a partnership with the oldest American factory in door industry. The factory occupied with the latest fabrication CNC technology which stand for «Computer Numerical Control» which known by fully control the machine by central PC unit with engineering department which responsible for supporting the machines with CAD designs and CAM programs without minimal interfering from the operator as his task is only recall the program and material feeding. Depending in this kind of technology we achieve the true meaning of consistent production by mean of minimal tolerance range and for same design fabrication you almost have identical products.



Material

Warehouse

## Chemical Warehouse

Highly functional fridge cooling system which required for the reactive chemical products which affect by the ambien

temperature as paint, glue and injection chemicals, assure certain degree level to keep some product at the required temperature by the manufacturers and as per the technical data sheets, by the means of assuring non affec ed material properties and prevent any changes in the tecnical specification leads to defects on the application in the short term or problems for the client by the long run.

> Finish Good Product Warehouse

Massive space can handle 500 door units «average sizes», which occupied with special racks and shelves for the final paint product assuring good care of the material surface to provide the client the best quality needed without the chances of any accidents from misar-.ranged stock techniques

Contain all the material required for the fabrication process with stock level sufficient for three month continuous production to assur steady level of production and decrease the risk of relating the product cost on the client with the variable cost of material.

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## Machineries

### Injection Machine

American/Italian High pressure foam injection with flow rate 24KG/min and ability to inject with pressure 32Kg/m3

#### DE coiler machine

American DE coiler straightener & servo feeder heavy duty

#### Injection Rack

American Flat and level surface.

## Chemical treatment line

Singapore Compensate all the Zinc losses within the fabrication process as welding and grinding.

## Heating and Drying line

Singapore

Evaporate the excess fluid from the chemical treatment process and prepare the metal surface with the proper temperature from receiving the paint particles.

#### **Convection Oven**

Singapore Achieve the most suitable temperature degree for each paint specification , maintaining strong foundation painting layer.

## Electrostatic powder coat line

American Final pant application in plant.

#### Eccentric press

Pakistani Thick Material Punching machine, 3mm above.

#### **Finishing Machines**

American Galvanized grinding and finishing/Stainless Steel Polishing

#### Punch Press

American

Self-independent system to work without operator assuring duplicate pattern production.

#### Press Brakes

#### American

Occupied with full tool library to facilitate the fabrication of highly sharp bends and very small bending profile with very difficult flanges.

## Shear Blade Machine

#### American

Hardness material blade and tonnage capacity able to shear up to 6mm.

#### Spot Welding Machine

#### American

Clean wilding with minimal surface defection.

## Projection welding Machine

#### American

High Amperage with ability to melt internal point and weld areas cannot reach by traditional welding techniques.

#### MIG welding Machine

#### Germany

High strength welding techniques able to assemble thick material plates with full pene-tration.

## TIG welding Machine

#### Germany

Stainless and the compatible application which required finish surface without paste or chemicals.

#### **Roll Forming Machine**

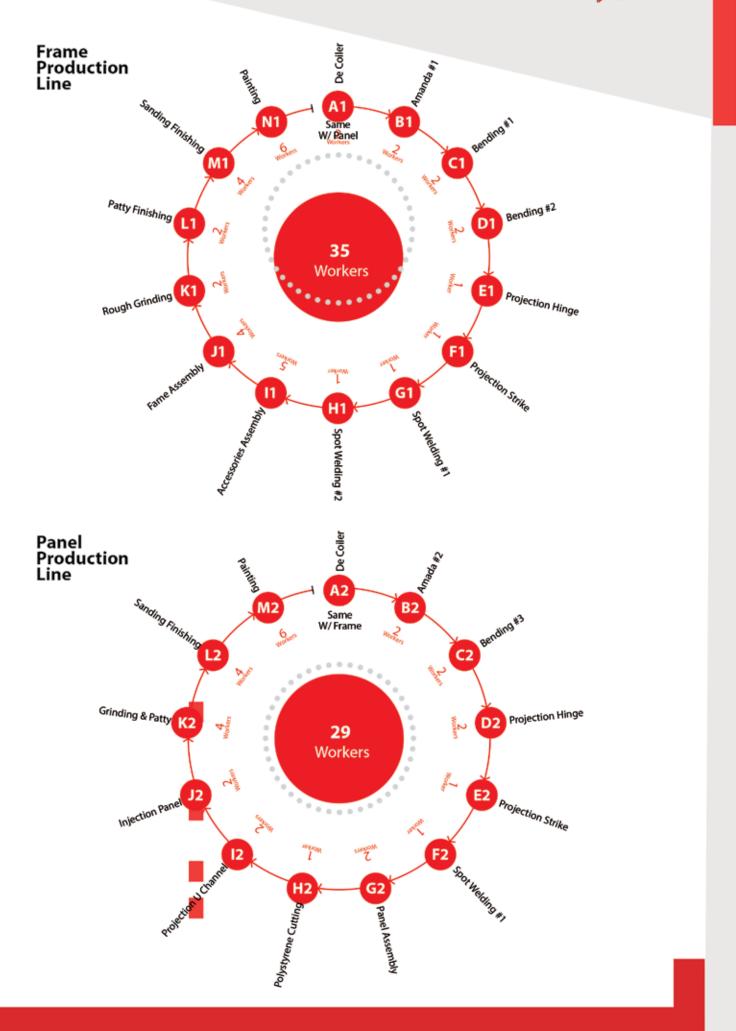
Germany

Consistent and Identical production Products profile.

#### Epoxy Painting Machine (Primer coat/Final coat)

Automatic paint booth occupied by robot arm for steady paint layer membrane.

Al-Manashy Doors المناشب دورز 🔰





## **Frame Production Line**

With Productivity 160 Frame / 8 hours

De-coiler Material Preparation



## Shear Blade Machine



## **Punch Press Machine**







Welding Assembly



Frames powder Coat Painting Line



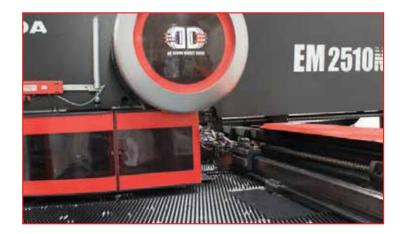
QC Zone Frame Line



## Punch Press Machine With Automatic Stocking Rack



## **Punch Press Machine**



## Chemical Treatment Preparation Line





## STYRO Foam Glue Machine







## Panel Powder Coating Painting Line

## **Non-Fire Rated Panels Production Line**





Powder Coat Painting Line







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## **Research & Development**

Research and development (R&D) department is responsible for innovations in design, products, and style. This department is responsible for creating innovative new products to keep companies a step ahead of the competition. Many companies also rely on the R&D department to improve existing consumer products, and to explore new ways of producing them.

Companies thrive and succeed by creating innovative products, as well as by increasing company profit and utilizing cost-efficient methods. A research and development department is primarily responsible for ensuring that these goals are met. This is an especially important function in the fields of manufacturing and pharmaceuticals, but can be applied to virtually any industry.

Often, research and development works closely with the marketing department. Marketing studies consumer trends by surveying and researching consumer demands, purchasing methods, product sales, and the existence and development of technology across the relevant market. The marketing department gathers all the data, and makes this information available to the R&D department, which will take action in response to the findings and proceed to keep the company on top of current market needs.

Consumer demands often change very quickly, and the research and development department must be alert and adapt to these market fluctuations accordingly. Companies often allocate millions of dollars to research and development so that they can continually modify and update their products to preserve a brand>s position within the market. Leading products — whether a drug, or a laundry detergent, or anything else — usually will not remain in the number one market position forever without some type of improvement and advancement.

## **Quality Control**

Quality control personnel sample the company's products to ensure the integrity and quality of the manufactured items. Tests and handson inspections are performed before, during and after production to ascertain that products are free from aws and are of the highest quality. When quality standards are not met, quality managers instruct workers on how to address the issues or recommend dierent production techniques to senior management.

In the service industry, quality control workers inspect customer service protocols and ensure that employees are performing their jobs correctly and following company procedures and safety rules. Quality control in the door industry involves re rating analysis to guarantee door safety and compliance with government standards and taste tests to ensure quality.

Almanashy Steel doors fabricated as per American & European standards while following several standard as per the client request. QC department monitor the production in the whole procedure preventing the transfer of defected product one stop longer after the defect take place.

Almanashy approved as fabricator as per a lot of standard whiles the quality assure that the client aspects fully translated as fabrication aspects and products specication. Moreover, Quality control department committed with











## **Engineering Department**

Basically this is the central nervous system of the factory by the means that all the fabrication techniques, machine setups and production plan come from the engineering department. the engineering department keep their hand on the central computer which feed the machines with CAD designs and CAM programs by the means that the operator is simply recall the program while the output totally depend on one input which establish the meaning of consistent production and uniform productivity as per same machine setup.

Engineering department to select the proper door for the client usage and for various wall opening criteria.

Almanashy Steel Doors require any of the followings as initial procedure for fabrication:

The Client Submit full details technical data about the door required include Full door Schedule with sizes, door handling, the hard ware used and the paint if required. Optional strategy by which the client submits the floor plans and some required technical data for Almanashy engineering department to decide the proper door for every wall opening.

## Fabrication

# Material Specification & Suppliers

Almanashy Steel doors honored to offer the best quality door by achieve the combination of high quality material specification offered by well known suppliers in the market.

- 1. Galvanized Steel «Cold roll Steel» with Hot dipped zinc coating layer 0.9 oz/sq ft.
- 2. Epoxy Zinc phosphate paint which has a certain amount of zinc specified to compensate any zinc loss from the steel surface after processing.
- 3. Rockwool / Fiber Glass insulation with several density ranges depending on the application, supply a relatively high thermal insulation and a very good ability for sound transition control.
- 4. Blue Guard polyurethane.
- 5. Honey Comb Cartoon (Relatively small weight insulation)





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Services & Products B



## 4 Services & Products

**Doors & Frames Manufacturing & Supplying** 

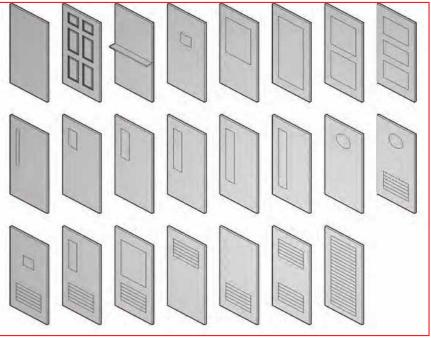
**Door Fabrication Technical Standards** 

**Doors Installation & Maintenance** 

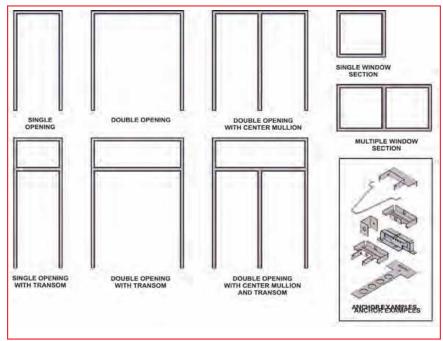
Architectural Door Hardwar Supplying



## Doors & Frames Manufacturing & Supplying



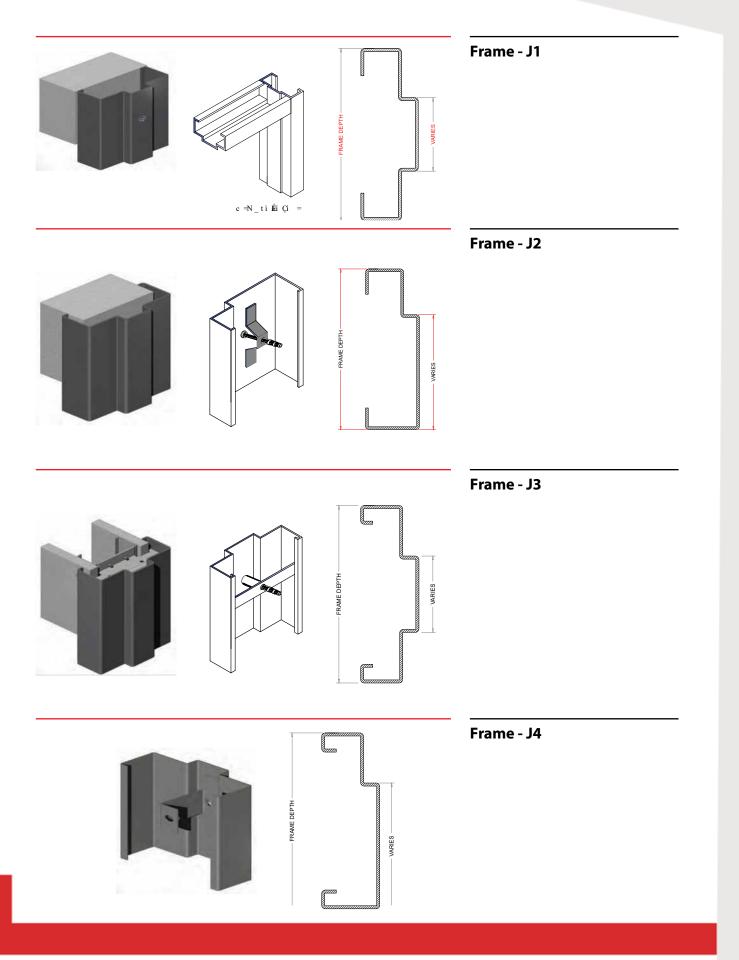
### Hollow Metal Doors



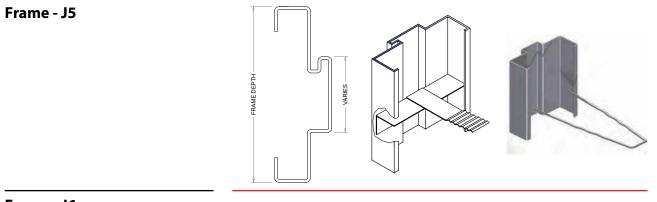
Hollow Metal Frame



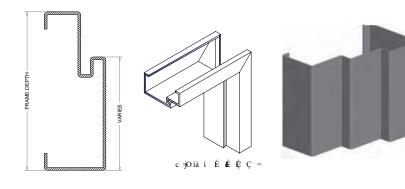
## Frames



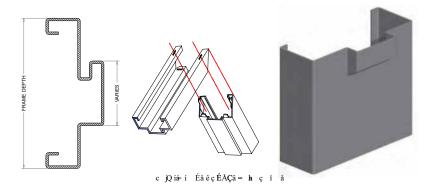




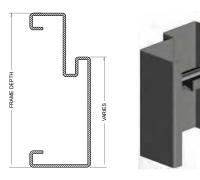
## Frame - J6



## Frame - J7

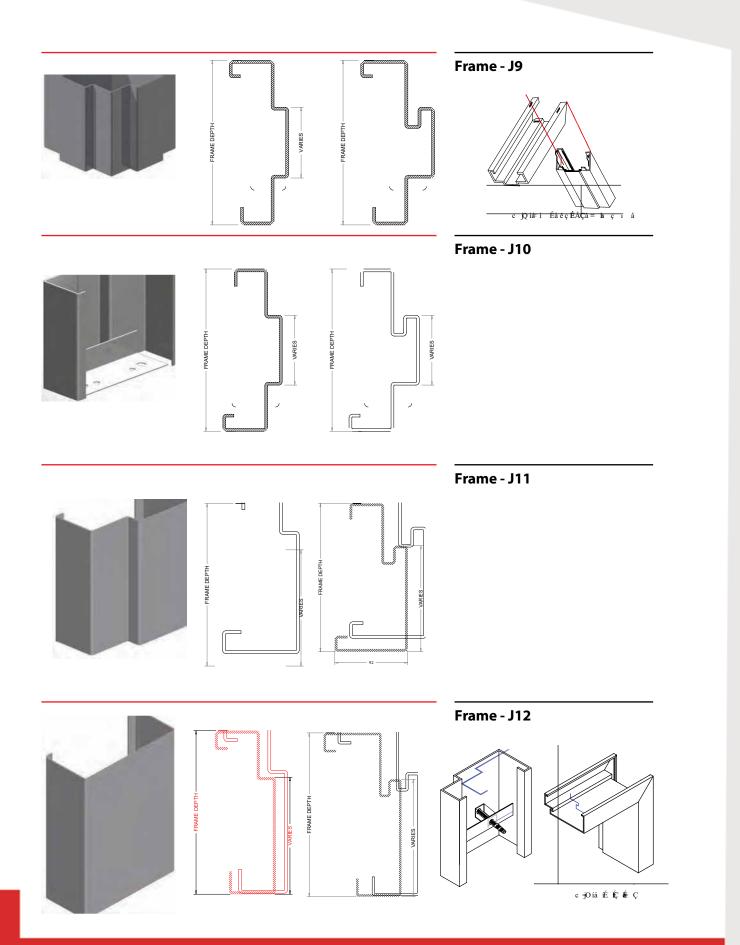




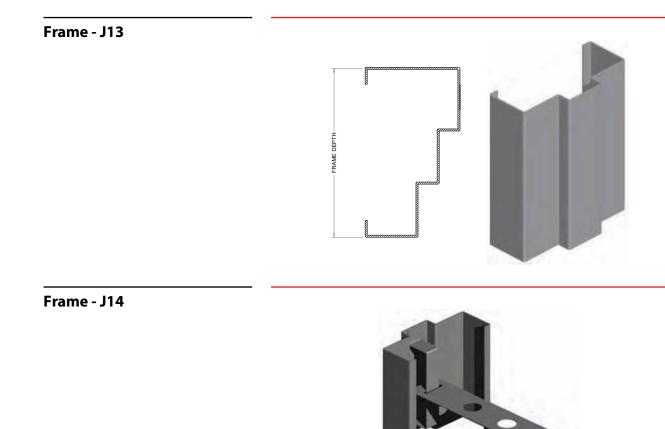




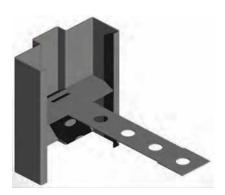






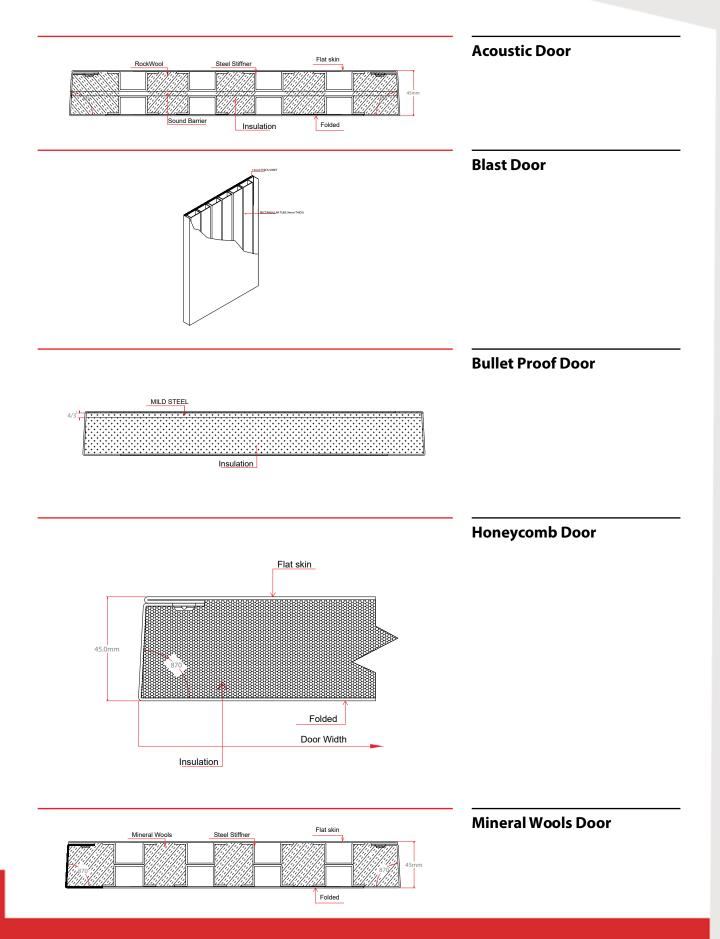


Frame - J15



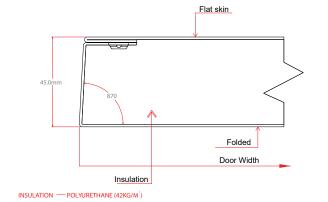


## **Panels**

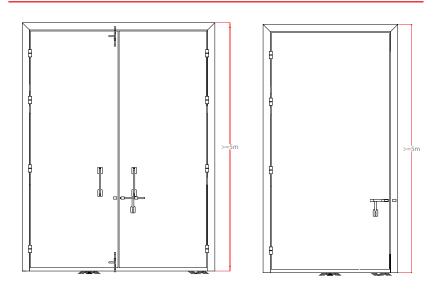




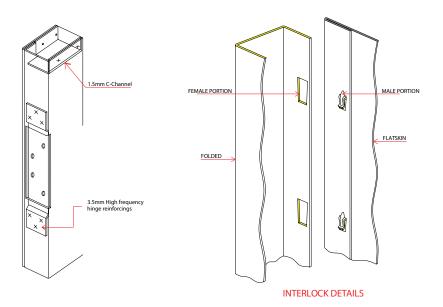
## Non-Fire Rated Door



## **Over Size Door**

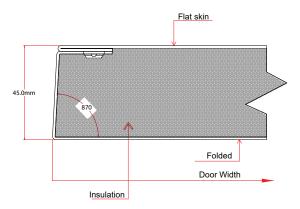


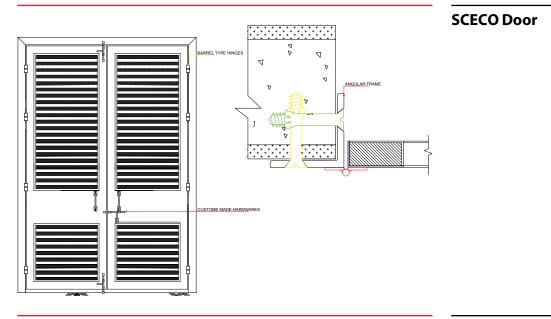
## **Panel Details**

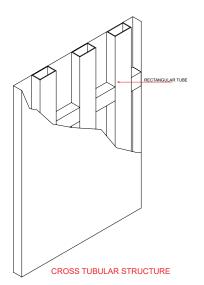


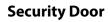












## Door Fabrication Technical Standards

Almanashy Door built with respect to most known fabrication standards and references as following:

## UL I • B

UL I.B test standard - Neutral pressure plane above the door.

• Ambient air is drawn into the test chamber around the entire door (top and bottom).

• Hot air and gasses are released by a damper.

• Historically, the fire door test method placed the neutral pressure plane at the top of the door, regardless of its overall height. Everything below the top of the door was under negative pressure, and any gasses or products of combustion were drawn into the test environment or furnace.

• With positive pressure testing, the neutral pressure plane is lowered to a standard & inches above the finished floor. So, regardless of door height, the neutral pressure axis is defined from the floor upward. The effect of this change places a very gentle amount of pressure against the remaining portion of the assembly, which may push smoke, hot gasses and any potential flames around the perimeter of the door assembly.

• To envision the difference, imagine a closed door with a fan pulling the air away from the opening on the fire-side of the door. Now, reverse the fan so it blows against the door. In either case, the pressure isn>t that great and certainly will not affect the structural integrity of locks, latches, hinges or frame anchors. However, with the fan blowing against the door, the products of combustion are not drawn away as they were when the fan was pulling air away from the door. If the face of a wood door is burning, the effect of positive pressure is to enhance combustion somewhat, and to drive the smoke, gasses and possibly flames through any leakage at the door perimeter. Under the previous test, these products of combustion were carried away. • Damper added to control a neutral pressure plane at 40 inches above the finished floor.

• Ambient air is drawn in from under the door.

• Hot air and gases are forced out at the top of the door.

• No flame detected on non-fire side of door for more than 10s.

• To understand how doors are now tested, let's go over the old test again. Air was allowed to enter the room around the bottom and the top of the door. All the positive pressure and heat that were built up in the room were exhausted out of the top of the room. This is like opening the damper all the way on your fireplace at home. No smoke or pressure comes into the room, all the smoke and gas goes out the chimney.

• So, if you think of a closer (or a top latch of a vertical rod) mounted on the top of the door, it is cooler than the other hardware located below it because air is coming into the room from the outside and cooling off the closer or latch. The neutral pressure plane, the plane of separation between the positive and the negative pressure, is above the door. Thus, none of the hardware was affected by the pressure built up above the door. The hardware was only exposed to the heat from the furnace jets, not from any pressure built up in the furnace.

• In the new test, a damper is added at the bottom of the furnace. Air is still allowed to enter the fire at the bottom of the door, by the threshold. While no air is allowed to enter at the top gap of the door, some air is still allowed to exhaust by a damper. This is like your fireplace at home with the damper opened about half way. Some smoke goes out the chimney, but a lot of smoke and pressure comes back into the room Similar to real fire conditions, this is how the new test works.

• The neutral pressure plane is established at 40 inches above the finished floor. This is regulated by the amount of air that is released and entered into the furnace through the dampers.

• Actual fire scenario at the early stage of a fire, smoke and pressure forms at the top of the room filling approximately 1/3 of the total space. Air to fuel the fire is coming in from the bottom and top of the door. Positive pressure builds up forming a neutral pressure plane. This is the area between the positive pressure above the door and the neutral pressure below the door.

• Five minutes into the fire, the fire is no longer confined to a small area. The smoke, pressure and heat fill the space at about 40 inches above the finished floor. Air is still coming into the room from under the door, but air is no longer coming in from the top of the door. The pressure has built up greatly, and with nowhere else to go, it has to escape through the gap at the top of the door between the door and frame.

• In the old test, the neutral pressure plane was leveled off above the door, and none of the hardware was affected. With the new test, this neutral plane is lowered to 40 inches above the finished floor, and any hardware located above 40 inches is af fected. And, while some of the pressure and smoke will go out a window or ceiling tile, most will go out the top of the door. This is why hardware located 40 inches above the finished floor is now more accurately affected by the new test.

## UL I • B

UL I.B test standard - Neutral pressure plane above the door.



SDI 106-99	• Recommended Standard Door Type Nomenclature, This document contains standard door type nomenclature ranging from flush (Type F) to Dutch doors (Type D). The use of the standard nomenclature contained in the document will greatly simplify architectural drawing takeoff process and will do much to avoid confusion and errors which result from misinterpretation of these details.
SDI 108-04	<ul> <li>Recommended Selection Guide For Standard Steel Doors</li> <li>This document was developed to establish guide criteria for the selection and usage of standard steel doors in such building types as apartment, dormitory, hotel/motel, hospital/nursing home, industrial, office and school.</li> </ul>
SDI 109-04	<ul> <li>Hardware For Standard Steel Doors And Frames</li> <li>This document contains a listing of hardware from various hardware manufacturers that is compatible for use on standard steel doors and frames. It covers various types of locks, exit devices, closers, holders, hinges, roller latches, flush bolts, and electric strikes.</li> </ul>
SDI 110-84 (R2000)	<ul> <li>Standard Steel Doors And Frames For Modular Masonry Construction</li> <li>This document contains information in respect to, as the title indicates the installation of standard steel doors and frames in modular masonry construction. The basic module covered in the document as developed by the industry is 4"</li> </ul>
SDI 111-00	<ul> <li>Recommended Selection and Usage Guide for Standard Steel</li> <li>Doors, Frames and Accessories (A through H)</li> </ul>
SDI 111-A	<ul> <li>Recommended Standard Steel Door Frame Details</li> <li>Covers recommended steel door frame details as they are affected by common wall conditions.</li> </ul>
SDI 111-B	<ul> <li>Recommended Standard Details For Dutch Doors</li> <li>Standard dimensions for Dutch doors.</li> </ul>
SDI 111-C	<ul> <li>Recommended Louver Details For Standard Steel Doors</li> <li>This document discusses, explains and details a variety of louver designs and size available for standard steel doors.</li> </ul>



• Recommended Door, Frame and Hardware Schedule for Standard Steel Doors and Frames Contains a suggested door, frame and hardware schedule form and defines "handing".	SDI 111-D
• Recommended Guidelines for the Use of Gasketing and Thresholds for Standard Steel Doors and Frames Contains details which represent the recommendations of the SDI in respect to weather-stripping of standard steel doors and frames.	SDI 111-E
• Recommended Existing Wall Anchors for Standard Steel Doors and Frames A guide for architects to aid them in recognizing available options to the traditional sub buck detail which has been widely used in the past It illustrates anchoring systems which are available in regular and labeled frames.	SDI 111-F
• Recommended Standard Preparation for Double Type (Interconnected) Locks on Standard Steel Doors and Frames Dimensions for standard door and frame preparation for double type (interconnected) locks.	SDI 111-G
<ul> <li>High Frequency Hinge Preparations For Frames Specifications for steel frames used in extremely high frequency or</li> <li>High use areas which need to be supplied with additional reinforcing to eliminate potential door sag.</li> </ul>	SDI 111-H
• Zinc-Coated (Galvanized/Gal annealed) Standard Steel Doors & Frames this document provides information regarding the galvanized sheet used in standard steel door & frame construction when a requirement for galvanized doors & frames is specified.	SDI 112-97
<ul> <li>Standard Practice for Determining the Steady State Thermal Transmittance of Steel Door and Frame Assemblies.</li> <li>This document establishes a minimum standard and a method of test for thermal effectiveness of steel door and frame assemblies under circumstances that might reasonably be considered normal field applications and conditions.</li> </ul>	SDI 113-01
<ul> <li>Manufacturing Tolerances Standard Steel Doors and Frames.</li> <li>This document is intended to furnish users and prospective users of standard steel doors and frames with practical information regarding mortise and manufacturing tolerances for both doors and frames.</li> </ul>	SDI 117-00

SDI 111-C	<ul> <li>Basic Fire Door Requirements</li> <li>This document contains rules and other information in a condense simplified manner in respect to code requirements for the design and use of fire doors.</li> </ul>
SDI 122-99	<ul> <li>Installation and Troubleshooting Guide for Standard Steel Doors and Frames.</li> <li>This document covers field installation problems most commonly experienced with standard steel door and frame installations. Most problems encountered are because of inappropriate application of the products and/or improper installation.</li> </ul>
SDI 124-98	<ul> <li>Maintenance of Standard Steel Doors and Frames.</li> <li>This document is intended to serve as a general outline of maintenance activities needed for hollow metal doors and frames.</li> </ul>
<b>SDI 127 Series</b> Industry Alerts (A through J)	
SDI 127A-99	<ul> <li>End Closure Location.</li> <li>Industry Alerts - End Closure.</li> </ul>
SDI 127A-99	<ul> <li>Door Edge Cutouts.</li> <li>Industry Alerts - Door Edge Cutouts.</li> </ul>
SDI 127B-99	<ul> <li>Door Edge Cutouts.</li> <li>Industry Alerts - Door Edge Cutouts.</li> </ul>
SDI 127C-99	<ul><li>Frame Cutout Limits.</li><li>Industry Alerts - Frame Cutout Limits.</li></ul>
SDI 127D-99	<ul> <li>Electric Strikes in Stud Walls.</li> <li>Industry Alerts - Electric Strikes in Stud Walls.</li> </ul>
SDI 127F-02	<ul> <li>Butted Frames Rough Opening Sizes.</li> <li>Industry Alerts - Butted Frames Rough Opening Sizes.</li> </ul>
SDI 127G-02	• Environmental Considerations Relating To Factory Painted Steel Doors And Frames Industry Alerts - Environmental Considerations Relating to Factory Painted Steel Doors and Frames.
SDI 127H-02	<ul><li>Water Penetration.</li><li>Industry Alerts - Water Penetration.</li></ul>

<ul> <li>Grouting Frames in Drywall.</li> <li>Industry Alerts - Grouting Frames in Drywall.</li> </ul>	SDI 127I-04
<ul> <li>Bituminous Back-Coating of Frames.</li> <li>Industry Alerts - Bituminous Back-Coating of Frames.</li> </ul>	SDI 127J-04
<ul> <li>Guidelines for Acoustical Performance of Standard Steel Doors and Frames.</li> <li>This document shall provide guidelines for the specifying, designing, installing, and adjusting of standard steel doors and frames in Sound Control applications.</li> </ul>	SDI 128-97
<ul> <li>Hinge And Strike Spacing</li> <li>A reference of standard locations used in the manufacture of steel door and frames by SDI member companies for a variety of door sizes</li> </ul>	SDI 129-04
<ul> <li>Electronic Hinge Preparations</li> <li>Practical information regarding an acceptable method for preparing frames for 4-1/2" electric hinges. This document will allow frame manufacturers to provide frames prior to having knowledge of the specific electric hinge being used.</li> </ul>	SDI 130-05
<ul> <li>Accelerated Physical Endurance Test Procedure for Steel Doors, Frames and Frame Anchors</li> <li>This test procedure provides manufacturers with a method of quickly testing the performance of doors.</li> <li>Drywall Slip-On Frames This document illustrates step by step how to install drywall frames in less than 10 minutes. It also lists the many advantages of drywall slip-on frames.</li> </ul>	SDI 131-04
• Introduction to Custom Hollow Metal, It is the purpose of this manual to provide authoritative and unbiased technical information regarding the manufacture, design and use of custom hollow metal doors and frames.	НММА 800-96
• Glossary of Terms for Hollow Metal Doors and Frames, Defines commonly used terms in connection with Hollow Metal Work as they specifically apply to hollow metal doors and frames. These terms may be defined differently by other industries.	ANSI/NAAMM HMMA 801-05
• Manufacturing of Hollow Metal Doors and Frames, This publication details the types of steel materials used and fabrication processes, including shearing, blanking, brake forming, limitations of break forming, welding and painting.	HMMA 802-07

HMMA 803-97	<ul> <li>Steel Tables</li> <li>Values of minimum steel thicknesses taken from the Underwriters Laboratories, Inc. publication for gage number and equivalent thick- ness are shown. ASTM and ANSI do not list gage numbers in their standards which was the standard of referral prior to 1970.</li> </ul>
HMMA 810-87	<ul> <li>Hollow Metal Doors</li> <li>This document reviews basic sizes, types, designs and</li> </ul>
HMMA 820-87	<ul> <li>Steel Tables</li> <li>Values of minimum steel thicknesses taken from the Underwriters Laboratories, Inc. publication for gage number and equivalent thick- ness are shown. ASTM and ANSI do not list gage numbers in their standards which was the standard of referral prior to 1970.</li> </ul>
HMMA 830-02	<ul> <li>Hollow Metal Frames</li> <li>This document details various elevation types, profiles, assembly and anchoring of Knock-Down (KD) and welded 3-sided and multiple opening hollow metal frames.</li> </ul>
HMMA 831-97	<ul> <li>Hardware Selection for Hollow Metal Doors and Frames.</li> <li>This publication is intended to acquaint the reader with commonly used door hardware that provides both aesthetic appeal and durable function.</li> </ul>
НММА 840-99	<ul> <li>Hardware Locations for Hollow Metal Doors and Frames.</li> <li>Recommended locations for hardware on Custom Hollow Metal doors differ from those established for Standard Hollow Metal doors principally with respect to hinges, knobs and strikes.</li> </ul>
HMMA 850-00	<ul> <li>Guide Specifications for Installation and Storage of Hollow Metal Doors and Frames.</li> <li>A comprehensive review of the delivery, receiving, on-site storage and installation of Knock-Down (KD) and welded hollow metal frames and hanging of hollow metal doors.</li> </ul>
HMMA 860-92	<ul> <li>Guide Specifications For Hollow Metal Doors And Frames</li> <li>A CSI format specification intended as a guideline for the development of, and editing of job specifications for the application of specific job requirements related to Apartment Buildings, Dormitories, Military Barracks and Motels.</li> </ul>

<ul> <li>Guide Specifications For Commercial Hollow Metal Doors And Frames</li> <li>A CSI format specification intended as a guideline for the development of, and editing of job specifications for the application of specific job r quirements related to Schools, Hospitals, Industrial Buildings, Office Build- ings, Hotels, Nursing Homes, Airports and Convention Centers.</li> </ul>	НММА 861-06
<ul> <li>Guide Specifications For Commercial Security Hollow Metal Doors And Frames</li> <li>A CSI format specification intended as a guideline for the development of, and editing of job specifications for the application of specific job re- quirements related to Exterior Doors to Schools, Warehouses, Industrial Buildings or Strip Stores.</li> </ul>	ANSI/NAAMM HMMA 862-03
<ul> <li>Guide Specifications For Detention Security Hollow Metal Doors And Frames</li> <li>A CSI format specification intended as a guideline for the development of, and editing of job specifications for the application of specific job re- quirements related to Jails, Prisons, Detention Centers and Secured Areas in Hospitals or Courthouses.</li> </ul>	ANSI/NAAMM HMMA 863-04
<ul> <li>Guide Specifications For Swinging Sound Control Hollow Metal Doors and Frames.</li> <li>A CSI format specification intended as a guideline for the development of, and editing of job specifications for the application of specific job requirements related to Television, Radio, Recording and Sound Studios, Theaters and Music Rooms.</li> </ul>	ANSI/NAAMM HMMA 865-03
<ul> <li>Guide Specifications For Stainless Steel Hollow Metal Doors And Frames</li> <li>A CSI format specification intended as a guideline for the development of, and editing of job specifications for the application of specific job re- quirements related to the use of Type 304 or 316 Stainless Steel for highly corrosive, moderately corrosive or aesthetic applications.</li> </ul>	ANSI/NAAMM HMMA 866-01
<ul> <li>Guide Specifications For Commercial Laminated Core Hollow Metal Doors And Frames</li> <li>This specification presents the 2004 CSI Format (for the new CSI location for hollow metal doors and frame products) Master Format 2004 Seion 08 11 13 and is intended as a guideline for the development of, and editing of</li> </ul>	ANSI/NAAMM HMMA 867-06

job specifications for the application of specific job requirements relaed to commercial, laminated core, steel doors, and appropriate frame proucts.

A250.3-2007	<ul> <li>Test Procedure And Acceptance Criteria For – Factory Applied Finish Coatings For Steel Doors And Frames Prescribes the pro-</li> </ul>
	cedure to be followed in the selection of material, chemical prepa- ration, painting, testing, and evaluation of factory applied finish painted steel surfaces for steel doors and frames.
A250.4-2001	• Test Procedure And Acceptance Criteria For – Factory Applied Fin- ish Coatings For Steel Doors And Frames Prescribes the procedure to be followed in the selection of material, chemical preparation, painting, testing, and evaluation of factory applied finish painted steel surfaces for steel doors and frames.
A250.6-2003	<ul> <li>Recommended Practice For Hardware Reinforcing</li> <li>On Standard Steel Doors and Frames, Provides users of standard steel doors and frames with practical information regarding accepted design methods for reinforcing, and recommended practices for proper field preparation and installation of builder's hardware.</li> </ul>
A250.7-1997 (R-2002)	<ul> <li>Nomenclature For – Standard Steel Doors And Steel Frames</li> <li>Detailed definitions of terms common to the Standard Steel</li> <li>Door and Steel Door Frame Industry.</li> </ul>
A250.8-2003 (SDI-100)	<ul> <li>Recommended Specifications For Standard Steel Doors And Frames.</li> <li>This specification for swinging steel doors and frames offers a number of choices in both regular and fire rated door and frame constructions.</li> <li>The user must select from the specification the specific grades of doors and frames that best apply to the project. This specification covers sizes, types, materials, general construction requirements and finishing of 1-3/4" extra heavy duty steel doors, 1-3/4" heavy duty steel doors, 1-3/4" and 1-3/8" standard duty steel doors, together with frames and accessories. They are intended to be standard items not subject to variations.</li> </ul>
A250.10-1998 (R2004)	• Test Procedure & Acceptance Criteria for –Prime Painted Steel Surfaces for Steel Doors & Frames Procedures for the selection of material, chemical preparation, painting, testing & evaluation of prime painted steel surfaces for steel doors & frames.



Recommended Erection Instructions For Steel Frames
This document includes information in respect to storage of frames on the jobsite, grouting and back painting of frames and assembly of frames. It contains instructions in respect to bracing frames before wall construction and the installation of frames in masonry, steel stud wall construction, wood stud wall construction and drywall construction.

Testing and Rating of Severe Windstorm Resistant Components for Swinging Door Assemblies.

• This standard provides procedures for testing and establishing load ratings (design load in pounds per square foot or pounds force) for components of exterior swinging door assemblies. It is the intent of this document to test the protection of openings during severe windstorm conditions, such as a hurricane, that produces sustained wind speeds or gusts in a range of 110 to 150 miles per hour as defined by ASCE 7-02. It is not intended to simulate wind forces generated by tornadoes A250.13-2003

A250.11-2001



### **Doors Installation &** Maintenance

### Frames

• Hollow metal fire door frames are labeled for compliance with NFPA 252 and UL 10C positive pressure requirements. These frames also meet the requirements of UL 10B, UBC 7-2-1997 and ASTM E-152.

• A door labeled for NFPA 252, UBC 7-2-1997 or UL 10C positive pressure compliance must be installed in each of these door frames. See the appropriate door installation instructions.

• Intumescent seals are not required for hollow metal frames with hollow metal doors to comply with UBC 7-2- 1997. If a wood door is being installed in a hollow metal frame, the door must be installed in accordance with the wood door manufacturer's labeling procedure and installation instructions. Intumescent seals may be required for wood doors.

• Fire door frames (and approved doors) must be installed with the manufacturer's instructions or ANSI A250.11 Recommended Erection Instructions for Steel Frames or HMMA 840-99 Installation and Storage of Metal Doors and Frame and in accordance with NFPA 80.

• 1/2" penetration of gypsum wall board is required at all drywall frames. However, it is permissible to notch the wallboard at mortar boxes and electrical junction boxes to allow for a minimum of 1/4" penetration at hardware preps provided the wallboard penetration elsewhere into the frame remains a minimum of 1/2" deep.

• If frames are placed on uneven floors, adjustable floor anchors may be used to compensate. In lieu of adjustable floor anchors, fixed base anchors may be shimmed up to 3/8" using washers or metal shims. Any resulting gap must be filled with mortar or fire resistant caulking.



- Listed hardware is to be used in accordance with NFPA 80.
- SMOKE AND DRAFT CONTROL:

• Smoke and draft control openings require the use of "Category H" gasketing that is labeled for compliance to UBC 7-2-1997 part 1 (for fire) and part 2 (for smoke and draft control). See the gasketing manufacturer's installation instructions.

• Louvers are not permitted in smoke and draft control openings and the installation of a louver in a fire door renders void any "S" that may be indicated on the door or frame label.

### Doors

• Hollow metal fire doors are labeled for compliance with NFPA 252 and UL 10C positive pressure requirements. These doors also meet the requirements of UL 10B, UBC 7-2-1997 and ASTM E-152.

• Doors must be installed in frames labeled for NFPA 252, UBC 7-2-1997 or UL 10C positive pressure compliance, or at the discretion of the Authority Having Jurisdiction, in a frame labeled for compliance with UL 10B or ASTM E-152. See the appropriate frame installation instructions.

• Intumescent seals are not required for hollow metal doors with hollow metal frames to comply with UBC 7-2- 1997.

• Fire doors (and approved door frames) must be installed with the manufacturer's instructions or HMMA 840-99 Installation and Storage of Metal Doors and Frame and in accordance with NFPA 80.

• Listed hardware is to be used in accordance with NFPA



80. Door clearances must also meet the requirements of NFPA 80.

• Lite kits must be approved for positive pressure requirements and must be installed in accordance with the lite kit manufacturer's installation instructions. Only listed louvers are permitted in positive pressure fire rated doors. Doors with unchanneled light or louver cut-outs are intended for use with Anemostat kits utilizing HM-Clips or with those Air Louver kits which are approved for installation without channeling.

• SMOKE AND DRAFT CONTROL:

• Smoke and draft control openings require the use of "Caegory H" gasketing and bottom sweeps that are labeled for compliance to UBC 7-2-1997 part 1 (for fire) and part

2 (for smoke and draft control). See the gasketing manufacturer's installation instructions.

• Louvers are not permitted in smoke and draft control openings and the installation of a louver in a fire door renders void any "S" that may be indicated on the door or frame label.



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# Projects & Clients



5, Projects <sup>&</sup>Clients

Project list

Clients



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# **Projects List**

SN	Client Name	Project Name
1	ALFANAR CONTRACTING COMPANY	FANAR LABOR CAMP
2	SHAR CONTRACTING COMPANY	TABOUK EDUCATION COLLEGE
3	SMEH CONTRACTING COMPANY	ADMIN COLLEGE KHARJ
4	FAD CONTRACTING COMPANY	TRAINERS HOUSING AFLAG
5	ALSABAAN CONTRACTING COMPANY	KING SALMAN PARK
6	SHAR CONTRACTING COMPANY	DAWADMY COLLEGE ENGENRING
7	JABRIA CONTRACTING COMPANY	FANAR ADMIN BUILDING
8	SCC CONTRACTING COMPANY	CENTRO HOTEL
9	FANDAS CONTRACTING COMPANY	HADA VILLAS COMPLEX
10	HAMD ALSAGHEIR CONTRACTING COMPANY	TRAINERS HOUSING DYRAB
11 12	AL EFTIKAR CONTRACTING COMPANY	SCOOLES TADOUK LOSDITAL
12	ALMAGAL ALARABY CONTRACTING COMPANY IAWDAT CONTRACTING COMPANY	TABOUK HOSPITAL
13	SAUDI LEBANESE FACTORY	DALAM YOUTH BUILD CENTRO HOTEL
15	SMEH CONTRACTING COMPANY	ADD DOORS ADMIN COLLEGE
16	QASAMY CONTRACTING COMPANY	TAIF HOTEL
17	GAMAZ CONTRACTING COMPANY	GAMAZ TOWER
18	OLYA &MALZ HOTEL	MUHAIDB
19	AZMEEL CONTRACTING CO.	KFU-IST & 2ND PHASE
20	AZMEEL CONTRACTING CO.	KING FAISAL UNIVERSITY SCHOOL FOR GIRLS (AL-HASA)
21	AZMEEL CONTRACTING CO.	KING FAISAL UNIVERSITY SCHOOL FOR BOYS (AL-HASA)
22	AZMEEL CONTRACTING CO.	KING FAISAL UNIVERSITY SCHOOL FOR GIRLS (AL-HASA)
23	AZMEEL CONTRACTING CO.	KING FAISAL UNIVERSITY SCHOOL FOR BOYS (AL-HASA)
24	AZMEEL CONTRACTING CO.	ENGINEERS OFFICE JUBAIL
25	AZMEEL CONTRACTING CO.	ENGINEERS OFFICE JUBAIL
26	AZMEEL CONTRACTING CO.	( RAVAGO ) NEW PRODUCTION AND STORAGE FACILITY PLANT IN JUBAIL
27	AZMEEL CONTRACTING CO.	DAREEN MUDP (PLOTS-5, BLOCK-C)
28	ABDULRAHMAN EID ESTABLISHMENT	AHMED IBN HANBAL SCHOOL
29	ABDULRAHMAN EID ESTABLISHMENT	AHMED IBN HANBAL SCHOOL
30	ABDULRAHMAN EID ESTABLISHMENT	AHMED IBN HANBAL SCHOOL
31	ABDULRAHMAN EID ESTABLISHMENT	AL HELALA SCHOOL
32	ABDULRAHMAN EID ESTABLISHMENT	AL MUBARAZ SCHOOL & SPORTS HALL
33	SAUDI DELTA ENTERPRISES	REHABILITATION OF VETERINARY HOSPITAL (KFU)
34	SAUDI DELTA ENTERPRISES	REHABILITATION OF VETERINARY HOSPITAL (KFU)
35	AL GHANEM INTERNATIONAL	MUDP - PLOT11
36	AL GHANEM INTERNATIONAL	MUDP - PLOT11
37	AL GHANEM INTERNATIONAL	MUDP – PLOT 4
38	AL GHANEM INTERNATIONAL	MUDP – PLOT 10
39	RASHID AL-TAMIMI EST	AYTB HQ BUILDING IN JUBAIL
40	SPECIALIZED PROJECTS CO.	AUTISM CENTER-3244-REV1
41	SPECIALIZED PROJECTS CO.	SOCIAL PROTECTION-3244
42	CCC CONTRACTING COMPANY	RKPP CECUDITY CATES IN MINISTRY OF DECENCE
43	MONSHAAT AL MOSTAKBAL CO.	SECURITY GATES IN MINISTRY OF DEFENCE
44 45	RTCC CONTRACTING COMPANY RTCC CONTRACTING COMPANY	KAP 04 - BORDER GUARD
45		KAP 04 - DIRECTORATE OF CIVIL DEFENSE KAP 04 -TRAINING CENTER - DIRECTORATE OF CIVIL DEFENSE
	RTCC CONTRACTING COMPANY SAUDLOGER LTD	
47 48	SAUDI OGER LTD. BEIJING EMIRATES INTERNATIONAL CONTRACTING CO.	KAP 1 (PT-09 SITE 145,147&148) SCHOOLS IN MAKKAH
49	BEIJING EMIRATES INTERNATIONAL CONTRACTING CO.	JAZAN FACULTY
50	BEIJING EMIRATES INTERNATIONAL CONTRACTING CO.	KAP 2
51	BEIJING EMIRATES INTERNATIONAL CONTRACTING CO.	KAP 5
52	AL FAHAD CONTRACTING COMPANY	COLLEGE OF PUBLIC HEALTH AND TROPICAL MEDICINE
53	BIN DAYEL EST.	BIN DAYEL TOURISM & HOSPITABILITY COLLEGE (DERAB)
54	BIN DAYEL EST.	BIN DAYEL TOURISM & HOSPITABILITY COLLEGE (DERAB)
55	BIN DAYEL EST.	TECHNICAL COLLEGE IN MAKKAH (BOYS)
56	BIN DAYEL EST.	BIN DAYEL HOUSING INSTITUTE FOR PLASTICTECHNOLOGY (AL KHARJ)
57	BIN DAYEL EST.	BIN DAYEL TECHNICAL COLLEGE FOR BOYS (AL AFIF)
58	BIN DAYEL EST.	BIN DAYEL 2ND TECHNICAL COLLEGE FOR GIRLS (EXIT 9 RIYADH)
59	SAKAN AL ARABIYAH CO.	LABOUR OFFICE JEDDAH
60	SAKAN AL ARABIYAH CO.	LABOUR OFFICE JEDDAH
61	EL SEIF CONTRACTING CO	TABOUK HOTEL
62	EL SEIF CONTRACTING CO	TABOUK HOTEL
63	AL FAAHD COMPANY	UNYZAH SUBSTATION
1.4	TIADUMENTIUMIALULE AANIM AA	TECHNICAL COLLEGE FOR BOYS IN AL KHOBAR
64	JAS INTERNATIONAL CONT. CO.	
65	JAS INTERNATIONAL CONT. CO.	TECHNICAL COLLEGE FOR BOYS IN BAQIQ
65 66	JAS INTERNATIONAL CONT. CO. DUBAI CONTRACTING CO	TECHNICAL COLLEGE FOR BOYS IN BAQIQ RAFFAL RESIDENCY
65	JAS INTERNATIONAL CONT. CO.	TECHNICAL COLLEGE FOR BOYS IN BAQIQ

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69	AL-IOUDAH CONSTRUCTION	AL BAHA
70	C.C.C	POWER PLANT (RAS AL KHAIR)
71	YAMAMA	KING FAISAL UNIVERSITY
72	SAUDI ARCHRICON CONTRACTING COMPANY	DESALINATION PLANT
73	AL FOUZAN CONTRACTING COMPANY	IMAM UNIVERSITY
74	SPC CONTRACTING COMPANY	ATUSIM CENTER (DAMMAM)
75	ABDUL REHAM AL GHAMDI	MADAC MEDICAL FACTORY
76	AZIZ CO. LTD	AL- HAMMADI HOSPITAL
77	AL BAWARDI CONSULTING ENGGINEERING	CALIFORNIA COMPOUND
78	AL RASHED TRADING & CONTRACTING CO.	KING FAHAD MEDICAL CITY RESIDENTIAL COMPLEX
79	AL QUSEI INTERNATIONAL	NORTHEN JEDDAH UNIVERSITY-ASFAN
80	URJUAN PROPERTY DEVELOPER	MALGA VILLA'S
81	AL BAWANI CONTRACTING CO	KING FAISAL HOSPITAL PARKING
82	AL QASABI CONTRACTING	AL NAYYARA
83	BUILDING MATERIAL TRADING CO.	O.D.T
84	DRAKE & SCULL	AL JAWAHRA TOWER (DAMAC PROPERTIES)
85	ISHADA CONTRACTING CO.	AL HAFIZ OFFICE BUILDING
86	AL ABDUL KADER FURNITURE CO	MARRIOT HOTEL
87	UNIDECOR CONTRACTING COMPANY	SHERATON HOTEL
88	SAUDI TERIYADH CONTRACTING CO.	SHIELD SPORTING CLUB
89	UNITED CONTRACTING COMPANY	UNITED COMPANY COMPOUND
90	SAUDIA HOTEL	SAUDIA HOTEL
91	FAWAZ AL HOKAIR CONTRACTING COMPANY	SALAM MALL
92	FAWAZ AL HOKAIR CONTRACTING COMPANY	MALL OF DAHRAN
93	AL SHEHILLI CONTRACTING COMPANY	AL SHEHILLI FACTORY
94	KING FAISAL COLLEGE	KING FAISAL COLLEGE
95	DSK CO.	AL HAMMADI HOSPITAL
96	AL FANAR CONSTRUCTION	JUBAIL POLYSILLICON PLANT
97	AL SEIF CONTRACTING CO.	HAIL MALL
98	AL SEIF CONTRACTING CO.	TABOOK HOTEL
99	YAMAMA CONTRACTING	KING FAHAD UNIVERSITY FOR PETROLIUM & MINERALS
100	SAUDI ARCHIRODON	RAS AL KHAIR DESALINATION PLANT
101	ASSAD SAID CONTRACTING CO.	RAS AL KHAIR DESALINATION PLANT
102	CONSOLITED CONTRACTORS CO.	RAS AL KHAIR DESALINATION PLANT
103	ACNON CONTRACTING CO.	SAUDI MIXED MARTIAL ART
104	HORIZON CONTRACTING	NATIONAL GUARD
105	SAUDI LEBANESE TAROUK CO.	HAMAD AL SAJHYR TOWER
106	KING FAHAD MEDICAL CITY	AL RASHED CONTRACTING
107	ALEXANDRIA CONTRACTING	HOTEL & MALL
108	AL MOGASMAT BUILDING TOWER	AL MOGASMAT CONTRACTING
109	KHODOOB CONTRACTING	SCHOOLS
110	AL NASBAN CONTRACTING	MOI SCHOOLS
111	SAUDI OGER	CAP 4
112	AL RASHED TRADING & CONTRACTING CO.	CAP 2
113	AL FAWZAN COMPANY	IMAM SAUD UNIVERSITY
114	ASSAD SAID CONTRACTING CO.	POWER PLANT
115	ASSAD SAID CONTRACTING CO.	TAIBA UNIVERSITY

# Clients

Al Manashy is proud of our clients; we have supplied many steel security doors to a lot of reputed organizations in the Middle East From our base in Saudi Arabia. Also, we supply commercial and residential steel doors to all over Middle East area.

We at Al Manashy Doors , believe that complaint resolution is important, and it is our responsibility to respond to complaints promptly, accurately and with the utmost courtesy. We will provide our customers with accessible means with which to communicate their complaint, and All complaints and personal information collected, whether written or oral, must be handled in Al Manashy is committed to providing high quality service and products to assist our customers for their projects.

If customers have any questions or concerns about our products, services or representatives, contact us through the following emails :

marketing@almanashy.com

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حال الحبيب DR SULAIMAN AL HABIB





















PROPERTIES













**وسنشفار الحمادار** Al Hammadi Hospital













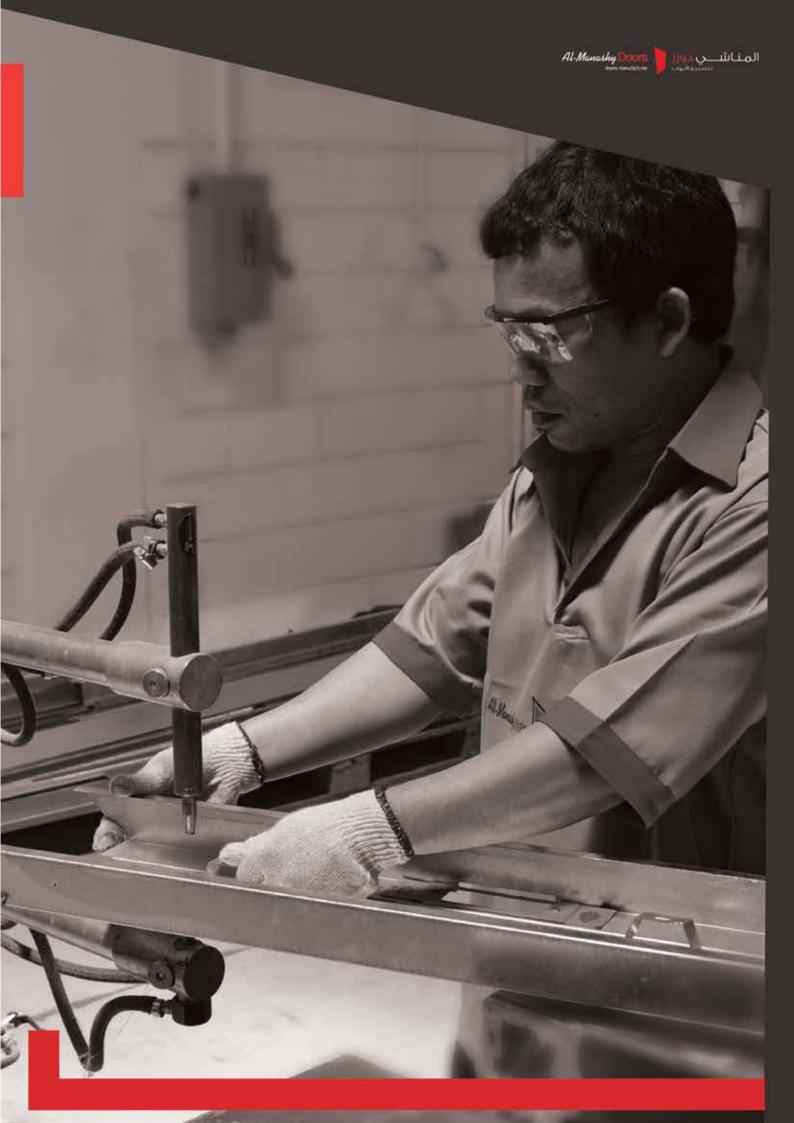














# Appreciation Letters







Assad Said for Contracting Co. LTD.

شركة Assad Said A 111 For Contracting Co. LTD. للمقاولات المحدودة C.R.: 10873 جل تجدري ، ۲۰۸۲۲ Date : 04<sup>th</sup> May, 2013 Ref : ASC/CERT.02/HO/PR/C01 M/s Al Manashy Steel Doors Factory Co, Po Box. 71021, Diriyah, 11587, KSA Ph# +966-9200229180 Fax; + 966-9200229170 To Whom It May Concern Letter of Appreciation We, Assad Said Cont. Co. , hereby certify that Al Manashy Steel Doors Factory, Diriyah, has performed the assigned works to our satisfaction in both quality and progress of work, we also acknowledge your services during the approval process, which involved high degree of technical assistance on your part that was provided in a conscientious and professional manner. We highly recommended M/s AI Manashy steel doors as a quality supplier in their fields and look forward to a constructive mutual business relationship in future. For & behalf of Assad Said Cont. Co. Ltd., nun Engr. Ashfaq Noor QA/QC Manager TeL: 00966 1 479 0900 / 00966 1 478 8344 Fax: 00966 1 476 5284 ÷. P.O.Box 3936 Riyadh 11481 - C.C. No. 5045 - Kingdom of Saudi Arabia ص . ب ٢٩٣٦ الرياض ١١٤٨٠ - رقم العضوية ٢٩٠٠ - الملكة العربية السعودية SGS 10 E-mail:info@assadsaid.com Website:www.assadsaid.com ingelige

# **Letter of Appreciation** Fawaz Al Hokair Real Estate Co. LTD.

Fawa	z Al Hokair Real E	state Co. Ltd.	الم المعقد الروحية ا	ذ.م.م	حكير وشركاه العقارية	شركة فواز ال
		دير	_ر وتق	شک		
	ىي للأبواب لسرعة		رية بالشكر والتق للوبه لمشروع م			
	ر المشتريات	مدير				
	1111115	۲۲،۱۱:۱:۰+ - فلکس ۲۲	ية السعودية – هاتف ١٥٢٩	١٩٩ - المملكة العرب	۳۲۰ ـ ال باطر ۲۶۱۹۰۶	منتدة بريد

Fawaz Al Hokair Real Estate Co. LTD.

Fawaz Al Hokair Real Estate Co. Ltd. شركة فواز الحكير وشركاه العقارية ذ.م.م شکر وتقدیر تتقدم شركة فواز الحكير وشركاه العقارية بالشكر والتقدير لشركة المناشى للأبواب لسرعة واتقان التنفيذ ومراعاة المواصفات المطلوبه لمشروع الضهران مول . مدير المشتريات صندوق بريد ٢٤١٩٠٤ - الرياض ١١٣٣٣ - المملكة العربية السعودية - هاتف ٩٦٦١٤٦٤٦٤٢٠٢٢ + . فلكس ٩٦٦١٤٦٤٣٠٧٢ www.alhokair.com.sa

ودريند سون استنتنارييون البوارهك تلفرن ۵ ۲۷۸۲۳۹۵ - ۲۷۸۲۳۹۱ - فاکس ۲۷۹۹۸ الرياض ١١٤٨٢ - ص.ب. ٨٠٨٠ - الملكة العربية السعودية - ترخيص رقم ٢٤٠ California/14-04/160 الرقسم REF. 10 April, 2014 DATE التاريخ Attention: Mohamed Baras AlManashy Steel Doors Factory Co P.O. Box 71021, Dariyah, 11587 Saudi Arabia Subject: Appreciation letter Dear Mr.Baras, We, AlBawardy Consulting Engineers, hereby certify that AlManashy Steel Doors Factory has performed the assigned work at our project - California Resort - by supplying and installing doors along with their hardware by Consort UK. We take this opportunity to thank AlManashy for their dedication, high standard quality of works, and professionalism shown. We highly recommend AlManshy steel door factory in their fields and look forward to a constructive mutual business relationship in the future. ALBAWARDY CONSULTING ENGINEERS Page 1 of 1 رقم العضوية بالفرفة التجارية AVAE مرقم العضوية بالفرفة التجارية AL BAWARDY CONSULTING ENGINEERS Chamber of Commerce No. 8784 RIYADH 11482 - P.O. BOX 8080 - KINGDOM OF SAUDI ARABIA - LICENCE 240 - TEL. 4782355 / 4782261 - FAX 4767998

N 16 ă. MACLAN KINGDOM OF SAUDI ARABIA Riyadh, Al-Ma'ather St. P.O.Box: 307 - Area Code 11411 Tel.: +966- (01)- 4164111 Fax: +966- (01)- 4164222 C.R.1010004739C.C.I.:1335 اروالمد (٢٠٧) - الرمز البريدي (١١٤٦١) 4977 - (+1) - 2172711 1 كس د ٤١٦٤٢٢٢ - (٠١) - ٤١٦٤٢٢٢ س. ت ، ٢٢٢٩ . ٢٠١٠ غ.ت ١٢٢٥ جارةوالمقاولاتالح ال اشد للت AL-RASHID TRADING & CONTRACTING CO. الثال المحقوع (٥٠) مليون ريال Poid Conital (50) Millions Ref: GB-PU-CSP#1360-527-125 Attention: Al Manashy Steel Doors Company P.O.Box 71021 Diriyah 11587 Riyadh, Saudi Arabia Subject: Appreciation Letter We, Al Rashid Trading & Contracting Co. LTD., Hereby certify that Al Manashy Steel Doors Company has performed the assigned work at our project (King Fahad Medical City) - By Supplying doors along with the required specification. We take this opportunity to thank Al Manashy Steel Doors Company for their dedication high standard quality of works and professionalism show. We highly recommended Al Manashy Steel Doors Company in their fields and look forward to constructive mutual business relationship in the future. Eng. Mubark Al Majed **Contracting Department Manager** يد للتجارة والمقا 13 cl 24 Riyadh ID TRADING & CONTRA قرع الدمام دس.ب ، ١٥٤٨ - الرمز البريدي ، ٢١٤٤١ - س.ت ٢٤٠٦ هاتف د ٨٩٩٤٤٦٦ www.sice.com.pa Th هرع جدة ، ص.ب ، ٥٩٢ - الرمز البريدي د ٢١٤٢١ - س.ت ، ١٧١٣٦ هاتف ، ١٧٤٤٦٢٦ rtcc@rtcc.com.sa GERI

Al Hammadi Hospital

Paid up Capital 300,000,000 S.R. C.R. No. : 1010263026 Chamber of Com. 210327



مسنشفك الحمادي

رأس المال المدهوع ۳۰٬۰۰۰٬۰۰۰ ريال سعودي س.ت ۱۰۱۰۲٦۲۰۲٦ رقم العضوية ۲۱۰۳۲۲

REF: AL HAMMADI HOSPOTAL 0054-622

Attention: Al Manashy Doors Company

Subject: Appreciation Letter

Dear / Sirs

AUHSI

We Al HAMMADI Hospital Certify that AL Manashy Doors Company and factory has achieve the assigned works for our project (Al HAMMADI Hospital – King Fahad Road), by supplying and installing all the metal doors along with the required and approved hardware.

So, we take this opportunity to thank Al Manashy for their work with high standards and quality.

And we recommend Al Manashy Company as a hollow metal doors supplier and hope to have good business relation in the future.

09-0

Eng. Amir Abdul Ghafar

www.alhammadi.com. مسبب ٢٠٠٠ه الرياض ١١٩٣٤ - تلفون ٢٢٢٠٠٠ - فاكس ٢٤٠٥٠٦ - الملكة العربية السعودية الرياض ١٩٣٤ - تلفون P.O. Box 55004 Riyadh 11534 - Tel. : 4622000 - Fax : 4640506 - Kingdom of Saudi Arabia - www.alhammadi.com.



REF: TABOUK HOSPITAL (Eng./3044TB-Rev04/AL/14)

Attention: Al Manashy Doors Company

Subject: Appreciation Letter

### Dear / Sirs

By this letter, We Al Majal Al-Arabi Authorize that AL Manashy Doors Company and factory has execute all the assigned steel doors works for our project (TABOUK HOSPITAL), by supplying all the Steel doors and frames with all the required materials.

So, we take this opportunity to thank Al Manashy for their work with high standards and quality.

### **Contracting Branch Manager**



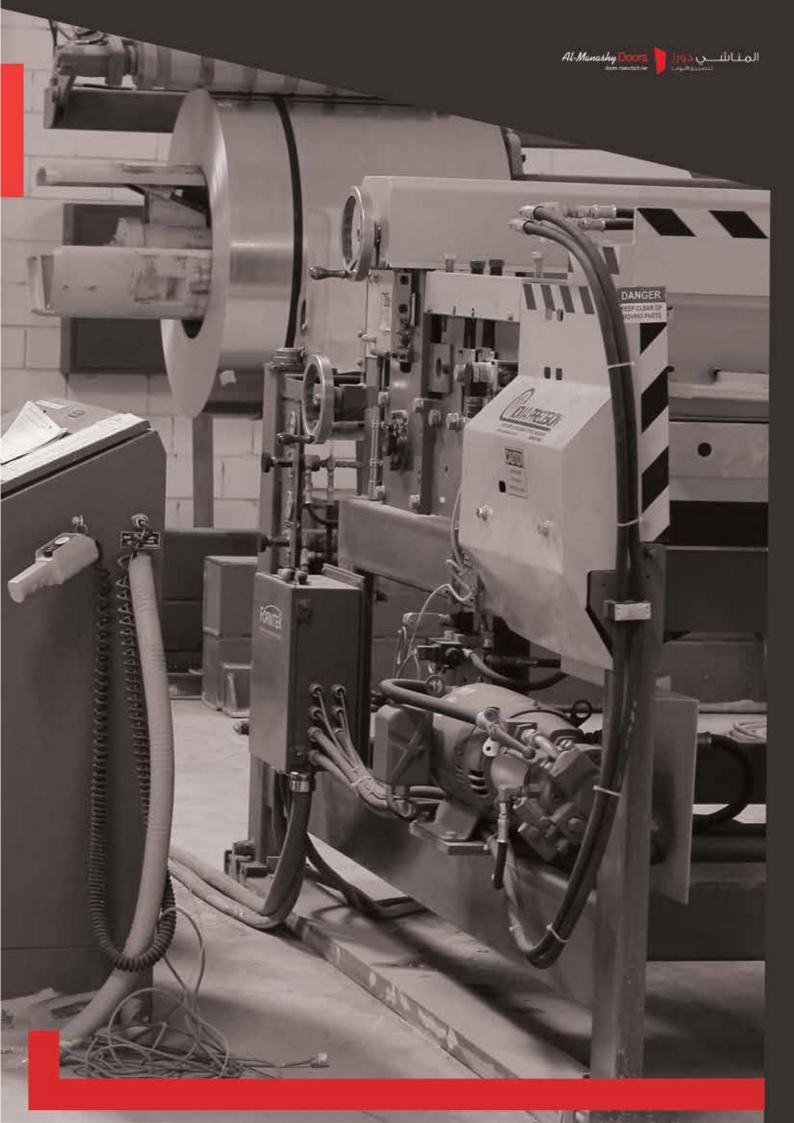
#### (MJC-COD-SUB-5801-(68)-A-01)

Almajal Alarabi Group

صفحة <sup>0</sup> من <sup>0</sup>

متبروع انشاء مستشفى النساء والولاد سعة (200 سرير) - تبوك شتركة مجموعة المجال العربي – ذات مستولية محدودة رأس المال المدقوع 50 مليون زيال

س، ت، 1010151889، رقام العضوية 86258، صبب، 92833، الرياض 11663، المملكة العربية السعودية Tel: x966 11 2051665; Fax: 4966 11 2056262; www.almajalholding.com.sa





# Contact Details





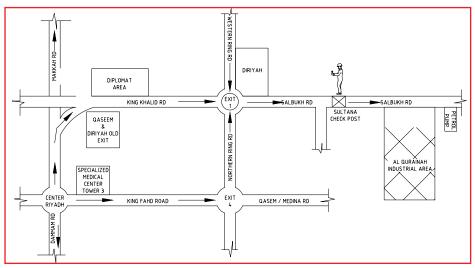








### **Factory Location**





# Wood partment

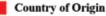
TECHNICAL SUBMITTAL OF WOODEN DOORS





#### Supplier's Profile & Technical Data Sheet (TDS)

- a. Packraft Safecore Honeycomb Technical Data Sheet
- b. SKANO Technical Data Sheet
- c. Warm Spring Composite Products (WSCP) Technical Data Sheet (AS / BS)
- d. Strebord FD30 / FD60 Technical Data Sheet
- e. Segamat Panel Board (SPB) Technical Data Sheet
- f. Tolko International Technical Data Sheet



#### Acoustic Assessment

a. Acoustic Assessment TONY PALMER DoorTech 2000

#### Supplier's Certificates (Approvals & Registration)

- a. BMTRADA STD 006 083
- b. BMTRADA STD 047
- c. Intertek Warm Spring 45-90 min Flush Door
- d. Intertek Warm Spring 20-90 min Door Frame
- e. Intertek Warm Spring 60-90 min Single Swing Sound Transmission Doorset
- f. Ramkor Intertek Strebord 44 FD30 Particle Board Core Door
- g. Ramkor Intertek Strebord 54 FD60 Particle Board Core Door
- h. Ramkor Intertek FD90 Plus 90min Fire Rated Particle Board Core Door
- i. Certifire Lorient Polyproduct Limited (Lorient Type 617 Sodium Silicate

Intumescent Seal with optional smoke seal)

#### Certification (Compliance)

- a. SASO Certificate & Compliance
- b. ISO 9001-2015
- c. ISO 14001-2015
- d. ISO 45001-2018

#### Material Safety Data Sheet (MSDS)

- a. Warm Spring Material Safety Data Sheet Door Core American Standard
- b. Warm Spring Material Safety Data Sheet Door Core- American Standard
- c. Warm Spring Material Safety Data Sheet Tectonite Certified Door Components

#### Shop Drawings

a. Wooden Door General Sample Shop Drawing



TECHNICAL DATA SHEET OF PACKRAFT SAFECORE HONEYCOMB



### packraft SAFECORE

A revolutionary product that effectively replaces wood, PUF, EPS in a variety of applications is an environment-friendly new-age alternative,  $S \land F \in C \cap R \in \mathbb{T}$  continues to provide the advantages of the older materials while adding many more benefits through its life-cycle. The paper honeycomb core by  $S \land F \in C \cap R \in \mathbb{T}$  is an eco-friendly, versatile and lightweight material with excellent strength-to-weight ratio and high adaptability with other materials giving it almost unlimited applications. Not only does it combine with cardboard, wood & plywood, steel, plastic, FRP and many other materials but is also more economical than most materials making it an unbeatable choice.

With ever increasing global concern over climatic changes paper honeycomb makes all the more sense today. As a product where the focus is to utilize recycled material and remain completely eco-friendly, it is a boon to the earth as a 100% bio-degradable, non polluting material.

# Core Features

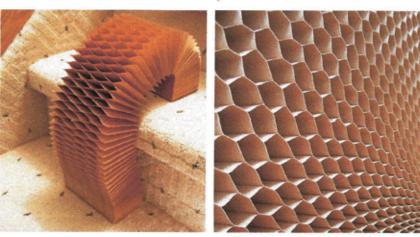
Highest strength-to-weight & stiffness-to-weight ratio as a sandwich core.

Predictable and uniform crushing strength under compression.

✓ Continuous un-expanded honeycomb core - Shipped in continuous pallet load lengths, the coiled core is several hundreds of square meter, when expanded mechanically at the point of use.

 Slices un-expanded - Certain industries require cut-to size pieces of honeycomb tailored to their application. The dimension is fit-to-use when locally expanded.

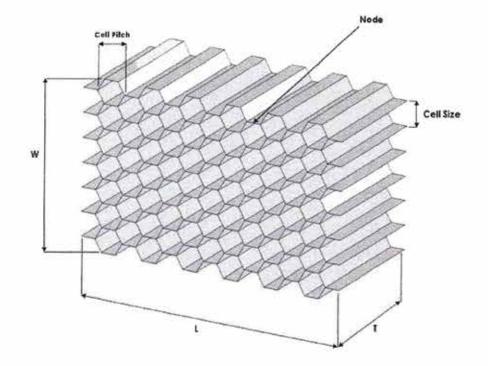
 Pre-expanded sheets - This type includes the expansion of the slices and is manufactured to the specific dimensions.



### Available as Strips and Sheets



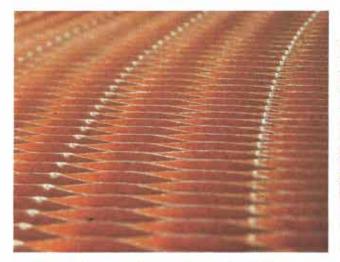
# Core Specifications HONEY COMB CORE TECHNICAL DATA



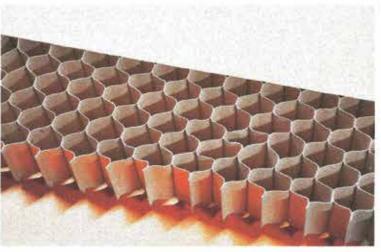
NODE/CELL SIZE (mm)		6/9	8	13	12	2/21	1	4/25
PAPER WEIGHT (gsm) 140, 160		140, 160, 180 140, 160, 180,		0, 200, 240 140, 160, 1		180, 200, 240		
PAPER TYPE				Recycled	l Kraft Paper			
CORE TYPE	Continuous	Strips	Continuous	Strips	Continuous	Strips	Continuous	Strips
WAILABLE	6-78mm	6-100mm	6-78mm	6-100mm	6-78mm	6-100mm	6-78mm	6-100mm
THICKNESS	± 0.3	± 0.3	± 0.3	±0.3	± 0.3	± 0.3	20.3	± 0.3
EXPANDED LENGTH	Endless Core	F	Endless Core	Max 1500mm	Endless Core	Max 2100mm	Endiess Core	Max 2500mm
EXPANDED WIDTH		800 - 1	1150 mm			800 -	1250 mm	
sage of Cell Size	Board Makin	12			As Filler in D	loor & Panels	; and in boards f	or cushioni



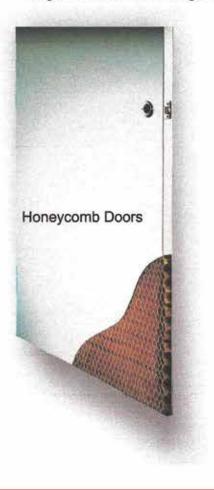
# **Core** Applications



Ridged Core for Releasing Blocked Air



Multi-Role Honeycomb Core Boards



The **SAFECORE** filler in Sheet and Strip form can be used for a variety of applications to provide lightweight, strength, portability, durability and environment friendliness to the products. The Core can be used to make Honeycomb boards, in doors, in making display cabinets, pallets, hobby activities, creative items as lampshades, display boards, panels, etc. It offers virtually unlimited potential and applicability wherever there is a wood & PU filler requirement with its unique added advantages over them.



TECHNICAL DATA SHEET OF SKANO FIBERBOARD





### WOOD FIBRE SOFTBOARD DOOR CORES

### **ADVANTAGES**

LIGHTWEIGHT MATERIAL 240 KG/M3

- ECONOMICALLY FEASIBLE
- SOOD ACOUSTICAL PERFORMANCE (CA -40DB)

MATERIAL'S HIGH SPECIFIC ENERGY CAPACITY/ GOOD ENERGY STORING FEATURES

A TAILORED DIMENSIONS (UP TO 34MM THICK BOARDS IN ONE LAYER)

TESTING HAS BEEN CARRIED OUT FOR EI30/EI60 FIRE CLASS DOORS

FSC AND PEFC CERTIFICATIONS

### **QUALITY AND HEALTH**

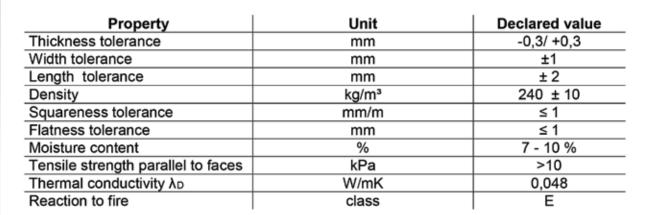
SKANO FIBREBOARD PRODUCTION LINES GRANT THE PRECISE THICKNESS AND FLATNESS OF OUR SOFTBOARDS, BOTH NECESSARY FOR YOUR DOOR CONSTRUCTION

OUR SOFTBOARDS CONSIST 100% OF NATURAL WOOD FIBERS AND THERE ARE NO RESINS OR BINDERS ADDED DURING THE PRODUCTION PROCESS. OUR WOOD FIBRE SOFTBOARDS ARE PART OF CREATING HEALTHY LIVING ENVIRONMENT WITHOUT ANY ALLERGENS AND FORMALDEHYDE

### MAKE A SMART CHOICE FOR YOUR DOOR SOLUTIONS

\*BY USING OUR SOFTBOARDS AS A DOOR CORE WILL GRANT YOU OUTSTANDING QUALITY, PERFORMANCE, AND A DOOR CORE FREE OF TOXIC ADHESIVES.

\*PLEASE DO NOT HESITATE TO CONTACT US TO ACQUIRE ADDITIONAL INFORMATION



SKANO FIBREBOARD OÜ Rääma 31, 80044 Pärnu, Estonia Fibreboard@skano.com www.skano.com







TECHNICAL DATA SHEET OF STREBOARD 44/54 FD30 / FD60

Al-Manashy Doors

#### **Revision** I v8 May 2010

Strebord\* An environmentally responsible particleboard alternative to solid hardwood/softwood door cores.

### Strebord<sup>®</sup> 44

### FD30

### Door Cores with Timber Frames

Strebord 44 is suitable for use as a general purpose door core and has been extensively tested (BS476 Pt.22) for FD30 fire door applications.

Acoustic Door Applications: With additional sealing Strebord 44 can provide for sound attenuating performances between Rw.29dB and Rw.35dB.

#### Single Leaf Doorsets - FD30 Fire Door Applications\*

Configuration	Maximum leaf height	Maximum leaf width	Notes
Unlatched single action single leaf doorset	3173mm	1178 mm	Hardwood or softwood frame of Min. 450Kg/M <sup>3</sup> density or 700Kg/M <sup>3</sup> MDF
Double action single leaf doorset	3173 mm	1178 mm	Hardwood or softwood frame of Min. 450Kg/M <sup>3</sup> density or 700Kg/M <sup>3</sup> MDF
Latched single action single leaf doorset	3223 mm	1203mm	Hardwood or softwood frame of Min. 450Kg/M <sup>3</sup> density or 700Kg/M <sup>3</sup> MD
Unlatched single action single leaf doorset with flush overpanel	2520 mm	1090 mm	Hardwood or softwood frame of Min. 450Kg/M <sup>3</sup> density or 700Kg/M <sup>3</sup> MDI Max. height of overpanel = 2000mm
Double action single leaf doorset with flush overpanel	2520 mm	1090 mm	Hardwood or softwood frame of Min. 450Kg/M <sup>3</sup> density or 700Kg/M <sup>3</sup> MDI Max. height of overpanel = 2000mm
Latched single action single leaf doorset with flush overpanel	2570 mm	1115 mm	Hardwood or softwood frame of Min 450Kg/M <sup>3</sup> density or 700Kg/M <sup>3</sup> MD Max, height of overganel = 2000mm

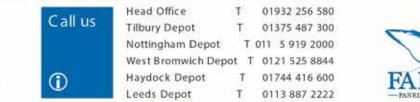
#### Double Leaf Doorsets - FD30 Fire Door Applications\*

Configuration	Maximum leaf height	Maximum leaf width	Notes
Unlatched single action double leaf doorset	3009mm	1075 mm	Hardwood or softwood frame of Min. 450Kg/M <sup>3</sup> density or 700Kg/M <sup>3</sup> MDF
Double action double leaf doorset	3009mm	1075 mm	Hardwood or softwood frame of Min. 450Kg/M <sup>3</sup> density or 700Kg/M <sup>3</sup> MDF
Latched single action double leaf doorset	3059mm	1128 mm	Hardwood or softwood frame of Min. 450Kg/M <sup>3</sup> density or 700Kg/M <sup>3</sup> MDF
Unlatched single action double leaf doorset with flush overpanel	2320 mm	990 mm	Hardwood or softwood frame of Min. 450Kg/M <sup>3</sup> density or 700Kg/M <sup>3</sup> MDF Max. height of overpanel = 1500mm
Double action double leaf doorset with flush overpanel	2320 mm	990 mm	Hardwood or softwood frame of Min, 450Kg/M <sup>3</sup> density or 700Kg/M <sup>3</sup> MDF Max. height of overpanel = 1500mm
Latched single action double leaf doorset with flush overpanel	2370 mm	1015 mm	Hardwood or softwood frame of Min. 450Kg/M <sup>3</sup> density or 700Kg/M <sup>3</sup> MDP Max. height of overpanel = 1500mm

\* NOTE Approved application dimensions vary according to the size/type and configuration of intumescent seals. See Strebord Technical Manual v8 for further information.

#### **Glazing limitations FD30 Doorsets**

Max. glazing area per leaf	Min. dim. from any edge to nearest sight line of aperture	Min. dim. between sight line of adjacent apertures		
2.66 M <sup>2</sup>	100 mm	80 mm		











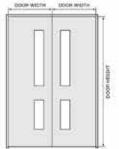


Strebord® carries either FSC\* or PEFC certification, subject to availability.

DOOR WEDTH



Double Leaf Doorsets





Unlatched single action single leaf doorset	3173mm	1178
Double action single leaf doorset	3173mm	1178
Latched cleals action		

# Single Leaf Doorsets

المتاشب دورز 🚺 Al-Manashy Doors

#### **Revision** D v8 May 2010

### Strebord 54

# FD60

Strebord 54 is also available for **FD90** applications

### Door Cores with Timber Frames

Strebord 54 has been extensively tested (85476 Pt.22) for FD60 fire door applications and may be used as a general door core where heavier duty performances are required. Acoustic Door Applications: With additional sealing Strebord 54 can provide for sound attenuating performances between Rw.29d8 & Rw.35d8.

#### Single Leaf Doorsets



**Double Leaf Doorsets** 







oonryr d moent r Suoalir n



Nembership No. 064056

Strebord® cames either FSC\* or PEFC certification, subject to availability.

Configuration	Maximum leaf height	Maximum leaf width	Notes
Unlatched single action single leaf doorset	2455 mm	1080 mm	Hardwood frame of Min. 640Kg/M <sup>3</sup> density
Double action single leaf doorset	2455 mm	1080 mm	Hardwood frame of Min. 640Kg/M <sup>3</sup> density
Latched single action single leaf doorset	2505 mm	1105 mm	Hardwood frame of Min. 640Kg/M <sup>3</sup> density
Unlatched single action single leaf doorset with flush overpanel	2355 mm	1 030mm	Hardwood frame of Min. 640Kg/M <sup>3</sup> density Max. height of overpanel = 2000mm
Double action single leaf doorset with flush overpanel	2355 mm	1 030 mm	Hardwood frame of Min. 640Kg/M <sup>3</sup> density Max. height of overpanel = 2000mm
Latched single action single leaf doorset with flush overpanel	2405 mm	1 055 mm	Hardwood frame of Min. 640Kg/M <sup>3</sup> density Max. height of overpanel = 2000mm

#### Double Leaf Doorsets - FD60 Fire Door Applications\*

Configuration	Maximum leaf height	Maximum leaf width	Notes
Unlatched single action double leaf doorset	2330 mm	1017 mm	Hardwood frame of Min. 640Kg/M <sup>3</sup> density
Double action double leaf doorset	2330 mm	1017 mm	Hardwood frame of Min. 640Kg/M <sup>3</sup> density
Latched single action double leaf doorset	2380 mm	1042 mm	Hardwood frame of Min. 640Kg/M <sup>3</sup> density
Unlatched single action double leaf doorset with flush overpanel	2155 mm	930 mm	Hardwood frame of Min. 640Kg/M <sup>3</sup> density Max. height of overpanel = 1500mm
Double action double leaf doorset with flush overpanel	2155 mm	930 mm	Hardwood frame of Min. 640Kg/M <sup>3</sup> density Max. height of overpanel = 1500mm
Latched single action double leaf doorset with flush overpanel	2205 mm	930 mm	Hardwood frame of Min. 640Kg/M <sup>3</sup> density Max. height of overpanel = 1500mm

\* NOTE Approved application dimensions vary according to the size/type and configuration of intumescent seals. See Strebord Technical Manual v8 for further information.

#### Glazing limitations FD60 Doorsets

Max. glazing area per leaf	Min. dim. from any edge to nearest sight line of aperture	Min. dim. between sight line of adjacent apertures		
0.72 M <sup>2</sup>	100 mm	80 mm		

Whist every care has been taken to ensure that the information in this leaflet is correct and up to date, it is not intended to form any part of a conduct or give rise to collateral liability, which is hereby specifically excluded. Falcon Panel Products Ltd reserve the right to amend the range of products and services without notice. It in intended only as a guide and designers and specifiers should themselves be satisfied of Strebord's suitability for their design or structure. © Falcon Panel Products Ltd. 2010.

Contact us for more information				٧	www.falconpp.co.uk	
	Head Office	Tilbury Depot	T	01375 487 300	٤	tilbury@falconpp.co.uk
12	Falcon Panel Products Ltd Clock House, Station Approach	Nottingham Depot	Т	011 5 919 2000	E	nottingham@falconpp.co.uk
5 1	Shepperton, Middlesex	West Bromwich Depot	ी	0121 525 8844	E	westbrom@falconpp.co.uk
FALCON	TW17 BAN T 01932 256 580	Haydock Depot	т	01744 416 600	E,	haydock@falconpp.co.uk
-PANEL PRODUCTS LTD-	E sales@falconpp.co.uk	Leeds Depot	т	0113 887 2222	E	leeds@falconpp.co.uk







#### FIRE DOOR CORE TECHNICAL DATA SHEET

#### COLOR

Pink

DENSITY 18 lbs /cn\_ft (+/-

18 lbs./cu. ft.(+/- 2 lbs./cu. ft.) 288 kg/m<sup>3</sup> ( +/- 32 kg/m<sup>3</sup>)

MATERIAL Man-made Vitreous Fiber

#### MOISTURE CONTENT

< 6%

#### HARDNESS

70-80 Durometers (ASTM D-2240 Type O)

#### MAXIMUM SERVICE TEMPERATURE

1,900 F (1,040 C)

#### THERMAL CONDUCTIVITY

Btu-in./h	r-ft <sup>2</sup> -°F	W/m·	<u>-C</u>
400 F	0.62	204 C	0.089
800 F	0.90	430 C	0.129
1,000 F	1.1	540 C	0.158
1,300 F	1.31	690 C	0.188
1,500 F	1.38	801 C	0.198

LINEAR SHRINKAGE hours @ 1,900 F < 1.5% 24

#### COMPRESSIVE STRENGTH @ 10% Compression

No Reheat 96.64 psi (13,916 psf hours @ 1,900 F 6.52 psi (939 psf 24

MODULUS OF RUPTURE Ambient 109.1 psi After 12 hour soak @ 1,900 F 29 psi



TECHNICAL DATA SHEET OF WARMSPRING COMPOSITE PRODUCT (BRITISH STANDARD)

المناشـــي دورز 📔 Al-Manashy Doors



PO Box 906, Warm Springs, Oregon 97761

### Profile Ready Door Core

Product Features and Specifications Interior Use Only						
Description	Warm Springs 60 and 90 minute profiled fire rated door core is a mineral composite certified for use in profiled molded skin doors. Doors produced are rated up to 90 minutes in positive pressure applications and may be either Category A or B, depending on the stile and rail construction.					
Door Thickness	1-3/4"					
Size Table	Single Pair	45 Min 3/0 x 8/0 6/0 x 7/0	ITS 60 Min 3/0 x 8/0 6/0 x 7/0	90 Min 3/0 x 7/0 Not Allowed		
Allowable Skins	Minimum d	erboard, allowabl ensity - 50 pcf. panels up to 435				
Core	WSCP-412,	minimum 17/16"	thick	-		
Rails	Tectonite (minimum 2") with veneer edge band for Category B. Tectonite (minimum 2"), intumescent, and veneer edge band for Cat. A.					
Stiles	Anti-Fire Co 1" Tectonite Intumescer	omposite with wo e with wood edge at can be added f e stile required fo	ood edge band. ( e band. or Category A.	45-60 only)		
Construction	Bonded lay	up and loose lay	up allowed			
Adhesives	Multiple ad	hesives are appro	oved, check with	Warm Springs fo	or details.	
Intumescent	Palusol 100	Zero 2002 or 200	03, Fitherm PS-10	00		
Hardware	Cylindrical latch set, mortised automatic flush bolts. Mortised or surface mounted rim type fire exit hardware. Surface mounted closures. 4 point latching required for 60 minute paired openings.					
Special Conditions		onstruction mus coating within p			Springs	





#### Tectonite

#### **Product Features and Specifications**

Description	Tectonite is a grey in color mineral based panel that is used in the fire door industry for stiles, rails, blocking and other applications. It is rated up to 90 Minutes to the US Standards, and 120 Minutes to the British Standard.					
	Panel Sizes		4' X 8' & 4' X 10'			
	Moisture Conter	nt	< 6%			
	Thickness - Max/	/Min	2.125"/.5" Finished			
Specifications	Density		61-72 Lbs./Cubic Foot			
specifications	Screw Withdraw	al - Face	Exceeds WDMA I.SIA			
	Modulus of Rupt	ture (MOR)	900+ psi			
	Shrinkage - Aver	age	4.4% (ASTM EC356)			
	Compressive Str	ength	1586+ psi			
Thermal Conductivity	Bt	u-in./hr-ft <sup>20</sup> F	W/m- °C			
&	9/	46 <sup>0</sup> F 1.33	204 °C 0.089			
ŭ	16	532 <sup>0</sup> F 1.36	430 °C 1.129			
Heat Transfer	(ASTM E152) (	<sup>0</sup> F) Unexposed Surface	193 <sup>0</sup> F			
ficat fransier	Rise Abov	e Ambient 1.5" Panel	193 F			
	Composition		Reinforced mineral composite			
Characteristics	Storage Temper	ature Range	0-45°C			
characteristics	Storage Humidit	y Range	20-80%- Keep Dry			
	Fire Approvals		UL 10(c) (2009)/CAN/ULC S104-10			
	Fire Approvals Surface Adhesion	Does not require pre-treatme				
	Surface	Does not require pre-treatme Less heat transfer than compa	nt for bonding.			
Benefits	Surface Adhesion		nt for bonding. rable products			
Benefits	Surface Adhesion Heat Transfer	Less heat transfer than compa	nt for bonding. rable products peting products.			
Benefits	Surface Adhesion Heat Transfer Density	Less heat transfer than compa Less weight compared to com	nt for bonding. rable products peting products. in a finished door			
Benefits Adhesives	Surface Adhesion Heat Transfer Density Stability Tool Wear	Less heat transfer than compa Less weight compared to com Easily surfaced and very stable Easier to machine and less too	nt for bonding. rable products peting products. in a finished door I wear than comparable			
	Surface Adhesion Heat Transfer Density Stability Tool Wear Multiple adhesiv	Less heat transfer than compa Less weight compared to com Easily surfaced and very stable Easier to machine and less too products.	nt for bonding. rable products peting products. in a finished door I wear than comparable rm Springs for details.			
Adhesives	Surface Adhesion Heat Transfer Density Stability Tool Wear Multiple adhesiv Store horizontal	Less heat transfer than compa Less weight compared to com Easily surfaced and very stable Easier to machine and less too products. /// // // // // // // // // // // // //	nt for bonding. rable products peting products. in a finished door I wear than comparable rm Springs for details. ne entire panel.			
Adhesives Storage and	Surface Adhesion Heat Transfer Density Stability Tool Wear Multiple adhesiv Store horizontall Use reasonable	Less heat transfer than compa Less weight compared to com Easily surfaced and very stable Easier to machine and less too products. yes are approved, check with Wa y on even surfaces supporting th	nt for bonding. rable products peting products. in a finished door I wear than comparable rm Springs for details. ne entire panel.			

المناشب دورز 📔 Al-Manashy Doors



PO Box 906, Warm Springs, Oregon 97761

#### WSCP - 412 Fire Core

#### **Product Features and Specifications**

Description	Mineral Core is pink in color and manufactured in our plant in Warm Springs Oregon. The product is a rated core for use in 45 Minute, 60 Minute, and 90 Minute fire doors in single swing openings up to 4/0 x 8/0 and up to 8/0 x 8/0 for pair doors. Multi piece core of up to 5 parts are allowed in fire approvals.					
	Moisture Content	:	< 6%			
	Maximum Service	Temperature	1,900 <sup>°</sup> F			
	Thickness/Panel S	iize	Up To 2.125"/ 34" x 82"			
	Density		20 +/-2 Lbs./Cubic Foot			
Specifications	Hardness		70-80 Dur. (ASTM D-2440 Type 0)			
	Ambient MOR/@1	900 °F for 12 Hrs.	109.1 psi/29psi			
	Linear Shrinkage	@ 1900 <sup>°</sup> F for 24 Hrs.	< 1.5%			
	Compressive Stre	ngth at 10%	No Heat - 96.64 psi			
	Compression		24 Hrs. @ 1900 °F - 6.52 psi			
	Btu	⊢in./hr-ft <sup>20</sup> F	W/m- °C			
	40	00 <sup>0</sup> F .62	204 °C 0.089			
Thermal Conductivity	80	00 <sup>°</sup> F .90	430 °C 1.129			
mermal conductivity	1,0	000 <sup>0</sup> F 1.1	540 °C 1.158			
	1,3	00 °F 1.31	690 °C 1.188			
	1,5	00 <sup>0</sup> F 1.38	801 °C 0.198			
	Composition		Man made vitreous fiber			
Characteristics	Storage Tempera	ture Range	0-45℃			
	Storage Humidity	Range	20-80% - Keep Dry			
	Fire Approvals		UL 10(c) (2009)/CAN/ULC S104-10			
	Surface Adhesion	Low dust, does not require pre	-treatment for bonding.			
Benefits	Low Density	Very low weight compared to o	competing products.			
	Stability	Easy to sand and very stable in	a finished door			
Adhesives	Multiple adhesive	es are approved, check with Wa	m Springs for details.			
Storage and	Store horizontally on even surfaces supporting the entire panel.					
Handling	Use reasonable care in handling and transporting core.					
Availability	Only available fro	m Warm Springs Composites.				



TECHNICAL DATA SHEET OF WARMSPRING COMPOSITE PRODUCT (AMERICAN STANDARD)





#### **Profile Ready Door Core**

Product Features and Spec	cifications				Interior Use Only	
Description	Warm Springs 60 and 90 minute profiled fire rated door core is a mineral composite certified for use in profiled molded skin doors. Doors produced are rated up to 90 minutes in positive pressure applications and may be either Category A or B, depending on the stile and rail construction.					
Door Thickness	1-3/4"					
Size Table	Single Pair	45 Min 3/0 x 8/0 6/0 x 7/0	ITS 60 Min 3/0 x 8/0 6/0 x 7/0	90 Min 3/0 x 7/0 Not Allowed		
	Molded fibe	rboard, allowabl	e thickness - 1/8	" ± .015".		
Allowable Skins	Minimum d	ensity - 50 pcf.				
	Maximum 6	panels up to 435	i lineal inches of	profile.		
Core	WSCP-412, 1	minimum 1 7/16"	thick			
Rails	Tectonite (minimum 2") with veneer edge band for Category B.					
nalis	Tectonite (minimum 2"), intumescent, and veneer edge band for Cat. A.					
	Anti-Fire Co	omposite with wo	ood edge band. (	45-60 only)		
Stiles	1" Tectonite	with wood edge	e band.			
Stiles	Intumescen	t can be added f	or Category A.			
	3" Tectonite	e stile required fo	or meeting edge	of pairs.		
Construction	Bonded lay	up and loose layı	up allowed			
Adhesives	Multiple ad	hesives are appro	oved, check with	Warm Springs fo	or details.	
Intumescent	Palusol 100,	Zero 2002 or 200	03, Fitherm PS-10	0		
	Cylindrical I	atch set, mortise	d automatic flus	h bolts.		
Hardware	Mortised or	surface mountee	d rim type fire ex	it hardware.		
- Tar arran e	Surface mounted closures.					
	4 point latch	ning required for	60 minute paire	d openings.		
Special Conditions				filed and certified Warm S	springs	





#### 90 Minute Factory Profiled Door Core

Product Features and Spec	cifications Inte	erior Use Only			
Description	Warm Springs 90 minute profiled fire rated door core is a mineral composite certified for use in profiled molded skin doors. Doors produced are rated up to 90 minutes in positive pressure application and may be either Category A or B, depending on the stile and rail construction. This is an industry exclusive.	15			
Door Thickness	1-3/4"				
Size Table	ITS 90 Min Single 3/0 x 7/0 Pair Not Allowed				
	Molded fiberboard, allowable thickness - $1/8" \pm .015"$ .				
Allowable Skins	Minimum density - 50 pcf.				
	Maximum 6 panels up to 435 lineal inches of profile.				
Core	WSCP-412, minimum 1 7/16" thick				
Rails	Tectonite (minimum 2") with veneer edge band for Category B.				
Titano	Tectonite (minimum 2"), intumescent, and veneer edge band for Cat	. A.			
Stiles	1" Tectonite with wood edge band.				
54165	Intumescent can be added for Category A.				
Construction	Bonded layup and loose layup allowed				
Adhesives	Multiple adhesives are approved, check with Warm Springs for detail	ls.			
Intumescent	Palusol 100, Zero 2002 or 2003, Fitherm PS-100				
	Cylindrical latch set, mortised automatic flush bolts.				
Hardware	Mortised or surface mounted rim type fire exit hardware.				
	Surface mounted closures.				
	90 minute construction must be banded, profiled and				
Special Conditions	proprietary coating within profile applied by certified Warm Springs				
	employees.				





#### WSCP - 412 Fire Core

#### **Product Features and Specifications**

Description	Mineral Core is pink in color and manufactured in our plant in Warm Springs Oregon. The product is a rated core for use in 45 Minute, 60 Minute, and 90 Minute fire doors in single swing openings up to 4/0 x 8/0 and up to 8/0 x 8/0 for pair doors. Multi piece core of up to 5 parts are allowed in fire approvals.						
	Moisture Content	:	< 6%				
	Maximum Service	Temperature	1,900 <sup>°</sup> F				
	Thickness/Panel S	Size	Up To 2.125"/ 34" x 82"				
	Density		20 +/-2 Lbs/Cubic Foot				
Specifications	Hardness		70-80 Dur. (ASTM D-2440 Type 0)				
	Ambient MOR/@1	900 °F for 12 Hrs.	109.1 psi/29psi				
	Linear Shrinkage	@ 1900 <sup>°</sup> F for 24 Hrs.	< 1.5%				
	Compressive Stre	ngth at 10%	No Heat - 96.64 psi				
	Compression		24 Hrs. @ 1900 °F - 6.52 psi				
		-in./hr-ft <sup>20</sup> F	W/m- °C				
		00 <sup>°</sup> F .62	204 °C 0.089				
Thermal Conductivity	L	00 °F .90	430 °C 1.129				
Conductivity	1,0	000 °F 1.1	540 °C 1.158				
		00 °F 1.31	690 °C 1.188				
	1,5	00 <sup>°</sup> F 1.38	801 °C 0.198				
	Composition		Man made vitreous fiber				
Characteristics	Storage Tempera	ture Range	0-45°C				
	Storage Humidity	Range	20-80%- Keep Dry				
	Fire Approvals		UL 10(c) (2009)/CAN/ULC S104-10				
	Surface Adhesion	Low dust, does not require pre	-treatment for bonding.				
Benefits	Low Density	Very low weight compared to c	competing products.				
	Stability	Easy to sand and very stable in a	a finished door				
Adhesives	Multiple adhesive	es are approved, check with War	rm Springs for details.				
Storage and	Store horizontally	on even surfaces supporting th	e entire panel.				
Handling	Use reasonable care in handling and transporting core.						
Availability	Only available fro	m Warm Springs Composites.					

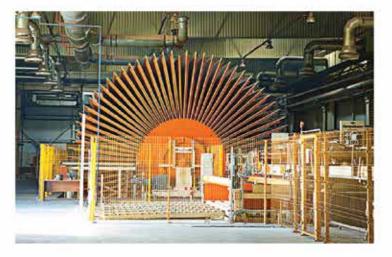


TECHNICAL DATA SHEET OF SEGAMAT PANEL BOARD (SPB)





## **Company Profile**



SPB PRIME is manufacturer of Plain Particle Board (SPB PRIME CO., Ltd.) and Medium Density Fiber Board (SPB PRIME MDF Co., Ltd.).

We located at 1/31 Moo 3, Mabyai Road, Tambol Tangkwean, Amphur Klaeng, Rayong 21110 THAILAND.

SPB PRIME Co., Ltd. established in year of 1995, is a leading Particle Board manufacturing company with 27,000 CBM monthly (sale on 1996) and 324,000 CBM annually capacity. SPB PRIME MDF Co., Ltd. established in year of 2012 is a leading Medium Density Fiber Board manufacturing company with 21,392 CBM monthly and 256,700 CBM annually (sale on 2013) capacity. Both company equipped with state-of-art German machineries (SIEMPELKAMP) and advanced technology which are auto-machine control full system.

SPB PRIMECo.,Ltd. and SPB PRIME MDF Co.,Ltd. are operating with strong-powerful R&D in production and advance engineering, which enable to become one of the leading PB & MDF manufacturer in Thailand with total staff of 485 lifes.

Only utilizing the best quality raw materials that meet International Standards, with factories, SPB PRIME Co.,Ltd. has total production capacity of 324,000 CBM per year and SPB PRIME MDF Co.,Ltd. has capacity of 256,700 CBM per year to meet the customer's satisfaction and which is certainly guaranteed by continual improvement, input of new decors and product features to meet the versatile industry worldwide demands without compromising the quality.

The product range, SPB PRIME Panel Co., Ltd. products are Particle Board in various sizes i.e. 8 mm - 40 mm (4'x6', 4'x8', 5'x8', 6'x8') and Rayong MDF Co., Ltd. products are Medium Density Fiber Board in various sizes i.e. 2.5 mm - 38 mm (4'x6', 4'x8', 5'x8', 6'x8') with product grade from E2, E1 to E0 and CARB P1, CARB P2, so to meet the customers' particular requirements.

Beside the central Sales and Marketing office located in Thailand, Rayong Panel Co., Ltd. and Rayong MDF Co., Ltd. has partners acting as its agent to promote high quality products into Taiwan, Hong Kong, China, Korea, Indonesia, Singapore, Malaysia, Philippines as well as Australia.

The capital (1,700,000,000 BATH/ 49Million USD of Rayong Panel Co.,Ltd. and 2,000,000,000 BATH/ 60 Million USD of Rayong MDF Co., Ltd.) and experience in wood based industries globally will enable Rayong Panel Co.,Ltd. and Rayong MDF Co.,Ltd. to continue to excel and strengthen its market leadership position.

Management System Certification



Product Certification



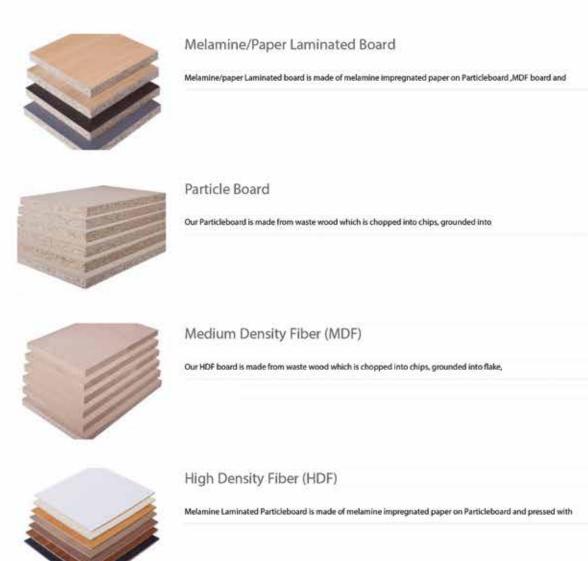
Certificate No.: TPC2/CARB-ATCM/0721265-1







## Products



Management System Certification



**Product Certification** 



Certificate No.: TPC2/CARB-ATCM/0721265-1





## SPB ADVANCE (HIGH MOISTURE RESISTANCE) MDF TECHNICAL SPECIFICATION GUIDELINE



Ref.	Properties	Test Method	Unit	Tolerance			Thi	ckness Range (n	nm)		
Ref.	Properties	Test Wethou	Unit	Tolerance	≤ 2.5	≤ 2.5 > 2.5 - 4.0 > 4.0 - 6.0 >			> 9.0 - 12.0	> 12.0 - 19.0	> 19.0 - 25.0
1.0	Thickness	EN 324-1	mm			± 0.2 mm ±					± 0.3 mm
2.0	Size ( Length / Width )	EN 324-1	mm	(± 3)				± 3			
3.0	Squareness	EN 324-2	mm	(Max)				2mm/m			
4.0	Density	EN 323	kg/m <sup>3</sup>	(Ave)						720 ( ±20 )	700 ( ±20 )
5.0	MOR	EN 310	N/mm²	(Ave)		3	0		2	28	24
6.0	MOE	EN 310	N/mm²	(Ave)	27	00	2500		2200		2100
7.0	Internal Bonding	EN 319	N/mm²	(Ave)		0.3	70		0.	.65	0.60
8.0	Thickness Swelling	EN 317	%	(Ave)		17		1	12	1	.0
9.0	Ave Moisture Content	EN 322	%	(Ave)	4 to 11						
10.0	Internal Bonding after Cyclic Test	EN 321 EN 319	N/mm²	(Ave)	0.35 0.30 0.25 0.20				0.15		
11.0	Thickness Swelling after Cyclic Test	EN 321 EN 317	%	(Ave)		40		22	:	17	15



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## SPB SUPERIOR (HIGH DENSITY) MDF TECHNICAL SPECIFICATIONS



Ref.	Properties	Test Method	Unit	Rang	es of nominal thickness	(mm)	
Rel.	Properties	Test Method	Unit	≤ 3.5 mm	> 3.5 mm ~ 5.5 mm	> 5.5 mm	
1.0	Density	EN 323	kg/m³	900	880	850	
2.0	Thickness	EN 341-1	mm	+/- 0.3	+/- 0.5	+/- 0.5	
3.0	Size ( Length / Widt	EN 341-1	mm	± 2mm/m, maximum ± 5mm			
4.0	Squareness	EN 341-2	mm/m		2		
5.0	Bending Strength	EN 310	N/mm²	30	30	30	
6.0	Internal Bond	EN 319	N/mm²	0.50	0.50	0.50	
7.0	Thickness Swelling	EN 317	%	17	17	17	



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### SPB PRIME (MDF) TECHNICAL SPECIFICATIONS

Specifications for Thickness Ranges Available

(Revise Date : 12 November 2018 (Rev. 06)



Ref.	Properties		Unit	≤2.5mm	> 2.5mm ~ 4.0mm	> 4.0mm ~ 5.0mm	> 5.0mm ~ 6.0mm		
10	Thisbass	Unpolished	mm	+/- 0.5	+/- 0.5	+/- 0.5	+/- 0.5		
1.0	Thickness	Polished	mm	+/- 0.3	+/- 0.3	+/- 0.3	+/- 0.3		
2.0	Size ( Length / Width )		mm	+/- 3.0	+/- 3.0	+/- 3.0	+/- 3.0		
3.0	Squareness (per meter leng	th )	mm	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0		
4.0	Density		kg/m <sup>3</sup>	≥ 740	≥ 740	≥ 730	≥730		
5.0	Bending Strength		kgf/cm <sup>2</sup>	≥ 250	≥ 250	≥ 250	≥ 250		
5.0	bending strength		N/mm <sup>2</sup>	≥ 25	≥ 25	≥ 25	≥ 25		
6.0	Internal Bond		kgf/cm <sup>2</sup>	≥ 5	≥ 5	≥ 5	≥ 5		
0.0	internal bond		N/mm <sup>2</sup>	≥ 0.5	≥ 0.5	≥ 0.5	≥ 0.5		
7.0	Thickness Swelling	JIS	%	≤ 17	≤ 17	≤ 17	≤ 17		
/.0	mickness swelling	EN	%	45	35	30	30		
8.0	Average Moisture Content		%	5~13	5~13	5~13	5~13		
9.0	Formaldehyde Emissions			<u>JIS (Desiccator Method)</u> <u>Average</u> F ☆☆☆ 0.3mg/l F ☆☆☆ 0.5mg/l F ☆☆ 1.5mg/l	EN (Perforator Method) E1 ≤ 8mg/100g E2 ≤30mg/100g	CARB ATCM <u>§93120.2(a)</u> P2 0.13ppm			
10.0	Appearance		a) Top surface of the fibreboard shall be free from noticeable unevenness, staining, separation, twisting and warping. b) Bottom surface shall be free from deep scratch, dented and bulging. c) The sectional surface of the fibreboard shall be excellent, and the side surface shall be orthogonal to the plane of the board. d) Where the raw material is Tropical Mixed Woods, the finished products MUST be 100% free from Latex Spot.						

Management System Certification





Certification No.: MY 05/00590

Certification No.: MY 05/0150



BMH EPA Certificate No.: TPC 2/EPA/ 0721265 BMH CARB Certification No. : TPC 2/CAR8/ 0721265 Prepared by

Approved by

Hasyimah Bt. Hassan N. Agustheer Junior QA Manager Sr. Production Manager Managing Director

Checked by

Peter Fitch

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## SPB DEFENDER (FIRE RETARTDANT) MDF TECHNICAL SPECIFICATIONS GUIDELINE



DEFENDER

Ref.	Properties	Test Method	Unit	Tolerance			Thi	ckness Range (n	nm)		
	Toperates	rest method	onic	Tolerance	≤ 2.5	≤ 2.5 > 2.5 - 4.0 > 4.0 - 6.0 > 6.0 - 9.0 > 9.0 - 12.0				> 12.0 - 19.0	> 19.0 - 25.0
1.0	Thickness	EN 324-1	mm		± 0.2 mm ± 0.3 mm					± 0.3 mm	
2.0	Size ( Length / Width )	EN 324-1	mm	(± 2)		± 2					
3.0	Squareness	EN 324-2	mm	(Max)	2mm/m						
4.0	Density	EN 323	kg/m <sup>3</sup>	(Ave)		760		74	10	70	0
4.0	Density	LN 323	кулп	(Ave)		(±20)		( ±2	20)	(±2	20)
5.0	MOR	EN 310	N/mm²	(Ave)			30			2	8
6.0	MOE	EN 310	N/mm²	(Ave)	2500 2200					2200	
7.0	Internal Bonding	EN 319	N/mm²	(Ave)	0.70 0.65				55		
8.0	Thickness Swelling	EN 317	%	(Ave)		≤17		S	12	≤1	0

Remark: The above specifications are available in Class 1 and Class 0 rating.



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## SPB BASIC & SPB MINOR (MDF) TECHNICAL SPECIFICATIONS

Specifications for Thickness Ranges Available ( ≤ 6.0MM)



Ref.	Properties		Unit	SPB Basic	SPB Minor
1.0	Thickness	Unpolished	mm	± 0.7	± 1.0mm
1.0	THICKIESS	Polished	mm	± 0.5	11.000
2.0	Size ( Length / Width )		mm	± 5.0	± 10.0mm
3.0	Squareness (per meter leng	;th )	mm	≤ 10.0	max 20mm
4.0	Density		kg/m³	≥ 680	min 600
5.0	Bending Strength		kgf/cm <sup>2</sup>	≥ 280	min 250
5.0	N/m		N/mm²	≥ 28.0	11111 250
6.0	Internal Bond		kgf/cm <sup>2</sup>	≥ 5.0	min 3.0
0.0	internal bonu		N/mm²	≥ 0.5	1111 3.0
7.0	Thickness Swelling		%	≤ 25	≤ 30
8.0	Average Moisture Content		%	5~13	≤13
9.0	0 Formaldehyde Emissions			Not Applicable	Not Applicable

Issued Date : 11 July 2008



TECHNICAL DATA SHEET OF TOLKO INTERNATIONAL



Tolko is a leading manufacturer of a wide range of forest products for customers around the world. For more than 60 years, Tolko has earned a reputation of being reliable, consistent, and easy to do business with.

This family-owned company believes that with effort and focus comes the possibility of success. Over the past 60 years, Tolko has stayed true to its early beginnings and the values of the Thorlakson family.

Fundamental to our success is a committed workforce that thrives on change, building relationships, and a drive toward excellence. The industry has dramatically changed since Tolko's beginnings in 1956, but our journey remains guided by the same values and strategic business sense instilled throughout the years.



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#### **OPERATIONS**

Tolko's lumber, plywood and OSB operations are located in the abundant forests of Western Canada and extend into the Southern Yellow Pine forests of Louisiana in the United States of America.

Tolko's commitment to the highest quality standards extends across all of our products. Our mills are focused on manufacturing consistent products, and our sales representatives are dedicated to providing you with customer service you can count on.





#### TOLKO MAKES EVERY EFFORT TO MANAGE FOREST LAND IN A PROFESSIONAL AND SUSTAINABLE MANNER. TOLKO'S CURRENT FORESTRY CERTIFICATIONS INCLUDE:

 Sustainable Forest Initiative (SFI)
 All our mills are Chain of Custody certified to the Programme for Endorsement of Forest Certification Schemes (PEFC) CoC standard. These internationally accepted standards are independently audited to ensure conformance and

transparency, and are recognized by governments

and customers around the world.

This is your assurance that our products have been

sourced from forests that are managed to the highest

international standards while meeting the needs

#### TOLKO'S 3RD PARTY CERTIFICATIONS MEET OR EXCEED INTERNATIONAL STANDARDS AND ALLOW OUR CUSTOMERS TO ACHIEVE BUILDER CREDITS FROM A BROAD RANGE OF GREEN BUILDING PROGRAMS.

#### ENVIRONMENTAL STANDARDS

Tolko's products meet the strictest environmental standards. Our panel products meet all national and

international requirements for formaldehyde air emissions (including California, North American, European

and Japanese standards). Our wood products are heat treated to attain phytosanitary certificates for

#### importing countries.

#### **CHAIN OF CUSTODY CERTIFICATION (COC)**

The raw materials used in Tolko products can be traced from the forest to our customers through our Programme for Endorsement of Forest Certification (PEFC) Chain of Custody system. This provides assurance of the legality and sustainability of the resources used to manufacture our wood products. PEFC is a recognized Chain of Custody program under the LEED Standards.

#### SUSTAINABLE FOREST MANAGEMENT (SFM) CERTIFICATION

Tolko's Forest Management activities are conducted to Sustainable Forest Management standards as certified

by the Sustainable Forestry Initiative (SFI). These standards are internationally endorsed by PEFC. PEFC is the world's largest forest certification system and is accepted worldwide by organizations, governments and customer procurement programs.

#### TOLKO IS A COMPANY THAT LIVES FOR TODAY BUT PLANS FOR OUR FUTURE!

Tolko is committed to the well-being of future generations through responsible environmental performance.



#### SERVING OUR INTERNATIONAL CUSTOMERS

Tolko is focused on delivering products that meet your high expectations. Quality and consistency are our key words and everyone, from our front-line mill workers to our sales and marketing team, understands that bringing you consistent products is our top priority!

Our international sales and marketing team focuses on building and sustaining long-term partnerships with our customers around the world.

With Tolko as your partner, you have a team committed to understanding your business. We have the solutions, service and market knowledge to meet your business needs. Your success is our success! We continue to target and grow our export markets through reliable supply, responsive selling and collaborative business solutions. Our logistics team is second to none and can arrange to ship our wide range of forest products to you in a timely manner. At Tolko, our team is your team and we always deliver on our commitments!

#### SERVING THE WORLD

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1 St. S. March

At Tolko, we are focused on delivering consistent products and building new, long-term partnerships around the world.

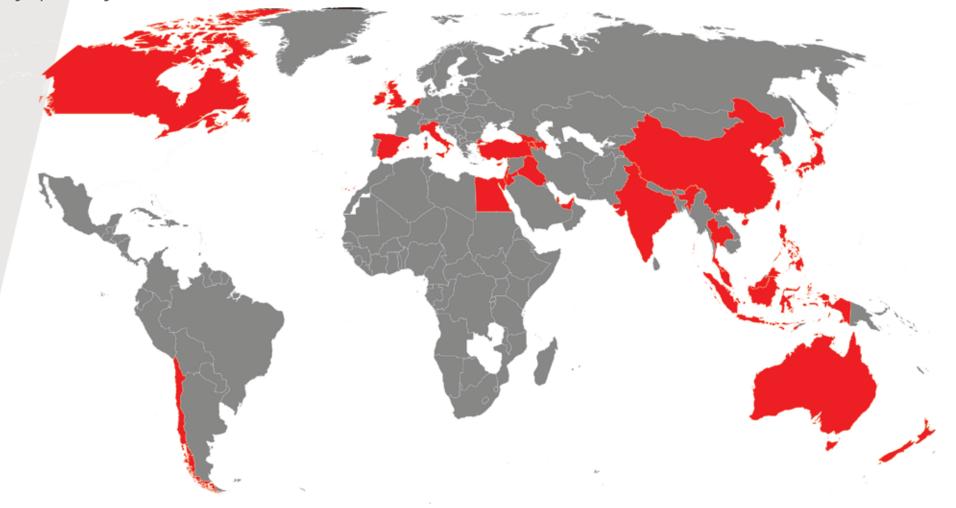
We offer 60 years' worth of solutions, service and market knowledge to meet your needs. With Tolko you have a partner committed to understanding your business and providing support.

> LUMBER OSB PLYWOOD



#### TOLKO'S GLOBAL REACH

Through our strong network of sales representatives, we are able to supply a wide range of products and grades to meet the diverse needs of our customers.



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#### LULU ISLAND TERMINAL

Al-Manashy Doors

المناشي دورز

Providing solutions that work



At Tolko, we know that quality is important to our customers and that's why we store our products at Lulu Island Terminal. Established in 2012, Lulu Island Terminal is an all-inclusive warehousing and transportation solution. The facility features 19,000 square metres of indoor storage space, offering protection from BC coastal weather to ensure cargo reaches its final destination in the same optimal condition. With a flexible and reliable logistical network, Lulu Island Terminal delivers consistent shipments to local and overseas customers.



#### LOGISTICS - KEEPING MOMENTUM

Getting products to you when you need them Our logistics team is responsible for coordinating logistics and transportation associated with the sale of our products to national and international markets. Each team member is accountable for cost-effective, timely and safe movement of product to our customers. Our logistics team works to ensure on-time shipments and to deliver excellent customer service. Tolko has a flexible and reliable logistical network to provide high levels of service. We work closely with our mills, reload facilities, trucking companies and shipping carriers to ensure that our wood products are delivered on time all over the world.



المناشب دورز 🚺 Al-Manashy Doors

	Mill	Species	Grade	Size.1	614 - L	Longth a	u	
_		1.00	and the second se	8088	31			
	Kelowina -	584	SPF J Grade, & Grade, #2NBt: Stud, Economy	28464, 38487	243,244	Shorts (1524, 1829, 21342)	Shorts 83.4.771	
	NEROWITA	Firlack	SPF J-Grade, A-Seade, #25Bit, Stud. Rosemy	35,140	246	2438.2743 mill.	6,9 mill	
1111	Soula Creek	SHIDN	J-Grade, A-Grade, #28.0t; Stat Economy, Finger Joint Stats	30x64,30x89, 30x148	2x3,2x6, 2x6	Shorta (1524, 1629, 2134) 2438, 2743, 3048 evill	Shorts (5, 4, 7) 10 8, 9, 10 mill	
Conus		SPE	SPE J-Grade, A-Grade, #28/8tr; Skut, Economy					
W.:	Armstrong	Fir Lorth	Fir Laish #18.0tr #268tr Stud Economy	35+64, 38+89	2x3, 2x6,	Shorts (1526, 1629, 2134)1	Shorts (5, 6, 7/1 II, 9 mill.	
		Henlock	Hernicoli A Grade. #2888x, Stud. Economy	- 28x140	200	2438,2743.mit	1, 7 000.	
		SH	VS Chars, J Grade, A Grade, Promiane, #218b; #2 Kito Web, #3, Economy					
	Lawington	0-fr Larch	VG Cleans, J-Grade, Select Structural, MSR 1900, MSR 2250, MSR 2400, #2458: #2 Kiln Weta, #3, Sconerry	39x64 to 38x285	2x3 to 2x12	1829 4: 6045	é te 20	
2			A Grade, #2558r, #2 Kiln Wols, #3, Soonerry					
UNING	Vice Party	SPF	J-Snude, A-Grade, MSR 1650, MSR 1950, MSR 2100, Premium, #288b; #2 Kiln Wets, #2 Economy	20sta te	2x3 to 2x10	1829 10 4274	e to 20	
DIVENSE	Lakeview	0.04	J-Grade, Select Structural, MSR 1000-1952, MSR 2420, K258hr, 42 Kiln Web, 43, Economy	98-235	004			
7	High Level	399	J-Grade, A-Grade, Promium, #2538r, #2 Kiln Wets, #3, Economy	38x64 te 38x235	2x0 to 2x10	1829 10 4016	A to 20	
	Quesnel	\$FF/D-fP	A-Grade, MGH 1400/2100, Premium, #2538tr #2 Kills Wets, #3, Economy	38544, 38x897. 35x140	2x3.2x4, 2x6	1829 \$5.60%	é te 20	



Deversion Lumber





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WESTERN SPE DOUGLAS FIR, HEM-FIR Sold Study DOUGLAS FIR & LARCH Desvector Lumber

#### OSBortentert Strand Societ)

Product		Thickness (b)	Lengths out	Widths	Grading Standard	Zinc Borate
117000 CS	Stauthing	3/8, 7/16, 15/32, 1/2, 19/32, 25/32, 7/8, 1-1/8	点腹梁 8월 12. 14. 76. 26	AT .	1952	Dpbonel
P(TRAND Pm Beathing	058 Ser 1	3/8.15/32,1/2,1W32,5/8,23/22	6, 6, 9, 10, 12, 14, 16, 26	4,8	P52	Optional
19880 058	T&G Subfloor	19/32, 23/32, 7/8, 1-1/9	8, 10, 12	A' Full & scent face available	P52	Optional
SIMANDES	OSB TIGS Subfroor	19/32, 23/32, 7/8, 1-1/8	8, 10, 12	4' Full & scent face available	PS2	Optional
REP. OWNER	UsiRty Panels	164/2		1	N/A	Optional
STRAND THE	OSB RV Flooring	5/8, 15/32, 19/32, 23/32	24 Castom cuts	26 Custom cuto	PSZ	Optional
	OS8 S81 Reven	TTIA	16,24 Existion cuts	Né, 24 Custors cuts	PSZ, PRI-NATA	Dption#
	OSB Webstack	25/64, 25/66	Castore cuts	Custom cuto	P52	Optional
CIER IRMA NOVARO		1.08,6.04	12,24	\$-172', 11.748', 14', 16', 18', 20', 27', 26'	Rim Board Plus, ANSI/ APA PRR: 416, PRR: 401, COHC 13238-L	. NA

#### PLYWOOD

Species	Length & I	main	Thickn	1055.		ade Stamp
	1000		1009	100	Criels	U3.(P5 X-008
<b>DEPART</b>	1220 + 3440	Av8	153 185 255	19/32, 29/32, 31/22	CSA 0121 Cantore	CC PTS (U/L) Scent Fece 186
CSPS (SFP/F#	1220 × 2440	44	155, 185, 251	14/32, 23/32, 31/32	CSA 0121 Custom	CD PTS 6XL) Scent & Full Face T&O
DFP/Fe	1220 x 2440	40	12.5, 15.5	15/32, 19/32	C54,0121	CC P75
DEP/Fir.	1220 x 2440	ы	18.5	23/32	C54.0121	CC PTS
DEPVER	1229 + 2440	ad	75.125.355, 185.255	3/8, 1/2, 5/8 3/4, 5	C54.0121	CD PTS
<b>DEP/EX</b>	1220 x 2440	ad.	13-255	11/32 - 31/32	CSA (0121	CC PTS
DFP/Fe	1720 x 2640	64	7.8 ectael	5/16	P	BCPTSA S1 Uniterlayments
DEDVER	1229 × 2440	48	78 act. Nom thick + 9 Sevin	8/16	CSA 0121	OC PTS
OFFNER	1720 x 2640	a.d	80.114,14.6	11/32, 15/32, 19/32, 19/32	CSA 0121	CC PTS
	CSP3 (FP/S+ DFP/S+ DFP/S+ DFP/S+ DFP/S+ DFP/S+ DFP/S+	GEP67         1228 + 3440           GEP67         1220 + 3440           GEP67+         1220 + 3440           DEP16+         1220 + 3440	GFP/F#         T220 x 2440         Avit           CDP3 (FP)F#         1220 x 2440         4x8           DFP/F#         1220 x 2440         4x8	GFP0Fw         TZ20 × 3440         Av8         153, 183, 755           GFP0Fw         TZ20 × 3440         4v8         153, 183, 755           GFP0Fw         TZ20 × 3440         4v8         155, 185, 755           GFP0Fw         TZ20 × 2440         4v8         175, 155           GFP0Fw         T220 × 2440         4v8         183, 5           GFP0Fw         T220 × 2440         4v8         183, 5           GFP0Fw         T220 × 2440         4v8         183, 5           GFP0Fw         T220 × 2440         4v8         18, 5           GFP0Fw         T220 × 2440         4v8         7, 8 wm           GFP0Fw         T220 × 2440         4v8         5, 114, 14, 4	GFP/Fire         T220 x 2440         Avel         155, 185, 285         19/22, 29/22, 31/22           GFP/Fire         1220 x 2440         4x8         155, 185, 285         19/22, 23/22, 31/22           GFP/Fire         1220 x 2440         4x8         155, 185, 285         19/22, 23/22, 23/22, 23/22, 23/22           GFP/Fire         1220 x 2440         4x8         125, 185         18/22, 19/32           DFP/Fire         1220 x 2440         4x8         185         23/32           DFP/Fire         1220 x 2440         4x8         18, 125, 155, 36, 126, 126         36/4, 1           DFP/Fire         1220 x 2440         4x8         18, 22, 55         31/2, 126         3/4, 1           DFP/Fire         1220 x 2440         4x8         15, 25, 155, 36, 11/2, 167         3/4, 1           DFP/Fire         1220 x 2440         4x8         15, 25, 55         3/4, 1         3/4, 1           DFP/Fire         1220 x 2440         4x8         7, 8 mm, 100, 16, 12         3/10         3/10           DFP/Fire         1220 x 2440         4x8         7, 8 mm, 100, 16, 14         5/10         5/10           DFP/Fire         1220 x 2440         4x8         7, 8 mm, 100, 16, 14         5/10         5/10           DFP/Fire	GFP/FF         1220 x 2440         Aufl         15.5, 18.5, 25.5         19/22, 29/22, 91/22         CSA 0121 Contern 201/22           CSP/FF         1220 x 2440         4x8         15.5, 18.5, 25.5         19/22, 29/22, 201/22         CSA 0121 Contern 201/22           CSP/FF         1220 x 2440         4x8         15.5, 18.5, 25.5         19/22, 19/32         CSA 0121 Contern           DSP/FF         1220 x 2440         4x8         12.5, 15.5         56/22, 19/32         CSA 0121           DSP/FF         1220 x 2440         4x8         18.5         23/02         CSA 0121           DSP/FF         1220 x 2440         4x8         75, 15.5         31/8, 1/2, 5/8         CSA 0121           DSP/FF         1220 x 2440         4x8         75, 15.5         31/8, 1/2, 5/8         CSA 0121           DSP/FF         1220 x 2440         4x8         75, 15.5         31/8, 1/2, 5/8         CSA 0121           DSP/FF         1220 x 2440         4x8         78 ental         5/1A         p           DSP/FF         1220 x 2440         4x9         78 ental         5/1A         p           DSP/FF         1220 x 2440         4x9         5.136, 14.4         11/22, 15/72         CSA 01/21

Standed orgitability Existent B



185/Square Edge



T&G/Square Edge



TTEC 1.51. ToB up to 1-3% Laminuted Stand Lumber

#### LSL(Laminated Strand Lumber)

Product	Application	E-Rating	Thickness and	Zinc Borate
THELE	Beam, Header, Just Stat, hit Plain, Him Board	1.35 E 1.55 E	3-1/2, 1-3/4, 1-1/2, 1-1/4	Opponal
Antoles, R. Jonat	Concrete Lidge Form, Dos Springs, Upholatered Farinture, Packaging, Milheerk, Danis & Windows, RV Stick-outs			Optional

#### SPECIALTY

Finger Joint Studi

Product				
Tanàna	Sinni: 21x3" - 12"x12" and larger Lengths, up to 29"	Species: D. Fr. Western tands, Engelmann spruce, Lodgepole pine, Western herritock	Grades: 16.0A paragraph 130/131, FOHC, Salact structured, Clear	Grades NLSA party of 138/131, FCHC, Select structural, Clear
Pooler Conro	Cere Sizes: 335' Diameter Rounds: 102" - 103"	Species: D. fir and SPF	Packaging Round Cores: 147 a Packaging 2x7: 255 piece packa	
Remanufacturing		cing, Pallet Components, Furring Strips, of 5 ONI. Transmiss and Brown Casability	Fruit Bills and Boms, Grooved D	unnage, Certified Durmage, B

AS products are subject to availability 05 2018



## COUNTRY OF ORIGIN

المناشب دورز Doors المناشب دورز

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#### TRANS-PAC MIDDLE EAST TRADING INC.

Suite 563, 34A - 2755 Lougheed Hwy, Port Coquitlam, BC V3B 5Y9 Canada TEL: (604) 944-8422, FAX: (604) 944-8477

#### CERTIFICATE OF ORIGIN

This is to certify that the following goods are ORIGIN of CANADA. And, the name and address of manufacturer or producer and the exporter are given as below.

EXPORTER: (AS DOCUMENT HANDLER) EXPORTING COUNTRY: TO:	TRANS-PAC MIDDLE EAST TRADING INC. Suite # 563, 34A - 2755 LOUGHEED HWY, PORT COQUITLAM, BC V3B 5Y9 CANADA CANADA GHABAH TIMBER EST., P.O.BOX 41636, RIYADH 11531, SAUDI ARABIA.
THE NAME AND FULL ADDRESS (AS SHIPPER)	OF THE MANUFACTURER: TOLKO MARKETING AND SALES LTD. PO BOX 39, 3000-28 <sup>TH</sup> ST. VERNON, BC, CANADA
VESSEL NAME:	MSC SASHA - MC902R
SHIPMENT DATE:	JANUARY 15th, 2019
COMMODITY DESCRIPTION:	CANADIAN SOFTWOOD LUMBER S4S KD.
QUANTITY:	Total 30 packages, 3,000 PIECES.
TOTAL VOLUME:	Gross: 149.440 cbm, Net: 103.681 cbm
CARGO WEIGHT:	45,284 KGS, 45.284 M/T.
SHIPPING MARK(S):	MADE IN CANADA
DESTINATION:	DAMMAM Port, SAUDI ARABIA
	NT 2000

MA-3002 ...

Commercial Invoice:

The Greater Langley Charder of Contributes, a recognized Chamber of Commerce in Canada incorporated under the Board of Trade Act, a statute of Canada, hereby certifies to the best of its knowledge and beliefs that the origin of the goods is as described herein.

Dated at Langley, BC 2019. This O day of 6 1 The Greater Langley Chamb of Commerce ۰.

TRANS-PAC MIDDLE EAST TRADING INC.

1/31 MOO 3. MAPYALR	IABAH TIMBER EST. ITRIAL AREA PRINCE SALMAN P. 0. BOX 41636 RIYADH 11531 XOM OF SAUDI ARABIA			CERTIFICATE NO.	ORIGINAL	
2. CONSIGNEE AL-GHABAH TIMBER ES INDUSTRIAL AREA PRIM				CERTIFICATE OF ORIGIN ISSUED BY THE THAI CHAMBER OF COMMERC BANGKOK, THAILAND		
4. VESSEL/FLIGHT NO. LUCKY MERRY V.0898 /	HYUNDAI HONOUR V.013W	5. DESTINATIO DAMMAM, SAU		8. INVOICE NO. & DATE RM004/01/19 JANUARY 26, 2019		
6. LOADING ON OR ABO FEBRUARY 02, 2019	тис	7. COUNTRY OF THAILAND	FORIGIN			
9. MARKS	1	0. DESCRIPTIONS	8	11. QUANTITY	12. GROSS WEIGHT	
MADE IN THAILAND	CAXUB108870, DFSU624680	HMR BIA 2232,BMOU5175786 2,DRYU9087508,D 157,SEGU5800880, 2,TRLU7132290	5,BMOU5219328,BSIU9630029 RYU9183190,GLDU9977156, TCKU9821327,TCLU4888705,	204 BUNDLES	N.W.397,360.000 KGS G.W.410,880.000 KGS	
The second second second second second second	authorized by the company, o ds originate in the country s UARY 04, 2019		14. CERTIFICATION Hash value : 60804a9a18dt The undersigned hereby ce other supporting document the country shown in box 7 This is issued at Bangkok o	rtifies on the basis of s that the above-ment to the best of its knowle	information supplied and ioned goods originate in adge and belief.	

المناشب دورز 🔰 Al-Manashy Doors

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140 Paya Lebar Road, #10-04/05 AZ@Paya Lebar, Singapore 409015 Tel No. 65 62266939 Fax No. 65 67023428 Email: EM@easternmktg.com.sg

κ.	F	PACKING	LIST		
DATE	: 11.12.18				
APPLICANT	: AL GHABAH TIMBER ES INDUSTRIAL AREA PRIN SALMAN ROAD, KNG D OF SAUDI ARABIA P.O. BOX: 41636, RIYAD TEL : 4486231 - 446002 FAX : 4463424	ісе ОИМ Н 11531			
INVOICE NO	: EM/INV/585-12/18				
ESSEL'S NAME	: M.V. WAN HAI 275 V.	1305			
PORT OF SHIPMENT	: LAEM CHABANG, THA				
PORT OF DISCHARGE	: DAMMAM, SAUDI AR				
ALES CONTRACT NO.	: EM/7769-10/18			1	
OTAL CONTAINERS	: 3 X 40' CONTAINER	-			
HIPPING MARKS		-			
HIPPING MARKS	: MADE IN THAILAN			÷	
DESCRIPTION OF	SHEETS PER CRATES X CRATE = SH	EETS	СВМ	TOTAL GROSS WEIGHT	TOTAL NET WEIGHT
1 X 40' CONTAINER -	CONTAINER NO. / SEA	LNO. :- TGCU01			WEIGHT
THAI ORIGIN SAPELI	VENEERED MDF		260		
5MM X 4' X 8' 1F	8 X 210 =	1,680	25.005	. 17,830.00	17,270.00
5MM X 4' X 8' 1F	4 X 180 =	720	10.716	8,915.00	8,635.00
	: 12 CRATES CONTAINER NO. / SEA	2,400 SHEETS	35.721 CBM	26,745.00 KGS	25,905.00 KG
THAI ORIGIN SAPELI		LING. :- WHLOS	464911 / WHLB551	.885	
7MM X 4' X 8' 2F	12 X 58 =	696			
TOTAL	: 12 CRATES	696 SHEETS	35.221 CBM	25,252.00 KGS	24,411.00 KG
X 40' CONTAINER -	CONTAINER NO. / SEA				24,422.00 KG
THAI ORIGIN SAPELI			A		
1MM X 4' X 8' 1F	6 X 90 =	540	17.682	13,026.00	12,606.00
HAI ORIGIN TEAK V	ENEERED MDF			**/******	12,000.00
7MM X 4' X 8' 2F	6 X 58 =	348	17.611	12,626.00	12,206.00
TOTAL	: 12 CRATES	888 SHEETS	35.293 CBM	25 652 00 KGS	24,812.00 KG
ALL OTHER DETAILS	AS PER SALES CONTRA		9-10/18 DATED 30		<b>X</b>
	: 36 CRATES 3.	984 SHEETS	106.235 CBM	77,649.00 KGS	75,128.00 KG

 TOTAL GROSS WEIGHT
 : 77,649.00 KGS

 TOTAL NET WEIGHT
 : 75,128.00 KGS

 TOTAL CBM
 : 106.235 CBM

EASTERN MARKETING CO PTE LTD Authoriene Stgnator

Al-Manashy Doors المناشب مول الم

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2. Alici Consignee Destinataire	CERTIFI	CAT D'O	RIGINE
TRIANGLE WORLD GROUP 	3. Menşe Ülkeşi Country of Origin Pays d'origine		
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<ol> <li>Taşımaya İlişkin Bilgiler (Tercihe Bağlı) Transport Details (Optional) Informations relatives au transport (mention facultative)</li> </ol>	5. Gözlemler Remarks Remarques		
-BY VESSEL	ORIC	31N//	VL.
6. Sura No; kolilerin marka ve işaretleri, sayı ve türleri; eşyanın tanımı İtem number; marks, numbers, number and kind of packages; descri Numéro d'ordre – Marques, numéros, notnbre et nature des colis – De prince	iption of goods	7. Miktar Quantity Quantité	L.C.
KADOMA 2 (HONEYCOMB) KAPI DOLGU MALZ 12250 P TOTAL PACKING 350 BOX INVOICE NO 247641 The goods are origin of Turkey	C6	13543, Kj	
A-6369368			
8. Yukarıda Talimilanan Eşyalann 3 Nolu Kutuda Belirtilen Ülke Men The Undersigned Authonity Certifies That The Goods Described Ab "L'autorité soussignée certifie que les marchandises désignées ci-da ZUAIR CHAMBER OF COMMERCE IZMIR 10 12 2015	ove Originate In The Country	Shown In Bor gurant dans la	(3 össe No 3



## Acoustical Assessment

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Barnstaple, Devon. EX32 9DF

Tel / Fax: (01271) 345038

EMail: doortech2000@btconnect.com

20th. September 2014

#### Doorteh 2000 Technical Report Ref: AHP/200914/TR1

Client: Norsound Ltd., Unit 5, Regents Drive, Prudhoe, Northumberland NE42 6PX

#### **Requirement:**

To assess the likely sound attenuating performance relating to the use of a Warm Springs door tested as described below if the door was to be laboratory tested to the requirements of BS EN ISO 10140-2 : 2010 with results expressed as a single weighted index in accordance with BS EN ISO 717-3 : 1997 as an operational doorset fitted with Norsound acoustic seals as described below.

#### A/ General:

1/ The Warm Springs door construction specimen, as tested in a *(non operational)* fully caulked condition and as described by reference to NWAA Labs test report # NWTL131007-08 dated 7<sup>th</sup>. October 2013 for a test date of 3<sup>rd</sup>. October 2013 provided for a fully caulked performance when tested to the requirements of ASTM Procedure E90-90 with classification (weighted index) in accordance with E413-10.

2/ The  $1/3^{rd}$ . octave Sound Transmission Loss for this test is recorded by reference to the NWTL 131003-08 schedule dated  $3^{rd}$ . October 2013. This document also records a weighted index performance of STC38dB. NOTE: The  $1/3^{rd}$ . Octave data culled from NWTL 131003-08 schedule dated  $3^{rd}$ . October 2013 has been transferred to a graph (Fig. 1. in this report) and is identified by reference to Door 'A'.

#### B/ Report:

1/ The only certain way to determine the actual performance of a particular doorset design is to test a specimen in a manner that conforms precisely in all respects to the product intended for use. The following elements can influence performances:

a/ Door size(s).

b/ Door configuration.

c/ Type of glass / area of glazing and beading (sealing) system.

d/ Facing materials.

e/ Type and location of hardware.

f/ Selection and use of sealing systems.

g/ Quality of installation.

h/ The type (and performance) of surrounding structure.



**2/** Norsound Ltd. have carried out in excess of 250 sound attenuating tests using their sealing systems with a wide range of door constructions. A timber based core door constructions was tested by Norsound by reference to SRL Test report Ref: C/08/5L/20428/R03 dated 1st. April 2009 - Test No. 17 and provided for a fully caulked performance of Rw.40dB (STC 40dB).

**3/** The same door construction was re tested as an operational door using Norsound NOR710 perimeter seals at the head and jambs and a NOR 810 series automatic door bottom at the threshold. SRL Test report Ref: C/08/5L/20428/R03 dated 1st. April 2009 - Test No. 18 records a performance of Rw.38dB in this configuration. (See Fig. 2).

**4/** The 1/3rd. Octave data determined for the Norsound tests have been transferred to the Fig. 1 graph with the Door 'B' plot showing the fully caulked performance and the Door 'C' plot showing the measured performances for the same door as an operational doorset using the Norsound seals recorded above.

#### C/ Conclusion:

1/ In our opinion Warm Springs door leaf construction as described by reference to A1/ & A2/ above has the potential to provide for an Rw.35dB (STC 35dB) pe formance if laboratory tested to the requirements of BS EN ISO 10140-2 : 2010, with results expressed as a single weighted index in accordance with BS EN ISO 717-3 : 1997, as an operational door in a single leaf, single swing configuration if fitted with Norsound NOR710 perimeter seals used with a NOR810 automatic door bottom at the threshold where the doorset design is otherwise as illustrated by reference to Fig. 2 of this report.

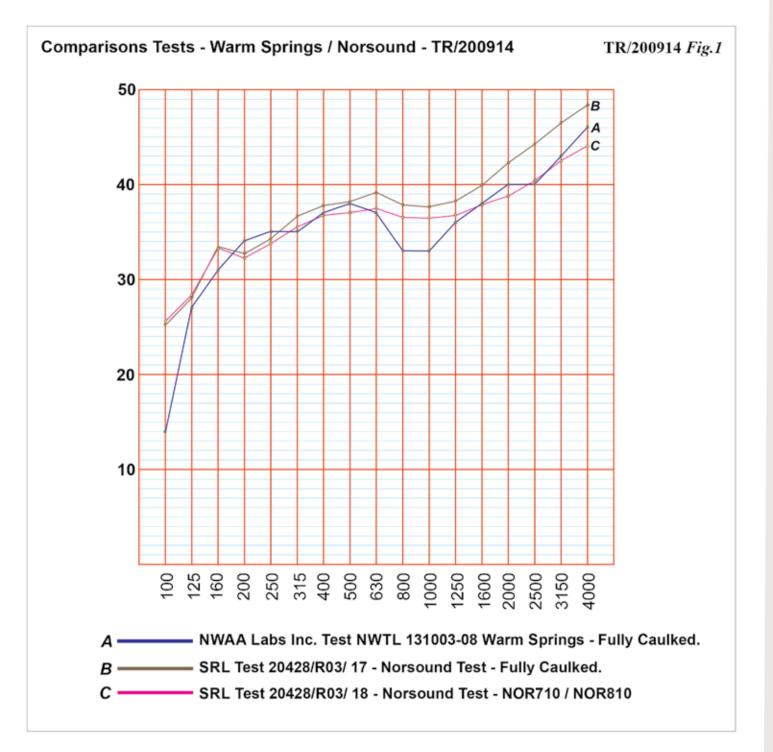
**2/** Further, on the basis of other base test data owned by Norsound, we consider that the sound attenuating performance could be further enhanced to Rw.36dB (STC 36dB) for a doorset design as described by reference to C1/ above if an additional bank of Norsound NOR720 perimeter seals were added. (See Fig. 3).

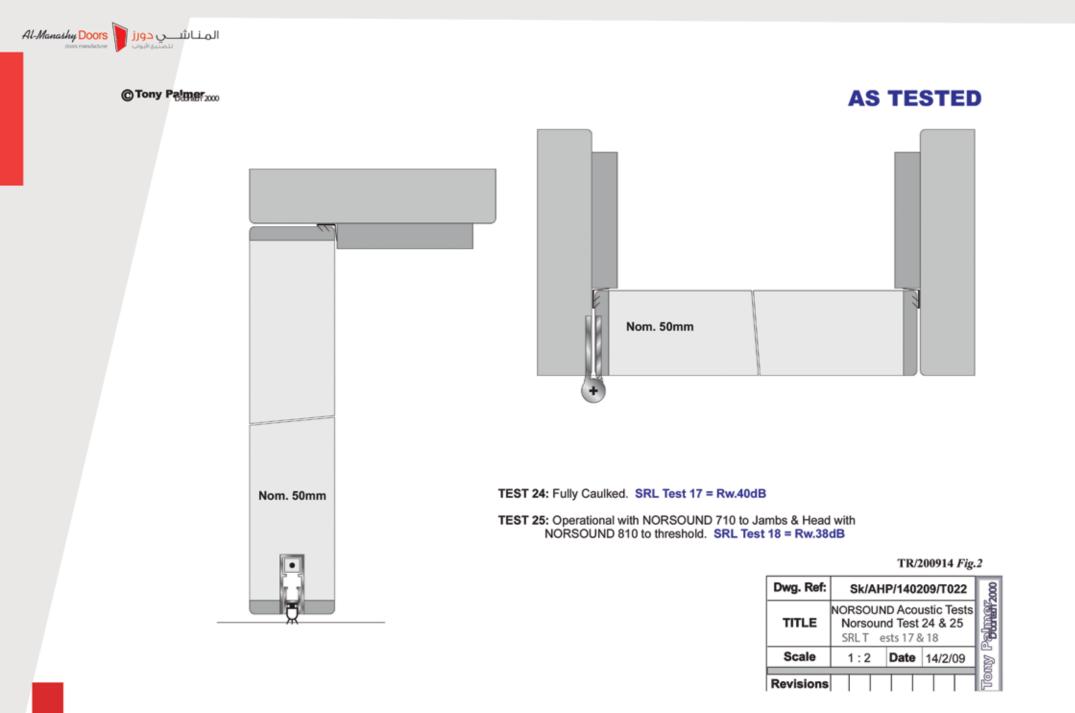
**3/** For a single swing, double leaf (pairs) configuration, there would be some flanking particularly at the bottom of the meeting stiles that, in our opinion, could reduce performances by approximately Rw.1dB. (STC 1dB). Various meeting stile seal options are illustrated by reference to the Norsound Ltd. Acoustic Technical manual. The choice of meeting stile seals would need to be determined by consideration of the hardware to be used for the doorset with the objective of avoiding any interruption of acoustic seals. The flanking at the threshold could however be reduced by using the Norsound 650 stepped threshold with seal. (See Fig. 3).

4/ This report is restricted to consideration of sound attenuating performances only.

Tony Palmer Doortech 2000 200914

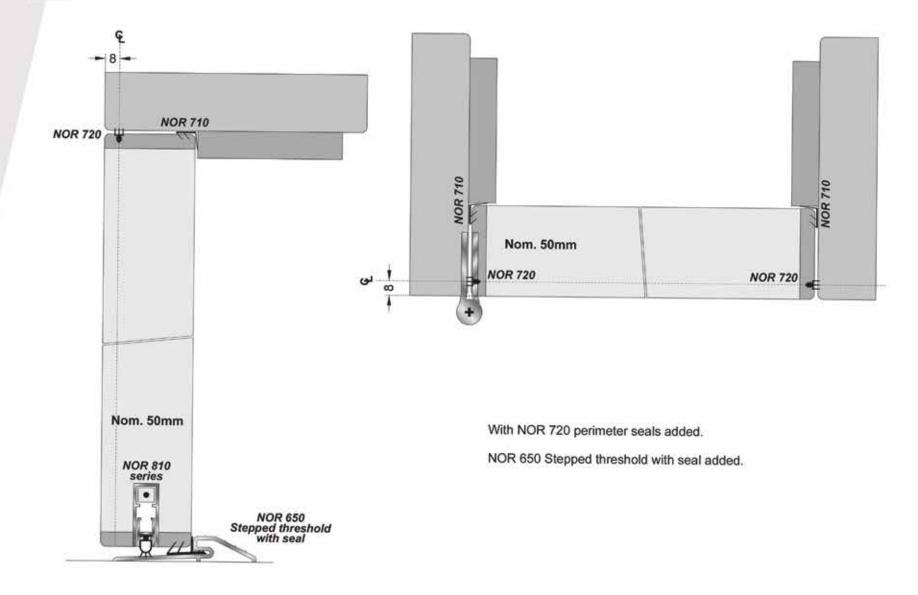








C Tony Palmer 2000





# APPROVALS & REGISTRATION

CERTIFICATES







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# CERTIFICATE OF REGISTRATION

This is to certify that

# Warm Springs Composite Products

PO Box 906 Warm Springs OR 97761 USA

Meets the requirements of the Exova BM TRADA **Q-Mark Fire Door** Manufacture scheme to STD 006 083 - Issue 2 - 11/07/2014

Karen Prendergast Sector Director - Certification Exova BM TRADA

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The use of the UKAS accreditation mark indicates accreditation in respect of those activities covered by the accreditation certification 012 Multisite clients – The scope of certification shown above includes the participating sites shown on the registration schedule

### **Certificate Number**

317Date of Initial Certification22 September 2008Date of Last Issue20 October 2017Date of Expiry21 September 2020





# **Registration Schedule**

Branch

Warm Springs Composite Products

# Address

PO Box 906 Warm Springs OR 97761 USA

# Scope

Assessment/ Test Report	Owner of Assessment / Report	Doorset Description	Rating	Test Type
Chilt/A06218	Warm Springs Composite Products	Tectonite 60 min Fire Door Blank	60 min	BS476 Part 22
Chilt/A06218	Warm Springs Composite Products	Tectonite 90 min Fire Door Blank	90 min	BS476 Part 22
Chilt/A06218	Warm Springs Composite Products	Tectonite 120 min Fire Door Blank	120 min	BS476 Part 22





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# **CERTIFICATE OF REGISTRATION**

This is to certify that

# Warm Springs Composite Products

PO Box 906 Warm Springs OR 97761 USA

Meets the requirements of the Exova BM TRADA **Q-Mark Door Blank** scheme to **STD047 - Issue 1 - 25/05/2012** 

Karen Prendergast Sector Director - Certification Certificate Number Exova BM TRADA

Exova (UK) Ltd, (T/A Exova BM TRADA), Chiltern House, Stocking Lane, High Wycombe, Buckinghamshire, HP14 4ND, UK Registered Office: Exova (UK) Ltd, Lochend Industrial Estate, Newbridge, Midlothian EH28 8PL United Kingdom. Reg No. SC070429

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The use of the UKAS accreditation mark indicates accreditation in respect of those activities covered by the accreditation certification 012 Multisite clients – The scope of certification shown above includes the participating sites shown on the registration schedule

### **Certificate Number**

003 Date of Initial Certification 24 April 2014 Date of Last Issue 20 October 2017 Date of Expiry 21 September 2020





# **Registration Schedule**

Branch

Warm Springs Composite Products

# Address

PO Box 906 Warm Springs OR 97761 USA

# Scope

Tectonite Range – Composite Door Blank

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# WARM DOOR CORE PRODUCTS

Intertek

# 44 4

# AUTHORIZATION TO MARK

This authorizes the application of the Certification Mark(s) shown below to the models described in the Product(s) Covered section when made in accordance with the conditions set forth in the Certification Agreement and Listing Report(s). This authorization also applies to the Multiple Listee model(s) identified on the correlation page of the Listing Report. This document is the property of Intertek Testing Services and is not transferable. The Certification Mark(s) may be applied only at the location of the Party Authorized to Apply Mark.

See following page(s)

Intertek (Coquitiam)

### Applicant:

Warm Springs Composite Products Highway 26, Building #8 Warm Springs OR 97761

Alan Earnest

541-553-1143 541-553-1145

aearnest@wscp.com

Country: Contact: Phone:

Fax:

Email:

Party Authorized to Apply Mark: **Evaluation Center:** 

Control/Client Number: 208306

Le Authorized By: Dean Davi dson, Director of Certificat

Intertek Testing Services NA, Inc. 545 E. Algonquin Road, Ste H., Arlington Heights, IL 60005 USA Phone: 847-439-5657 Fax: 847-439-7320



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Testing Standard(s):	:UBC 7-2 (1997):UBC 7-2 (1994):CAN / ULC S104 1980 (R1985):ASTM E2074 (2004):UL
	10(b) (2008):NFPA 252 (2008):UL 10(c) (2001):UL 10(b) Revision 1 (2009):UL 10(c)
	(2009):CAN / ULC S104 (2010):NFPA 252 (2012)
Product:	Warm Springs 45-90 Minute Flush Doors

ATM for Report 495-1571, 495-1677, 3143292, 3175689, 100357579, 100527420, 100618964

ATM Issue Date: 02/06/2017





Intertek	AUTHORIZATION TO MARK
when made in accordance with the cor applies to the Multiple Listee model(s)	Certification Mark(s) shown below to the models described in the Product(s) Covered section inditions set forth in the Certification Agreement and Listing Report(s). This authorization also identified on the correlation page of the Listing Report. This document is the property of insferable. The Certification Mark(s) may be applied only at the location of the Party
Applicant:	Warm Springs Composite Products Highway 26, Building #8 Warm Springs OR 97761
Country:	
Contact:	Alan Earnest
Phone:	541-553-1143
ax:	541-553-1145
Email:	aearnest@wscp.com
arty Authorized to Apply Mark:	See following page(s)
valuation Center:	Intertek (Coquitiam)
	Dean Davidson, Dizector of Certification Intertok Testing Services NA, hc. 545 E. Algonquin Foad, Ste H., Arlington Heights, IC, 60005, USA Phone: 847-439-5637 Fac: 847-439-7320
	c Intertek
This Authorization to Mark is for the exclusive use of Interf are ilmited to the terms and conditions of the agreement. It occasioned by the use of this Authorization to Mark. Only Centification mark is restingted to the conditions and out in product or service must first be approved in writing by little	all previous Authorizations to Mark for the noted Report Number. exis Client and is provided pursuant to the Cettification agreement between interfex and its Client. Interfex's responsibility and lability tertex assumes no liability to any party, other than to the Client in accordance with the agreement. for any loss, expense or damage the Client is authorities to permit copying or distribution of this Authorization to Mari, and then only in its entirety. Use of interfex's the agreement and in this Authorization to Mari. Any further use of the interfex name for the sale or advertisement of the leated material, inset. In this Pactory Assessments and Polow up Devices are for the pursoes of assumptions are usage of the Cettification mark in uses of production quality control and do not releve the Client of their obligations in this respect.
Testing Standard(s):	:NFPA 252 (1995):UL 10(c) (1998):UBC 7-2 (1997):CAN4 S104 (1985):UL 10(c) (2009):CAN / ULC S104 (2010):NFPA 252 (2012):CAN / ULC S104 (2015)
Product:	Warm Springs 20-90 Min Fire Door Frame
ATM for Report 3060476(b), 3064457	, 3093354, 3096495, ATM Issue Date: 02/06/2017 OQ, 3145801COQ,

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# AUTHORIZATION TO MARK

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### Applicant:

Warm Springs Composite Products Highway 26, Building #8 Warm Springs OR 97761

Alan Earnest

541-553-1143

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aearnest@wscp.com

Country: Contact:

Phone: Fax:

Email:

Party Authorized to Apply Mark:

See following page(s) Intertek (Coquitlam)

Control/Client Number: 208306

Evaluation Center:

Authorized By: 5 Dean Davidson, Directo

Intertek Teering Services NA, Inc. 545 E. Algonquin Road, Ste H., Anington Heights, IL 60005 USA Phone: 847-439-5657 Fax: 847-439-7320



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Testing Standard(s):	:UL 10(o) (2009):UL 10(b) (2009):CAN / ULC S104 (2010):NFPA 252 (2012)
Product:	Warm Springs 60-90 minute Single Swing Sound Transmission Doorset

ATM for Report G102046520, 102576295COQ-003A, 102576295COQ-003B

ATM Issue Date: 02/06/2017



Report prepared for: Rajesh Othayoth (Intertek) on 12/6/2017 4:39:41 PM



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	IOF
Country:	Brit
Contact:	Sim
Phone:	+44
Fax:	
Email:	Sim
Party Authorized to Apply Mark:	See
Evaluation Center:	Inte
Control/Client Number:	<u>291</u>

Ramkor International Ltd. P.O Box 3152 OMC Chambers, Road Town Tortola, British Virgin Islands Simon Miln +44 7970 642418 Simon@ramkor.com

Simon@ramkor.com See following page(s) Intertek (Middle East) 291105

Authorized By: Dean Davidson, Director of Certification

Intertek Testing Services NA, Inc. 545 E. Algonquin Road, Ste H., Arlington Heights, IL 60005 USA Phone: 847-439-5667 Fax: 847-439-7320



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Testing Standard(s):	BS 476 Part 22 (1987), BS 476 Part 20 (1987),		
Product:	Ramkor International - Strebord 44 - FD30 Particle Board Core door		

ATM for Report: 384630 Rev A; 386959

ATM Issue Date: 12/06/2017

Report prepared for: Rajesh Othayoth (Intertek) on 12/6/2017 4:39:41 PM

Listing Section(s): CATEGORY D - DOOR/FRAME ASSEMBLIES CSI Code(s): 08 10 00 Doors and Frames

# Description: Product Covered

Latched one and a half leaf single acting doorset in wood frame & unlatched single leaf single acting doorset in wood frame

### Product Description

### One and a half leaf single acting doorset in wood frame:

Door leaf core - Strebord Particle Board - 44mm thick Door frame - European Redwood

Door leaf size (active) - 1050mm x 2440mm x 44mm (w x h x thk) Door leaf size (inactive) - 400mm x 2440mm x 44mm (w x h x thk)

Door Frame size - 1523mm x 2485mm x 80mm (w x h x jamb depth)

Supporting Construction - The door assembly is tested in plasterboard clad timber stud supporting construction

Minimum Latch Throw - 12mm (single point latch on the active leaf)

### Single leaf single acting doorset in wood frame:

Door Leaf core - Strebord Particle Board - 44mm thick Door frame - European Redwood

Door leaf size - 950mm x 2438mm x 44mm (w x h x thk) Door frame size - 1020mm x 2485mm x 104mm (w x h x jamb depth)

Supporting Construction - The door assembly is tested in plasterboard clad timber stud supporting construction

Minimum latch throw - the door was tested with the latch disengaged

### **Fire Rating**

The doorsets have been qualified for following ratings according to BS 476 Part 22 (1987):

Integrity - 30 Minutes Insulation - 30 Minutes



Report prepared for: Rajesh Othayoth (Intertek) on 12/6/2017 4:39:41 PM

Party(s) Authorized by Manufacturer To Apply Mark: None Party(s) Authorized by Other Parties To Apply Mark: None Report prepared for: Rajesh Othayoth (Intertek) on 12/6/2017 4:40:56 PM



# AUTHORIZATION TO MARK

Total Quality. Assured.

Applicant:

This authorizes the application of the Certification Mark(s) shown below to the models described in the Product(s) Covered section when made in accordance with the conditions set forth in the Certification Agreement and Listing Report(s). This authorization also applies to the Multiple Listee model(s) identified on the correlation page of the Listing Report.

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Ramkor International Ltd.

Approanti	P.O Box 3152 OMC Chambers, Roa Tortola,
Country:	British Virgin Islands
Contact:	Simon Miln
Phone:	+44 7970 642418
Fax:	
Email:	Simon@ramkor.com
Party Authorized to Apply Mark:	See following page(s)
Evaluation Center:	Intertek (Middle East
Control/Client Number:	<u>291105</u>

ad Town

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Authorized By: LA.

Dean Davidson, Director of Certification

Intertek Testing Services NA, Inc. 545 E. Algonquin Road, Ste H., Arlington Heights, IL 60005 USA Phone: 847-439-5667 Fax: 847-439-7320



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Testing Standard(s):	BS 476 Part 22 (1987), BS 476 Part 20 (1987),
Product:	Ramkor International - Strebord 54 - FD60 Particle Board Core Door

ATM for Report: 386959

ATM Issue Date: 12/06/2017

Ramkor International Ltd. | 42945 | Rev: Dec 6 2017 2:11PM | Uncontrolled Copy



Report prepared for: Rajesh Othayoth (Intertek) on 12/6/2017 4:40:56 PM

Listing Section(s): CATEGORY D - DOOR/FRAME ASSEMBLIES CSI Code(s): 08 10 00 Doors and Frames

Description: Product Covered

Unlatched one and a half leaf single acting doorset in wood frame

**Product Description** 

### One and a half leaf single acting doorset in wood frame:

Door leaf core - Strebord Particle Board - 54mm thick Door frame - Sapele Wood (density - 640 kg/m<sup>3</sup> (minimum))

Door leaf size (active) - 1050mm x 2438mm x 54mm (w x h x thk) Door leaf size (inactive) - 400mm x 2438mm x 54mm (w x h x thk)

Door Frame size - 1523mm x 2485mm x 104mm (w x h x jamb depth)

Supporting Construction - The door assembly is tested in plasterboard clad timber stud supporting construction

Minimum latch throw - The doorset was tested with latch disengaged.

### Fire Rating

The doorset has been qualified for following ratings according to BS 476 Part 22 (1987):

Integrity - 60 Minutes Insulation - 60 Minutes



Report prepared for: Rajesh Othayoth (Intertek) on 12/6/2017 4:40:56 PM

### Party(s) Authorized by Manufacturer To Apply Mark: None

# Party(s) Authorized by Other Parties To Apply Mark: None

Ramkor International Ltd. | 42945 | Rev: Dec 6 2017 2:11PM | Uncontrolled Copy

Report prepared for: Rajesh Othayoth (Intertek) on 12/6/2017 4:42:40 PM



# AUTHORIZATION TO MARK

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Applicant:	Ramkor International Ltd. P.O Box 3152 OMC Chambers, Road Town Tortola,
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Contact:	Simon Miln
Phone:	+44 7970 642418
Fax:	
Email:	Simon@ramkor.com
Party Authorized to Apply Mark:	See following page(s)
Evaluation Center:	Intertek (Middle East)
Control/Client Number:	<u>291105</u>

Authorized By:

Dean Davidson, Director of Certification

Intertek Testing Services NA, Inc. 545 E. Algonquin Road, Ste H., Arlington Heights, IL 60005 USA Phone: 847-439-5667 Fax: 847-439-7320



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Testing Standard(s): BS 476 Part 22 (1987), BS 476 Part 20 (1987),		
Product:	Ramkor International - FD90 Plus - 90 Minute Fire-Rated Particle Board	
	Core Door	

ATM for Report: RF103 TBWIC Test report

ATM Issue Date: 12/06/2017

Report prepared for: Rajesh Othayoth (Intertek) on 12/6/2017 4:42:40 PM

Listing Section(s): CATEGORY D - DOOR/FRAME ASSEMBLIES CSI Code(s): 08 10 00 Doors and Frames

# Description: Product Covered

Latched one and a half leaf single acting doorset in wood frame & latched single leaf single acting doorset in wood frame

### **Product Description**

# One and a half leaf single acting doorset in wood frame:

Door leaf core - Ramkor FD90 Plus - 64mm thick Door frame - Sapele Wood (density - 640 kg/m<sup>3</sup> (minimum))

Door leaf size (active) - 950mm x 2357mm x 64mm (w x h x thk) Door leaf size (inactive) - 357mm x 2357mm x 64mm (w x h x thk)

Door Frame size - 1405mm x 2408mm x 140mm (w x h x jamb depth)

Supporting Construction - The door assembly is tested in a masonry wall.

Minimum Latch Throw - 12mm (single point latch on the active leaf). Top and bottom flush bolts are used on the inactive leaf. The door handle and single lock cylinder are allowed to be installed only on the pull side of the door (hinge side).

### Single leaf single acting doorset in wood frame:

Door Leaf core - Ramkor FD90 Plus - 64mm thick Door frame - Sapele Wood (density - 640 kg/m<sup>3</sup> (minimum))

Door leaf size - 950mm x 2357mm x 64mm (w x h x thk) Door frame size - 1045mm x 2408mm x 140mm (w x h x jamb depth)

Supporting Construction - The door assembly is tested in a masonry wall.

Minimum Latch Throw - 12mm The door handle and single lock cylinder are allowed to be installed only on the pull side of the door (hinge side).

### Fire Rating

The doorsets have been qualified for following ratings according to BS 476 Part 22 (1987):

Integrity - 90 Minutes Insulation - 90 Minutes

Note - Vision panel not allowed for 90 minute fire rating.

Ramkor International Ltd. | 42984 | Rev: Dec 6 2017 2:44PM | Uncontrolled Copy



Report prepared for: Rajesh Othayoth (Intertek) on 12/6/2017 4:42:40 PM

Party(s) Authorized by Manufacturer To Apply Mark:

None

Party(s) Authorized by Other Parties To Apply Mark: None



# CERTIFICATE OF APPROVAL No CF 341

This is to certify that, in accordance with TS00 General Requirements for Certification of Fire Protection Products The undermentioned products of

# LORIENT POLYPRODUCTS LIMITED

Fairfax Road, Heathfield Industrial Estate, Newton Abbot, Devon. TQ12 6UD Tel: 01626 834252 Fax: 01626 833166

Have been assessed against the requirements of the Technical Schedule(s) denoted below and are approved for use subject to the conditions appended hereto:

### CERTIFIED PRODUCT

Lorient Type 617 Sodium Silicate intumescent seals (with optional SS/AS/TS/FS/DS/Finesse smoke seals)

### TECHNICAL SCHEDULE

TS35 – The Contribution of Intumescent Seals To The Fire Resistance Of Pedestrian Type Door Assemblies (Issue 2) TS21 – The Contribution of Edge Seals to the Cont rol of Smoke Leakage via Door Assemblies

Signed and sealed for and on behalf of CERTIFIRE

Sir Ken Knight Chairman - Management Council

Page 1 of 3

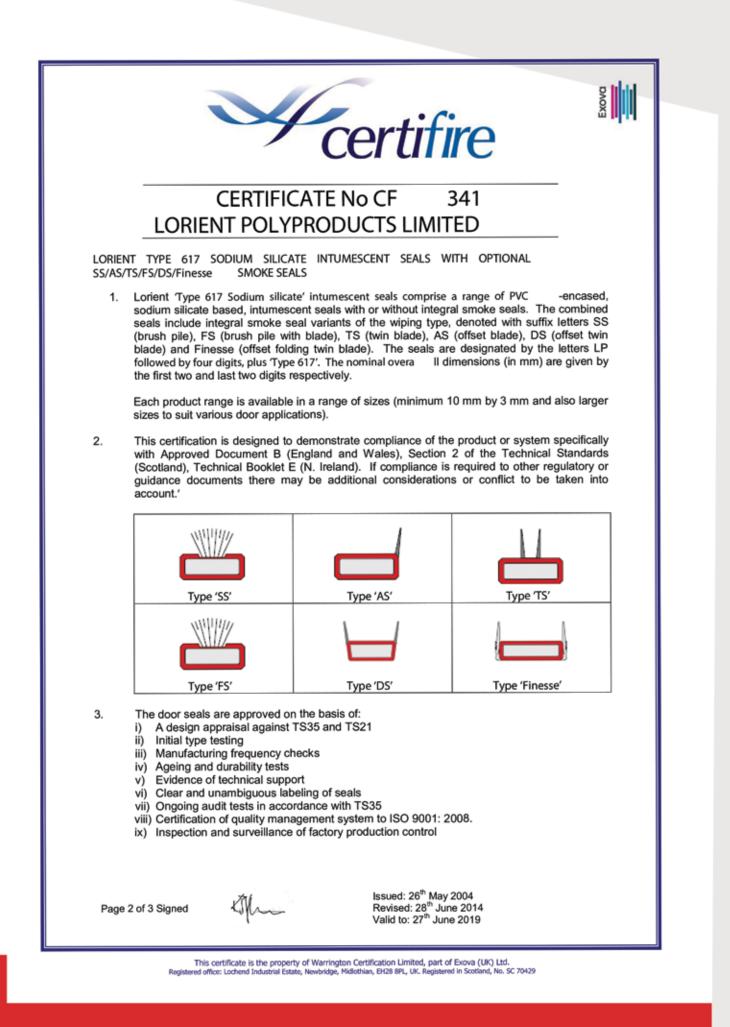


Issued: 26<sup>th</sup> May 2004 Reissued: 28<sup>th</sup> June 2014 Valid to: 27<sup>th</sup> June 2019

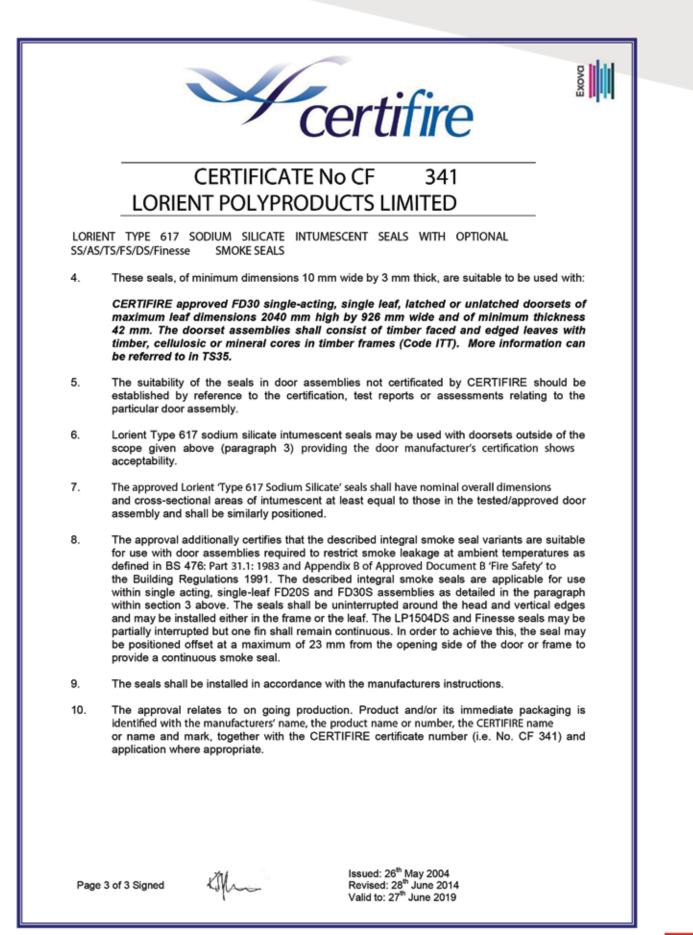


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# Certificate of Approval

This is to certify that the Management System of:

# Honicel Nederland B.V.

Brinkweg 1, 7021 BV Zelhem, Netherlands

has been approved by LRQA to the following standards:

ISO 9001:2015

PAC

P.G. Cornelissen - Area Manager North Europe Issued by: Lloyd's Register Nederland B.V.

Current issue date: 16 July 2018 Expiry date: 9 March 2020 Certificate identity number: 10111686

Original approval(s): ISO 9001 – 10 March 2011

Approval number(s): ISO 9001 - 00008183

The scope of this approval is applicable to: Sales, production and delivery of paper honeycomb. Sales, customise and delivery of processing machinery for paper honeycomb.



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# **COMPANY & COMPLIANCE**

# CERTIFICATION

المتاشب دورا Al-Manashy Doors



ربعد استيفائها للمتطلبات اللازمة وهق المراجع القياسية التالية:

according to the normative documents :

بداية تاريخ المنح:

225

A1171/.1/11

SASO NFPA 80, SASO UL 10B, SASO UL 10C

Date of issue :



من ب ١٢٢٢ الزياض ١١٤٦ المربعة المربية المعربية مالف (١٠٠٠ مالام ١٢٦٠ مالكي ٢٠٦٠ مالا ١٤٤٠ مالكي ١٤٤٠ م هوي ب 2 Date 06 / 02/1434 المربعة المعربية مالف (١٤٢٠ مالكي ٢٨٠ مالكي ٢٨٠ مالكي ٢٨٠ مالك 1435 RO.Box 3437 Riyadh Rev #2 Date 28 /12 / 1435 RO.Box 3437 Riyadh 11471 KSA Tel: +966 14520000 Fax : +966 14520086

# KINGDOM OF SAUDI ARABIA

Saudi Standards, Metrology and Quality Org.

No. AS / CAUL SC. ( 14)

المرققات ر\_\_\_\_

Attach .....



المملكة العربية السعودية الهينة السعودية للمواصفات والمقايس والجودة

YEV

سعادة / رئيس مجلس إدارة شركة المناشى المحترم السلام عليكم ورحمة الله وبركاته ... وبعد إشارة إلى خطابكم بدون رقم وتاريخ ١٤٣٣/١١/٢١ه المتضمن طلبكم المصادقة على الشهادات الصادرة من مختبرات UL لمنتج أبواب مقاومة للحريق . نود الإفادة بأن الشهادتين المرفقتين مع خطابكم و الصادرتين من UL للعينة المختبرة والمقدمة من قبل العميل : - بىسىرقىم GSYX.R27458 وتىساريخ ٢٠١٢/٦/٢٥ علىسى منستج Swinging-type fire Doors. - ورقـــم GVTV.R27459 وتــاريخ ۲۰۱۲/۶/۲۰ علـــى منـــتج Fire Door and Window Frames. صحيحتين وصادرة من جهة معتمدة دولياً . ر وتقبلوا خالص تحياتي ... مدير عام الإدارة العامة لضبط الجبودة عبدالمحسن بن محمد

من . ب. ٢٦٢٧ لاريمي ٢٢٢١ لاسليكة المربية السمونية ملف : ٢٠٠٠٠ ١٩٢٢ مالف : ٢٠٠٠ مالف : ٢٠٠٠ P O Box 3437 Riyadh 11471 KSA Tel. : +966 1 4520000 Fax : +966 1 4520086 saso@saso.org.sa w w w . saso.org.sa





# CERTIFICATE

This is to Certify that the Quality Management System of

# ALMANASHY GROUP FOR TRADING INDUSTRY AND CONSTRUCTION

Graineh Industrial Zone, Al-Qaseem Road, Hraimlah City 11433, Kingdom of Saudi Arabia

has been found to comply with

# **ISO 9001:2015**

This certificate is applicable to the following scope:

Production of Hollow Metal Doors, Wooden Doors and Aluminum Products.

# Certificate No :: I-QSC202005012

Date of Initial Registration Surveillance Audit on/Before Certificate Expiry Recertification Due 06, May, 2020 06, April, 2021 05, May, 2021 05, May, 2023



BQC ASSESSMENT PRIVATE LIMITED (formerly BQC Certifications)

ICATIONS

BQC Certification is accredited by International Accreditation Services (IAS), United States of America wide MSCB Number 124. Accreditation details are available with IAS, (International Accreditation Service) Inc. USA, at www.iasonline.org The validity of this certificate can be verified at www.bqccert.com or through info@bqccert.com This certificate is the property of BQC Certifications and must be returned on request.



# CERTIFICATE

This is to Certify that the Environmental Management System of

# ALMANASHY GROUP FOR TRADING INDUSTRY AND CONSTRUCTION

Graineh Industrial Zone, Al-Qaseem Road, Hraimlah City 11433, Kingdom of Saudi Arabia

has been found to comply with

# ISO 14001:2015

This certificate is applicable to the following scope:

Production of Hollow Metal Doors, Wooden Doors and Aluminum Products.

# Certificate No :: I-ESC202005008

Date of Initial Registration06, May, 2020Surveillance Audit on/Before06, April, 2021Certificate Expiry05, May, 2021Recertification Due05, May, 2023



norized Signatory

BQC ASSESSMENT PRIVATE LIMITED (formerly BQC Certifications)

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# CERTIFICATE

This is to Certify that the Occupational Health & Safety Management System of

# ALMANASHY GROUP FOR TRADING INDUSTRY AND CONSTRUCTION

Graineh Industrial Zone, Al-Qaseem Road, Hraimlah City 11433, Kingdom of Saudi Arabia

has been found to comply with

# ISO 45001:2018

This certificate is applicable to the following scope:

Production of Hollow Metal Doors, Wooden Doors and Aluminum Products.

### Certificate No :: I-OHSC202005006

Date of Initial Registration Surveillance Audit on/Before Certificate Expiry Recertification Due 06, May, 2020 06, April, 2021 05, May, 2021 05, May, 2023



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# MATERIAL SAFETY DATA SHEET (MSDS)

MATERIAI	L SAFETY	DATA	SHEET	
Warm Springs Composite Products 3270 Highway 26 Building # 8 P O Box 906		Division	: Fire Door Compon	onte
Warm Springs, Oregon 97761 USA Telephone: 001 1 541 553 1143		Date: 3-		kins
Fax: 001 1 541 553 1145 Issued By: Product Development Office			ot applicable or Not one Known or Not K	
HMIS (0 = minimal hazard, 4 = severe hazard) Health = 1 Flammability = 0 Reactivity = 0	Emergency	Department of Transportation Information Shipping name : Not Classified Hazard Class : N/A ID No : N/A Emergency Only Contact: CHEM-TEL 001 1 800-255-3924		
<ul> <li>Product Information         <ul> <li>A. Product Name : Warm Springs Fire Door Core</li> <li>B. Chemical Name and Synonyms: N/A</li> <li>C. Chemical or Product Family : Man-made Vitre</li> </ul> </li> </ul>		nerals		
<ul> <li>Ingredient Information         <ul> <li>A. Hazardous Components</li> <li>( Chemical Identity; Common Name ) Fibrous Glass</li> <li>Chemically Bound Inert Minerals</li> </ul> </li> </ul>	<u>C.A.S No.</u> 65997-17-3	<u>%</u> 50 to 90 0 to 50	OSHA PEL Respirable: 1 f/cc	ACGIH TLV Respirable: 1 f/cc
<ul> <li>NOTE: This product formulation does <u>not</u> conta</li> <li>III. <u>Physical Data</u></li> <li>A. Appearance and Color: White, pressed man-ma</li> <li>B. Boiling Point (degrees F): N/A</li> <li>C. Vapor pressure (mm Hg @ 20 degrees C): N/D. Vapor density (Air = 1): N/A</li> <li>E. Solubility in Water: N/A</li> <li>F. Specific Gravity (H<sub>2</sub>O = 1): N/A</li> </ul>	de vitreous fiber p	·	emicals (VOC's) or F	ormaldehyde.

- G. Percent Volatile by weight ( 30 min. @ 275 degrees F ): N/A
- H. Evaporation Rate ( Butyl Acetate = 1 ): N/A
- I. pH: N/A

### IV. Fire and Explosion Data

- A. Flash point : N/A
- B. Flammable Range: LEL = N/A ; UEL = N/A
- C. Extinguishing Media : Non Flammable
- D. Special Fire Fighting Procedures: None
- E. Unusual Fire and Explosion Hazards: None

Al-Manashy Doors المناشب دورز معمد معمد معمد المعالي

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	<u>Contin</u>	uued : Man-made Vitreous Fiber Fire Door Core	Date: 6-10-10		
v.	Health				
	_	imary Route (s) of Entry: Inhalation, skin, and eye contact			
	_	arget Organs: Lungs, skin and eyes			
	_	ffects of Overexposure :			
		cute Health Effects: Products are a transient mechanical irritant to the skin, eyes and uppe	r respiratory system.		
	Refer to special protection information for handling instructions. <u>Chronic Health Effects</u> : <i>Fiber Glass Wool</i> : Fibrous glass has been classified as "not classifiable as to its carcinogenicity to				
	hu	<u>Chronic Health Effects</u> : <i>Fiber Glass Wool</i> : Fibrous glass has been classified as "not classifiable as to its carcinogenicity to human" (Group 3) by the International Agency for Research on Cancer (IARC). Fibrous glass is listed by NTP as 2, reasonably anticipated to be a carcinogen.			
	C. Carcinogenicity: NTP : Yes IARC Monographs : No OSHA Regulated : No				
		tedical Conditions Generally aggravated by Exposure: Any condition generally aggravated			
		itants in the air or on the skin. Pre-existing upper respiratory and lung disease such as, bu nphysema, and asthma.	t not limited to bronchitis,		
		rst Aid Procedures:			
	_	cin: Wash with mild soap and running water			
		yes: Flush with flowing water for at least 15 minutes and if symptoms persist, seek immed	iate medical attention.		
17	Berri	nite Data			
VI.		<u>vity Data</u> ability : Material is stable			
		compatibility: N/K			
		azardous Decomposition Products: Carbon dioxide, and other trace pyrolysis products typ	pical of decomposition of any		
		ganic chemical.	- *		
	D. H	azardous Polymerization: N/A			
VII.	Spill o	r Leak Procedures			
		eps to be taken if material is released or spilled : N/A			
		ecycling Information : Dispose in accordance with federal, state and local waste disposal r	egulations		
VIII.	Specie	l Protection Information			
		g handling or machining, be certain that the work site is well ventilated, and avoid			
		ing dust. Wear long-sleeve, loose fitting clothes, gloves and eye protection.			
		e these materials carefully to minimize airborne dust.			
	If high dust levels are anticipated during use, such as with the use of power tools, use the appropriate NIOSH approved dust respirator. All power cutting tools must be equipped with dust collectors.				
	After	using this material, wash with warm water and mild soap. Do not scratch or rub skin if it b	becomes irritated.		
		work clothes separately, and then rinse the washer.			
	The information presented herein is supplied as a guide to those who handle or use this product. Safe work practices must be employed when working with any materials. It is important that the end user makes a determination regarding the adequacy				
	of the safety procedures employed during the use of this product.				

# MATERIAL SAFETY DATA SHEET

Warm Springs Composite Products 3270 Highway 26 Building # 8 P O Box 906 Warm Springs, Oregon 97761 USA Telephone: 001 1 541 553 1143 Fax: 001 1 541 553 1145

Issued By: Product Development Office

Division: Fire Door Components

Date: 4-17-13

N/A = Not applicable or Not Available N/K = None Known or Not Known

	Department of Transportation Information	
HMIS (0 = minimal hazard, 4 = severe hazard)	Shipping name : Not Classified	
Health = 1	Hazard Class : N/A	
Flammability = 0	ID No : N/A	
Reactivity = 0	Emergency Only Contact: CHEM-TEL 001 1 800-255-3924	

### I. Product Information

- A. Product Name : Warm Springs 412 Fire Door Core
- B. Chemical Name and Synonyms: N/A

C. Chemical or Product Family : Man-made Vitreous Fibers and Minerals

### II. Ingredient Information

A. Hazardous Components	C.A.S No.	<u>%</u>	OSHA PEL	ACGIH TLV
( Chemical Identity; Common Name )			Respirable:	Respirable:
Fibrous Glass	65997-17-3	50 to 90	1 f/cc	1 f/cc
Chemically Bound Inert		0 to 50		
Minerals				

NOTE: This product formulation does not contain Asbestos, Volatile Organic Chemicals (VOC's) or Formaldehyde.

### III. Physical Data

- A. Appearance and Color: White, pressed man-made vitreous fiber panel
- B. Boiling Point (degrees F): N/A
- C. Vapor pressure ( mm Hg @ 20 degrees C ) : N/A
- D. Vapor density (Air = 1): N/A
- E. Solubility in Water : N/A
- F. Specific Gravity ( $H_2O = 1$ ): N/A
- G. Percent Volatile by weight ( 30 min. @ 275 degrees F ): N/A
- H. Evaporation Rate (Butyl Acetate = 1): N/A
- I. pH: N/A

### IV. Fire and Explosion Data

- A. Flash point : N/A
- B. Flammable Range: LEL = N/A; UEL = N/A
- C. Extinguishing Media : Non Flammable
- D. Special Fire Fighting Procedures: None
- E. Unusual Fire and Explosion Hazards: None

### XII Ecological Information

ENVIRONMENTAL TOXICITY: This product has no known adverse effect on ecology.

Ecotoxicity value Not determined.

### XIII. Disposal Information

WASTE DISPOSAL METHOD: Dispose of material in accordance with federal, state, and local regulations. Never discharge directly into sewers or surface waters. Consult with environmental regulatory agencies for guidance on acceptable disposal practices.

### XIV. <u>Transport Information</u>

U.S. DOT INFORMATION: Not a hazardous material per DOT shipping requirements. Not classified or

regulated. Shipping Name Hazard Class UN/NA # Packing Group Label (s) Required GGVSec/MDG -Code ICAO/IATA -DGR RID/ADR ADNR

Same as product name. Not classified. None. Not classified. Not applicable. Not classified. Not applicable. Not applicable. None. None.

### XV. Regulatory Information

UNITED STATES REGULATIONS

All ingredients of this product are included in the U.S. Environmental Protection Agency's Toxic Substances Control Act Chemical Substance Inventory.

Man- Made Vitreous (slag wool) Fiber	50 - 90 %
Expanded Perlite	30 - 50 %
Starch	5-15%
Colloidal Silica	0-15%

Note: Non e of the ingredie nts in this product are listed in the following catagories:

SARA Title III Section 302 (EPCRA) Extremely Hazardous Substances: Threshold Planning Quantity (TPQ)

SARA Title III Section 304 (EPCRA) Extremely Hazardous Substances: Reportable Quantity (RQ) SARA Title III Section 313 (EPCRA) Toxic Chemicals: X= Subject to reporting under section 313

CERCLA Hazardous Substances: Reportable Quantity (RQ)

CAA Section 112 (r) Regulated Chemicals for Accidental Release Prevention: Threshold Quantities(TQ) RCRA Hazardous Waste: RCRA hazardous waste code

Risk and Safety Phrases defined by European Union Directive 67/548/EEC (Annex III and IV) R-Phrase(s): R36/37/38 S-Phrase(s): None known.

### XVI. Other Information

### WARNING!

Dust can cause irritation to eyes, skin and respiratory tract. Cut and trim with a razor knife or hand saw to minimize dust levels. Using power tools for cutting will generate high dust levels. Power tools must be equipped with a dust collection system. Wear eye, skin and respiratory protection as necessary per working conditions. If eye contact occurs flush with water for 15 minutes. This product may may contain silica. Prolonged and repeated exposures to airborne respirable crystalline silica can cause lung cancer. Smoking in combination with silica exposures increases the risk of cancer. Do not ingest. If ingested, call physician.

Key/Legend	
ANSI	American National Standards Institute
ACGIH	American Conference of Governmental Industrial
	Hygienists
CAA	Clean Air Act
CAS	Chemical Abstracts Service (Registry Number)
CERCLA	Comprehensive Environmental Response,
	Compensation and Liability Act of 1980
CFR	Code of Federal Regulations
DOT	United States Department of Transportation
DSL	Canadian Domestic Substances List
EPA	United States Environmental Protection Agency
EPCRA	Emergency Planning & Community Right-to-know Act
HMIS	Hazardous Materials Identification System
IARC	International Agency for Research on Cancer
MSHA	Mine Safety and Health Administration
NDSL	Canadian Non-Domestic Substances List
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health
OSHA	Occupational Health and Safety Administration
PEL	Permissible Exposure Limit
PPE	Personal Protection Equipment
RCRA	Resource Conservation and Recovery Act
SARA	Superfund Amendments and Reauthorization Act of
	1986
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act

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# Warm Springs Composite Products Certified Door Components

# **Information and Users Guide**

Warm Springs Composite Products has been manufacturing and providing customers with quality certified fire rated door components for the last 20 years. We have tested and supply products for both domestic and international markets, with an emphasis on larger openings and higher ratings. Our door components are listed with BM Trada (Chiltern International Fire Ltd.) and carry the "Q Mark" certification.

All products have been test per B.S. 476 pt. 22 (1987) Global Assessment Report # Chilt/A06218 (18 Aug. 2011)

Manufacturer: Warm Springs Composite Products 3270 Highway 26, Building #8 Warm Springs, Oregon 97761 United States of America

<u>Component Type</u>	<b>Rating</b>	<b>Product</b>	<u>Wt. per kg/m3</u>
Tectonite Stiles	60-90-120 min.	Tectonite	990 minimum
Tectonite Rails	60-90-120 min.	Tectonite	990 minimum
Mineral Core	60-90-120 min.	Mineral Core	288 ±/- 30





# Manufacturing:

All Warm Springs Composite Products door components are manufactured from a selection of inorganic and organic products. These products are blended in large slurry mixers, evacuated into forms, pressed to specific dimension and dried to desire tolerances.

Products are then surfaced and cut to desired dimensions, before being packaged for shipment to customer destinations.

# **Packaging:**

Door components are stacked on solid wood pallets to enable maximum height and weight per unit with reference to the size of the container used for transport. All units are shrink wrapped and banded (metal strapping) to secure product to the pallets. Most units will also have a cardboard top covering.

# <u>Storage:</u>

Warm Springs Composite Products door components have been designed and tested for interior door applications and should be stored under cover of roof at all times. Components should be stored in areas that will not be exposed to rain or other water sources. Exposure to moisture other than normal humidity can be very detrimental to the integrity and usability of the product. Ideal storage would be in a building or warehouse that would protect the products from external weather elements.

# Handling:

Components on pallets may be easily moved with a mechanical fork lift or hydraulic dolly.

Although the Tectonite stile and rail product is much more dense and stronger than the mineral core, it must be handled with care. This product will break if dropped to a hard surface (concrete floor) or if struck against a hard immovable object.



WSCP's 412 mineral core is very porous and light weight, but has sufficient strength to be handled by one person. One mineral core at 54mm thickness will weigh about 63 lbs. or 140 kilograms.

Both component products will have surface dust and a small degree of abrasiveness. Wearing gloves when handling is recommended to reduce skin irritation on the hands.

#### Sawing or Cutting

 Tectonite: WSCP's gray colored stile and rail product has a density of about 1,000 kg/m3. This density must be maintained to adequately secure ironmongery to the door. With this increased density and the nature of the inorganic binders in the product, it is recommended that this product be sawn or cut with industrial grade diamond tooling. WSCP uses 14" (60 tooth) industrial diamond tip blades. Very hard or industrial grade carbide will cut the components, but wear on the tooling is very significant.

Also, when tooling Tectonite the operator must have a sufficient dust control system, as this product will produce a significant amount of dust!

2. WSCP Mineral Core: The light weight mineral core has a very low density (288 kg/m3) and is easily sawn or machined with normal carbide tooling. It will produce much less dust when machined than the Tectonite, but an adequate dust collection system should still be used when processing this component.

#### Surfacing or Sanding Components:

Tectonite Stile & Rail and the Mineral Core components may be easily sanded to achieve desired tolerances during the manufacturing flow. An aggressive (2 head) belt sander, using 24 to 40 grit paper can easily reduce the thickness by as much as .050" or 1.5mm per pass o n either material.

Care should be taken in surfacing banded mineral core in order to maintain desired tolerances. The differences in density from the Tectonite stiles and



# WARMASPRINGS COMPOSITE PRODUCTS

rails, to the softer mineral core, dictates that less material should be taken off per pass when surfacing. This eliminates tolerance differences between the two products after surfacing. Adequate dust collection when surfacing these components is needed.

#### **Bonding Components:**

Warm Springs Composite Products fire rated door components have been successfully tested numerous times using "Cross -Linked PVAs". A list of certified bonding agents is available upon request.

To achieve maximum bonding strength the surfaces of each component to be bonded should be clean and dust free. This can be accomplished by using pneumatic pressure to remove dust and or foreign agents from the bonding area.

All components when constructing a banded mineral core or loose-layup are flush (90 degree) joint. There are no tongue and grooves or machined joints in any application. This includes the following:

- 1. Wood Lipping to Tectonite Stiles
- 2. Tectonite Stiles to Tectonite Rails
- 3. Tectonite Stiles to Mineral Core
- 4. Tectonite Rails to Mineral Core
- 5. Mineral Core to Mineral Core

Care should be given in using adequate, but not excessive pressure when bonding components using and RF-Press. When components are used in a "Loose -Lay-up" construction, attention should be given to ensure components are fitted together tightly before door faces and bonding agents are applied.

Please follower adhesive manufacturer's instructions with reference to product amounts, press times and required pressure for both hot press and cold press applications.

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#### **Bonding Faces to Banded Cores:**

Again, to achieve maximum bonding strength the surface of those components adjacent to the face material should be cleaned by pneumatic pressure. The mineral core is a very porous material, and although it bonds exceptionally well to the face stock, it must also be free of dust and or other foreign materials. Prepping the surface of the components with a sizing agent to enhance bonding is allowed. Please follow adhesive manufacturer's recommendations on sizing agents.

Adhering face stock material to the mineral components can again be achieved with a cross-linked PVA adhesive. All wood faces (MDF, HDF, plywood or veneers) may be hot or cold pressed to the mineral components. Plastic Laminates should be adhered to MDF or HDF backers using those bonding agents referenced by the Plastic Laminate manufacturer. Note: Please use adhesive manufacturer's recommendations and instructions when bonding components.

#### **Conclusion:**

Warm Springs Composite Products will always provide quality customer service to all of our component product users. If additional information is required or questions need to be answered, please contact us for immediate attention.

Jacob Coochise Global Sales Manager jcoochise@wscp.com Ph.: 541-553-1143 Cell: 541-325-1276

Alan L. Earnest Technical Advisor <u>aearnest@wscp.com</u> Ph.: 541-553-1143 Cell: 541-410-2590

Warm Springs Composite Products web-site: www.wscp.com



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# SAMPLE GENERAL SHOP DRWAWING

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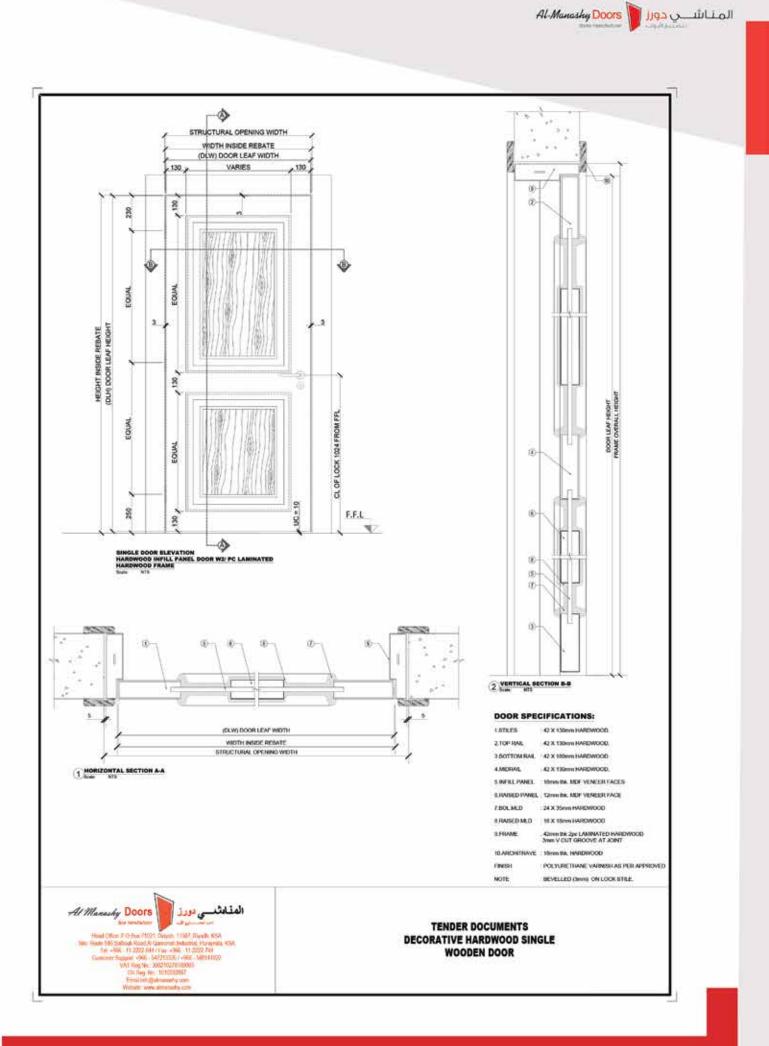
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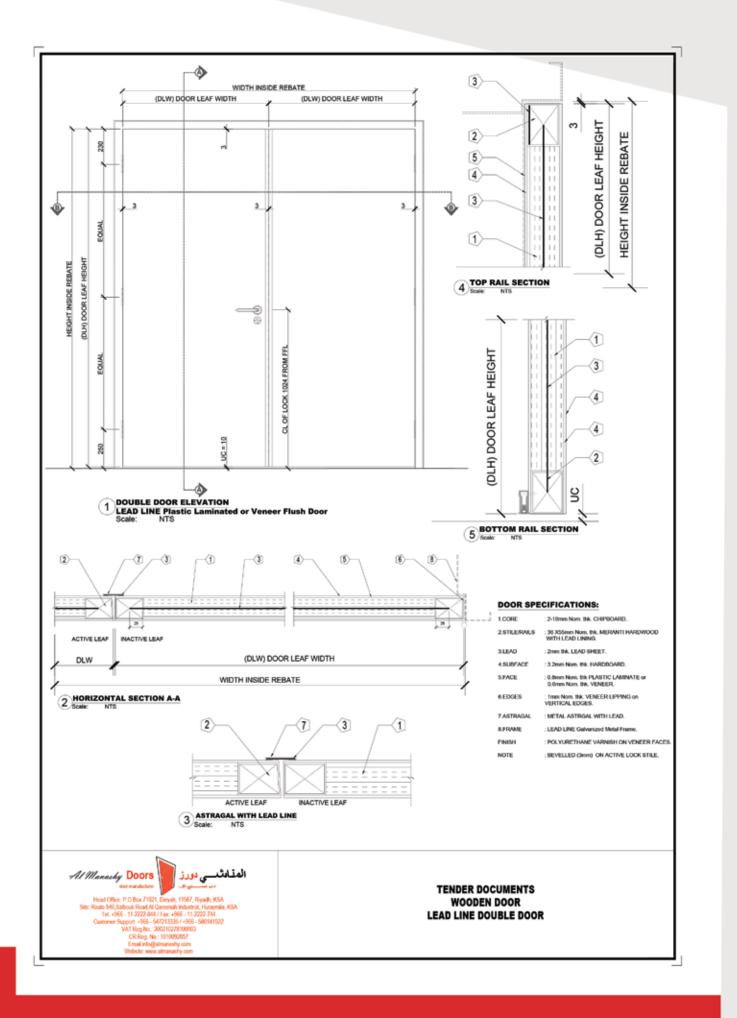
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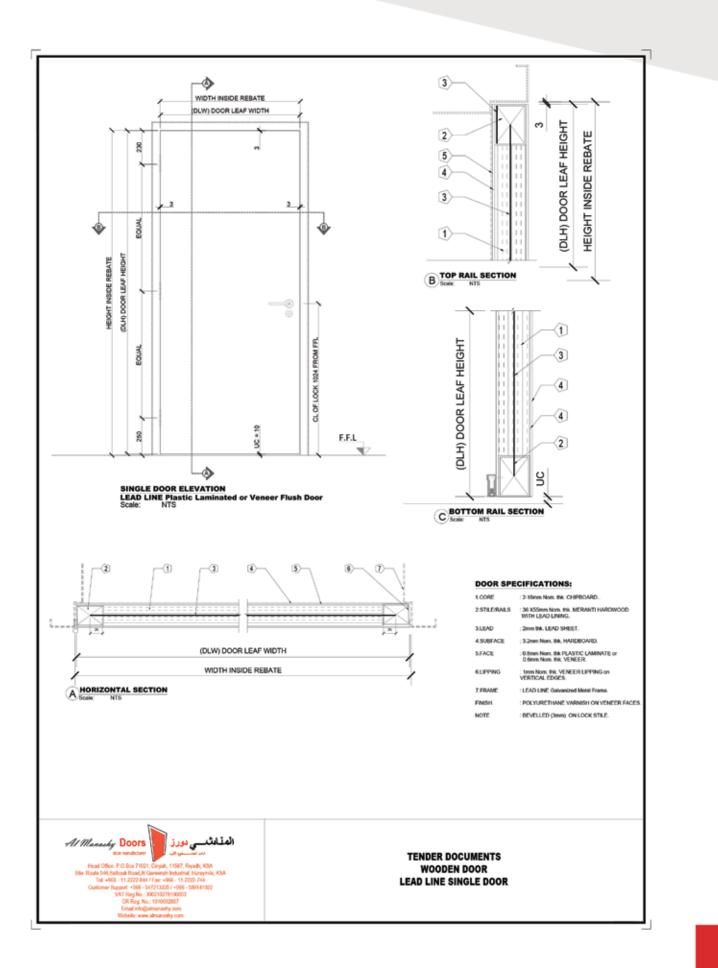
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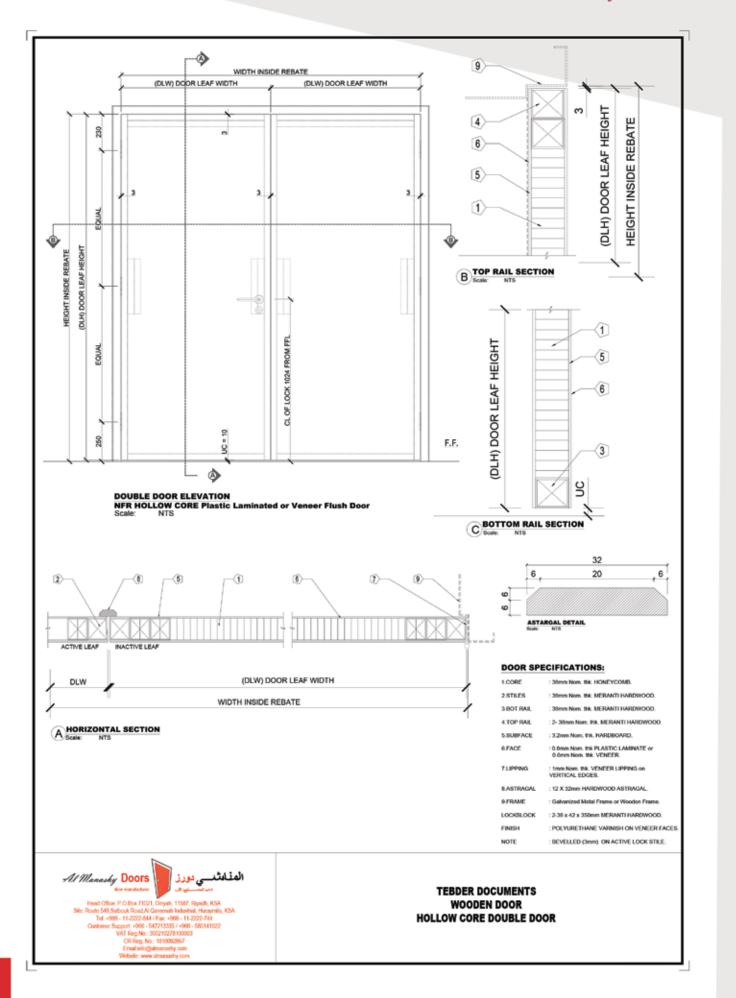
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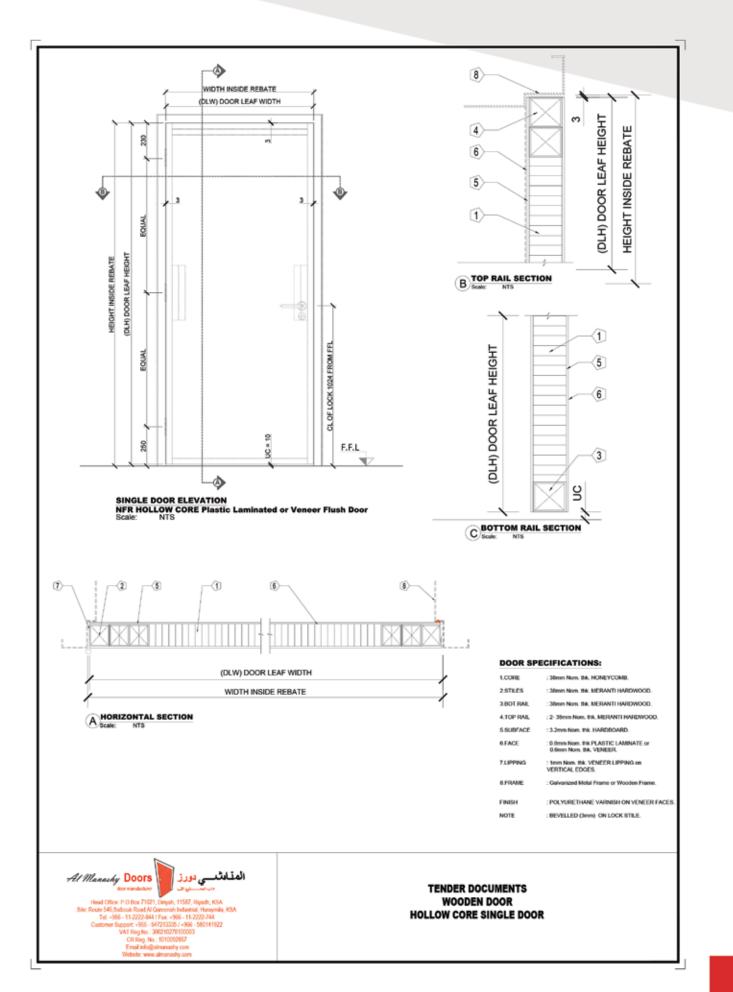


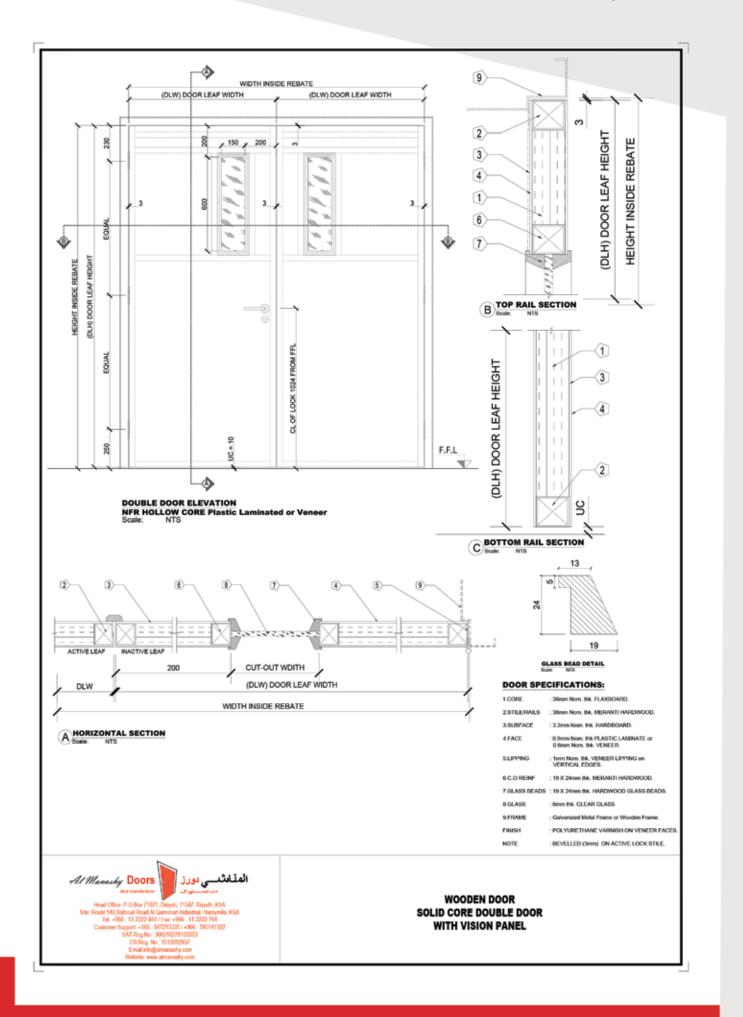
Al-Manashy Doors المناشب دورز

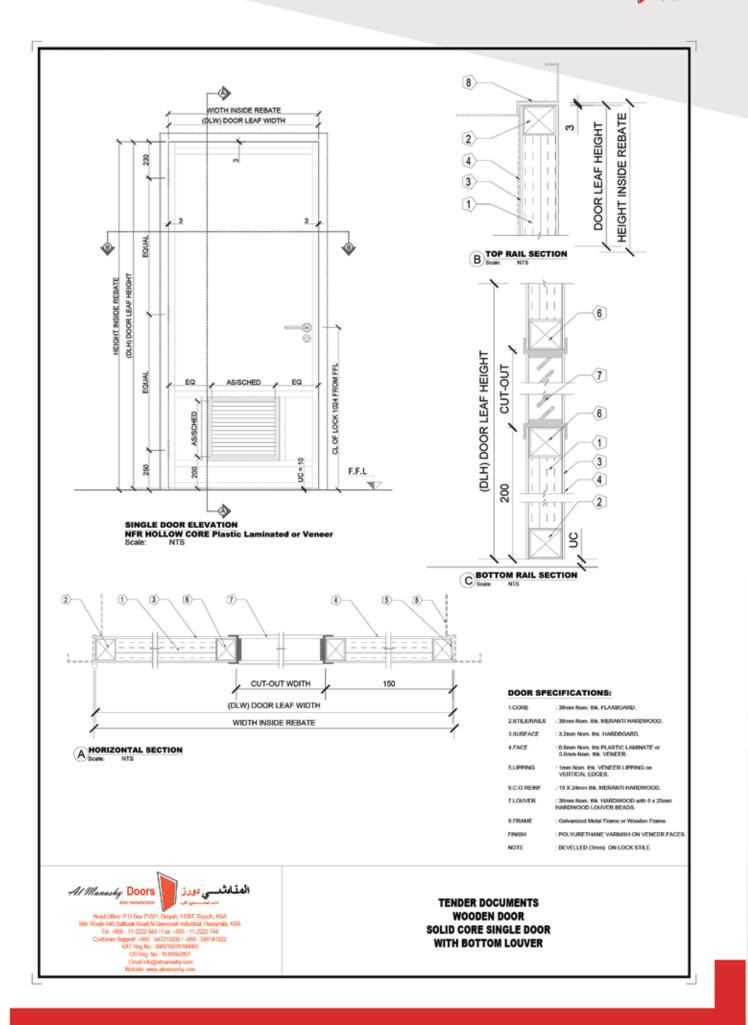




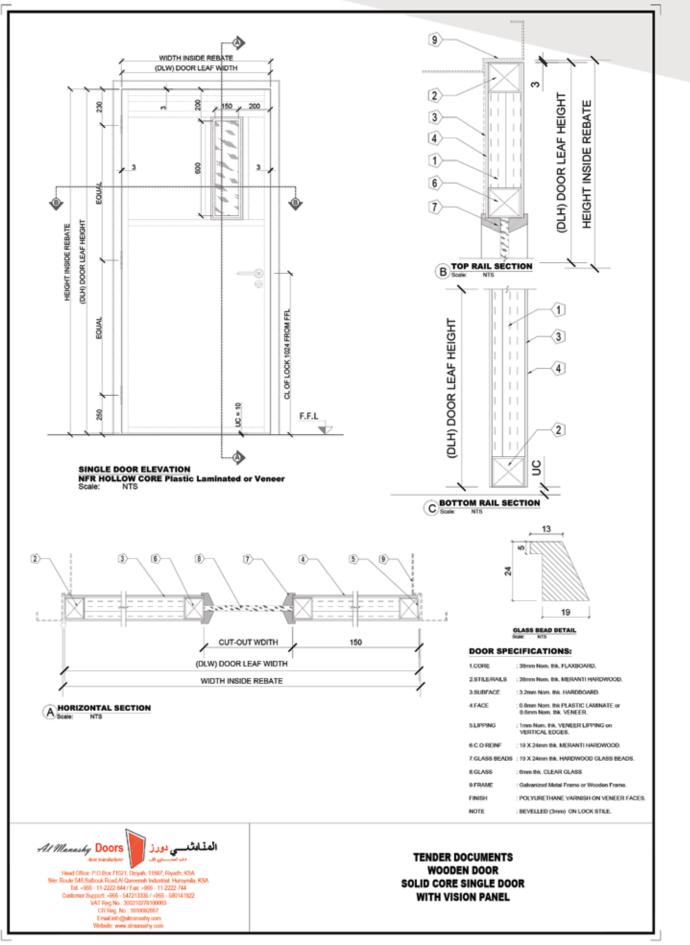


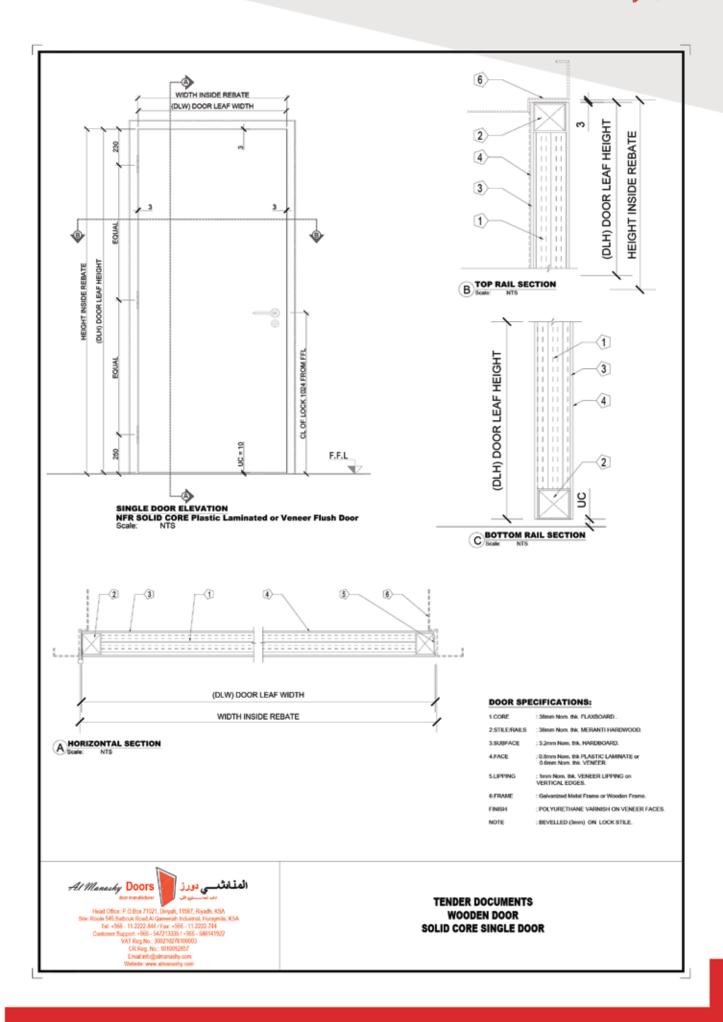




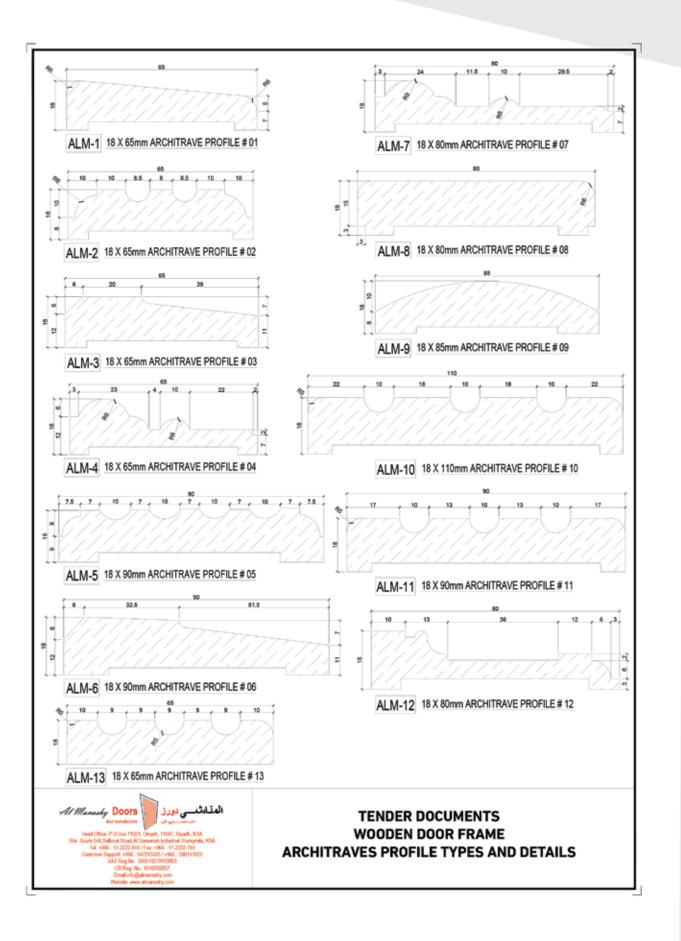














# Architeal Alumnium Systems Department

Preqalification Documents

# **PRE-QUALIFICATION**



# Company Overview

#### Introduction

Almanashy Group For Aluminum factory is a subsidiary of (Almanashy Industrial Group was founded in Riyadh, Saudi Arabia in 2009), a leading aluminum manufacture in the Kingdom of Saudi Arabia was established in Janu ary 2017, is specialized in design, manufacture, delivery and installation of wide rang of high quality Aluminum structures. Almanashy Group factory is set up on 20.000 square meters land at Harymla Industri-al City.

Since inception, Almanashy Group has successfully executed various prestigious projects in the Kingdom of Saudi Arabia. In addition to the pre – qualification approvals.

Right from the pricing stage to the final handover, Almanashy aluminum is capable of handling projects of any scale Kingdom-wide. Almanashy aluminum employees are aluminum professionals with long experience.

Whether the challenges are structural, aesthetic, timing or economic Almansahy employees can provide inval- unable input and they are capable willing to help its customers to complete the project with full of satisfaction.

Almansahy uses the latest technology (software and hardware) to provide highly sophisticated products in the market. The present capacity exceeds 2,000 tone per year on a single basis.

Today, it manufactures a variety of high quality products ranging from structural glazing, curtain walls, cladding, doors, domes, rolling shutters, and accessories In its continuous developments, ALmanashy has forges close links with specialized international firms and thus secures transfer of technology and licensing agreements.

Almanashy Aluminum executed many project with different systems (Schuco, Vista Wall, Technal, and Instal-lux)

#### **Our Facilities**

Through constant expansion and development programs, Almanashy are seeking to equip our factories with the latest and most advanced CNC machinery & equipment's and our company staff are multinational with extensive experience in the Curtain Wall industry

#### Aluminum factory

We specialize in the design, manufacturing, and installation of aluminum curtain walling, structural glazing, windows and doors in a variety of systems for every type of commercial and residential building

#### Steel fabrication

Our metal fabrication division specializes in skylights, canopies, handrails, steel doors, and steel shelves

#### **Cladding Factory**

We fabricate panels in a wide variety of non ferrous materials and finishes such as aluminum composite material, solid aluminum, brass, and copper with a capacity of more than 200,000m2 per year on a single shift



#### **Glass Factory**

Our Glass factory is fully equipped with Sand blasting, double glazing, Structural Glazing line and Tempering Lines. Moreover we have professional crew for Installing Frameless Glass Facades on commercial complexes, towers etc. We have been doing many prestigious projects all over Kingdom of Saudi Arabia

We have providedManashyGlass factory all that would meet the needs of the Saudi market for techniques, mechanisms and staff able to provide supply for any request, whatever the specifications and requirements of the Glass through the establishment of the factories which are able meet and provide for applications for Glass with global specifications and high quality and to certified warranty and not to forget the reasonable price for all of that. As our qualities are recommended by construction consultants and architecture. The factories have three lines for Tempering Glass in the latest models as well as safety Glass production line known as (Laminated glass) and other production lines. Our factory excels in all what is new and useful to the client. For example:

- Double-Glazed Glass.
- Ceramic Frit Designs.

- Digital Printing Designs.

- Tempered Glass.
- Sand Blast Glass.

- Fire-Rated Glazing.

- Bullet Resistant Glass.

- Blast Resistant Glass.

- Anti Bandit Glass.

#### Our Team

Manashy has over 150 employees that include professional managers, qualified, engineers, and specialized aluminum technicians



### **Our Quality Policy**

ManashyAluminum is committed to serve its customers through supply of products and solutions confirming to the best standards in the industry on a consistent basis through a dedicated team of professionals. Highest standards in processes, system & control are a priority to constantly upgrade the Quality at ManashyAluminum.

Our quality management system has been established across group operations from the initial customer enquiry through to the shipping of the finished product

Our products are manufactured from approved raw material and a guaranteed level of quality which meets order requirements, project specifications and standards, and thus ensure complete customer satisfaction. We aim to provide continuous quality improvements via the framework of established quality objectives, which are constantly reviewed.

Continuous improvement attitude would be an integral part of its systems at all times. Close association with Prime vendors to make available Quality inputs and employee development efforts on a regular basis would help SIAB Aluminum render an impeccable Quality of products and services.

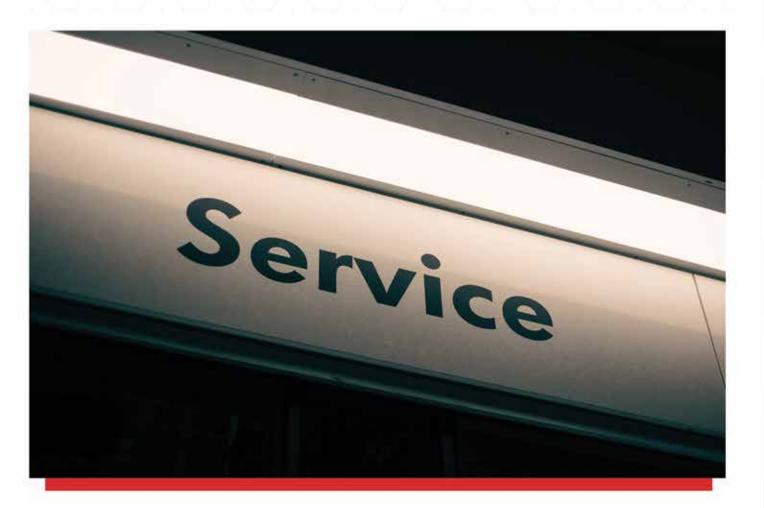
ManashyAluminum reiterates its emphasis on periodical review of Quality Objectives and systems and undertakes to upgrade them from time to time as demanded by its customers / market.

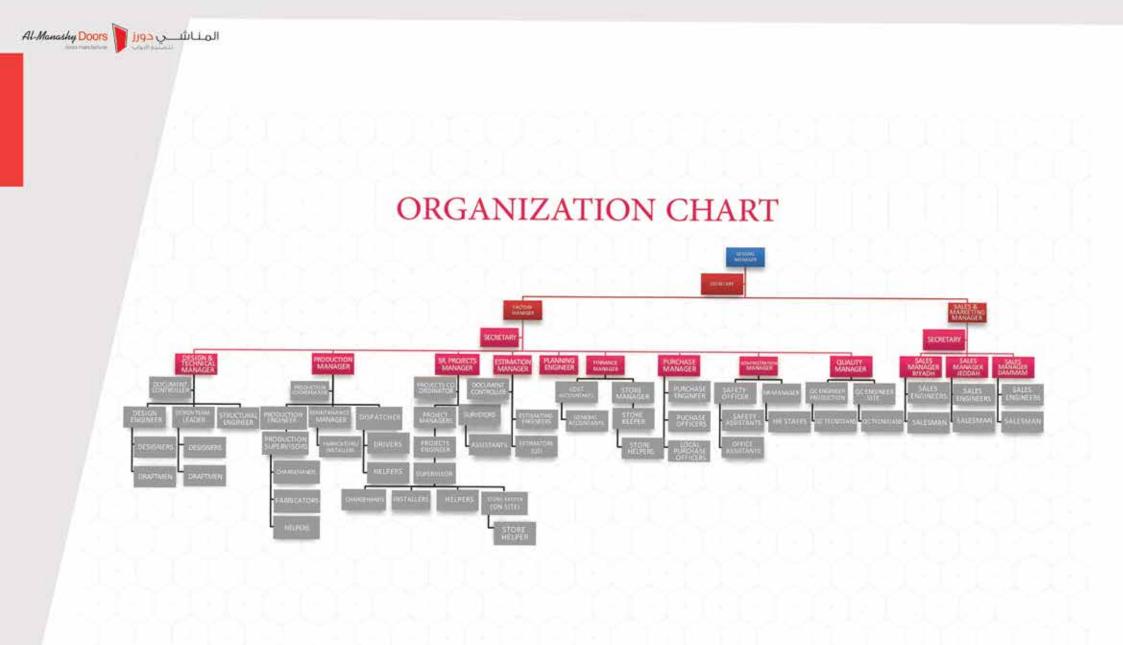


#### Services

Manashy offers a comprehensive range of technical service, enhanced by the Creativity and innovation of its professional staff. Some of our technical programs include:

- Assembly, Fabrication and Installation.
- Project Management.
- Providing proposals and solutions that meet customer requirements
- Early engineering consultation at various stages of project design and Specifications preparations.
- Concept Design & Engineering.
- Visual Mock-Up.
- Performance Mock-Up Testing.
- Supervision and technical support for project installation and maintenance
- Upgrade modification and development of used products.
- After Sales Services.

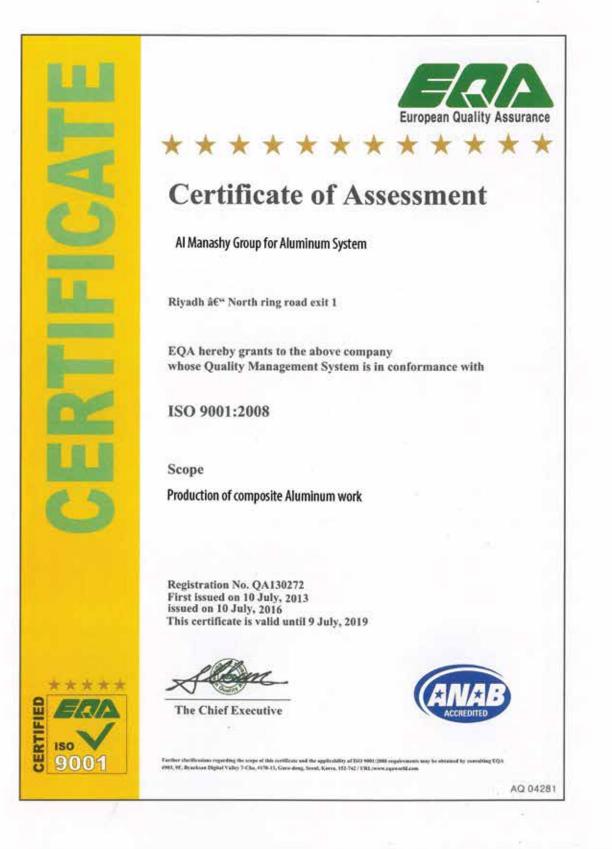






# **ISO Certificate of Assessment**

European Quality Assurance (EQA) Al Manashy Group for Aluminum System



	التاريخ، ١٤١٢/٠٩/١٢	) سیشہ کہ	شهئادة تسجب لي	التجارة والصناعة Ministry of Commerce and	industry
			اشي للتجارةوالصناعةواله	ي للشركة؛ مجموعة المن	الإسم التجارع
	معبوديه	جنسيتها ،	533	ذات مسلوليةمحد	توعها :
	تنتهى هى • ١٤٦١ / ١٢٦١	15411.41	تبدا من ، ۲	۳۰ سنة	مدة الشركة ،
(90			~ى	سيه الريان - حي الخزا	مركزها الرئي
	هاکس ، ۲۲۹۱۷۰		۲۲۹۱۸۰ هاتف، ۲۲۹۱۸۰	۷۱ الرمز البريدي،	ص.ب، ۱۰۲۱
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	کیب الواجهات	بدالكهربائي وتر	الحراري والمائي والتعدي	اعمال الطرق والعزل	
	لتجزئةفي مواد	رتجارة الجملةو ال	جاليدواجهات الالمنيوم و	الزجاجيةوالالمليوم ون	
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Commercial Registry Ministry of Commerce & Industry

Almanashy Group

المناشب دورز 🚺 Al-Manashy Doors



Almanashy Group

المناشب دورز 🔽 Al-Manashy Doors

الاشتراك ٢٠١٩ م	
Certificate of MemberSl القطاع التنفيذي	hip 2019
إدارة شلول السوية	Storical David Story
Inified Membership No. : 1010000 40640	رقم العضوية الموحد : ١٠١٠٠٠٠٤٠٦٤
Date of Issue : 03/12/2014	تاريخ الأصدار: ٢٠١٤/١٢/٠٣
Classification : First	الدرجـــــة: الأولى
liyadh Chamber of Commerce and Industry certifies that:	تشهد الغرفة التجارية الصناعية بالرياض بأن :
AL MANASHI CONT.CO	مجموعة المناشى للتجارة والصناعة والمقاولات
commercial Register No 1010092857	المقيدة بالسجل التجاري / الترخيص رقم ١٠١٠٠٩٢٨٥٧
legistered for this year.	مشتركة لديها لهذا العام .
he Certificate expires on 01/10/2019	وينتهي سريان هذه الشهادة في ٢٠١٩/١٠/١٦م
11 محف: 0229180 فاكس: 0229170	ص.ب: 286098 الرمز: 1323
مدير عام الإشتراكات	ختم الغرفية
	11.1 - 11. S. S. S. S. S. S. S. S. S. S. S. S. S.
(	("(nilidron v.). *)
$\langle c \rangle$	See Straight Frank
	اى كشط او. تعديل في هذه الشهادة بلغيها

	التاريخ، ١٤١٢/٠٩/١٢	) سیشہ کہ	شهئادة تسجب لي	التجارة والصناعة Ministry of Commerce and	industry
			اشي للتجارةوالصناعةواله	ي للشركة؛ مجموعة المن	الإسم التجارع
	معبوديه	جنسيتها ،	533	ذات مسلوليةمحد	توعها :
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(90			~ى	سيه الريان - حي الخزا	مركزها الرئي
	هاکس ، ۲۲۹۱۷۰		۲۲۹۱۸۰ هاتف، ۲۲۹۱۸۰	۷۱ الرمز البريدي،	ص.ب، ۱۰۲۱
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	کیب الواجهات	بدالكهربائي وتر	الحراري والمائي والتعدي	اعمال الطرق والعزل	
	لتجزئةفي مواد	رتجارة الجملةو ال	جاليدواجهات الالمنيوم و	الزجاجيةوالالمليوم ون	
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	15771	۱ وتاريخ ۱ ۱۱۱ ۱	بموجينا لإيسال دهم	ية الشهادة طيم. ١٤٤١ (٠٧٠	وتنتهي صلاحه

Commercial Registry Ministry of Commerce & Industry

Almanashy Group

المناشب دورز 🚺 Al-Manashy Doors



# **Industrial License**

Ministry of Commerce & Industry Almanashy Factory for Steel & Wooden Doors

	ارزم التجريل و والمنتاعة المعادر من المعادرية و الإحصالات الوارية - الشوون الودرية و الرقمان الدارية - الشوون الودرية و روقمان الدارية - الشوون الودرية و منابع - 14 - 14 - 14 - 14 - 14 - 14 - 14 - 1	ما در قارر	<u>.</u>	ں صناعے	ترخيه	صناعـة Ministry of	تجارة وال Commerce an	وزارة ال Industry	*
	infilmet.gov.sa infilmet.gov.sa Lettr				۱۴۳ شا		یخ : ۱۰۳/۲۸ ۲۵۵۲ بتاریخ		
	رمز المصنع ٣٢١١٣٧				ة و الخشبية	واب الحديدي	المناشي للأبو	🏢 مصنع	سم المصنع
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		ة محدودة)	ات مسئولو	۱۰۱۰ / شرکة ذ	والمقاولات (رقم السجل التجاري: ٩٢٨٥٧ .	ارة والصناعة	بة المناشي للتج	ا مجموع	للكية المصن
	الرمز البريدي ١١٥٨٧	Y	۱۰۳۱ 🗐	صندوق البريد				🏢 الرياض	لمدينة
						للطر: ۳۱۰۰)	الث (رمز الند	عي صنع ال	نشاط الصنا
	وصف المنتج	رمز المنتج	الوحدة	الطاقة الإنتاجية	وصف المنتج		رمز المنتج	الوحدة	طاقة الإنتاجية
	بواب معدنية وخشبية مقاومة للحريق	EETAT	وحدة	10	طرها مطعمة بقطع معدنية			وحدة	1
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	طابخ خشبية ومعدنية	4 91.71.9.	وحدة	0	1		41	وحدة	1
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### **Social Insurance**

General Organization for Social Insurance Almanashy Group



المناشب دورز 🚺 Al-Manashy Doors

# Zakat & Income Tax

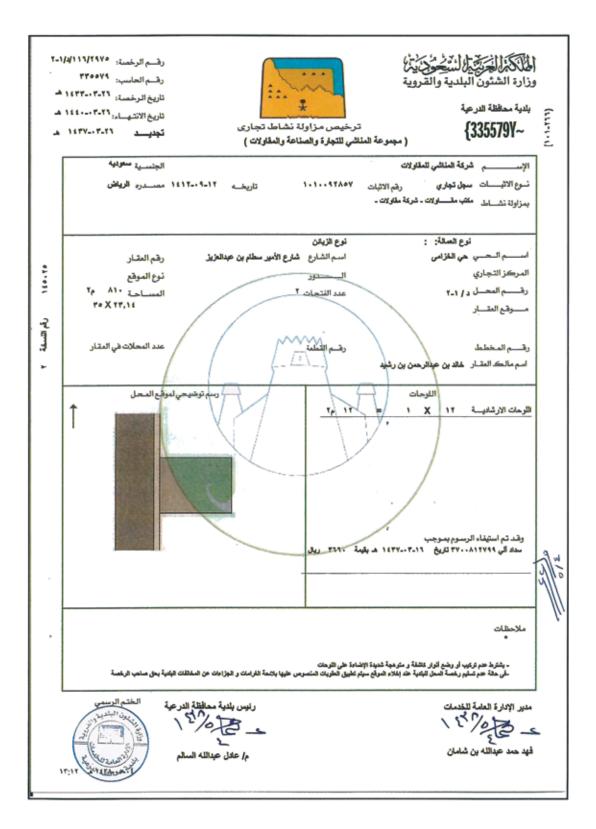
Department of Zakat and Income Tax Almanashy Group





### **Commercial License**

Ministry of Municipal and Rural Affairs Almanashy Contracting Co.





### **Environmental Permit**

Presidency of Meteorology & Environment Almanashy Factory for Steel & Wooden Doors





# Resource Manpower

المناشب دورا 🚺 Al-Manashy Doors

# **RESOURCE MANPOWER**

NO	DEPARTMENT	DESIGNATION		
1	HIGHER MANAGEMENT	General Manager		
2		Administration Manager		
	ADMINISTRATION	Administration Staff		
		Reception Staff		
		Office Boys		
-	ESTIMATION	Chief Estimator		
3		Estimation Engineers		
		Coordinator		
		Sales Manager		
4	Sales DEPT	Sales Coordinator		
		Sales Engineers		
1.1	TECHNICAL	Technical Manager		
5		Structural Engineers		
		Design Engineers		
c	FINANCE	Accounts Manager		
6		Accountants		
7	DESIGN	Design Manager		
		Design Engineers		
		Draftsman		
8	PRODUCTION	Production Manager		
		Production Engineers		
	PRODUCTION	Production Supervisors		
		Fabricators		
		Store Manager		
0	STORE	Store Keepers		
9	STORE	Store Assistants		
		Store Helpers		

Al-Manashy Doors المناشب دورز

# **RESOURCE MANPOWER**

NO	DEPARTMENT	DESIGNATION
10	$\rightarrow \rightarrow $	Purchase Manager
	PURCHASING	Purchase Officer
		Local Purchaser
11	MAINTENANCE	Maintenance Manager
	MAINTENANCE	Maintenance Engineers
12		Logistic Manager
	DISPATCH	Dispatchers
		Helpers
		Drivers
17	PROJECTS	Project Managers
		Project Engineers
13		Project Supervisors
12		Charge-Hands/Foreman
		Installers
		Unskilled/Helpers
14	$\langle \cdot \rangle \rightarrow \langle  \rangle $	Quality Manager
	QUALITY	Quality Engineers
		Testing Engineers
. Y		Planning Manager
15	Planning	Planning Engineer
13	riailling	Quantity Surveyor
		Document Controller



Machinery & Tools



# suppliers

المناشب دورز 🚺 Al-Manashy Doors

CATEGORY	SUPPLIER	COUNTRY OF DEALERSHIP/ORIGIN	
FAÇADE &WINDOW SYSTEMS	ALUPCO	SAUDI ARABIA	
	TECHNAL	France	
	REYNAERS	France	
	HUECK	GERMANY	
	AL TAISEER ALUMINUM FACTOR	SAUDI ARABIA	
	NAPCO	OMAN	
	GULF EXTRUSION S	DUBAI	
	ALUMINUM PRODUCTS CO.	SAUDI ARABIA	
GLASS MANUFACTURING BASE GLASS	GUARDIAN INDUSTRIES	SAUDI ARABIA, U.A.E.,	
	PILKINGTON	USA	
	FORD	USA	
	TROESCH	Switzerland	
	SAINT GOBAIN	USA	
	PILKINGTON INTRACO	USA	
GLASS PROCESSING	SAUDI AMERICAN GLASS	SAUDI ARABIA	
	GULF GLASS INDUSTRIES(GGI)	U.A.E	
	AL WAKEEL GLASS FACTORY	SAUDI ARABIA	
	TECHNOLOGIES GLASS FACTORY	SAUDI ARABIA	
	EMIRATES GLASS LLC	DUBAI	
	WHITE GLASS LLC	ABU DHABI	
COMPOSITE	ALPOLIC	JAPAN	
COMPOSITE PANELS	ALUCOBOND	GERMANY	
	REYNOBOND	FRACE	
	DOW CORNING	France	
CILICON	GE-BAYER SILICONE	USA	
SILICON	TREMCO (TREMSIL)	U.K	
	SIKA	USA	



CATEGORY	SUPPLIER	COUNTRY OF DEALERSHIP/ORIGIN	
	INTERNATIONAL RUBBER	U.A.E.	
GASKETS	TECHNICAL SEALS CO LTD	SAUDI ARABIA	
	TECHNO RUBBER	SAUDI ARABIA	
INSULATION	ARABIAN CHEMICAL	SAUDI ARABIA	
	SAUDI ROCKWOOL	SAUDI ARABIA	
	SAPTEX CO.	SAUDI ARABIA	
S-(()(	SAVIO	ITALY	
XING ACCESSORIES	DORMA	GERMANY	
	GEISSE	ITALY	
	HILTI SAUDI ARABIA	SAUDI ARABIA	
	SPIT	USA	
MBEDS & BOLTS	HALFEN-DEHA	GERMANY	
	GII LOCATELI	ITALY	
	JORDHAL	GERMANY	
STRUTURAL GLAZING &OTHER BONDING TAPE	TREMCO	USA	
	NORTON TAPES	USA	
	SCAPA TAPES	USA	
	SIKA	USA	
25070	GULF INTERNATIONAL TRADING	U.A.E	
TEEL	ATTIEH STEEL	SAUDI ARABIA	
CEL	AL FOZAN METALS	SAUDI ARABIA	
	SALEH SHAREEF TRADING	SAUDI ARABIA	
	AL SHARED TRADING	SAUDI ARABIA	
UTOMATIC SWING	DORMA ARABIA	U.A.E & GERMANY	
DORS/REVOLVING	RECORD	Switzerland	
LABORATORY &	AL BOKSOMATTI CO. FOR SURVEYING (SOKKIA)	SAUDI ARABIA	
ESTING	AL HOTY STANGER CO.	SAUDI ARABIA	
	AL FUTTAIN EXOVA	DUBAI	

المناشب دورا 🔰 Al-Manashy Doors

وكنب التعاونية للمتشارات القندسة الدرنية 🔹 وزارة العمل Cooperative Office for Civil Engineering Consulting شركة السبك للتجارة والمقاولات ALCORE. include a الموقع: بيشة اسم المشروع: انشاء مبنى مكتب العمل قديم المواد رقم التقديم السابق: رقم التقديم: الآ تقديم جديد Q52 🗆 إعادة تقديم تاريخ التقديم: ١٤٣٨/٨/١٣ هـ المرافق: ٢٠١٧/٥/٢٩ تاريخ التقديم السابق: □ ملاحظات اعتماد 🗆 معلومات غاية التقديم الخرى 🗆 مدنى 🗹 معماري 🗀 إنشاني 🗆 تكييف 🗋 صحى 🗋 كهرياء التخصص معلومات فنية 🗆 كتالوج 🗆 مخطط 🛛 شهادة 🗹 عينة مرفقات alla حالة الاعتماد المصتع/المورد اسم أو رقم وصف العادة مواصفات قطاع مرجع A قياسات مصنع المناشي حسب لأنظمة الألمونيوم المعمارية المواصفات أعمال الألمونيوم ملاحظات المقاول ممثل المقاول: استثناءات الاسم: محمد حسن الجماعي RAXN/NOT: EUSE التوقيع ع · Lat توصيات الاستثماري موهى ما يم لاماند من احما د العنات المع. مد مد الالتراج ما مالالالرين - canalogen early egillenters at aller in white Utrest. توصيات مهندمن المالك لا مانع من الاسماد بلار تلارى alical J IX a الماستسارى مدعه · 1/180 ili 51 ممثل المالك: ممثل الاستشارى: وران العسه ing a state of the state of the state التوقيع: : Illoug : الاسم: الحر التاريخ: ١ الوظيفة: 10/0512 I1 Redies: drin at 2. الناريخ is still ريا بد حالة الاعتماد: C |عادة التقديم مرفوض يعتمد بملاحظات D B A يعتمد

المناشب دورز 📔 Al-Manashy Doors

فركة تطوير المناتم









Project name	Educational Buildings Construction in Riyadh	Project no.	Riyadh111	
Contractor name	MOBCO - Civil Construction	Engineer name	Engr. Mohammed Fathy	
Consultant name	SAUD CONSULT.	Material submittal no.	111-MOB-SC-A-MS-0001	
Contract no.	TBC-SA-BD&&B-MOBCO-2007/2017	Date	30-03-2017	
To the Engineer		Approved Subcontractor (as applicable)		
Material Description One item only per	Pre-qualification Company documents	As per specification		
Form (system)	AlManashy Group for Aluminum System	Alternative		
Drawing reference		BOQ reference		
Specification reference		Standards, BS DIN	G iL S	
lanufacturer/Si	applier		BCO) بد الش ( مویک دارس	
Company name	AI-MANASHY Group	Locally manufactured	معمد بدنیة	
Address		Other details	کة مؤنس دعمال ۱، مشرو	
Local agent			×γ.	
Programme date material required on		Expected date of arrival on site		
site	Ashraf Ali Yehia	Date	30-03-2017	
Contractor's name	The second second second second second second second second second second second second second second second s	- ar enter		

name	Date	
Signature		

Engineer's comments XXX-ACM-PJM-FRM-00407 Rev 0A November 01, 2013

Page 1 of 2

الملكذ الجربيت السفودية Kingdom of Saudi Arabia ولفالتغليزالغان Ministry of Higher Education Jazan University خايع فخ اذان من : المشرف العام على إدارة المشاريع إلى : شركة أفراس اعتماد مورد تاني للأعمال الألمونيوم لمشروع مجمع كلية البنات بمحلية السادة / شركة أفراس المترمين السلام عليكم ورحمة الله وبركاته .... وبعد إشارة إلى خطابكم الوارد إلينا رقم ٦٦٥٣٨ بتاريخ ١٤٣٥/١٠/٠٧ هـ بخصوص اعتماد مورد ثاني لأعمال الألمونيوم لمشروع مجمع كليات البنات بمحلية عليه فإنه لا مانع من اعتماد شركة المناشى لأنظمة الألمونيوم المعمارية على أن تقدم العينات والمخططات قبل البدء في التنفيذ. و الله ولى التوفيق .... 20 ي د / محضيد على مم ارکی المشرف العام على إدارة الشاريع بجامعة جازان 170×1 .... المر فقات ، Q12 40/4/7 15410 الملكة العربية السعودية - جازان - ص.ب ، ١١٤ - هاتف ، ٧٢٢٢٠٠٢٨ - ٢٢٢٢٨٠٠ - ٢٢٢٢٨٠ K. S. A. - Jazan - P.o. Box.:114 - Tel : 073230028 - 3232800 - 073230029 - www.jazan.edu.sa



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		and the second second second second	طلب اعتماد تقديم		No: A01	رقم: 1
		Materials Sul	omittal - Approv	val Request	Rev:	راجعة:
roject : Gulf R	adio & T.V Building				عة وتلفزيون الخليج	شروع : مېنى جهاز اذا
	الأعمال المعدنية				دمر الإحميم Approval Code	
ومق البراد					ركة أنفال السعودية	1 - شر
Material				لت الحديدية والخشبية	صنع كونتراتو للصناء	A -T
Description	لمناشي لأنظمة الألمونيوم المعمارية				جموعة المناشي لأنظمة	^ <sup>r</sup> - ∞
تاريخ الثلايم ubmittal date		ـــَة //09/2014 Day/Mor	يرم ا شهر ا hth/Year	تائيم جديد New Submittal		
رقم التقديم		A011				م) [] Re-submittal
ىbmittai No. رىز التقيم	1			the second second		
bmittal Code	C-Civil 🔄 منئي	S-Str. آيشاني	مصاري 📕 مصاري	E-Elect. 🔄 كېرېقى	M-N 🗌 مېکاتيکې	Nech. G-General
البرققت	Sample		Drawing			
Attachments	Catalogue Other Description					
ملاحظيات						
Comments:		110-				
100	يعتمد حسب التقريم		ات راعادة تقديمه	يعتمد بحد تنقيذ الملاحظ	براوش	
Submittal is:	A Appproved as submitted		C Revise and	Resubmit	E Returned 1	Without Action
	غير محمد الملاحظات			للمعلومات		
	B Approved as noted		D Disapprove	d	F For Inform	sation
Submittal Follow up Information	Client:		Contracto المالك:	or:		لمقاول:
	Approved by:	-10	For Contrac	stor :		تقديم براسطة:
	Name: 3	hel it	Name:			لاسم: م/ على كرار
مطومات مثايمة الثقا	Sign & Stamp:	1	Sign & Sta التوقيع والفقر:	mp:	-	1.3
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	Date:	MATATE/U	Date: التاريخ:	100 1000	2 c) (c	-149/9 :000



Ministry of Interior





Ministry of Education



Ministry of Health



المناشب دورز 👕 Al-Manashy Doors

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### **Letter of Accreditation**

بيئ التراكية الملكة المتناليكي اد أولي المناه الرقم/ ١٤٢٥/١٩٨٣٨ التاريخ/ ١٤٢٥/٠٧/١٩ المرفقات وَرَالاً الْحَدَدِلْ (YYY) المرضع الإدارة العامة للمشاريع KTO ST 1 إدارة الدراسات والتأهيل السادة / مصنع شركة المناشى لأنظمة الألمونيوم المعمارية. المحترمين (فاكس ١١/٢٢٢٢٢٤٤ ص.ب ٧١٠٢١ - الرياض الرمز اليريدي ١١٥٨٧ ) السلام عليكم ورحمة الله ويركاته ... ويعد إشارة إلى خطابكم رقم ٣٥/٦٥٥٧٧١ بتاريخ ١٤٣٥/٠٢/٢٨هـ بخصوص تأهيل مصنعكم واعتهاده ضمن القائمة في مشاريع الوزارة في مجال تصنيع الأعمال المعدنية والزجاجية المقاومة للحريق والإنفجار والعازلة للصوت والحرارة ، وبعد زيارة المصنع وتقرير الزيارة نفيدكم بأنه قد تم تأهيل مصنعكم واعتمادكم في المشاريع ضمن قائمة الشركات المؤهلة لمشاريع الوزارة في مجال أعمال الألمنيوم والحديد 🖉 والله الموفق.. Æ مدير عام الإدارة العامة للمشاريع م/ سعد بن عايد الحازمي غرذج رقم ٣ • - ٧ - - ١

## product range





#### Stick System and Structural Glazing





- Glass Loads up to 650 kg possible.
- Main mullion profiles up to 250mm depth available based on project & structural stability requirements.
- Width of profiles available in the range of 50 to 60mm.
- Varied design requirements can be accommodated due to wide variety of pressure plates, cover caps & bullnose profiles.
- Better thermal insulation factors.
- Glass of up to 64mm (triple glazing) can be accommodated.
- Special profiles available for vapor barrier & wall attachments plus a range of insert units for concealed vents, doors etc.

#### Types:

- 4-sided structural glazing with dry & wet sealing options available. 2 types of gasket options available. Surface mounted on glass & recessed u-gasket type.
- 2-sided structural glazing with dry & wet sealing options with concealed vents.
- Conventional curtain wall (metal cap-external facia) with concealed vents.
- 4-sided structural glazing with tilt & turn or parallel opening system.

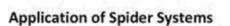






### Spider System





- Large main entrance facades of buildings and shop front facades.
- Glass canopies.
- Skylights and domes.

### **Balustrade Systems**

- Railings
- Balustrades







### Door Systems

- Hinged Doors .
- **Sliding Doors** •
- Automatic Doors •
- **Revolving Doors** .
- Folding Doors •



















#### Types:

- Thermal & non-thermal heavy & medium duty hinged doors with better u-value performance. Profile depth ranges from 45mm to 90mm with excellent compatibility with different brands of security systems.
- Thermal & non-thermal heavy & medium duty double swing doors.
- Thermal & non-thermal heavy & medium duty sliding doors with multi-track options & glass thickness of up to 54mm available.
- Automatic sliding doors with framed (thermal, non-thermal) & frameless options.



### Window Systems

- Hinged Windows
- Sliding Windows
- Top & Bottom Hinged Windows
- Tilt & Turn Windows
- Pivot Windows
- Lift & Slide Windows















#### Types

- Thermal & non-thermal heavy & medium duty hinged windows with better uvalue performance. Profile depth ranges from 50mm to 90mm or more with excellent compatibility with different brands of security systems & international window accessories. The types include, top hung, side hung, bottom hung windows with optional provision of removable or fixed fly screen & central gasket option as per customer requirements. Slimmer profile option available for maximized external vision. With installation of appropriate motorized mechanism, can be used as a smoke detection vent.
- Thermal & non-thermal heavy & medium duty sliding windows.
- Pivot windows which can be function as horizontal or vertical as per requirement.
- Thermal & non-thermal heavy duty lift & slide window & can be also used a normal sliding window. High in performance to suit daily needs.
- Tilt & turn windows which can either tilt or open from the top or can open inwards hinged at the side. Available both in thermal & non-thermal range of systems.

### **Metal Cladding**

- Wall Cladding
- Column Cladding



#### Specifications:

- PANEL THICKNESS: 3, 4 & 6MM.
- PANEL WIDTH: 1000, 1250, 1575mm (MAXIMUM).
- PANEL LENGTH: UPTO 7METRES AVAILABLE.
- Newly developed composite material like Titanium Composite Material (TCM), Stainless Steel Composite Material (SCM) & Zinc Composite Material(ZCM) have been introduced in the market. TCM & SCM are used for projects in which longevity is essential & ZCM offers a nature-oriented finish that features natural weathering.

#### Area of application:

- For external facades.
- For restoration purposes of old buildings in order to give it a new look.
- Decoration of interior walls, ceilings, bathrooms, kitchens and balconies
- Shop's door decorations
- Advertisement boards, display platforms and signage.
- Wallboards and ceilings for tunnels.
- For roof-top or main entrance canopies.
- Column decorations.

### Canopies

Canopies create an aesthetical effect to the building architecture, be it used at the entrance of the building or as a decorative feature in the roof. It usually consists of steel structure with aluminum cladding or steel structure with spider glazing/point fixed glazing or combination of both or with tension cables & rods to give more sophisticated look to the facade. The advantages of using the canopy at the main entrance are that the entrance to the structure does not sustain direct weather harshness.



The exterior steel finish shall be galvanized or hot deep galvanized which provides additional protection and isolation from the corrosive attacks of chlorides and sulphides, which can be specified as per the requirement of the project.

The aluminum cladding used in fabricating the canopy shall be (4) mm thick depending upon the project specifications.

Whenever using a glass canopy, utmost care should be taken in the selection of the glass as it has to be laminated to avoid any injury during breakages.

All steel work sustaining the load of the canopy is structurally checked against different load factors like wind load, dead load & live load.

### **Domes and Skylights**

Skylight is like a horizontal window or opening place in the roof to admit natural daylight or to give a clear vision of the sky at night. Materials used for admitting light or to provide vision can be glass or acrylic sheets depending upon the project requirements framing members supporting such type of materials can be either aluminum profiles or steel framing suitably treated to avoid corrosion.



#### Area of application:

Roofs of Train Station/Airport lounges. Villa Roofs for admitting natural daylight. Commercial Establishments like Shopping Centers. Industrial Establishments

#### **Steel Structures**

Steel structures are a combination of elements like steel tubes, I-Beams, C-Channels used to hold free standing curtain wall facades, canopies, skylights, spider system facades & many other areas where applicable. This can be a fixed structure or a movable design to take into consideration the building movements itself.

The finish of the steel structure can be hot-dip galvanized for concealed areas or as per the project approved color for visible areas.

As part of our quality procedures, we ensure that all steel structure works are carried out by certified welders & fabricators & based on approved series of international standards, be it MIG or TIG welding.

Our design team designs all types of complicated steel structure based on 3-D modeling on ACAD & simultaneously simulating in structural software tools like STAADPRO ensuring the desired level of output as per the design intent of the client.

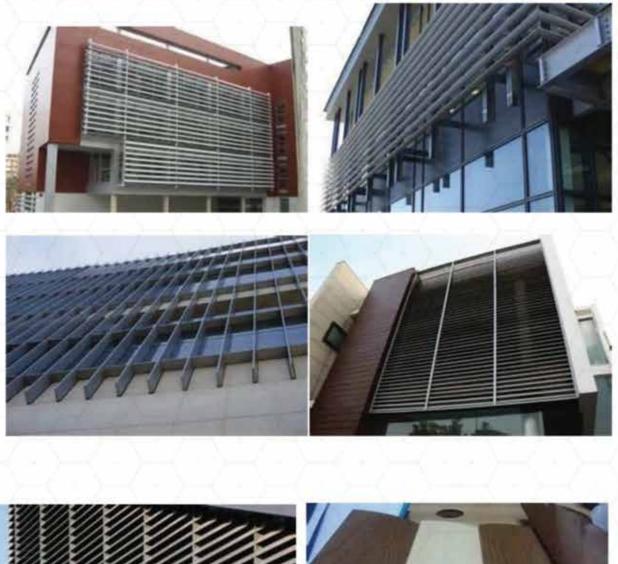






### Louvers

Commercial louvers which can reduce up to 80% of direct radiation effect are available with us. Louvered doors & air intake or exhaust louvers matching project requirements are also provided by us. Options of manually & electrically operated is also available.





### Louvers

Commercial louvers which can reduce up to 80% of direct radiation effect are available with us. Louvered doors & air intake or exhaust louvers matching project requirements are also provided by us. Options of manually & electrically operated is also available.













### **Roll-Up Fly screens**

Both motorized as well as manual options available.











### **Offices Partitions**

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المتاشب المتاشب Al-Manashy Doors 🔰 المتاشب

## **Awarded project**

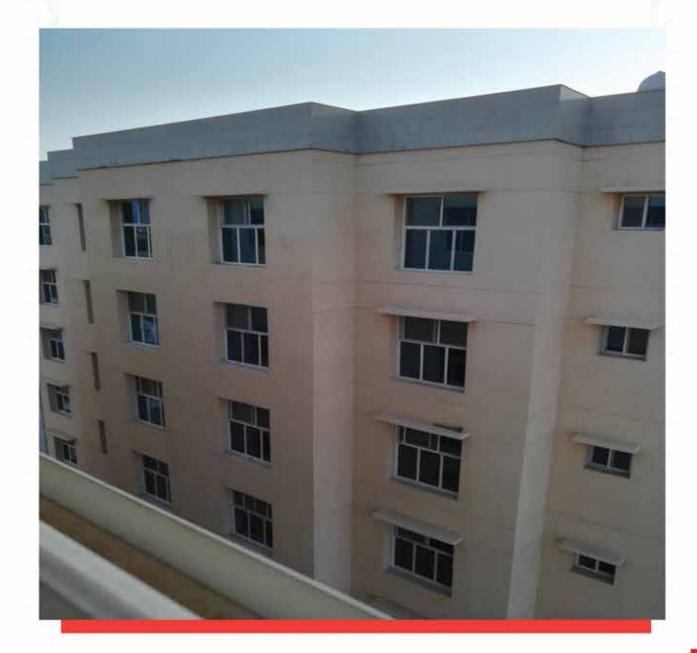


### Mental Health Hospital -Sakakah

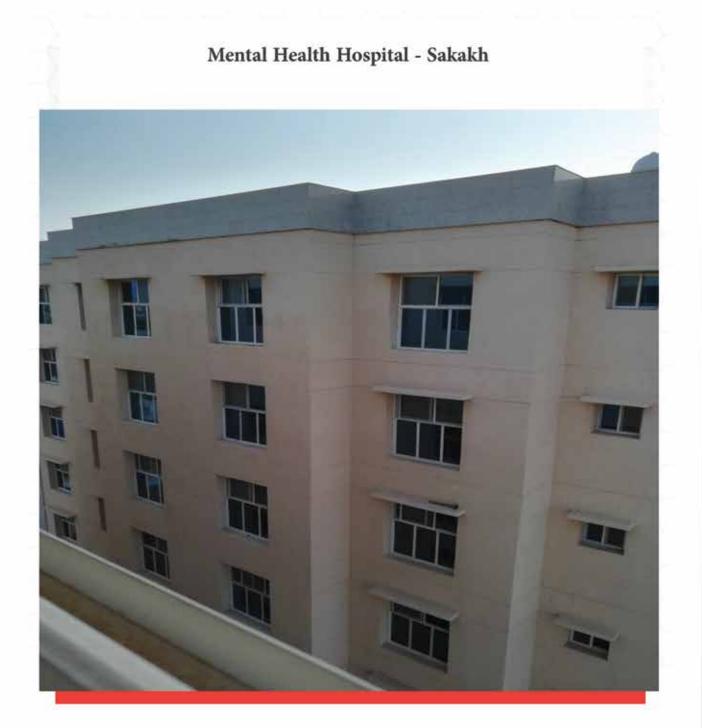




### Mental Health Hospital - Sakakh

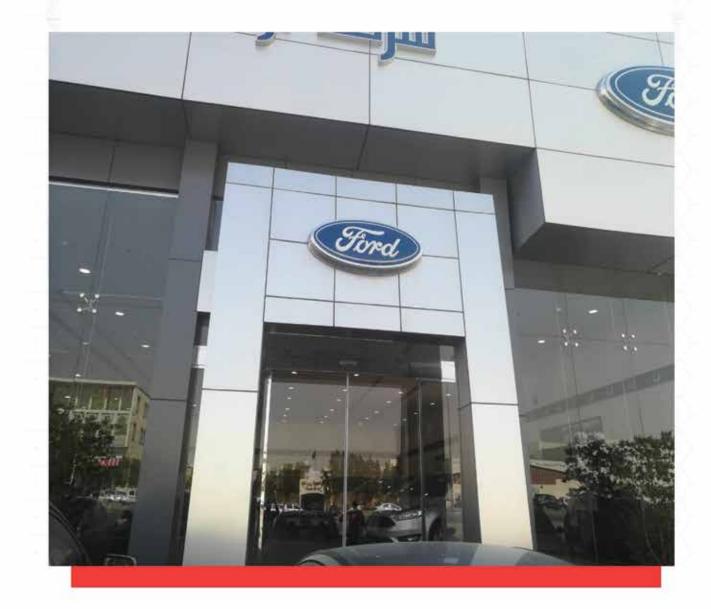






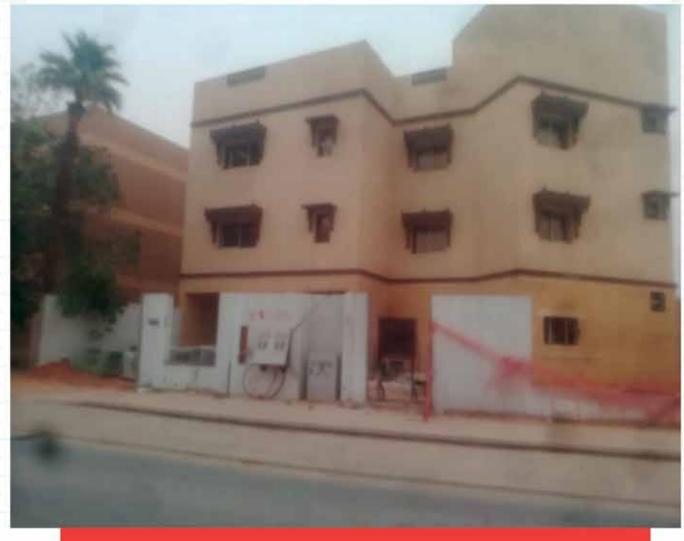


### Ford Show Rooms - Riyadh - Dammam





### **Embassy Villas Project**





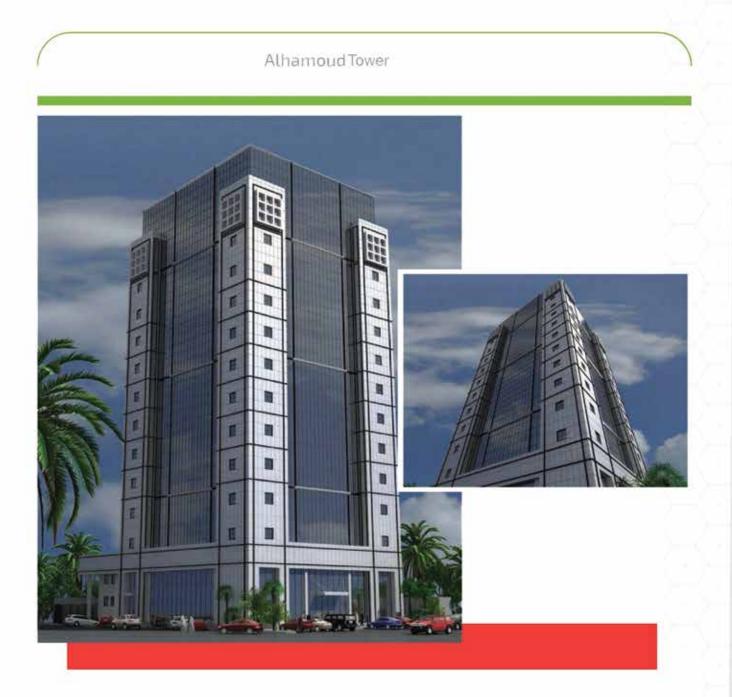




### M.O.E Headquarter - Abha









# Alhamoud Tower

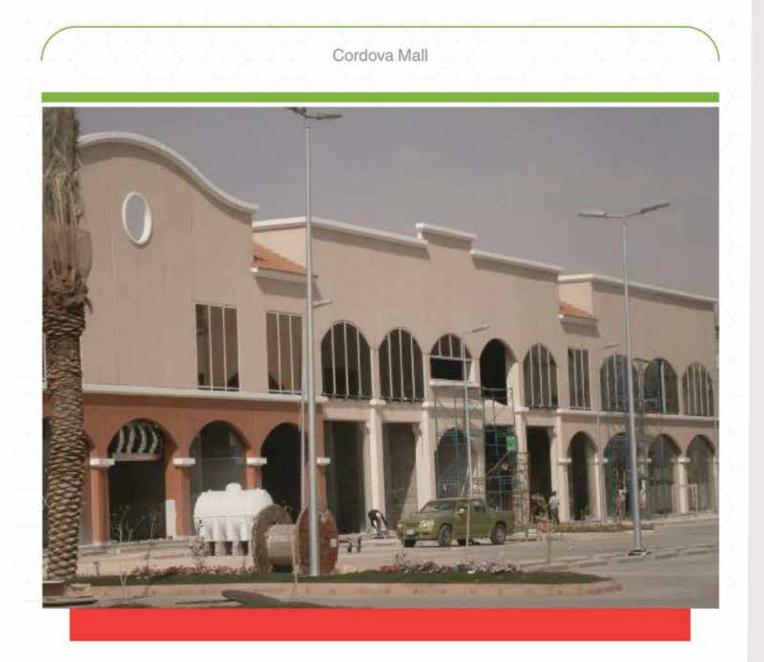




Elhaqbani building









#### Dar Alsafwa Schools (Riyadh, Jeddah)





LAND ROVER & JAGUAR SHOWROOM

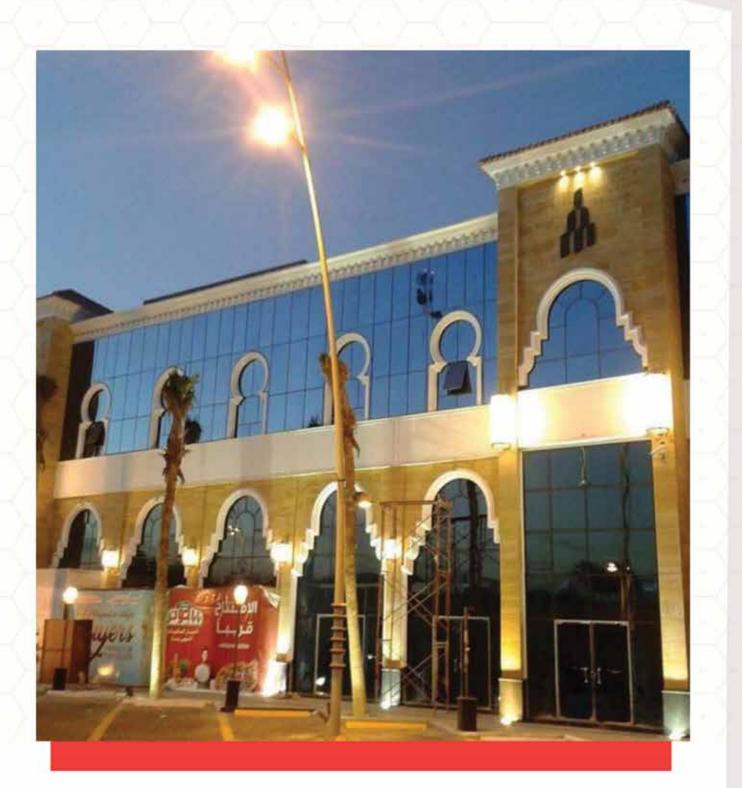


#### Project Name: Building Administration Porsche - Audi





## Project Name: Al-Issa building







## Project Name: College Of Science - Buraidah





# Project Name:me<sup>.</sup> College Of Science -Buraidah







## Layalina Villas - Jeddah





#### Project Name: Layalina Villas – Jaddah







## Layalina Villas - Jeddah





#### Project Name: Layalina Villas – Jaddah

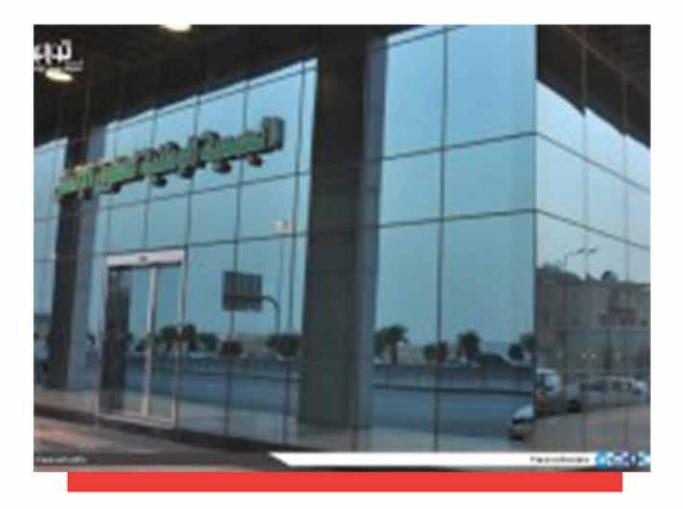














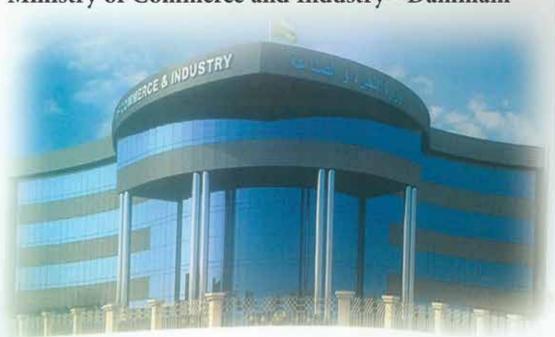




#### Project Name: ALDAWOUD SQUARE







## Ministry of Commerce and Industry - Dammam





#### Al dawoud (B ) Show Rooms & Offices



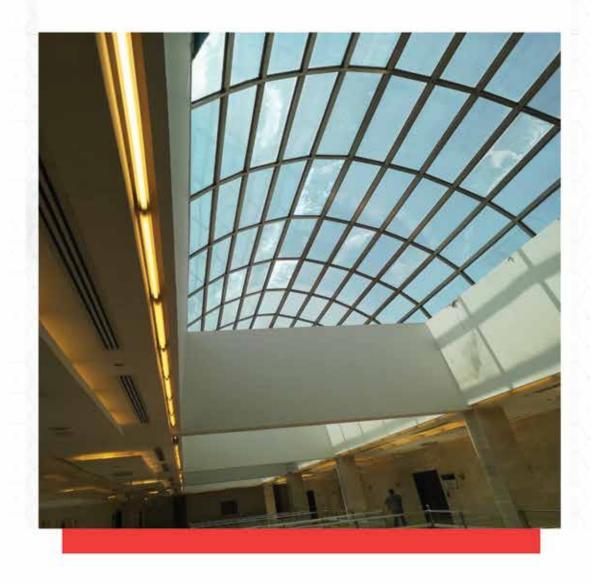


## Al Haqbani ( B ) Head Office - Riyadh





## Al Haqbani ( B ) - Riyadh





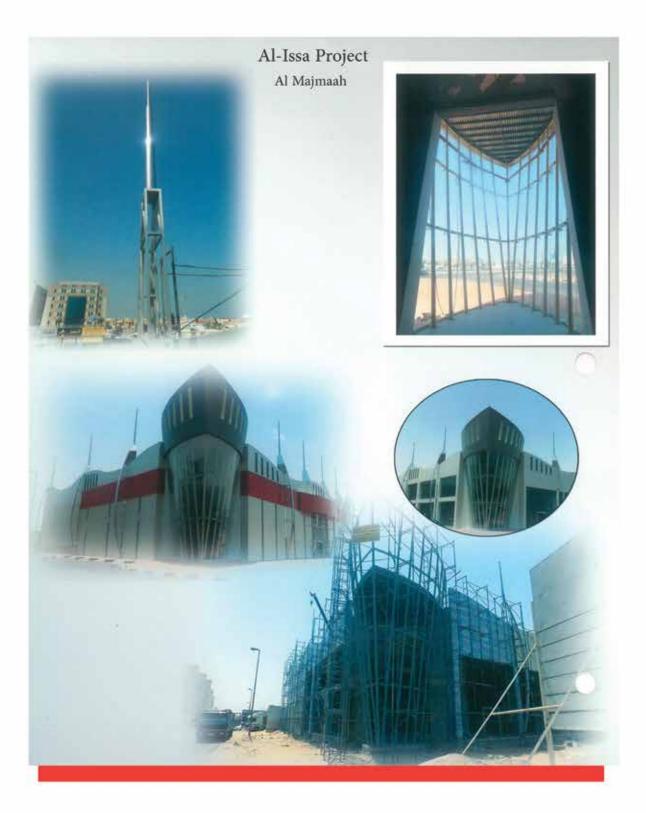
## **Cooperative Association - Riyadh**













#### Project Of Zakri - Riyadh













# Prince Sultan University



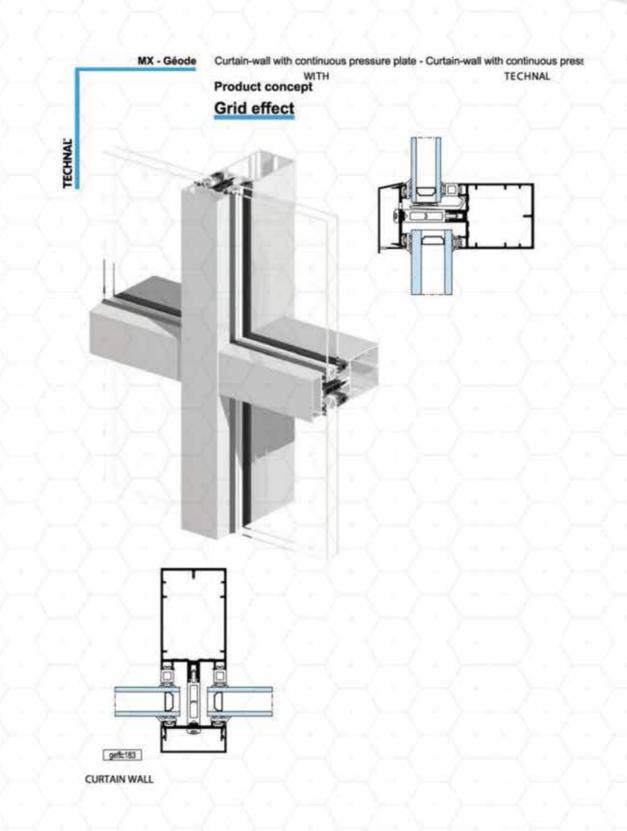


# **ALUMIUNM SYSTEM**

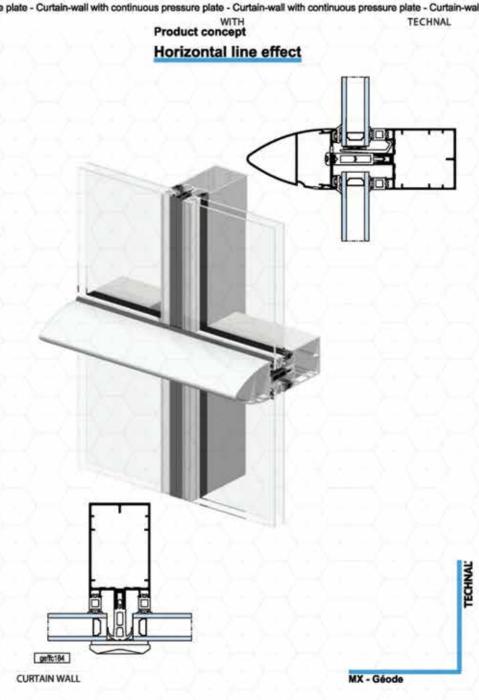








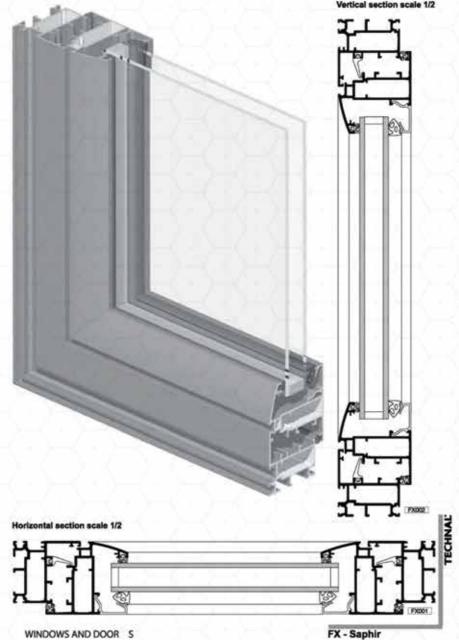




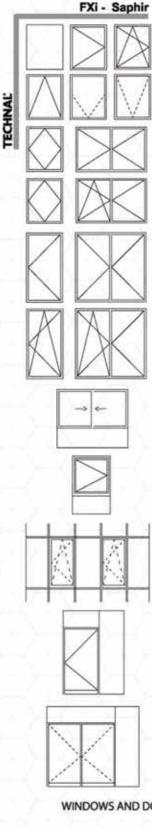
sure plate - Curtain-wall with continuous pressure plate - Curtain-wall with continuous pressure plate - Curtain-wall



3 - Standard casement frame - Standard casement frame - Standard casement frame - Standard casement frame -TECHNAL



Vertical section scale 1/2



#### Thermal-break casement frame - Thermal-break casement frame - Thermal-break

TECHNAL

#### FXi product overview Product overview

#### OUTER FRAME

- 3-chamber, thermal-break, 52 mm-module tubular profiles - Mitre-cut assembly using self-locating crimp
- or pin corner cleats to join cut sections - Flush rebate bracket
- Infill volumes identical to those for fixed lights
- from 14 35 mm. - Marine quality EPDM wraparound gaskets
- with reduced flashing - Square or rounded mitre-cut glazing beads
- Drainage via oblong apertures protected by storm deflectors
- Drainage concealed in outer frame groove.
- Options: · Drainage concealed in top or bottom fixed
- light transom using patented drainage spouts
- Subframe outer frame
- · Outer frame with integrated architrave Grooveless outer frame

#### **OPENING FRAME**

- 3-chamber, thermal-break, 60 mm-module tubular profiles flush with outer frame on outside

- Mitre-cut assembly using self-locating crimp or pin corner cleats to join cut sections
- Support bracket in external tubing
- Flush rebate bracket
- Infill volumes identical to opening lights from 14-35 mm.
- Marine quality EPDM wraparound gaskets with reduced flashing
- Square or rounded mitre-cut glazing beads
- Drainage via concealed oblong apertures
- -Aluminium plugs for 2-leaf windows in identical colour to profiles
- Rounded central rebate. Identical window and patio door opening frames.
- Options :

#### · ECLAT type rounded central rebate with centred handle and reduced 115mm sight line · Locking opening frame for patio door

WINDOWS AND DOOR S

#### ACCESSORIES

- Aluminium or zamak accessories
- Adjustable aluminium hinges with polyamide bushings and stainless shafts
- Tilt-and-turn hardware for 90kg weight with 130kg option. Identical appearance for tilt-andturn and in-opening hardware on inside for 2leaf frames.
- TECHNAL® designed handle and latch
- Steinless screws
- 1- or 3-point locking for patio doors with rods in rebate
- Bottom-hung in-opening handle 'SF' option for tilt-first T/T version
- Square-shaft handle option with embedded espagnolette and 43mm escutcheon

#### APPLICATIONS.

- Fixed frame
- In-opening, 1 and 2-leaf window and patio-door
- Titl-and-turn 1 and 2-leaf window and patio-door
- Bottom-hung window
- Horizontal-pivot window
- Vertical-pivot window
- Top-hung window
- Top-hung window on butt hinges
- 1 and 2-leaf locking patio door
- ECLAT version window and patio-door
- 1 leaf window on bottom fixed light

- GXI series sliding frame composites
- PXi series integration - MX series integration

#### INSTALLATION

- Using jackscrews
- Using fixing lugs specially designed to avoid thermal bridges
- Flashing for additional 80-160 mm linings
- Outer frame with integrated subframe for 100 mm lining
- Single-piece inside sill for 100 120 mm offset sill installation

- - composite frame
  - FXi composites



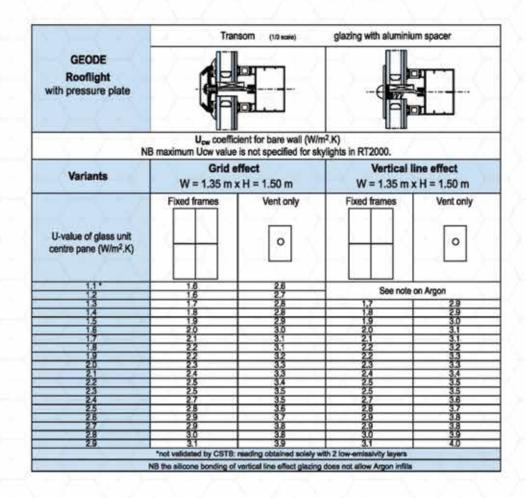
Grid and vertical line effects: FM155 + FM032 + FM048 cap + FM167 transoms + FM063 cap + HM508 vent

Sg glazing solar factor (including any solar protection)	Sw Solar factors - winter			
	Fixed light Sw factor for all finishing Bare external fitting	Vent Inclusive value α according to joinery finishing		
				0.4 blue, yellow, orange, pale red
		0.1	0.10	0.10
0.2	0.19	0.18	0.21	
0.3	0.28	0.26	0.29	
0.4	0.38	0.34	0.37	
0.5	0.47	0.41	0.44	
0.6	0.56	0.49	0.52	
0.7	0.65	0.57	0.60	
0.8	0.75	0.65	0.68	

Sg glazing solar factor (including any solar protection)	Sw Solar factors - summer			
	Fixed light Sw factor for all finishing Bare external fitting	Vent Inclusive value $\alpha$ according to joinry finishing		
				0.4 blue, yellow, orange, pale red
		0.1	0.10	0.11
0.2	0.20	0.19	0.24	
0.3	0.29	0.27	0.32	
0.4	0.38	0.35	0.40	
0.5	0.47	0.43	0.47	
0.6	0.57	0.51	0.55	
0.7	0.66	0.58	0.63	
0.8	0.75	0.66	0.71	



#### plate - Rooflight with continuous pressure plate - Rooflight with continuous pressure plate - Rooflight with conti Y WITH TECHNAL



TECHNAL

MX - Géode





TECHNAL

#### WITH

MX Toggle - Géode

.

TECHNAL

Curtain wall - Curtain wall - Curtain wall - Curtain wall - Curtain wall - Curtain wa

#### Product concept

The façade Mx Toggle GEODE is a system creating a flush-filted glass façade, combining the use of fixed achieved by using profiles that are only visible on the room side. From the outside, only the glazing and glazing units, top-hung vents, aluminium composite panels and glazed spandrel panels. The appearance of structural glazing is slender shadow joints are visible.

#### Sealing: wet sealant

#### STRUCTURE

- 52mm module multion-transom grid.
- · 20-240mm depth.
- Steel reinforcement (stendard)
   Auminium or steel sleeve.

 Auminum or steel steeve.
 Square-out mulicin/transom linkage.
 Assembly using connectors fixed on the transom for face-on mounting.
 Specific junction pixes for side-on mounting.
 Weathering on multicin/transom assemblies using connector plugs.

#### ALL GLASS EFFECTS

. Fixed trames with an infit of 30 to 32.8mm for the vision parts.

Spandrel panels with glazing of 6 or 8mm.
 Concealed top-hung windows of 23 or 31mm.

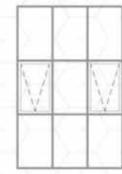
#### FIXED FRAME GLAZING

 A continuous aluminium profile is integrated between the 2 glasses inside the silicone chamber for the flaation on the curtain wall interventer. structure.

Double glazing units are securely fixed by aluminum support pieces screwed on the transoms and mullions.

#### TOP HUNG CONCEALED SASH

- · SSG-type glazing is carried out by qualified companies following technical specifications and instructions from Technal and sealant supplers.
- · Steinless steel adjustable friction stays.
- Central multipoint lock.
   Gasket for fixed-opening frame weathering
- proofing maximum weight from 60 to 120 kg.



\*The conception and dimensions of the systems presented in this catalogue are in compliance with

the French and / or European regulations applicable at the time of the realization of the document. The aluminum fabricator and/or consultant are entitled to check if these conceptions and dimensions have to be adapted according to local legislation and all other relevant norms and standards.

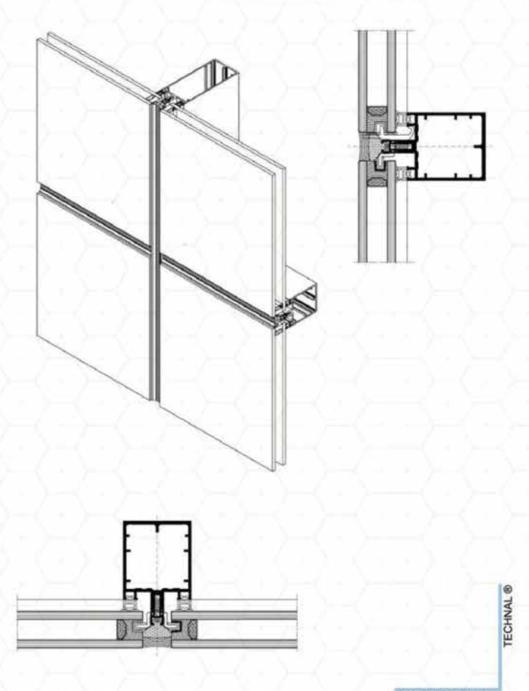


### WITH

TECHNAL

II - Curtain wall - Curtain wall - Curtain wall - Curtain wall - Curtain wall - Curtain wall - Curtain wall - Curt

Product concept Toggle 4 sides effect



MX Toggle - Géode

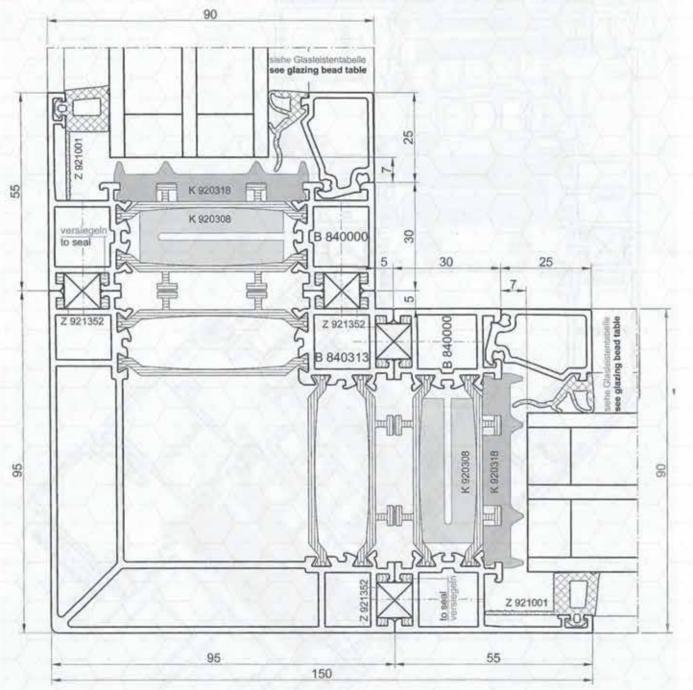
STRUCTURAL SYSTE M

Al-Manualy Dices 📔 (12.5) - ilitical





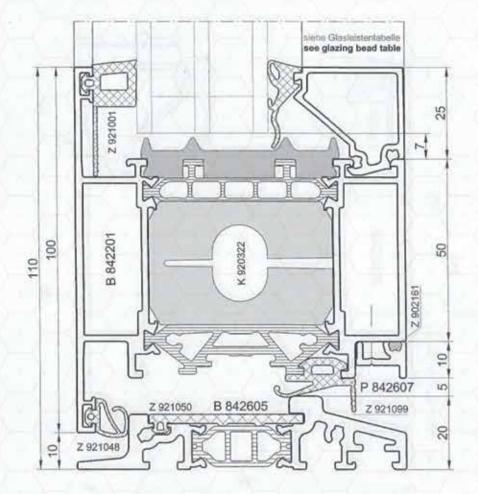
Horizontal section 90° external corner





Vertical section Opening out









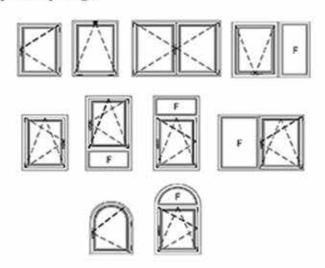
## ALUPCO SARAYA 40MM HINGED WINDOW SYSTEM

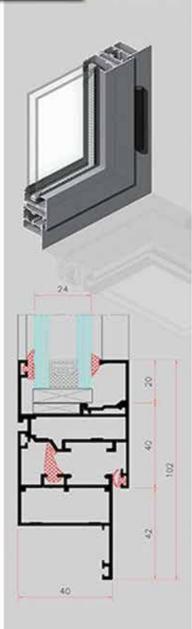
#### **Product Specifications**

÷	Profile Size/Depth	÷	Frame - 40mm & 80mm
			Shutter - 47m
	Assembly/Join	÷.	Frame - Joint with 45"
			Shutter - Joint with 45°
	<b>Profile Thickness</b>	:	Varies from 1.3mm to 2mm
	Glazing	:	SG = 6mm, DG = 18mm & 24mm
	Rubber Gaskets	1	EPDM
•	Accessories	÷	Handles, Hinges etc. Suit to Euro-Groove
			Available in the Local Market.

#### System Check

- Air Infiltration : (As per UNI-EN 42) - Pased - Water Penetration : (As per UNI-EN 86) - Passed









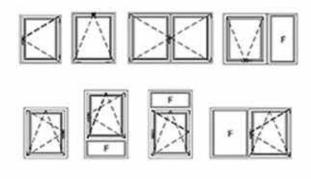
HINGED WINDOW SYSTEM Thermal Break

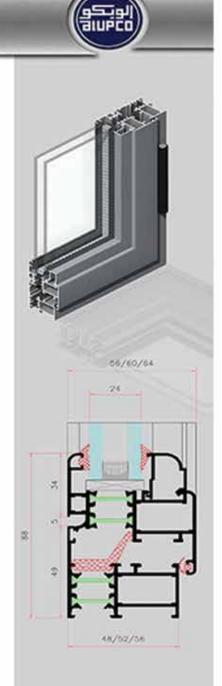
#### **Product Specifications**

	Profile Size/Depth	:	Frame - 48mm, 52mm, 56mm
			Shutter - 56mm, 60mm, 64mm
18	Assembly / Joint	Ŧ	Frame - Joint with 45"
			Shutter - Joint with 45"
	<b>Profile Thickness</b>	:	1.5mm and 2mm
	Glazing	1	24mm to 32mm Double Glass
	<b>Rubber Gaskets</b>	:	EPDM
	<b>Polyamide Strips</b>	÷	I-Shape (16mm, 20mm, 24mm)
	Accessories	i	Handles, Hinges and Locks etc.
			Suit to Euro-Groove and available with
			GIESSE, SAVIO, MASTER, LAVAAL etc.

#### System Check

*	Air Infiltration	:	(As per	ASTM	E283:1993) - Pas	sed
	Water Penetration	:	(As per	ASTM	E331:1993) - Pas	sed







#### ALUPCO GOSS SYSTEM

THERMAL BREAK Lift & Slide System

#### **Product Specifications**

• 1	Profiles Size/Depth	¢	Frame - 106mm Shutter - 45mm	
140	Assembly/Join	1	Frame - Joint with 45°	
			Shutter - Joint with 45"	
:+ (l	Profile Thickness	\$	2mm	
-	Glazing	z	28mm Double Glass (6+16+6)	
- 1	Rubber Gaskets		EPDM	
+ 1	Isolators Strips	ŧ	Frame "C" Shape 20mm, Shuter 32mm	
			Special Shape to suit rollers.	
•	Accessories	\$	Accesories Available with GIESSE only.	







# ALUPCO 5056 SYSTEM

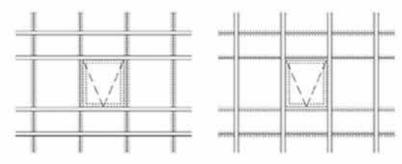
2 - SIDED STRUCTURAL GLAZING Thermal / Non-Thermal Break

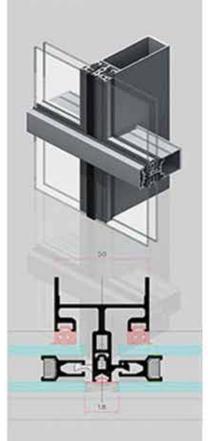
#### **Product Specifications**

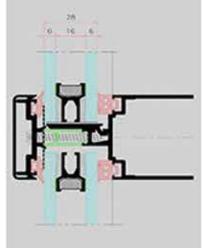
	Profile Size/Depth	;	Mullions - 50mm to 195mm
			Transoms - 50mm to 192mm
$\hat{\mathbf{z}}$	<b>Profile Thickness</b>	×	Varies
	Glazing	1	CW = 28mm Double Glass (6+16+6)
			Top Hung = 24mm Double Glass (6+12+6)
	<b>Rubber Gaskets</b>	2	EPDM
×	Isolators	÷	As Specified in the Catalogue
	<b>Operable Panels</b>	•	Top hung window (Thermal and
			Non-thermal Break)
-	Accessories	4	Accesories Available with GIESSE,
			SAVIO, MASTER, LAVAAL etc.

#### System Check

- Air Infiltration : (As per NF-EN12207) Passed with Class 4
- Water Penetration : (As per NF-EN12208) Passed after applying pressure of 2500pa
- Wind Resistance : ( As per ASTM E330: 1996 ) Passed
- Positive and Negative Pressure : No Permanent Deformation Observed at 2250pa









# THANK YOU.

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