ACI

ALASHRAFY

CONTRACTING & INTERIORS

Joinery Division

أبواب

STÄRKE

Polyvinyl Chloride (WPC)

المحتويات

الشركاء

SIEMENS

SAP

accoya

الشركات

ASHRAFY Contracting and Interiors

SWIFT PRECAST INDUSTRIES L.L.C

Picasso WOOD INDUSTRY

Taiba

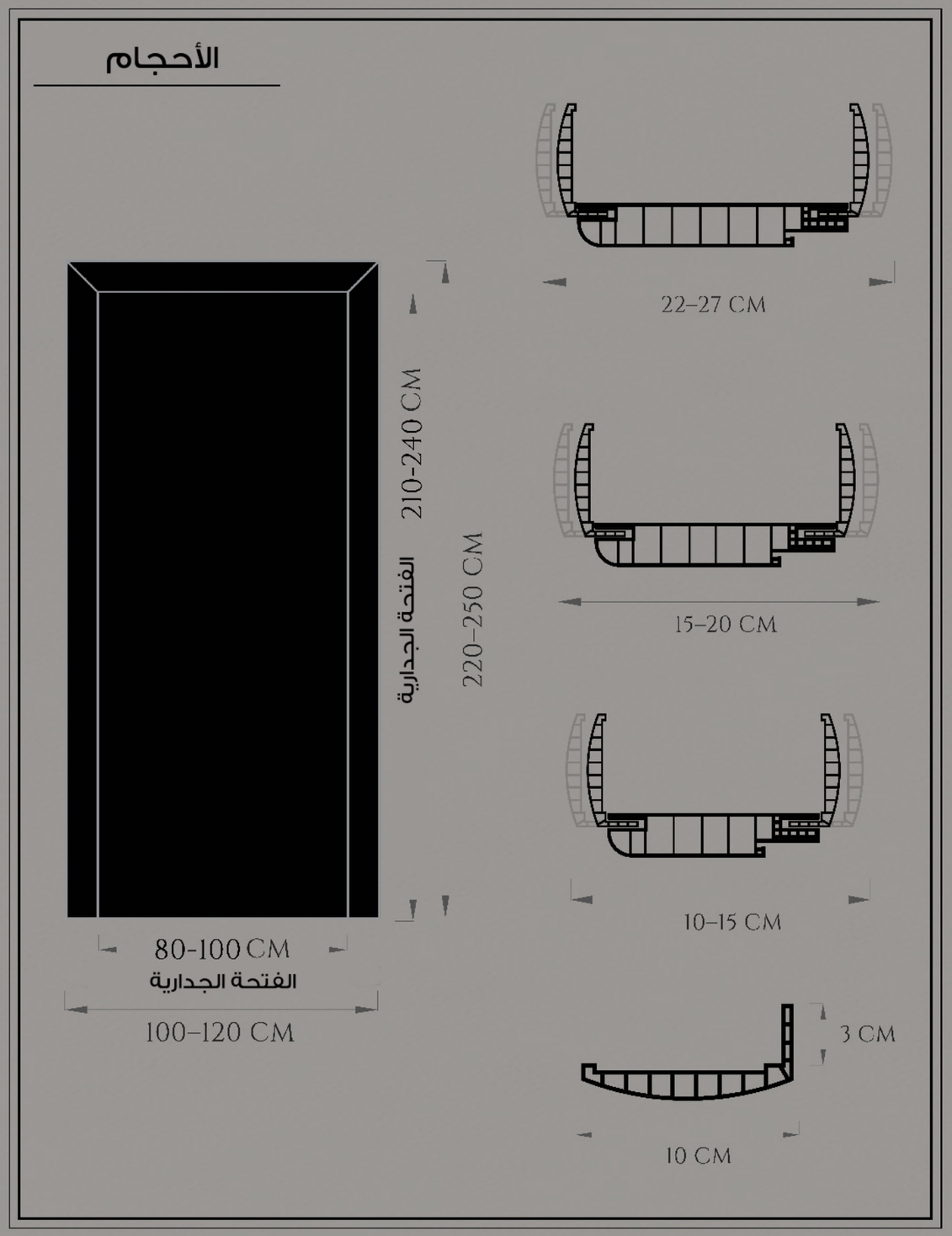
Salone del Mobile

GREENTHERM SUSTAINABLE AIR CONDITIONING

ROSSELLA JEWELLERY

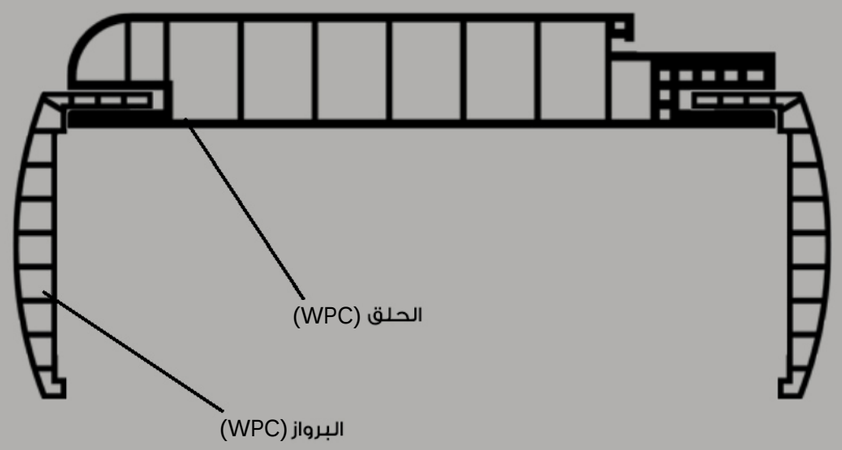
المواصفات

الدرفة	- XPS عالي الكثافة ٣٢ كج\متر مكعب - خشب صلب ٤٢٠ كج\متر مكعب - غراء حراري PUR - وجه PVC ٢,٧ ملم - حواف PVC ١ ملم - فلم PVC ٠,٢ ملم - الكثافة ١٧٠٠ كج\متر مكعب - سماكة الدرفة الكلية ٤١ ملم
الحلق	- PVC من سابك - البوليمرات - غراء حراري PUR - فلم PVC ٠,٢ ملم
البرواز	- PVC من سابك - غراء حراري PUR - فلم PVC ٠,٢ ملم

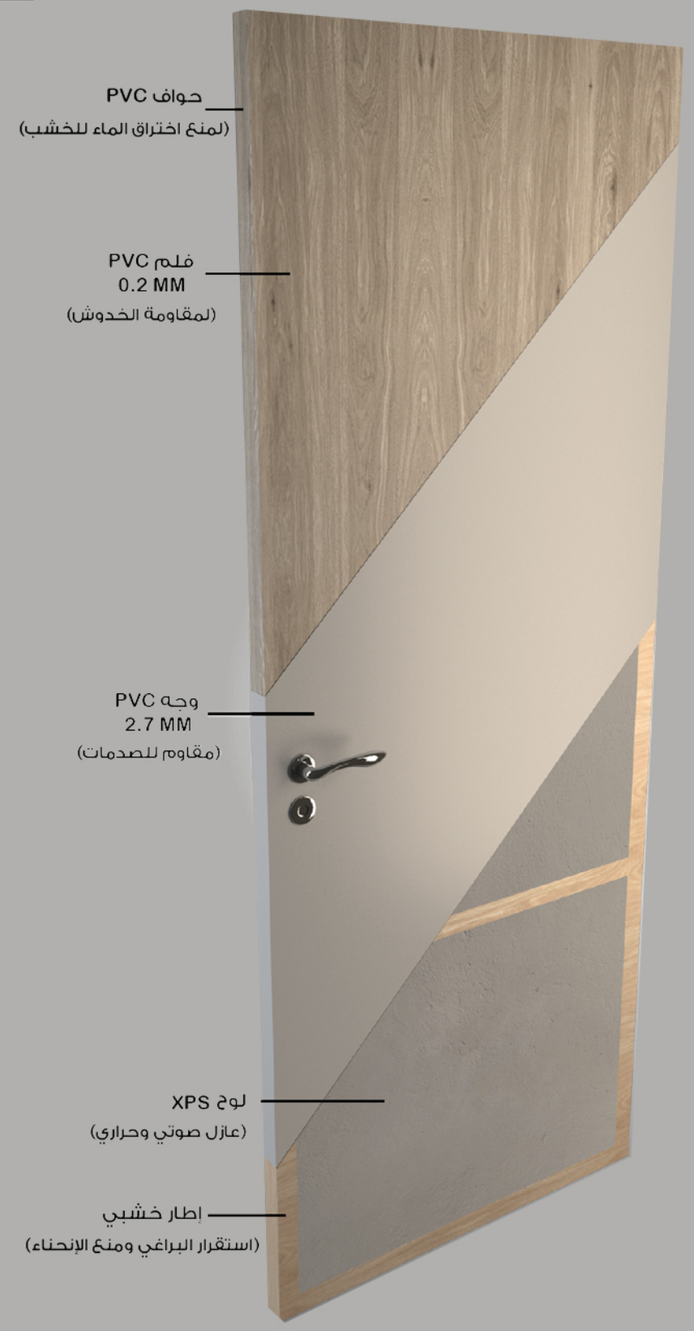


هيكل الباب

الحلق: كلوريد بولي فينيل



البرواز: كلوريد بولي فينيل



الدرفة (WPC)

المواد المستخدمة والمواصفات

PVC

SABIC® SPVC 67S

SUSPENSION POLYVINYL CHLORIDE

DESCRIPTION

SABIC® PVC 67S is a free flowing vinyl chloride homopolymer resin having medium molecular weight. It is manufactured by suspension polymerization.

TYPICAL APPLICATIONS

67S is designed to give an easy processing product for extrusion rigid applications since it has moderate melt viscosity.The main applications are: Rigid pipes (pressure and non-pressure), Corrugated tubes and conduits, Rigid profiles

TYPICAL PROPERTY VALUES

Revision 20210609

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
K-Value	67	-	ASTM D1243
Apparent Bulk Density	570	kg/m³	ASTM D1895
Particle Size distribution (1)			
Retained on mesh 60 (250 µ) (1)	≤15	%	SABIC method
Passing through mesh 200 (74 µ)	≤4	%	SABIC method
Volatile Content			
-	≤0.3	%	ASTM D3030

(1) Typical values; not to be construed as specification limits.

CHARACTERISTICS

SABIC® PVC 67S has properties that makes it suitable for rigid PVC processing with high production rates, easy handling and conveying, very low dust-level, high purity, high bulk density and narrow particle size distribution. SABIC® PVC 67S is designed to give an easy-processing product for rigid extruded applications. It can be used with a wide range of heat stabilizers and fillers.

STORAGE AND HANDLING

PVC is delivered in 25 kg bags. PVC resin should be stored in dray area and prevented from direct exposure to sunlight and storage temperature does not exceed 50°C. SABIC would not give warranty to bad storage conditions which may lead to quality deterioration such as color change and inadequate product performance. It is advisable to process PVC resin within 6 months after delivery.

DISCLAIMER

CHEMISTRY THAT MATTERS™

الغراء

TECHNOMELT®

Technical Data Sheet

TECHNOMELT® PUR 4663

September 2023

Product description

TECHNOMELT® PUR 4663 provides the following product characteristics:

Technology	Polyurethane
Product type	Hotmelt
Application	Lamination, Assembly
Appearance	Translucent solid

Application areas:

- Lamination
- General assembly work
- Assembly bonding of wooden parts
- Gluing of textiles and plastics

Product properties:

- Reactive hotmelt adhesive system based on polyurethane
- High initial strength
- Chemical cross-linking within few days
- Bond joint turns into a thermoset
- Very high heat resistance (>150 °C) and cold flexibility
- Excellent water resistance
- Fluorescent (UV-light)

Technical data

Softening Point, Ring & Ball, °C	~65
Viscosity, Brookfield - 130 °C, mPa.s (cP)	~10 000
Heat resistance, °C according to the Henkel method of increasing temperature	>150
Curing time to final strength, days (depending on substrate)	2 to 5

Direction for use

Preliminary statement:
Prior to use it is necessary to read the **Material Safety Data Sheet** for information about precautionary measures and safety recommendations. Also, for chemical products exempt from compulsory labeling, the relevant precautions should always be observed. Please also refer to the local safety instructions and contact Henkel for analytical support.

Working conditions:

Recommended working temperature	
In the melting container, °C	100 to 140
At the application roller, °C	100 to 140
Recommended application amount (depending on substrate), g/m^2	50 to 400
Recommended room temperature, °C	18 to 35
Recommended humidity, %	30 to 60

Cleaning:
Flushing the system with TECHNOMELT® PUR CLEANER 4 periodically or prior to changing to an alternative reactive hot melt will reduce internal build-up of adhesive residue. Application devices such as wheels and rolls that expose reactive adhesive to the air should be thoroughly flushed at the end of a production run or at anytime when there is build-up and gelling. We recommend for the cleaning of the application equipments TECHNOMELT® PUR CLEANER ME or TECHNOMELT® PUR CLEANER ALL-IN-1. When working with the cleaning agents safety instructions must be considered. Follow also strictly the instructions of the machine manufacturer.

Safety:
The product contains diphenylmethanediisocyanate. Even if the product is applied within the range of the recommended working temperature, the diisocyanate has a detectable vapour pressure. When the recommended working temperature is exceeded, hazardous decomposition products may be formed in the application unit. Therefore, measures to draw off the vapours need to be taken, e.g., through the provision of extraction equipment. In case of skin contact with the hotmelt, do not try to remove the adhesive from the skin by force. Consult a doctor. Observe the **material safety data sheet.**

Storage:
Store in the original tightly closed packaging in a cool, dry place.

Shelf life

Shelf-life (in unopened original packaging), months	12
(2 kg container for up to 9 months)	

Henkel

العزل

Picasso
WOOD INDUSTRY

حكومة دبي
GOVERNMENT OF DUBAI

بلدية دبي
Dubai Municipality

DUBAI CENTRAL LABORATORY DEPARTMENT

DCLD-CQPS PRODUCT CONFORMITY CERTIFICATION SCHEME

SCOPE OF CERTIFICATION

FOR CERTIFICATE NO. CL17020463

TABLE 1 (EXTRUDED)

PHYSICAL PROPERTY REQUIREMENTS OF RIGID CELLULAR POLYSTYRENE THERMAL INSULATION

SN	PROPERTIES	TYPE XII	TYPE X	TYPE XIII	TYPE IV	TYPE VI	TYPE VII	TYPE V
1	**COMPRESSIVE RESISTANCE** @ yield or 10% deformation, which occurs first, min kPa	*104*	*104*	*138*	*173*	*276*	*414*	*690*
2	**THERMAL RESISTANCE** of 25.4 mm thickness, @ mean temperature of 35ºC and 60% RH min, K-m²/W	*0.77*	*0.84*	*0.65*	*0.84*	*0.84*	*0.84*	*0.84*
3	**THERMAL CONDUCTIVITY,** max, W/m-ºK @ 35ºC and 60% RH	*0.0330*	*0.0303*	*0.0392*	*0.0303*	*0.0303*	*0.0303*	*0.0303*
4	**FLEXURAL STRENGTH,** min, kPa	*276*	*276*	*310*	*345*	*414*	*517*	*690*
5	**WATER VAPOR PERMEANCE** of 25.4 mm thickness, max, perm	*1.5*	*1.5*	*1.5*	*1.5*	*1.1*	*1.1*	*1.1*
6	**WATER ABSORPTION** by total immersion, max volume %	*0.30*	*0.30*	*1.0*	*0.30*	*0.30*	*0.30*	*0.30*
7	**DIMENSIONAL STABILITY** (change in dimension), max, %	*2.0*	*2.0*	*2.0*	*2.0*	*2.0*	*2.0*	*2.0*
8	**OXYGEN INDEX,** min, volume %	*24*	*24*	*24*	*24*	*24*	*24*	*24*
9	**DENSITY,** min, kg/m³	*19*	*21*	*26*	*23*	*29*	*35*	*48*

NOTE: The above specification values are extracted from Table 1 of ASTM C578: 2018

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Picasso Wood Industry LLC, P.O.BOX 283368
UMM Al Quwain UAE

الخشب

Picasso
WOOD INDUSTRY

The SPF Group | Spruce, Pine, Fir

Colour	White to yellowish, with little or no difference between heartwood and sapwood.	
Texture	Medium to fine. Straight and even grain.	
Common usage	**Premium**	DIY market, panelling, joinery, musical instruments, etc.
	No. 2 & Better	Carcassing, flooring, scaffold boards, bed-frames, etc.
	No. 3	Pallets, packing cases, barrels, temporary work, etc.

Comparisions based on small clear pieces

		SPF Group	European Whitewood	European Redwood	Southern Yellow Pine	Douglas Fir	Ponderosa Pine	Aspen
Physical Properties	Density (kg/m³)	420[1]	340[3]	420[3]	470[3]	450[2]	438[2]	380[2]
	Bending strength (kiln dry) MOR (MPa)	78[2]	67[3]	84[3]	90[3]	88[2]	73[2]	68[2]
	Modulus of elasticity MOE (MPa)	10.500[2]	9.500[3]	10.500[3]	12.000[3]	13.500[2]	9.500[2]	11.200[2]
	Hardness Janka (N)	2.430[2]	1.910[3]	2.780[3]	3.070[3]	2.990[2]	2.640[2]	2.140[2]
	Dimensional Shrinkage	11%[2]	11%[3]	12%[3]	12%[3]	12%[2]	10.5%[2]	12%[2]
Working Properties	Planing[1]	★★★★	★★★★	★★★	★★★	★★★	★★★	★★
	Stability[1]	★★★	★★★	★★★	★★	★★★	★★★	★★★
	Gluing[1]	★★★	★★★	★★★	★★★	★★★	★★★	★★★
	Mortising[1]	★★★	★★★	★★★	★★★	★★	★★★★	★★
	Turning[1]	★★★	★★★	★★★	★★★	★★★	★★★	★★★
	Nailability[1]	★★★★	★★★	★★★	★★★	★★★	★★★	★★★

Excellent: ★★★★ Very good: ★★★ Good: ★★ Fair: ★

Structural Dimensions for KD Lumber – CLS

Nominal sizes (inches)	Net sizes (inches)	Net sizes (mm)
2" x 2"	1 1/2" x 1 1/2"	38 mm x 38 mm
2" x 3"	1 1/2" x 2 1/2"	38 mm x 64 mm
2" x 4"	1 1/2" x 3 1/2"	38 mm x 89 mm
2" x 5"	1 1/2" x 5 1/2"	38 mm x 140 mm
2" x 6"	1 1/2" x 7 1/4"	38 mm x 184 mm
2" x 10"	1 1/2" x 9 1/4"	38 mm x 235 mm

Canadian Rough Green Sizes

Nominal sizes (inches)	Net sizes (inches)	Net sizes (mm)
1" x 3"	7/8" x 2 3/4"	22 mm x 70 mm
1" x 4"	7/8" x 3 3/4"	22 mm x 95 mm
1" x 5"	7/8" x 4 3/4"	22 mm x 120 mm
2" x 4"	1 3/4" x 3 3/4"	44 mm x 95 mm
2" x 5"	1 3/4" x 5 3/4"	44 mm x 145 mm
3" x 3"	3" x 3"	75 mm x 75 mm

MSR Grades
1650Fb 1.5E / 2100Fb 1.8E / 2400Fb 2.0E / 2700Fb 2.2E

Nominal size (inches)	Net sizes (inches)	Net sizes (mm)
2" x 3"	1 1/2" x 2 1/2"	38 mm x 64 mm
2" x 4"	1 1/2" x 3 1/2"	38 mm x 89 mm
2" x 6"	1 1/2" x 5 1/2"	38 mm x 140 mm

Other MSR grades & sizes are available upon request.

Export Sizes Upon Request

Green or Heat treated or Kiln Dry	
Net sizes (inches)	Net sizes (mm)
7/8" x 3"	22 mm x 75 mm
7/8" x 4"	22 mm x 100 mm
7/8" x 5"	22 mm x 125 mm
7/8" x 6"	22 mm x 150 mm
1 7/8" x 3"	47 mm x 75 mm
1 7/8" x 4"	47 mm x 100 mm
1 7/8" x 5"	47 mm x 125 mm
1 7/8" x 6"	47 mm x 150 mm
1 7/8" x 7"	47 mm x 175 mm
1 7/8" x 8"	47 mm x 200 mm
1 7/8" x 9"	47 mm x 225 mm

1. Canadian Standards Association (CSA), 086.
2. A.P. Jeremic, *Strength and Related Properties of Woods Grown in Canada*, Ottawa: Canada Corp., FP 947, 1986
3. *Woods of the World*, Hardwoods Inc., Burlington, VT, 1987

Regular members of the Québec Forestry Industry Council (QFIC) are represented on the overseas market by the Québec Wood Export Bureau (QWEB).

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UMM Al Quwain UAE

دليل القياسات

Door 500027 2200x1000

الفتحة الهيكلية 800-900x2100-2150

Door 500023 2200x1100

الفتحة الهيكلية 900-1000x2100-2150

Door 500014 2200x1200

الفتحة الهيكلية 1000-1100x2100-2150

Door 500032 2300x1000

الفتحة الهيكلية 800-900x2200-2250

Door 500036 2300x1100

الفتحة الهيكلية 900-1000x2200-2250

Door 500040 2300x1200

الفتحة الهيكلية 1000-1100x2200-2250

Door 500044 2500x1000

الفتحة الهيكلية 800-900x2400-2450

Door 500047 2500x1100

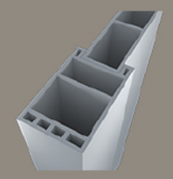
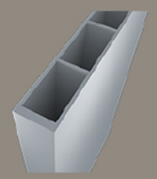
الفتحة الهيكلية 900-1000x2400-2450

Door 500050 2500x1200

الفتحة الهيكلية 1000-1100x2400-2450

أبواب الأشرفي مقابل المنافسين

مزايا خاصة

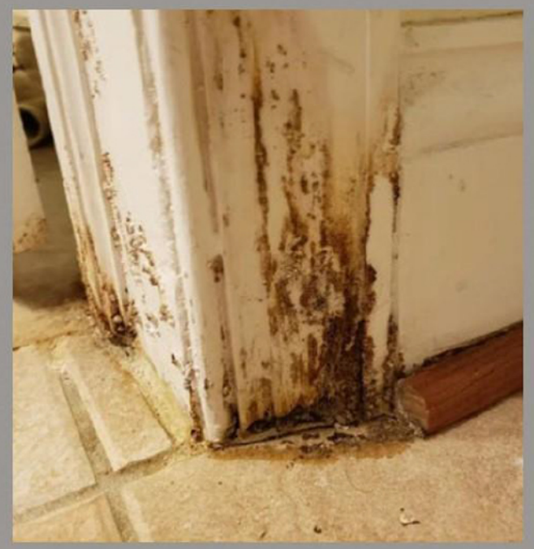
باب مؤطر من WPC	باب كامل من WPC	باب المنافسين	باب الأشرفي	
				
درجة منخفضة من PVC ونسبة عالية من المواد المعاد تدويرها	درجة منخفضة من PVC ونسبة عالية من المواد المعاد تدويرها	درجة منخفضة من PVC ونسبة عالية من المواد المعاد تدويرها	PVC عالي الجودة من درجة سابك	**مادة PVC**
كثافة منخفضة وتركيب عالٍي المعاد تدويره مما يجعل الهيكل ضعيفًا وقابلًا للكسر	كثافة منخفضة وتركيب عالٍي المعاد تدويره مما يجعل الهيكل ضعيفًا وقابلًا للكسر	كثافة منخفضة وتركيب عالٍي المعاد تدويره مما يجعل الهيكل ضعيفًا وقابلًا للكسر	كثافة عالية للحصول على منتج مستقر وقوي	**كثافة هيكل الإطار والعتبة**
واجهة الباب منخفضة الكثافة بسمك 2.2 ملم مما يؤدي إلى كسر وتشقق الهيكل	واجهة الباب منخفضة الكثافة بسمك 2.2 ملم مما يؤدي إلى كسر وتشقق الهيكل	واجهة الباب منخفضة الكثافة بسمك 2.2 ملم مما يؤدي إلى كسر وتشقق الهيكل	واجهة عالية الكثافة بسمك 2.7 ملم لامتصاص أفضل للصدمات	**واجهة لوحة الباب**
ألواح منخفضة الكثافة - تفكك قناةلافي الباب - انحناء أو التواء كبير في الباب - عرضة أكبر للتكسير أو التشقق - امتصاص ضعيف للصدمات	ألواح منخفضة الكثافة - انحناء أو تشويه عالي في الباب - أكثر عرضة للكسر أو التشقق - امتصاص منخفض للصدمات	إطار خشبي منخفض الكثافة مع رغوة الستايروفوم وواجهة بسمك 2.2 ملم - أكثر عرضة للتشقق أو الكسر - امتصاص منخفض للصدمات	إطار خشبي عالي الكثافة مع رغوة XPS وواجهة عالية الكثافة بسمك 2.7 ملم - لا يوجد انحناء أو تشويه في الباب - لا يوجد كسر أو تشقق - امتصاص عالي للصدمات	**استقرار هيكل لوحة الباب**
PVC منخفض الكثافة وغراء ضعيف لإطار لوح الباب مما يؤدي إلى مقاومة منخفضة للمسامير والاستقرار وتفكك قناةلافي الباب.	PVC منخفض الكثافة لمقاومة أقل للمسامير والاستقرار	خشب منخفض الكثافة لمقاومة منخفضة للبراغي واستقرار ضعيف	خشب عالي الكثافة لمقاومة أعلى للبراغي واستقرار أكبر	**ثبات مفصلات الباب وجسم القفل**
0.16 مم، أكثر عرضة للخدوش	0.16 مم، أكثر عرضة للخدوش	0.16 ملم، أكثر عرضة للخدوش	0.2 ملم لمقاومة عالية للخدوش وتأثير حبيبات الخشب الواقعية	**جلد PVC**
الغراء الأبيض المستخدم غير مقاوم للماء أو الرطوبة مما يتسبب في تقشر جلد PVC، وانهيار أجزاء الباب المختلفة. والنتيجة أن الباب غير مقاوم للماء والرطوبة	الغراء الأبيض المستخدم غير مقاوم للماء أو الرطوبة مما يتسبب في تقشر جلد PVC، وانهيار أجزاء الباب المختلفة. والنتيجة أن الباب غير مقاوم للماء والرطوبة	الغراء الأبيض المستخدم غير مقاوم للماء أو الرطوبة مما يتسبب في تقشر جلد PVC، وانهيار أجزاء الباب المختلفة. والنتيجة أن الباب غير مقاوم للماء والرطوبة	غراء PUR المستخدم مقاوم للماء والرطوبة وواجهة الباب PVC مما يلغي الصيانة ويمنع تقشير جلد	**الغراء**

الميزات المالية ووقت التسليم

شحن خلال 3-4 أشهر	شحن خلال 3-4 أشهر	شحن خلال 3-4 أشهر	التسليم الفوري للأبواب المخزنة	**وقت التسليم**
نظرًا لأن فترة التسليم تستغرق 3-4 أشهر فإن معدل دوران المخزون يكون 3 مرات فقط في السنة مما يؤدي إلى انخفاض معدل دوران المبيعات السنوي	نظرًا لأن فترة التسليم تستغرق 3-4 أشهر فإن معدل دوران المخزون يكون 3 مرات فقط في السنة مما يؤدي إلى انخفاض معدل دوران المبيعات السنوي	نظرًا لأن فترة التسليم تستغرق 3-4 أشهر فإن معدل دوران المخزون يكون 3 مرات فقط في السنة مما يؤدي إلى انخفاض معدل دوران المبيعات السنوي	معدل دوران المخزون لا يقل عن 12 مرة، مما يؤدي إلى زيادة إجمالي معدل دوران المبيعات السنوي	**الميزة المالية**
يتطلب استثمارًا كبيرًا وخطة ميزانية للدفع مقدمًا لعدة حاويات مما يؤدي إلى تجميد الاستثمار لمدة 3-4 أشهر حتى تصل الأبواب إلى وجهة البيع.	يتطلب استثمارًا كبيرًا وخطة ميزانية للدفع مقدمًا لعدة حاويات مما يؤدي إلى تجميد الاستثمار لمدة 3-4 أشهر حتى تصل الأبواب إلى وجهة البيع.	يتطلب استثمارًا كبيرًا وخطة ميزانية للدفع مقدمًا لعدة حاويات مما يؤدي إلى تجميد الاستثمار لمدة 3-4 أشهر حتى تصل الأبواب إلى وجهة البيع.	نظرًا لعدم وجود فترة تسليم، فإن الشراء عند الحاجة يوفر الكثير من المال، مما يتيح نسيان التخطيط المالي والتركيز على الأرباح.	**الاستثمار**

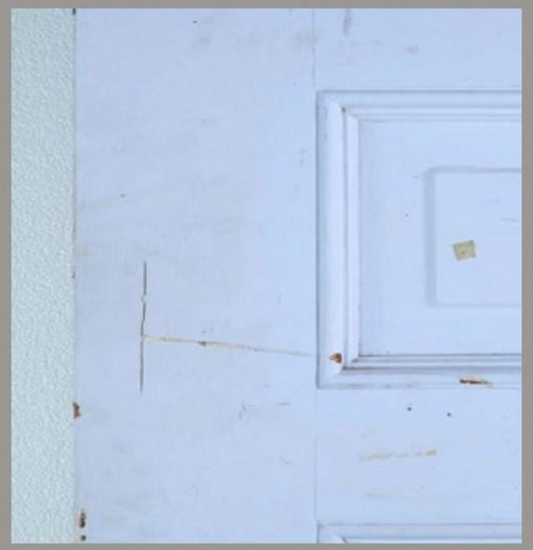
مشاكل الأبواب الخشبية الشائعة

أضرار المياه



النمل الأبيض

الباب المشوه



الشقوق و
الطلاء التالف

حان وقت التغيير

	الباب الخشبي	باب (WPC)
• الجماليات	محدود بألوان وتشطيبات الأنواع الطبيعية للأخشاب	متوفر بمجموعة واسعة من الألوان والتشطيبات
• مقاومة الماء	يتعرض للتشوه ويتطلب صيانة دورية للحماية من الرطوبة والآفات	مقاوم للماء تماماً، لا يتعفن أو يتشوه مثل الأبواب الخشبية
• المتانة	.عرضة للنمل الأبيض، الفطريات، والآفات الأخرى .يتطلب طلاء أو تلميع منتظم	.مقاوم للنمل الأبيض، الفطريات، والآفات الأخرى .سهل التنظيف ولا يحتاج إلى طلاء أو تلميع منتظم
• العزل الحراري	لديه خصائص عزل أقل	يوفر خصائص عزل ممتازة تؤدي إلى توفير الطاقة
• الفعالية من حيث التكلفة	يتطلب تكاليف صيانة مرتفعة	تكاليف الصيانة صفرية
• الاستدامة	قطع الأشجار يضر بالبيئة، وغير مستدام	قابل لإعادة التدوير، موفر للطاقة وغالبًا ما يتم إنتاجه بممارسات مستدامة

Picasso
WOOD INDUSTRY

سابك
sabic

من المسحوق إلى الباب الكامل

أبوابنا مصنوعة بالكامل داخل مصنعنا

مزايا أبواب
(WPC)

100%

مقاومة للماء والرطوبة

مقاومة للحريق

مقاومة للخدوش

مقاومة كاملة للنمل الأبيض

STÄRKE

DOORS

HIGH PERFORMANCE I STABILITY I DURABILITY

10 YEARS WARRANTY

مقاوم للصدمات

منتج صديق للبيئة
قابل لإعادة التدوير بنسبة
100%

STÄRKE

DOORS

أداء عالٍ | استقرار | متانة

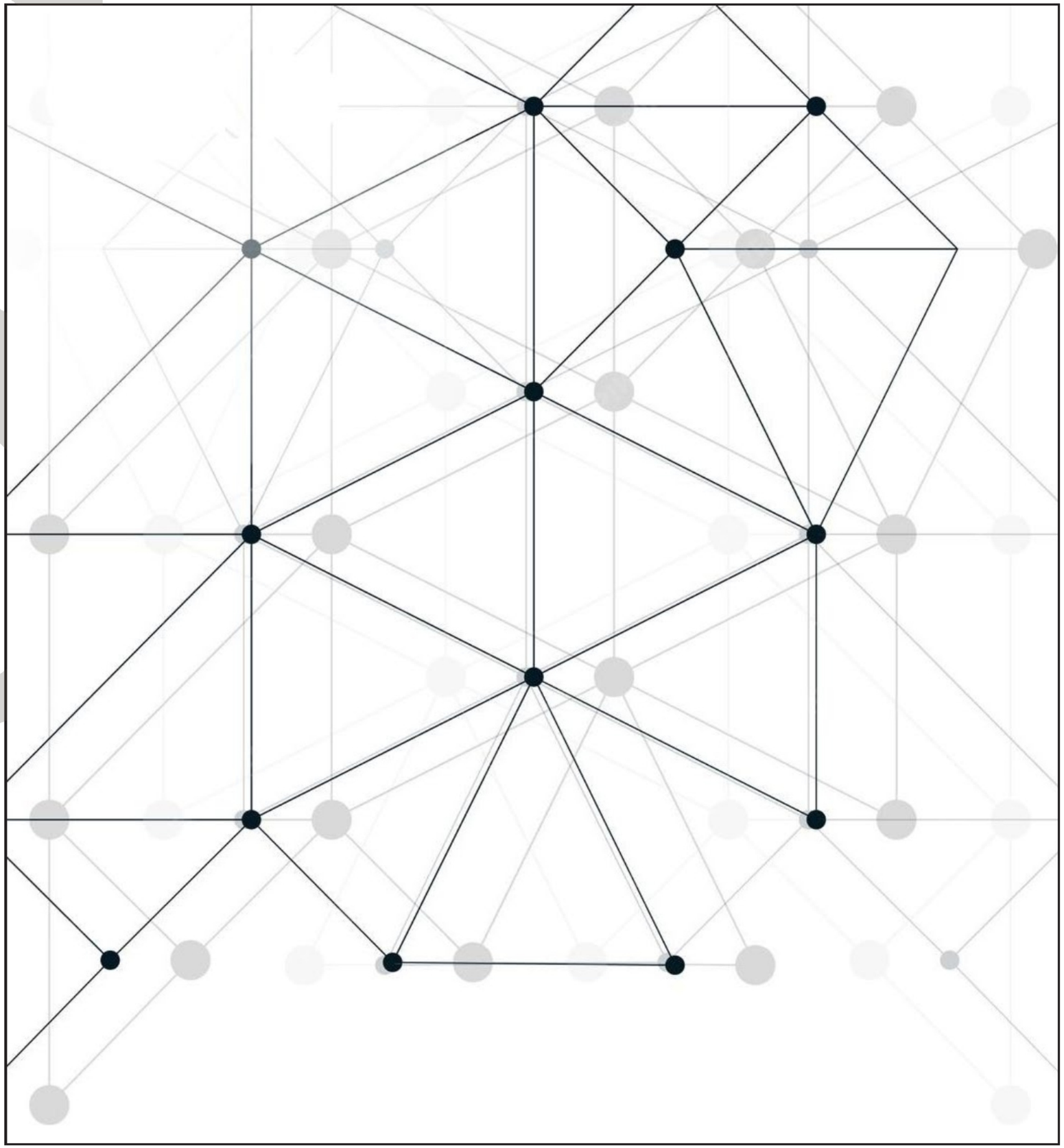
ضمان 10 سنوات

10

سنوات ضمان

ضد الماء - الرطوبة - النمل الأبيض

الإختبارات والشهادات



اختبار
مقاومة الصدمات
التشوه
قوة تثبيت البراغي

مختبرات ويمبي ش.ذ.م.م.
WIMPEY LABORATORIES L.L.C.

TEST REPORT ON WATER ABSORPTION

Client	Picasso Wood Industry LLC Umm Al Quwain, UAE		
Product Name	PVC Frame	Lab Report No.	WD-R-240208-0733/1
Source	Picasso Wood Industry LLC	Sample No.	WD-S-240208-0715
Test Method	EN 15534-4:2014	Request No	WD-Q-240208-0190
Test Temperature	23°C	Date Received	08/02/2024
Relative Humidity	50%	Date Tested	13/02/2024
Wimpey Ref No	24020827	Date Reported	14/02/2024
Duration of Test	24 Hours	Tested By	SU

Test Results

Test	Unit	Result
Water absorption	%	0.060
		0.040
		0.050
	Average	**0.050**

Remarks: None.

Signed for and on behalf of Wimpey Laboratories L.L.C

S.Sarath Kumar
Head of Department

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WIMPEY LABORATORIES L.L.C.

TEST REPORT ON THICKNESS SWELLING

Client	Picasso Wood Industry LLC Umm Al Quwain, UAE		
Product Name	PVC Frame	Lab Report No.	WD-R-240208-0733/2
Source	Picasso Wood Industry LLC	Sample No.	WD-S-240208-0715
Test Method	EN 15534-4:2014	Request No	WD-Q-240208-0190
Test Temperature	23°C	Date Received	08/02/2024
Relative Humidity	50%	Date Tested	13/02/2024
Wimpey Ref No	24020827	Date Reported	14/02/2024
Duration of Test	24 Hours	Tested By	SU

Test Results

Test	Unit	Result
Thickness Swelling	%	1.41
		1.33
		1.29
	Average	**1.34**

Remarks: None.

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S.Sarath Kumar
Head of Department
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TEST REPORT ON NAIL WITHDRAWAL

Client	Picasso Wood Industry LLC Umm Al Quwain, UAE		
Product Name	PVC Frame	Lab Report No.	WD-R-240208-0733/3
Source	Picasso Wood Industry LLC	Sample No.	WD-S-240208-0715
Test Method	ASTM D1037-12(2020)	Request No	WD-Q-240208-0190
Test Temperature	23°C	Date Received	08/02/2024
Relative Humidity	50%	Date Tested	13/02/2024
Wimpey Ref No	24020827	Date Reported	14/02/2024
Nail Used	6.75mm head diameter	Rate of Speed	1.5mm/min
Tested By	SU		

Test Results

Test	Test Location	Unit	Result
Nail Withdrawal	Face	N	477
			468
			482
			461
			479
Average			**473**

Remarks: None.

Signed for and on behalf of Wimpey Laboratories L.L.C

S.Sarath Kumar
Head of Department
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TEST REPORT ON FLEXURAL STRENGTH

Client	Picasso Wood Industry LLC Umm Al Quwain, UAE		
Product Name	PVC Frame	Lab Report No.	WD-R-240208-0733/4
Source	Picasso Wood Industry LLC	Sample No.	WD-S-240208-0715
Test Reference	EN 15534-4:2014	Request No	WD-Q-240208-0190
Test Method	EN 15534-1:2014	Wimpey Ref No	24020827
Test Temperature	23°C	Date Received	08/02/2024
Relative Humidity	50%	Date Tested	13/02/2024
Tested By	SU	Date Reported	14/02/2024

Test Results

Specimen No.	Width (mm)	Thickness (mm)	Span (mm)	Max Load at Failure (N)	Flexural Strength (N/mm^2)
1	10.0	2.81	45.0	82.6	70.6
2	10.0	2.83	45.0	84.1	70.9
3	10.0	2.85	45.0	78.1	64.9
4	10.0	2.83	45.0	86.3	72.7
5	10.0	2.82	45.0	84.4	71.6
				Average Flexural Strength (N/mm^2)	70.1

Remarks: None.

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Head of Department
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TEST REPORT ON DENSITY

Client	Picasso Wood Industry LLC Umm Al Quwain, UAE		
Product Name	PVC Frame	Lab Report No.	WD-R-240208-0733/5
Source	Picasso Wood Industry LLC	Sample No.	WD-S-240208-0715
Test Method	ASTM D1037-12(2020)	Request No	WD-Q-240208-0190
Test Temperature	23°C	Date Received	08/02/2024
Relative Humidity	50%	Date Tested	13/02/2024
Wimpey Ref No	24020827	Date Reported	14/02/2024
Tested By	SU		

Test Results

Test	Unit	Result
Density	Kg/m^3	1765

Remarks: None.

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TEST REPORT ON IMPACT RESISTANCE

Client	Picasso Wood Industry LLC Umm Al Quwain, UAE		
Product Name	PVC Frame	Lab Report No.	WD-R-240208-0733/6
Source	Picasso Wood Industry LLC	Sample No.	WD-S-240208-0715
Test Method	EN 15534-4:2014	Request No	WD-Q-240208-0190
Test Temperature	23°C	Date Received	08/02/2024
Relative Humidity	50%	Date Tested	13/02/2024
Wimpey Ref No	24020827	Date Reported	14/02/2024
Test conditions	Height = 700mm Weight = 1000 g	Tested By	SU

Test Results

Test	Observation	Result
Impact Resistance	No Cracks observed on the test specimens	Pass

Remarks: None.

Signed for and on behalf of Wimpey Laboratories L.L.C

S.Sarath Kumar
Head of Department

Test results relate only to the samples tested.
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مقاومة الأحتراق

TEST REPORT

UL 94; 2021 E6 Standard for safety -Tests for Flammability of Plastic Materials for Parts in Devices and Appliances

Report No.	:	WD-R-240208-0733-06-R1
Sample No.	:	WD-S-240208-0715
Client Name	:	Picasso Wood Industry LLC
Address	:	Dubai- UAE
Testing Laboratory	:	WIMPEY LABORATORIES L.L.C.
Address	:	Al Quoz Ind. Area-01, Dubai - UAE
Test Item Description	:	PVC Frame
Manufacturer	:	Picasso Wood Industry LLC
Brand / Trade Mark	:	Not Given
Model /Type Ref.	:	Not Given
Country of Origin	:	Not Given
Test Standard / Method	:	UL 94; 2021 E6
Report Date	:	17/02/2024
Test Item Received	:	08/02/2024
Date of Test	:	09/02/2024 - 16/02/2024
Tested by	:	NU
Summary of Testing	:	The below test parameter complies with the specification of UL94: 2021 E6.

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RESULTS

Test Environmental Conditions

Temperature (°C) : 24.2

Relative Humidity (%) : 56

Specimens Conditioning: (Table-1)

Clause	Description	Std. Requirement	Result
6.1	Temperature, Relative humidity & Duration	23 ±2°C, 50±10% & 48 Hours	P
6.2	Air- circulating oven preconditioning Temperature & Duration	70 ±2°C & 168 ±2 Hours	P
	Cooled duration at room temperature, prior to testing	4 Hours	P
6.3	After removed from the pre-conditioning environment specimens shall be tested	<30 minutes	P
6.4	All specimens are to be tested in a laboratory atmosphere condition	Temp. : 15 – 35°C & relative humidity : ≤ 75%	P
6.5	Cotton shall be conditioned duration in the desiccator prior to use	24 Hours	P
6.6	After removed from the desiccator the cotton shall be used time	<30 minutes	P

Clause	Requirement - Test	Result - Remark	Verdict
7	**Horizontal Burning Test; HB**		
7.1	Test criteria		-
7.1.1	A material shall be classified HB when tested as described in 7.2.1 – 7.5.10.		P
7.1.2	A material classed HB shall		
	a) Not have a burning rate exceeding 40 mm per minute over a 75 mm span for specimens having a thickness of 3.0 to 13 mm, or		N/A
	b) Not have a burning rate exceeding 75 mm per minute over a 75 mm span for specimens having a thickness less than 3.0 mm, or		P
	c) Cease to burn before the 100 mm reference mark		N/A
7.1.3	A material classified HB in the 3.0 +0.2 mm thickness shall automatically be classed HB down to a 1.5 mm minimum thickness without additional testing.	material thickness of the product not < 1.50mm	P
7.1.3A	A material not exceeding the 75 mm/min burning rate or if the burning cannot be determined when tested at any thickness less than 3.0 mm is to be classed HB at the thickness tested (the minimum thickness) and up to a maximum of 2.99 mm without testing additional specimens within this range.	burning rate is <75mm/min.	P

7.1.4	If only one specimen from a set of three specimens does not comply with the requirements, another set of three specimens is to be tested. All specimens from this second set shall comply with the requirements in order for the material in that thickness to be classified HB.	1st set three specimens comply with requirements	N/A
7.2	Test apparatus	comply with standard requirement	P
7.3	Test specimen	3	P
7.3.1	Specimen surface condition		P
7.3.1	Specimen Dimension		-
	Length & Wide (width)	125.00 & 13.00 mm	P
	Thickness	2.74 mm	P
	No. of specimens	3 No's	P
	Burner transverse axis incline	45°	P
	Nominal test flame (as per ASTM D 5207)	50W	P
	Gas flow rate	105 ±5 ml/min	P
	Applied duration for test flame	30 ±1 seconds	P
	Conditioning	see - Table-01	P

Test Results

Sample No.	Did Flame Reached 25 mm mark less than 30 seconds **(Yes/No)**	If 'Yes' duration of the flame **(seconds)**	If continues to burn after removal of the test flame		Linear burning rate **(V)**	Result
			Duration of the test flame between 25 to 100mm mark **(seconds) (t)**	Damaged length **(mm)** (L)		
1	No	-	0 (Not exceeded 25mm mark)	0	0.0 (HB Rated)	P
2	No	-				
3	No	-				

Calculations : Linear burning rate V = (60L/t) mm/min.

V is the linearburning rate in mm/minute

L - damaged length, in millimeters

t - time, in seconds

8	**50W (20 mm) Vertical Burning Test; V-0, V-1, or V-2**	**Result - Remark**	**Verdict**
8.1	Test Criteria		
8.1.1	Materials shall be classified V-0, V-1, or V-2 on the basis of results obtained on small bar specimens	See - Table-02	P
8.1.2	Some materials, due to their thinness distort and/or shrink and/or are consumed up to the holding clamp when subjected to this test		

	Exception No. 1: Test specimens with a thickness less than 0.025 mm may be subjected to the 20 mm Vertical Burning Test; V-0, V-1, or V-2 if the specimens cannot be properly formed for the Thin Material Burning Test; VTM-0, VTM-1, or VTM-2		N/A
	Exception No. 2: A test specimen with a thickness less than or equal to 0.25 mm, but greater than or equal to 0.025 mm that is capable of meeting the physical property requirements of both the 20-mm Vertical Burning Test and the Thin Material Burning Test; VTM-0, VTM-1, or VTM-2 test (Section 11) shall be evaluated bythe test of choice.		N/A
8.1.3	Materials with a density less than 250 kg/m 3 may optionally be tested in accordance with the Horizontal Burning Foamed Materials Test; HBF, HF-1, or HF-2		N/A
8.1.4	specifies the material classifications	See - Table-02	P
8.1.5	If only one specimen from a set of five specimens does not comply with the requirements, another set of five specimens is to be tested. In the case of the total number of seconds of flaming, an additional set of five specimens is to be tested if the totals are in the range of 51– 55 seconds for V-0 and 251 – 255 seconds for V-1 and V-2.		N/A
	All specimens from this second set shall comply with the appropriate requirements in order for the material in that thickness to be classified V-0, V-1, or V-2.		N/A
8.2	Test apparatus	Comply with standard requirement	P
8.3	Test specimen		P
8.3.1	Specimen surface condition		P
8.3.2	Specimen Dimension		
	Length & Wide (width)	125.00 mm & 13.00 mm	P
	Thickness	2.74 mm	P
	No. of specimens	5 No's	P
	Burner transverse axis incline	45 ±5°	P
	Nominal test flame (as per ASTM D 5207)	50W	P
	Gas flow rate	105 ±5 ml/min	P
	Applied duration for test flame	10 ±0.5 seconds	P
	Conditioning	See - Table-01	P

Table-02 Test Results

Sample No.	t1 (Sec.)	t2 (Sec.)	t3 (Sec.)	(t2+t3) (Sec.)	Whether or not specimens			Result
					Burn up to the holding clamp (Yes/No)	Drip flaming particles (Yes/No)	Particles ignited the cotton indicator (Yes/No)	
	Set 1							
1	3	4	3	7	No	No	No	P
2	2	3	2	5	No	No	No	P
3	4	2	4	6	No	No	No	P
4	2	4	2	6	No	No	No	P
5	2	4	3	7	No	No	No	P

t1 - Afterflame time after first flame application

t2 - Afterflame time after second flame application

t3 - Afterglow time

	Material shall be classified V-0, V-1, or V-2 on the basis of results	**V-0**	**P**
13	**Marking**		
13.1	Material containers shall be marked with the following:		-
	a) The manufacturer's or private labeler's name or identifying symbol.	Not Given	-
	b) A distinctive material designation.	-	N/A
13.2	If a manufacturer produces the material at more than one factory, each material container shall have a distinctive marking to identify it as the product of a particular factory.		N/A
	Points to be included if any;	-	N/A

Remarks : Material classified as V-0.

Signed for and on behalf of Wimpey Laboratories L.L.C

Visakh S Nair
Laboratory Manager

Test results relate only to the samples tested.

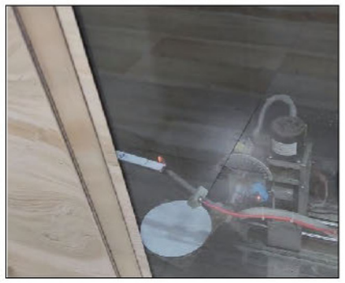
End

Photograph of Test Object

Horizontal Burning Test: HB

Before Test

Under Test



After Test

Vertical Burning Test

Before Test

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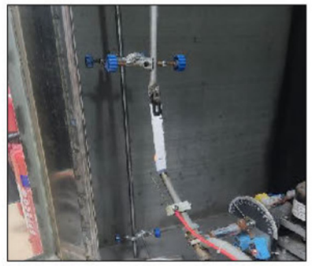
Under Test



After Test

العزل

Picasso
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حكومة دبي
GOVERNMENT OF DUBAI

بلدية دبي
Dubai Municipality

CERTIFICATE OF PRODUCT CONFORMITY

Dubai Central Laboratory Department (DCLD) of Dubai Municipality
hereby attests that the product(s)

Rigid Cellular Polystyrene Thermal Insulation

(Details as per the attached Scope of Certification)

have been assessed in accordance with DCLD Document Ref. No. DM-DCLD-RD-DP21-2001 (IC) "General Rules for DM third party product certification system through factory assessment" and the relevant Specific Rules, and were found in conformity with the standard specification:

ASTM C 578:18

Accordingly, DCLD hereby authorizes the above manufacturer
to affix the DCL Product Conformity Mark on the above-mentioned product(s).

ARIF AL MARZOOQI
Certification and Quality Control of Products Section Manager
Dubai Central Laboratory Department-Dubai Municipality

IAF eiaCI CB-PRD-001

Certificate No: CL17020463
Valid Until: 31/05/2024

DCL PRODUCT CONFORMITY

Current Issue Date: 01/06/2023
Original Issue Date: 01/06/2017

The attached Scope of Certification bearing the same Certificate Number forms an integral part of this Certificate.
This Certificate is an electronic document subject to the Terms and Conditions of the Product Certification System and shall not be reproduced except in full.

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UMM Al Quwain UAE

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Dubai Municipality

DUBAI CENTRAL LABORATORY DEPARTMENT
DCLD-CQPS PRODUCT CONFORMITY CERTIFICATION SCHEME

SCOPE OF CERTIFICATION
FOR CERTIFICATE NO. CL17020463

Applicable Standard Specification: ASTM C 578: 2018 – Standard Specification for Cellular Rigid Polystyrene Thermal Insulation.

Applicable Specific Rules: DM-DCLD-RD-DP21-2106 (IC) - Certification of Rigid Cellular Polystyrene Thermal Insulation as per ASTM C 578: 2018

S/N	Product Description	Brand Name	Product Details
1.	Rigid Cellular Extruded Polystyrene Thermal Insulation Board CFC Free *(See Note 3)*	ROOFMASTER XPS	Size: 1250 x 600 mm Thickness: 25 - 100 mm ASTM Type VI *(as per Table 1)*
2.	Rigid Cellular Extruded Polystyrene Thermal Insulation Board CFC Free *(See Note 3)*	ROOFMASTER XPS	Size: 1250 x 600 mm Thickness: 25 - 100 mm ASTM Type VII *(as per Table 1)*

Picasso WOOD INDUSTRY

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SCOPE OF CERTIFICATION
FOR CERTIFICATE NO. CL17020463

3.	Rigid Cellular Expanded Polystyrene Thermal Insulation Sheet (Grey Color) CFC Free *(See Note 3)*	LAMBDAPOR GREY	Various Sizes Thickness: 100 mm maximum ASTM Type XI *(as per Table 2)*
4.	Rigid Cellular Expanded Polystyrene Thermal Insulation Sheet (White Color) CFC Free *(See Note 3)*	EPS WHITE	Various Sizes Thickness: 100 mm maximum ASTM Type XI *(as per Table 2)*
5.	Rigid Cellular Expanded Polystyrene Thermal Insulation Sheet (Grey Color) CFC Free *(See Note 3)*	LAMBDAPOR GREY	Various Sizes Thickness: 100 mm maximum ASTM Type VIII *(as per Table 2)*
6.	Rigid Cellular Expanded Polystyrene Thermal Insulation Sheet (White Color) CFC Free *(See Note 3)*	EPS WHITE	Various Sizes Thickness: 100 mm maximum ASTM Type VIII *(as per Table 2)*

Picasso Wood Industry LLC, P.O.BOX 283368
UMM Al Quwain UAE

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DCLD-CQPS PRODUCT CONFORMITY CERTIFICATION SCHEME

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7.	Rigid Cellular Expanded Polystyrene Thermal Insulation Sheet (White Color) CFC Free *(See Note 3)*	EPS WHITE	Various Sizes Thickness: 100 mm maximum ASTM Type IX *(as per Table 2)*
8.	Rigid Cellular Expanded Polystyrene Thermal Insulation Sheet (White Color) CFC Free *(See Note 3)*	EPS WHITE	Various Sizes Thickness: 100 mm maximum ASTM Type XIV *(as per Table 2)*

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FOR CERTIFICATE NO. CL17020463

TABLE 1 (EXTRUDED)
PHYSICAL PROPERTY REQUIREMENTS OF RIGID CELLULAR POLYSTYRENE THERMAL INSULATION

SN	PROPERTIES	TYPE XII	TYPE X	TYPE XIII	TYPE IV	TYPE VI	TYPE VII	TYPE V
1	**COMPRESSIVE RESISTANCE** @ yield or 10% deformation, which occurs first, min kPa	*104*	*104*	*138*	*173*	*276*	*414*	*690*
2	**THERMAL RESISTANCE** of 25.4 mm thickness, @ mean temperature of 35ºC and 60% RH min, K-m²/W	*0.77*	*0.84*	*0.65*	*0.84*	*0.84*	*0.84*	*0.84*
3	**THERMAL CONDUCTIVITY,** max, W/m-ºK @ 35ºC and 60% RH	*0.0330*	*0.0303*	*0.0392*	*0.0303*	*0.0303*	*0.0303*	*0.0303*
4	**FLEXURAL STRENGTH**, min, kPa	*276*	*276*	*310*	*345*	*414*	*517*	*690*
5	**WATER VAPOR PERMEANCE** of 25.4 mm thickness, max, perm	*1.5*	*1.5*	*1.5*	*1.5*	*1.1*	*1.1*	*1.1*
6	**WATER ABSORPTION** by total immersion, max volume %	*0.30*	*0.30*	*1.0*	*0.30*	*0.30*	*0.30*	*0.30*
7	**DIMENSIONAL STABILITY** (change in dimension), max, %	*2.0*	*2.0*	*2.0*	*2.0*	*2.0*	*2.0*	*2.0*
8	**OXYGEN INDEX**, min, volume %	*24*	*24*	*24*	*24*	*24*	*24*	*24*
9	**DENSITY**, min, kg/m³	*19*	*21*	*26*	*23*	*29*	*35*	*48*

NOTE: The above specification values are extracted from Table 1 of ASTM C578: 2018

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Dubai Municipality

DUBAI CENTRAL LABORATORY DEPARTMENT
DCLD-CQPS PRODUCT CONFORMITY CERTIFICATION SCHEME

SCOPE OF CERTIFICATION
FOR CERTIFICATE NO. CL17020463

TABLE 2 (EXPANDED)
PHYSICAL PROPERTY REQUIREMENTS OF RIGID CELLULAR POLYSTYRENE THERMAL INSULATION

SN	PROPERTIES	TYPE XI	TYPE I	TYPE VIII	TYPE II	TYPE IX	TYPE XIV	TYPE XV
1	**COMPRESSIVE RESISTANCE** @ yield or 10% deformation, which occurs first, min kPa	*35*	*69*	*90*	*104*	*173*	*276*	*414*
2	**THERMAL RESISTANCE** of 25.4 mm thickness, @ mean temperature of @ 35ºC and 60% RH min, ºK-m²/W	*0.53*	*0.60*	*0.64*	*0.67*	*0.71*	*0.71*	*0.73*
3	**THERMAL CONDUCTIVITY**, max, W/m-ºK @ 35ºC and 60% RH	*0.0482*	*0.0419*	*0.0394*	*0.0377*	*0.0356*	*0.0356*	*0.0347*
4	**FLEXURAL STRENGTH**, min, kPa	*70*	*173*	*208*	*240*	*345*	*414*	*517*
5	**WATER VAPOR PERMEANCE** of 25.4 mm thickness, max, perm	*5.0*	*5.0*	*3.5*	*3.5*	*2.5*	*2.5*	*2.5*
6	**WATER ABSORPTION** by total immersion, max volume %	*4.0*	*4.0*	*3.0*	*3.0*	*2.0*	*2.0*	*2.0*
7	**DIMENSIONAL STABILITY** (change in dimension), max, %	*2.0*	*2.0*	*2.0*	*2.0*	*2.0*	*2.0*	*2.0*
8	**OXYGEN INDEX**, min, volume %	*24*	*24*	*24*	*24*	*24*	*24*	*24*
9	**DENSITY**, min, kg/m³	*12*	*15*	*18*	*22*	*29*	*38*	*48*

NOTE: The above specification values are extracted from Table 1 of ASTM C578: 2018

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