PRE QUALIFICATION





The Definition of Water Proofing & Insulation

COMPANY PROFILE

Established in the year of 2014, with the experienced technicians and Professional Technical team now we become one of the leading company in the field of Roof Water Proofing and Insulation Works of this region. We are an ISO certified company, our Company is fully mechanized with advanced machineries that move to work sites along with highly skilled technicians to bridge the technological gap and bring in the best possible technology and quality application right to the door step of every individual customer in the region.

The Professional team of Compact Roof Insulation Works offers a comprehensive system called *"COMPACT ROOF SYSTEM"* with a complete solution for Roof Water Proofing and Insulation work fully comply with standard requirement of *ESTIDAMA*, we give 25 years of Guarantee Certificate against leakage for this system.

As a well established company we got the chance to contribute our Quality and Ability in many of the Landmark project in this short period. We had worked with main Developers and Establishment of this region like Musanada, Mubadala, LuLu Group, Dar Al Shifa Hospital, Abu Dhabi University, Etihad Rail etc. We have ICV certification and we worked in ADNOC projects.

So far, we have completed 440 projects in Abu Dhabi, Al Ain and Dubai region. In 2020, We have second best market share in spray polyurethane water proofing system. We received *outstanding contribution award* continuously 2 Years from BASF Kanoo Polyurethanes.



INDEX:

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- 6. SCOPE OF WORK
- 7. TECHNICAL COMPARISON
- 8. DATA SHEETS
- 9. STAGES OF WORK
- **10. PREVIOUS JOBS & APPROVALS**



> OUR VISION





كومباكت لاعمال العزل ذ.م.م. Compact Insulation Works L.L.C.

The Definition of Water Proofing and Insulation

OUR VISION

TO BE THE DEFINITION OF WATER PROOFING AND INSULATION COMPANY BY GIVING QUALITY SERVICES TO OUR CLIENTS.



تليفون : ٢٠٨٩٧٠٢ ٢ ٩٧١ +، فاكس : ٢٠٨٩٧٠٣ ٢ ٩٧١ +، ص. ب : ٨٤٠١، أبوظبي – أ. ع. م. Tel. : +971 2 6589702, Fax : +971 2 6589703, P.O.Box : 8401, Abu Dhabi - U.A.E.

> CERTIFICATES AND ACCREDITATION





Certificate O egistration Awarded to

COMPACT INSULATION WORKS LLC

P.O. BOX NO: 8401, M-4, BUILDING NO: C174, SHABIYA ME-09, MUSSFAH, ABU DHABI, UAE

Quality Registrar Systems certify that the management system of the above organization has been audited and found to be in compliance with the QRS requirements for registration of the management system standard detailed

below:

ISO 9001:2015

Quality Management Systems

Scope of work

ROOF WATER PROOFING AND THERMAL INSULATION SUPPLY AND INSTALLATION OF INSULATION MATERIALS IN BUILDINGS AND FACILITIES

Certificate No: DQU-11761 Originally Registered: 25 MAR 2018 Latest Issue: 25 MAR 2018 Valid up-to: 24 MAR 2021

Quality Registrar Systems



Quality Registrar Systems is accredited by Dubal Accreditation Department (DAC) for the Scope mention on Quality Registrar Systems (QRS) Accreditation Certificate No. CB-037-MS



Certificate egistration

Awarded to

COMPACT INSULATION WORKS LLC

at P.O. BOX NO: 8401, M-4, BUILDING NO: C174, SHABIYA ME-09, MUSSFAH, ABU DHABI, UAE

Quality Registrar Systems certify that the management system of the above organization has been audited and found to be in compliance with the QRS requirements for registration of the management system standard detailed below:

ISO 14001:2015

Environmental Management Systems

Scope of work

ROOF WATER PROOFING AND THERMAL INSULATION SUPPLY AND INSTALLATION OF INSULATION MATERIALS IN BUILDINGS AND FACILITIES

Certificate No: DQU-20769 Originally Registered: 25 MAR 2018 Latest Issue: 25 MAR 2018 Valid up-to: 24 MAR 2021

Quality Registrar Systems



Quality Registrar Systems is accredited by Dubai Accreditation Department (DAC) for the Scope mention on Quality Registrar Systems (QRS) Accreditation Certificate No. CB-037-MS



Certificate Of S egistration Awarded to

COMPACT INSULATION WORKS LLC

P.O.BOX NO: 8401, M-4, BUILDING NO: C174, SHABIYA ME-09, MUSSFAH, ABU DHABI, UAE

Quality Registrar Systems certify that the management system of the above organization has been audited and found to be in compliance with the QRS requirements for registration of the management system standard detailed

below:

OHSAS 18001:2007

Occupational Health and Safety Management Systems

Scope of work

 ROOF WATER PROOFING AND THERMAL INSULATION
SUPPLY AND INSTALLATION OF INSULATION MATERIALS IN BUILDINGS AND FACILITIES

Certificate No: DQU-30851 Originally Registered: 25 MAR 2018 Latest Issue: 25 MAR 2018 Valid up-to: 24 MAR 2021

CB-037-MS

Quality Registrar Systems



MANAGING OFFICE ADDRESS: Quality Registrar Systems P.O. Box :26826 United Arab Emirates



Tel: +971-2-6714302 Fax: +971-2-6741449 www.qrsyst.com

Quality Registrar Systems Is accredited by Dubai Accreditation Department (DAC) for the Scope mention on Quality Registrar Systems (QRS) Accreditation Certificate No. CB-037-MS

Annexure 1

	N COU	NTRY VALUE CERTIFICATE REVISION 3		I
		COMPANY GENERAL INFORMATION		Notes and the set
		1		1 1 1
Name (as per Licens	æ)		Comment Web.	1.1
Compact Insulation Wor	rks LLC		CN-1736523	_
		Contact Parson Datails	100 M	T F F
Address (se per Ucense)	News	Saetha Kumar K		
80x-8401	G-mail	info@compactInsulation.com		
ibiya-9,	Office	02 6589702		
Competer Type		Company based In		Within UAE
(Select from drop down list)	SMEINUAE	(Select from drop down list)		
Financial Year Brid date (may/di/)proj	31 December 2019	Audited Financial Statement issue date (multi/yyy)	12 March 2020	
Company Business	SERVICE PROVID	JER		
		IN-COUNTRY VALUE DETAILS		
Sector Sector	C Designation	Applicability	Overall ICV Compo	nent
Description	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A	N/A	
Goods Manufacture Third Party manuf	10	Yes	6.57%	
investment		Yes	10.00%	
investment - top u	p	Yes	0.00%	
Manpower - Emiratiza	ition	Yes	5.82%	
Manpower - Expat	S		0.00%	
Investment growth)	Tes	23.384	
ORIGINAL CERTIFICATE ISSUE DATE	19 May 2020	ICV SCORE VALID TILL	11 May 2021	
Re-certification (*) No.	-OR CASES (IF RE-CERTIFICATION (*) (CERTIFIVING BODY JC FILL THE DETAILS) (*) When re-certified based on same financial statement used	for Original ICV certificate	
	N/A			
Reason for this Recertification	N/A N/A المحمد لا عمد ال المحرل .	John Jakupanala MAZA	مستزارز معلي من قارز. ACCOUNTANTS LLC المرواد في عا	
Reason for this Recertification	N/A N/A N/A N/A P.O. BOX: 8401. ADU DINU	Verified as per ICV Agreed Upon Procedures (AUP) On beheff of Certification Body	محسيل او زيار معليه معني اللوزي ومعلم محمد المراجع المراجع المراجع الم	
Reason for this Recertification	N/A N/A N/A N/A DJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJ	Verified as per ICV Agreed Upon Procedures (AUP) On beheff of Certification Body Name:	R S مصبر او ز معلي من قارنیست معلی من قارنیست دهوه محص عا affer A. Rupawala	
Reason for this Recertification	N/A N/A Viall Ulare Y carl, South of the second sec	Verified as per ICV Agreed Upon Procedures (AUP) On beheff of Certification Body Name: Designation:	R S معني من المرز معني من المرز ACCOUNTAINTS LLC المرغ الرقي Iaffer A. Rupawala Engagement Partner	
Reason for this Recertification	N/A N/A N/A DJJJJJ JLace Y 2277 JJJJ JLace Y 2277 N/A COMPACT AND DIAM MCT INSULATION WORKS	Verified as per ICV Agread Upon Procedures (AUP) On beheif of Certification Body Name: Designation:	R S معنی او ز او ز R S معنی مین الاونو RED ACCOUNTANTS LLC المرع نو هی Haffer A. Rupawala Engagement Partner Mazars Chartered Accountants I	
Reason for this Recertification ted by behalf of Supplier ne: Sastha Kumar K Ignation: Managing Director e: 19 May 2020	N/A N/A 2 Jon J J J J J J J J J J J J J J J J J J	Verified as per ICV Agread Upon Procedures (AUP) On beheif of Certification Body Name: Designation: Company:	R S معنی اور ز معنی مین الارتی RED ACCOUNTANTS LLC فرع نو هی Haffer A. Rupawala Engagement Partner Mexars Chartered Accountants I	LC
Reason for this Recertification ed by sehalf of Supplier te: Sastha Kumar K gnation: Managing Director e: 19 May 2020	N/A N/A N/A DJJLII JLLES Y C.T. JJJLII JLLES Y C.T. P.O. BOX: 8401, ADD 0000 3407 INSULATION WONKS	Verified as per ICV Agreed Upon Procedures (AUP) On beheff of Certification Body Name: Designation: Company: Date:	R S معلي ون الارز معلي ون الارز ERED ACCOUNTAINTS LLC فرغ نو في Haffer A. Rupawala Engagement Partner Mazars Chartered Accountants I 19 May 2020	uc
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2018	المورديين لعام:	بطاقة تسجيل / تجديد
لا - رئيس شعبة المتنتريات والعلود بالوجالة	nepl_c	

التعليمات

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- يرجى معن يعثر على هذه البطاقة تسليمها لأقرب مركز شرطة أو الإتصال على الرقم (02-6555555).

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على الرحم (2000 و 2000 معنى). • يمنع رهن هذه البطاقة أو إستعمالها لغير الغرض المخصص لها. • في حالة تلف أو فقدان البطاقة يتوجب دفع رسوم إضافية لإصدار بطاقة

تاريخ إبتداء التسجيل : 01-01-2018 تاريخ إنتهاء التسجيل : 2018-12-31

092520181231041361863

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Abu Dhabi Commercial Engineering Services ADCE أيوظبي التجاري للخجمات الهندسية specific project they should go through the sub-contractor submission process where they should prove resource allocation, financing position and proper engineering staff. The issuing of this certificate does 1) This prequalification approval does not absolve the sub-contractor from getting a 'project specific approval' by the project consultant and by ADCE. Whenever a pre-qualified sub-contractor applies for a Issue date: 30 April 2017 Registration Review Committee Signature 2: Samir E Daou REGISTRATION CERTIFICATE China arrance Athy Distance of the state 44 We ADCE hereby register the Sub Contractor: Compact Insulation Works LLC 115 Waterproofing Works Registration Review Committee Signature 1: 2) This certificate is valid for one year from issue date. With the following Civil Work Service/s: not confer any authority upon the Sub Contractor. ADCE Registration Number: SC-292 Note:

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الرقم الموحد للعضوية فقد تم تسجيل لممارسة النشاط خدمات حقول ومنشلت النفط والغاز البرية والبحرية ، تركيب المواد العازله في الأبنية والمنشآت العتوان الشكل القانوني شركة ذات مسئولية محدودة جنسية الشركاء الهند الإمارات <u>الاعمال</u> العمال العمال العمال العمال العمال العميمة BUSINESS VOICE magazine inttp://bit.ly/adbvoice The Smart Chamber With you we will be ahead كومباكت لاعمال العزل ذ.م.م معكم ستواصل النفده مدينة محمد بن زايد، شرق ٩ - ق٤٧٤ - مكتب٤ -، المالك: ماجد سالم خليفه راشد الرميثي 322193 بناء على قانون غرفة تجارة و صناعة أبو ظبي رقم ٢٧ لعام ٢٠٠٧ م olarabic rain oerae Members Services Sector Abu Dhabi Chamber of Commerce & Industry صدرت بتاريخ رفساق جسارة وصناعة الموظيس ARD DHAR CHAMBER abu daal daare العام 2019/09/03 من الجنسية الامارات ويبسري مفعوليها حنى تاريخ رقم الرخصة CN-1736523 2020/03/12 847007 Sec. 1

> ORGANIZATION CHART





> TRADE LICENSE COPY



TRADE LICENSE COPY

دائـــرة الــــتـــهـيــة الاقــتـصـاديـــة DEPARTMENT OF ECONOMIC DEVELOPMENT

فصة تجار

Commercial License

مركــــز أبــوظــبي للأعــمــــال

Abu Dhabi Business Center

License No	:	CN-1736523	:	رقم الرخصة
ADCCI No		322193	:	عضوية الغرفة
Establishment Card MOHRE	:		;	وزارة الموارد البشرية والتوطين بطاقة المنشأة
Establishment Card GDRFA	:		:	الادارة العلمة للإقلمة وشوون الأجانب - يطلقة المنشأة
Legal Form	Elimited Liability Company		· شركة ذات مسؤولية محدودة	الشكل القلوني
			: كومباكت لاعمال العزل ذ.م.م	الإسم التهاري
Trade Name	: COMPACT INSULATION WOR	RKS L.L.C.		
Establishment Date	:	09/02/2014	:	تاريخ تأسيس المنشأة
Issue Date		14/03/2020	:	تاريخ الإصدار
Expiry Date	:	13/03/2021	3	تاريخ الإنتهاء

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YEAR OF

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Number of Street Street			
Role	الجنسية Nationality	السرية م Owners / Partners	للرمز No.
شريك	الإمارات العربية المتحدة	محمد يوسف ناصر جاسم الزعابي	20001566
Partner	United Arab Emirates	MOHAMED YOUSUF NASER JASSEM ALZAABI	
شريك	الهند	ساستاکومار کونچامبو بی فی کونجامبو	41261833
Partner	India	SASTHAKUMAR KUNJAMBU P V KUNJAMBU	
Commercial Activit	iles :	:	الأنشطة التهارية
- Installation of insul	ation materials in buildings and	البنية والمنشأت facilities	- تركيب المواد العازلة في ا
- Onshore And Offsh	nore Oil And Gas Fields And Fa	ط والمغاز البرية والبحرية acilities Services	- خدمات حقول ومنشأت النف
Address	ئوم :	: مدينة محمد بن زايد, مدينة محمد بن زايد شرق 9, 0 : ~, مبنى, السيد مبارك على عزيز مك	العنوان
	۰ ۲	(تم تحصيل رسوم غدمات الدقاع المنفي)	

http://www.ded.abudhabi.ae وثيقة معتدة وصادرة بدون توقيع أو ختم من دائرة التئمية الاقتصادية - أبوظبي. للتحقق من صحة البيانات الراردة في الرخصة برجاء زيارة الموقع ومن من دائرة التئمية الاقتصادية - أبوظبي. كالتحقق من صحة البيانات الراردة في الرخصة برجاء زيارة الموقع ومائرة التئمية الاقتصادية - Approved document issued without signature or stamp by the Department of Economic Development - Abu Dhabi. To verify the license kindly visit http://www.ded.abudhabi.ae

Official Email Official Mobile

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غرفة أبوظبي

unitytyping@gmail.com 971501966823 البريد الإلكتروني الرسمي : رقم التواصل الرسمي :



وزارة السداخليسيسية القيسادة العسامية للسدفساع المسدنيي MINISTRY OF INTERIOR GIN. COMMAND OF CIVIL DEFENSE









كومباكت لاعمال العزل ذ.م.م. Compact Insulation Works L.L.C.

The Definition of Water Proofing and Insulation Company

Guarantee Certificate

NAME OF THE OWNER:

PROJECT:

MAIN CONTRACTOR:

CONSULTANT:

JOB NO:

SYSTEM APPLIED:

GUARANTEE PERIOD:

COMMENCING:

EXPIRING:

CERTIFCATE OF WATERPROOFING

Subject to terms set forth in this guarantee, **Compact Insulation Works L.L.C** hereby certify that COMPACT ROOF SYSTEM waterproofing system installed by us in above given project has a guaranteed LIFE PERIOD (25 years) from the date of installation against leakage, whereas the product is designed satisfactory for an indefinite period, we guarantee the product's performance (Waterproof Roof) for a minimum period of 25 years from the date of installation. Should the system fail to perform as expected, **Compact Insulation Works L.L.C** agrees to carry out all the remedial works without any cost to the client/ contractor under this guarantee, **Compact Insulation Works L.L.C** shall be responsible to maintain the water tightness of the roof during guarantee period.

For Compact Insulation Works L.L.C



مربع المعني - أ.ع.م. (٨٩٧٠٢ : ٢ ١٥٨٩٧٠٢ ، من بـ ٢ ٨٤٠١ ، أبيوظيبي - أ.ع.م. Tel. : +971 2 6589702, Fax : +971 2 6589703, P.O. Box : 8401, Abu Dhabi - U.A.E.

This guarantee shall not cover and Compact Insulation Works L.L.C shall not be responsible for acts, conditioning and circumstances for any damage arising from any of the following: Insurrection, war, riots or vandalism. Any deliberate or negligent acts or omissions by the owner, main contractor or any third party. Exposure to any chemical solution, fire or radiation, Natural disasters like but not limited to hail, floods, hurricanes, lightening and earthquakes. Settlement distortion, resulting in failure or cracking of the roof, deck, walls or foundation of the building. Failure of the other components of the structure to conform to manufacturer's specifications or other requirements. Any new installation on roof or repairs without prior written approval of Compact Insulation Works L.L.C. This guarantee replace any other guarantees or warranties expressed or implied on the part of Compact Insulation Works L.L.C. In no event Compact Insulation Works L.L.C shall be liable for consequential or incidental damages of any kind including damage to building or its contents or lost profits. It is the responsibility of the owner/client to maintain a properly functional drainage system for the air conditioning units placed on the roof to discharge their condensation water, avoiding any water stagnation on the roof. This guarantee becomes valid only if the owner or contractor settles the roofing contract value in full.







SCOPE OF WORK

COMPACT ROOF SPECIFICATION

PROPOSED COMPACT ROOF WATERPROOFING SYSTEM SHALL INCLUDE FOLLOWING MATERIALS AND WORKS TO BE SUPPLIED AND INSTALLED WITH LIFETIME GUARANTEE OF 25 YEARS.

- Roof slab shall be inspected by a roofing specialist from the manufacturers office and confirm acceptance of the roof for application of the COMPACT ROOF waterproofing system.
- 2. Clean the roof using compressed air to make sure substrate is free of dust and debris.
- 3. Supply & spray apply polyurethane at an average thickness of 35mm over the entire roof area including the up stand to a height of max 200mm.
- 4. Supply& apply Rubberized bitumen over the entire foam area and allow to dry for Minimum 24 hours.
- 5. Flood Test the roof for a minimum period of 24 hours.
- 6. Supply & lay GEOTEXTILE protection layer over the entire roof area.
- 7. Supply & fix FLEXCEL BOARDS expansion joint filler in slope and in panels
- 8. Supply & apply protective screed in panels and cure as per standard procedures.
- 9. Supply & apply BONDING AGENT to all corners and up stands.
- 10. Prepare angle fillet all around parapet skirting area (For foundation Angle fillet to be done only for direct slab foundation) and up stands using sand cement mortar.
- 11. Supply & apply PU sealant to all construction joints including backing rod.
- 12. Supply & apply ACRYLIC ROOF COATING over the entire roof area including up stands and allow to dry for 48 hours.
- 13. Final inspection shall be carried out and shall issue a life time guarantee of 25 years.



Procedure and Scope Work

- Upon casting and complete curing of roof slab, Applicators engineer shall visit the site to inspect the rood and accept the roof for waterproofing and heat insulation works. A preliminary site inspection shall be carried out and any further preparation work is required shall be brought to the attention of the main contractor. Prior to commencement of roof waterproofing works, main contractor shall make sure following conditions are met:
 - 1.1. All joints existing between roof slabs other than expansion joints provided shall be filled with mortar.
 - 1.2. All electrical conduits and service entries to slab shall be closed with mortar.
 - 1.3. Sides of electrical conduits and service entries shall be sealed with mortar.
 - 1.4. Rain water outlets shall be in place at specified height as per slope.
 - 1.5. Vertical parapet wall shall be plastered to the required height.
 - 1.6. Roof door threshold shall be in place.
 - 1.7. A.C or water pipe sleeves shall be in place at a minimum height of 400mm.
 - 1.8. All other works on the roof shall be completed prior to commencement of waterproofing works.
- 2. On acceptance of roof from the main contractor, application crew shall visit the site to commence mechanized cleaning operations using compressed air to free the entire substrate from dust and any other loosely lying particles.
- 3. On completion of cleaning works, other preparatory works shall be undertaken like covering of parapet wall and other utilities fixed on the roof to avoid the risk of over party.
- 4. Upon completion of preparatory works COMPACT ROOF system application shall commence where a combination of Polyol&Isocynate is sprayed onto the roof slab including upstands using GAMA combination equipment. The spray applied system forms an impermeable waterproofing cum insulation layer with high thermal resistance, close all pores and cracks that exists in the roof slab.
- On completion of polyurethane foam application, Rubberized Bitumen liquid waterproof of coating shall be applied over entire foam of maximum thickness 600 microns/ single coat application

- 6. Once Rubberized coating is completely dried (minimum 24 hours), Manufactures Engineer shall visit the site to inspect the works completed and give clearance for flood test (minimum 24 hours), on successful completion of flood test a test report shall be prepared and maintained for records.
- 7. Upon successful completion of flood test, water shall be removed and geo textile(120gsm) membrane shall be laid as a protection layer over the entire roof area prior to commencement of screeding works.
- 8. Application's Engineer shall make level markings to screeding at site and screeding crew of the applicators shall commence the paneling work using FLEXI BOARD expansion joint filler board and pre-mixed comentitious adhesive mortar to attain the desired slope level as indicated in the approved drawing.
- Protective screed shall be laid in panels and angle fillets done after application of BONDING AGENT to the corner surface and being on track free conditions of size 100 x 100mm and cured a per standard procedures.
- 10. Once screed is completely cured all construction joints shall be opened and treated using heavy duty PUsealent and backing rod for accommodating movement of the concrete during expansion and contraction.
- 11. Once sealant applied is completely cured, ACRYLIC ROOF COATING acrylic waterproof coating shall be applied over entire screed including upstands for form a uniform coating of maximum thickness.
- 12. Once the final coat is completely curedfor 48hours, Applicator Engineer shall visit the site for final inspection and a LIFE TIME GUARANTEE OF 25 YEARS shall be issued.





STEP-3 : SPRAY APPLY POLYURETHANE FOAM OF REQUIRED THICKNESS WITH DENSITY 40-50 KG/M³.

STEP-4 : BRUSH/SPRAY APPLY U.V RESISTANT PROTECTIVE COATING ABOVE ENTIRE P.U FOAM SPRAYED AREA.

STEP-5 : LOOSELY LAY GEO-TEXTILE SEPARATION AND PROTECTIVE LAYER 120 GSM WITH AN OVERLAP OF 30 CM.

STEP-6 : FIX RIDGES IN PANELS AND SLOPE (1:120-MAX) USING BITUMEN IMPREGNATED BOARDS AND CEMENT SAND MORTAR. STEP-7 : LAY PROTECTIVE SCREED CONCRETE 25N/MM² TO SLOPE (1:120-MAX TO DRAWINGS) 45MM MIN. THICKNESS.

STEP-8 : FIX BACKING ROD & HEAVY DUTY PU SEALANT TO ALL CONSTRUCTION JOINTS IN SCREED.

STEP-9 : FIX ANGLE FILLETS ALONG THE PARAPET, MECHANICAL DUCT OPENINGS AND PRE-UTILITY UPSTANDS.

STEP-10 : APPLY FINAL COAT OF ACRYLIC ROOF PROTECTIVE COATING ABOVE SCREED & ANGLE FILLET (+50MM VERTICALLY).

SPRAYED POLYURETHANE THICKNESS = 35MM

PROJECT :	DRAWING TITLE :		WATER PROOFING CO	NTRACTOR :
- CLIENT :	COMPACT ROOF SYS	STEM - TYPICAL SECTION		
-				COMPACT INSULATION
CONSULTANT :	DATE :	SCALE:		WORKS L. L. C
-	-	NTS	COMPACT	P.O. BOX 8401 ABU DHABI, UNITED ARAB EMIRATES
MAIN CONTRACTOR : -	DRAWING NUMBER : CIW-SD-I	RWP-0001		TEL: 02 - 0589702 FAX: 02 - 0589703 MOB: 050 9066960




















> TECHNICAL COMPARISON



TECHNICAL COMPARISON

TECHNICAL EVALUATION OF BITUMEN MEMBRANE SYSTEM & COMPACT ROOF SYSTEM

	BITUMEN MEMBRANE SYSTEM		COMPACT – ROOF SYSTEM			
	EXPENSIVE AND SLOW PROCESS		ECONOMICAL & SPEEDY PROCESS			
•	Main contractor along with various suppliers & sub – contractor (foam concrete, waterproofing, insulation, separation layer & tiling) have intermingling responsibility in the event of a leakage and the process shall be time consuming	•	Main contractor only have to prepare and give the roof slab, rest of the complete roofing work is done by us, thereby pinning the full responsibility of installing a quality waterproofing cum insulation system with just one company. The application is fully mechanized for a speedy execution of work and the price will be minimum 10% less than Bitumen Membrane system.			
H	EAT INSULATION & WATERPROOFING WITH JOINTS		JOINT FREE INSULATION & WATER <u>PROOFING</u>			
•	Torch applied waterproofing membrane with 10cm overlap joints always have to tendency to fail in their joints under lateral strain. Readymade heat insulation boards with joints have to risk of heat transmitting through their joints. Full strength thickness will be more than compact	•	Monolithic layer without any joints can ensure complete protection against any possible leakage. Monolithic heat insulation layer ensures complete protection against any possible heat transmission.			
	roof system		25 Marca Communication			
•	• To years Guarantee Only					
	COSTLY MAINTENANCE		EASY REPAIR & MAINTENANCE			
•	System consists of many joints thereby increasing the risk of failure. Manufacturer and applicator are different causing concern on installation procedures. Right product in wrong hands could be disastrous.	•	Being a joint free system any possibility for a system failure is absolutely nil. Only possibility for a leakage is through damages that are physically caused to the system. May be in the form of a hole drilled through the system for fixing disk antenna or similar sought.			
•	In the event of a leakage, it is very difficult to detect the point of failure. Once the waterproofing layer is rupurtered, the foam concrete lying beneath the bitumen membrane absorbs maximum amount of water it can being a very porous layer and seeps it down from a point where the roof slab is weak. Hence point of failure and point of seepage could be wide apart making it difficult to locate the exact point of failure.	•	Once if water penetrates through the manmade hold and reaches the slab, it can only create a dampness exactly down at the point of rapture in the slab, since lateral movement of water is restricted due to the closed cell construction of the P.U. Foam. If any leakage is detected, exactly above could be the point of failure. Cut open an area above of one meter by one meter and do the repair work thereby limiting the extent of damage only of the specific area of			
•	By the time the point of failure is detected, whole of the waterproofing, insulation and tiling done work could be irreparably damaged resulting in full replacement.		leakage.			







DATA Sheets



HUNTSMAN ® SP 40 TECHNICAL DATA SHEET

*APPLICATION

Huntsman ® SP 40 is a Polyurethane spray foam system for the production of rigid foam with closed cells, used for roofs, walls and floor insulation over metal, concrete and plywood. The system is CFC-free and has Zero Ozone Depletion Potential (Zero ODP) value.

***PRODUCT DEFINITION**

Polyol Component(A) : Mixture of polyol, catalyst, blowing agent and other additives. **Isocyanate-Component(B)** : Mixture of diphenylmethane- diisocyanate. (HUNTSMAN [®] 200), isomers and halogen.

***STORAGE & HANDLING**

Before the usage, the system should be made homogenous by mixing. The empty tank should be clean. More detailed information can be obtained from MSDS.

Materials must kept sealed and closed in covered shaded area.

***RISKS AVAILABLE**

The isocyanate component irritates the respiration sytem, eyes and skin. This can have allergic reactions if inhaled or when comes in contact with skin. The required measurements indicated in the safety data sheet should be noted during handling of isocyanate. The same procedure should also be applied during handling of the A system (polyol) considering the risk available.

*COMPONENT DATA				
	Unit	Polyol Component	Isocyanate Component	Standard Method
Specific Gravity (25°C)	g/cm³	1.18	1,23-1,24	DIN 51 757
Viscosity (25°C)	mPa.s	580-630	180-240	ASTM D 4878-03
NCO percentage	%	—	30-31,5	ASTM D 5155 B
Storage Stability	month	4	6	—
Colour		Light Yellow	Brown	-
Package	Kg/Drum	220	250	-

*LABORATORY TEST DATA						
	Unit	Value	Method			
A:B Ratio	Based on volume	100:100				
Cream time	S	4-5	E-01			
Gel time	S	8-10	E-01			
Free rise density	kg/m³	30-31	E-01			

HUNTSMAN UAE FZE based in DUBAI, UAE is a fully owned subsidiary of Huntsman. Also, the data given in this sheet does not guarantee the character or a special utilization of the

material.HUNTSMAN UAE, FZE P.O Box 16942 Jebel Ali Free Zone, Dubai UAE



***MATERIAL APPLICATION**

Must be applied using plural-component spray equipment. The mixture reacts on the surface, adhering to it instantaneously, and expanding into a rigid foam

*MACHINE CONDITIONS		
Mixing Ratio of Components:	1:1 (volume)	
Component Temperatures:	30 − 50 °C	Depends on weather condition
Component Pressure:	50 – 80 Bar	
*ENVIRONMENTAL COND	ITIONS	
Ambient Temperature:	Between +10 and +48 °C	
Relative Humidity:	< 85 %	
Wind speed:	≤ 20 km/h	
*SUBSTRATE CONDITIONS	5	
Primer:	Flash coat of spray foam	When needed
	(1-2mm)	
Substrate Temperature:	Between 10 and +48 °C	Depends on weather condition
Substrate Humidity:	≤ 20 %	Porous substrates
	Without condensations on substrate	Nonporous substrates

Application Technique:

- Pass thickness should be between 10-20mm. In order to maintain the designed density and dimensional stability, it is not recommended to apply ticker layers.
- Higher than recommended layer thicknesses, cause a decrease in density and worse dimensional stability of
- the foam. Very thin layers will increase the density and decrease product yield.
- When applying a total thickness of (>6 cm), it is important to keep a time gap of 10 min between the layers. Longer time gap is necessary for thicknesses above 10 cm
- The distance from the spray gun to the substrate is recommended to be approx. 80 cm.

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***APPLICATION PHYSICAL PROPERTIES**

Below values were tested on samples produced under controlled conditions. Values will vary with differences in applications (i.e. Ambient conditions, process equipment and settings, material throughput, etc., Therefore, below values should be used as guidelines for purpose of evaluation.

Physical property	Standard	Unit	Value
Density (Core)	BS EN 1602:2013	Kg/m³	40 ± 2
Compressive strength/compressive stress at 10 % deformation	BS EN 826:1996	kPa	170
Thermal Transmission properties by heat flow meter (Therma Cond)	ASTM C518:2015	W/mºK	0.024
Water Vapor transmission of insulation materials	ASTM E96/96M-2016	grains/h. ft2	0.70
Water absorption (2H) thermal insulation	ASTM C209-2015	By volume %	0.90
Tensile strength parallel to faces of thermal insulation	BS EN 1608:2013	kPa	180
Dimensional Stability Under Specific Temperature & humidity	BS EN 1604:2013	L % W% T%	7.0 7.0 2.0
Closed Cells Content	ASTM D 6226-10 Procedure 1	%	≥ 90
Flammability	BS EN 13501 – 1:2007	Euro Class	Class F / B3

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Dubai Central Laboratory Construction Materials Laboratory Section - Structural Unit TEST REPORT APPARENT DENSITY

Report No:	100505422	Request No:	EMTX-2019-107024			
Project No:	PS17-1213	Report Date:	21/11/2019			
Project Name:	TESTING SERVICE FOR HUNTSMAN A	DVANCED MATERIALS UAE FZE				
Consultant:	NA	NA				
Contractor:	Contractor: HUNTSMAN(UAE) FZE					
Location:	Huntsman (UAE) FZE					
Source:	NOT GIVEN					
Sample Description:	SPRAY APPLIED RIGID CELLULAR POI	YURETHANE INSUL.				
Sampling Date/Time:	30/10/2019 09:00 AM	Lot Number:	Nil			
Receiving Date/Time:	05/11/2019 08:00 AM	Lot Size:	Nil NA			
Sample Size:	5 pieces	Sender No:	Nil			
Material/Mix type:		Laying Date/Production Date	01/10/2019			
Nominal Size / Working B	lock Size L * T * H (mm) : 1000X380)X50				

TEST RESULTS

PARAMETERS			RESULTS					
SAMPLE TYPE		HUNTSMAN SP40						
SUPPORT / FACING		NIL						
NOM. THICKNESS (mm) :			50					
NOM. DENSITY (kg/m3) :			40					
SPECIFICATION LIMIT (kg/m3)		NG						
SPECIMEN NOM. LENGTH (mm)	1000							
SPECIMEN NOM. WIDTH (mm)			380					
SPECIMEN NOM. THICKNESS (mm)			50					
PRE-COND. TEMP, RH & DURATION		:	23 deg C, 50% RH & 4	8 Hr.				
TEST TEMPERATURE & RH			23 deg C, 50% RH	1				
SPECIMEN NO	1	2	3	4	5			
APPARENT DENSITY (kg/Cubic m)	51.5	51.5	51.5	46.0	43.5			
AVG. APPARENT DENSITY (kg/Cubic m)			48.8					

Sampled By:	Ahmed Wanas(Sales Manager)	Tested By:	NIMIAH	
Samples Brought By:	Ahmed Wanas(Sales Manager)	Testing Date:	06/11/2019 12:56 PM	
Sampling Method:	NOT GIVEN	Sampling Report No:		
Test Method:	BS EN 1602: 2013	Test Method Variation:	NIL	
Remarks:	THIS REPORT REPRESENTS THE SUBMITTED SAMPLES ONLY.			

LB-014





Dubai Central Laboratory Construction Materials Laboratory Section - Structural Unit TEST REPORT APPARENT DENSITY

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Construction Materials Laboratory Section - Structural Unit TEST REPORT

COMPRESSIVE STRENGTH/COMPRESSIVE STRESS AT 10% DEFORMATION

Report No:	100505423	Request No:	EMTX-2019-107024		
Project No:	PS17-1213	Report Date:	21/11/2019		
Project Name:	TESTING SERVICE FOR HUNTSMAN AL	VANCED MATERIALS UAE FZE			
Consultant:	NA				
Contractor:	HUNTSMAN(UAE) FZE				
Location:	Huntsman (UAE) FZE				
Source:	NOT GIVEN				
Sample Description:	SPRAY APPLIED RIGID CELLULAR POL	YURETHANE INSUL.			
Sampling Date/Time:	30/10/2019 09:00 AM	Lot Number:	Nil		
Receiving Date/Time:	05/11/2019 08:00 AM	Lot Size:	Nil NA		
Sample Size:	5 pieces	Sender No:	Nil		
Material/Mix type:		Laying Date/Production Date	01/10/2019		
Nominal Size / Working B	lock Size L * T * H (mm) : 1000X380	X50			

TEST RESULTS

PARAMETERS				RESULTS				
SAMPLE TYPE	HUNTSMAN SP40							
SUPPORT / FACING			NIL					
NOM. THICKNESS (mm) :				50				
NOM. DENSITY (kg/m3) :				40				
SPECIFICATION LIMIT				NG				
SPECIMEN NOM. LENGTH	l (mm)			150				
SPECIMEN NOM. WIDTH (mm)			150				
PRE-COND. TEMP, RH & D	URATION		23+/	/-2deg C, 50+/-5% RH & 24	Hr.			
TEST CONDITION		23+/-2deg C, 50+/-5% RH						
SPECIMEN NO.		1 2 3 4 5						
MEASURED DENSITY (kg/	Cubic m)	43.6	45.4	41.9	45	5.4 47.1		
INITIAL CROSS SECTIONA (mm2)	AL AREA	22801.00	22800.00	22801.00	2287	76.50 22952.00		
RELATIVE DEFORMATION	l (%)	6.23	10	5.56	1	10 10		
COMPRESSIVE STRENGT	Ή (kPa)	304.7	294.1	279.4	30	2.3 334.5		
AVERAGE COMPRESSIVE (kPa)			303.0					
O	A la rea e el VA/r			Ta stad Dav				
Sampled By:	Anmed wa	anas(Sales Manager) Tested By: NIMIAH						
Samples Brought By:	Ahmed Wa	anas(Sales Manager) Testing Date: 06/11/2019 12:56 PM						
Sampling Method:	NOT GIVE	N		Sampling Report No	:			
Test Method:	BS EN 826	6 : 1996		Test Method Variatio	n:	NIL		

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Remarks:





Dubai Central Laboratory Construction Materials Laboratory Section - Structural Unit TEST REPORT COMPRESSIVE STRENGTH/COMPRESSIVE STRESS AT 10% DEFORMATION

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Dubai Central Laboratory Construction Materials Laboratory Section - Structural Unit TEST REPORT DIMENSIONAL STABILITY UNDER SPECIFIED TEMPERATURE & HUMIDITY

Report No:	100510997	Request No:	EMTX-2019-107086			
Project No:	PS17-1213	Report Date:	05/12/2019			
Project Name:	TESTING SERVICE FOR HUNTSMAN ADV	TESTING SERVICE FOR HUNTSMAN ADVANCED MATERIALS UAE FZE				
Consultant:	NA	NA				
Contractor:	HUNTSMAN(UAE) FZE	HUNTSMAN(UAE) FZE				
Location:	Huntsman (UAE) FZE					
Source:	NOT GIVEN	NOT GIVEN				
Sample Description:	SPRAY APPLIED RIGID CELLULAR POLY	URETHANE INSUL.				
Sampling Date/Time:	30/10/2019 09:00 AM	Lot Number:	Nil			
Receiving Date/Time:	05/11/2019 09:04 AM	Lot Size:	Nil NA			
Sample Size:	5 NA	Sender No:	Nil			
Material/Mix type:	Nil	Laying Date/Production Date	01/10/2019			
Nominal Size / Working F	Block Size I * T * H (mm) : 1000X380X	50				

TEST RESULTS

PARAMETERS			RESULTS		
SAMPLE TYPE			HUNTSMAN SP40		
SUPPORT / FACING			NIL		
NOM. THICKNESS (mm) :			50		
NOM. DENSITY (kg/m3) :	40				
SPECIMEN NOMINAL LENGTH (mm)	200				
SPECIMEN NOMINAL WIDTH (mm)	200				
SPECIMEN NOMINAL THICKNESS (mm	m) 50				
PRE-COND. TEMP, RH & DURATION	23 DEG C & 50% RH, 14 DAYS				
TEST TEMPERATURE (deg C)			70		
TEST RH (%)			90		
TEST DURATION (h)			48		
SPECIMEN NO.	1	2	3		
CHANGE IN DIMENSION-LENGTH (%)	3.6	3.2	3.3		
CHANGE IN DIMENSION-WIDTH (%)	3.6	3.3	3.3		
CHANGE IN DIMENSION-THICKNESS (%)	1.0	0.2	0.2		
MEAN DIMENSIONAL CHANGE IN % - LENGTH			3.4		
MEAN DIMENSIONAL CHANGE IN % - WIDTH			3.4		
MEAN DIMENSION CHANGE IN % - THICKNESS			0.5		

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Dubai Central Laboratory Construction Materials Laboratory Section - Structural Unit TEST REPORT DIMENSIONAL STABILITY UNDER SPECIFIED TEMPERATURE & HUMIDITY

Report No:	100510997	Request No: El	MTX-2019-107086
Sampled By:	Ahmed Wanas	Tested By:	NIMIAH
Samples Brought By:	Ahmed Wanas	Testing Date:	06/11/2019 12:56 PM
Sampling Method:	NOT GIVEN	Sampling Report No:	
Test Method:	BS EN 1604: 2013	Test Method Variation:	NIL
Remarks:	THIS REPORT REPRESENTS THE SUBMITTED SAMPLES ONLY.		

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Dubai Central Laboratory Construction Materials Laboratory Section - Structural Unit TEST REPORT TENSILE STRENGTH PARALLEL TO FACES OF THERMAL INSULATION

Report No:	100504761	Request No:	EMTX-2019-107086		
Project No:	PS17-1213	Report Date:	20/11/2019		
Project Name:	TESTING SERVICE FOR HUNTSMAN ADVA	NCED MATERIALS UAE FZE			
Consultant:	NA				
Contractor:	HUNTSMAN(UAE) FZE				
Location:	Huntsman (UAE) FZE	Huntsman (UAE) FZE			
Source:	NOT GIVEN	NOT GIVEN			
Sample Description:	SPRAY APPLIED RIGID CELLULAR POLYUF	RETHANE INSUL.			
Sampling Date/Time:	30/10/2019 09:00 AM	ot Number:	Nil		
Receiving Date/Time:	05/11/2019 09:04 AM Lo	ot Size:	Nil NA		
Sample Size:	5 NA Se	ender No:	Nil		
Material/Mix type:	Nil La	aying Date/Production Date	01/10/2019		
Nominal Size / Working Block Size L * T * H (mm) : 1000X380X50					

TEST RESULTS

PARAMETERS		RESULTS			
SAMPLE TYPE				HUNTSMAN SP40	
SUPPORT / FACING				NIL	
NOM. THICKNESS (mm) :				50	
NOM. DENSITY (kg/m3) :				40	
SPECIFICATION LIMIT				NG	
NOM. LENGTH (mm)				1000	
NOM. WIDTH (mm)				300	
PACKING FORM AT WHICH ARRIVED IN LAB	PRODUCT			NIL	
EVENT WHICH MAY AFFEC	T RESULT			NIL	
PRE-CONDITION				23+/-2deg C, 50+/-5% RH	
TEST CONDITION				23+/-2deg C, 50+/-5% RH	
SPECIMEN NO.		1	2	3	
MAX. TENSILE FORCE FM ((kN)	3.11	3.98	3.87	
TENSILE STRENGTH PARA FACES (kPa)	LLEL TO	207.3	267.1	255.4	
AVERAGE TENSILE STREN PARALLEL TO FACES (kPa)	GTH)			243.3	
Sampled By:	Ahmed Wa	inas		Tested By:	NIMIAH

Sampled By.		Testeu By.	
Samples Brought By:	Ahmed Wanas	Testing Date:	06/11/2019 12:56 PM
Sampling Method:	NOT GIVEN	Sampling Report No:	
Test Method:	BS EN - 1608 : 2013	Test Method Variation:	NIL
Remarks:	THIS REPORT REPRESTNTS THE SUBMITTED SAMPLES ONLY. ,BREAKING HAPPENED FROM THE GRIP(TOP		







Dubai Central Laboratory Construction Materials Laboratory Section - Structural Unit TEST REPORT TENSILE STRENGTH PARALLEL TO FACES OF THERMAL INSULATION

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Construction Materials Laboratory Section - Structural Unit

TEST REPORT

THERMAL TRANSMISSION PROPERTIES BY HEAT FLOW METER (THERMAL COND)

Report No:	100505421	Request No:	EMTX-2019-107024		
Project No:	PS17-1213	Report Date:	21/11/2019		
Project Name:	TESTING SERVICE FOR HUNTSMAN AD	VANCED MATERIALS UAE FZE	·		
Consultant:	NA				
Contractor:	HUNTSMAN(UAE) FZE	HUNTSMAN(UAE) FZE			
Location:	Huntsman (UAE) FZE	Huntsman (UAE) FZE			
Source:	NOT GIVEN				
Sample Description:	SPRAY APPLIED RIGID CELLULAR POL	YURETHANE INSUL.			
Sampling Date/Time:	30/10/2019 09:00 AM	Lot Number:	Nil		
Receiving Date/Time:	05/11/2019 08:00 AM	Lot Size:	Nil NA		
Sample Size:	5 pieces	Sender No:	Nil		
Material/Mix type:		Laying Date/Production Date	01/10/2019		
Nominal Size / Working Bl	Nominal Size / Working Block Size L * T * H (mm) : 1000X380X50				

TEST RESULTS

PARAMETERS	RESULTS
SAMPLE TYPE	HUNTSMAN SP40
SUPPORT / FACING	NIL
NOM. THICKNESS (mm) :	50
NOM. DENSITY (kg/m3) :	40
SPECIFICATION LIMIT	NG
TEST METHOD VARIATION	NIL
TYPE OF MATERIAL USED FOR CALIBRATION	STANDARD REFERANCE MATERIAL 1450C687
R VALUE @ 35deg C [(M2 K) / W]	0.7169
DATE OF CERTIFICATION	10-DEC-2010 00:00:00
SOURCE OF CERTIFICATION	National Institute of Standards & Technology [NIST] - U.S.A.
EXPIRY & CERTIFICATION TEST NUMBER	Refer NIST special publication 260-130
NOMINAL THICKNESS OF SPECIMEN (mm)	50.0
TEMPERATURE, RH & TIME AT WHICH SPECIMEN CONDITIONED	35 deg C, 60%RH & 48Hr.
DATE OF CALIBRATION	16-NOV-2019 00:00:00
MEAN TEMP.(SET) deg C	35
TEMPERATURE DIFFERENCE (deltaT) deg C	20
NO. OF HEAT FLUX TRANSDUCER USED	2
TEST ARRANGEMENT	HORIZONTAL
METERING (TEST) AREA	100mm X 100mm
Uncertainty of measurement	REFER REMARKS







Construction Materials Laboratory Section - Structural Unit TEST REPORT

THERMAL TRANSMISSION PROPERTIES BY HEAT FLOW METER (THERMAL COND)

Report No:	1005054	21	Request No:	EMTX-2019-107024
PARAMETERS			RESULTS	
TEST NO / SPECIMEN NO.			1/1	
MEASURED THICKNESS (L)	(mm)		51.25	
MEASURED DENSITY (kg/m3	3)		47.41	
MEAN TEMPERATURE ACH	EVED (deg		34.07	
HEAT FLUX (E) W/m2.K.			1384	
THERMAL CONDUCTIVITY,	W/(m K)	0.0232		
THERMAL CONDUCTIVITY, I /h.square ft.degF	THERMAL CONDUCTIVITY, Btu-in /h.square ft.deqF		0.1609	
THERMAL RESISTANCE, (Square m K) / W		1	2.2091	
THERMAL RESISTANCE, ft s	quare / Btu		12.5461	
AVERAGE TEMPERATURE ((K/m)	GRADIENT	ENT 385.51		
WEIGHT DIFFERENCE (%)		0.0370		
TEST DURATION (h:mm:ss)			4:59:22	
		(0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	- / 1-	
Sampled By:	Ahmed Wa	anas(Sales Manager)	Tested By:	SSRAJU

Sampled By:	Anmed Wanas(Sales Manager)	Tested By:	SSRAJU
Samples Brought By:	Ahmed Wanas(Sales Manager)	Testing Date:	06/11/2019 12:56 PM
Sampling Method:	NOT GIVEN	Sampling Report No:	
Test Method:	ASTM C518 -17	Test Method Variation:	NIL
Remarks:	THIS REPORT REPRESENTS THE SUBMITTED SAMPLES ONLY. ,Uncertainty of measurement for thermal conductivity 0.0010 W/m·K @ 95% confidence level, k factor 2 Abridged ASTM C 518 Test Report.		

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Dubai Central Laboratory Construction Materials Laboratory Section - Structural Unit TEST REPORT WATER ABSORPTION (2H) THERMAL INSULTATION

Report No:	100505414	Request No:	EMTX-2019-107024		
Project No:	PS17-1213	Report Date:	21/11/2019		
Project Name:	TESTING SERVICE FOR HUNTSMAN A	DVANCED MATERIALS UAE FZE			
Consultant:	NA				
Contractor:	HUNTSMAN(UAE) FZE				
Location:	Huntsman (UAE) FZE	Huntsman (UAE) FZE			
Source:	NOT GIVEN	NOT GIVEN			
Sample Description:	SPRAY APPLIED RIGID CELLULAR POL	YURETHANE INSUL.			
Sampling Date/Time:	30/10/2019 09:00 AM	Lot Number:	Nil		
Receiving Date/Time:	05/11/2019 08:00 AM	Lot Size:	Nil NA		
Sample Size:	5 pieces	Sender No:	Nil		
Material/Mix type:	Laying Date/Production Date 01/10/2019				
Nominal Size / Working Block Size L * T * H (mm) : 1000X380X50					

TEST RESULTS

PARAMETERS			RESULTS	
SAMPLE TYPE			HUNTSMAN SP40	
SUPPORT / FACING			NIL	
NOM. THICKNESS (mm) :			50	
NOM. DENSITY (kg/m3) :			40	
NOM. THICKNESS (mm)			50	
SPECIMEN NOM. DENSITY (kg/m3)			40	
TEMPERATURE, RH & DURATION AT WHICH SPECIMEN CONDITIONED		23	+/-2deg C, 50+/-5% RH, 48h	
DURATION OF TEST (H)			2	
SPECIMEN	1	2	3	
WATER ABSORPTION BY WEIGHT (%)	2.14	2.62	2.26	
WATER ABSORPTION BY VOLUME (%)	0.10	0.11	0.10	
AVERAGE WATER ABSORPTION BY VOL. (%)			0.10	
				1

Sampled By:	Ahmed Wanas(Sales Manager)	Tested By:	NASARDAR
Samples Brought By:	Ahmed Wanas(Sales Manager)	Testing Date:	06/11/2019 12:56 PM
Sampling Method:	NOT GIVEN	Sampling Report No:	
Test Method:	ASTM C209-20 15	Test Method Variation:	NIL
Remarks:	THIS REPORT REPRESENTS THE SUBMITTED SAMPLES ONLY.		







Dubai Central Laboratory Construction Materials Laboratory Section - Structural Unit TEST REPORT WATER ABSORPTION (2H) THERMAL INSULTATION

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Construction Materials Laboratory Section - Structural Unit TEST REPORT

WATER VAPOR TRANSMISSION OF INSULATION MATERIALS

Report No:	100514082	Request No:	EMTX-2019-107086		
Project No:	PS17-1213	Report Date:	11/12/2019		
Project Name:	TESTING SERVICE FOR HUNTSMAN A	OVANCED MATERIALS UAE FZE			
Consultant:	NA				
Contractor:	HUNTSMAN(UAE) FZE				
Location:	Huntsman (UAE) FZE	Huntsman (UAE) FZE			
Source:	NOT GIVEN	NOT GIVEN			
Sample Description:	SPRAY APPLIED RIGID CELLULAR POL	YURETHANE INSUL.			
Sampling Date/Time:	30/10/2019 09:00 AM	Lot Number:	Nil		
Receiving Date/Time:	05/11/2019 09:04 AM	Lot Size:	Nil NA		
Sample Size:	5 NA	Sender No:	Nil		
Material/Mix type:	Nil	Laying Date/Production Date	01/10/2019		
Nominal Size / Working Block Size L * T * H (mm) : 1000X380X50					

TEST RESULTS

PARAMETERS			RESULTS	
SAMPLE TYPE			HUNTSMAN SP40	
SUPPORT / FACING			NIL	
NOM. THICKNESS (mm) :			50	
NOM. DENSITY (kg/cubic m) :			40	
SPECIMEN NOM. THICKNESS (mm)			50	
TEST METHOD USED			DESICCANT METHOD	
TEST ROOM TEMP. & RH			23+/-1Degree, 50+/-2% RH	
COMPOSITION OF SEALANT USED			PURIFIED PARAFFIN WAX	
TEST ASSEMBLY PREPARED ON			25-NOV-2019 00:00:00	
TEST DURATION (h)			240	
SPECIMEN NO.	1	2	3	
SPECIMEN MEASURED THICKNESS (mm)	50.1	50.4	50.8	
SPECIMEN MEASURED DENSITY (kg/cubic m)	51.3	52.7	53.3	
WATER VAPOR TRANSMISSION (g/h m2) - *METRIC UNIT	0.208	0.222	0.222	
PERMEANCE (g/Pa. s. m2) - *METRIC UNIT	4.11E-08	4.40E-08	4.40E-08	
WATER VAPOR TRANSMISSION (grains/h. ft2) - *INCH-POUND UNIT	0.298	0.319	0.319	
PERMEANCE (perms) - *INCH-POUND UNIT	0.719	0.769	0.769	
AVG. WATER VAPOR TRANSMISSION (grains/h. ft2) - *INCH-POUND UNIT			0.31	
AVG. PERMEANCE (perms) - *INCH- POUND UNIT			0.75	







Dubai Central Laboratory Construction Materials Laboratory Section - Structural Unit TEST REPORT WATER VAPOR TRANSMISSION OF INSULATION MATERIALS

Report No:	100514082	Request No: EMTX-2019-107086	
Sampled By:	Ahmed Wanas	Tested By:	NIMIAH
Samples Brought By:	Ahmed Wanas	Testing Date:	06/11/2019 12:56 PM
Sampling Method:	NOT GIVEN	Sampling Report No:	
Test Method:	ASTM E96/96M -2016	Test Method Variation:	NIL
Remarks:	THIS REPORT REPRESENTS THE SUBMITTED SAMPLES ONLY.		

To verify this document please go to http://login.dm.gov.ae/wps/portal/documentverification and Enter Document ID: EMTX-2019-107086 and Verification Code: 572-589 or scan the QR code below.



This Report is computer approved and authorized by Structural Unit It does not require any signature



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TECHNICAL DATA SHEET

HP - SP-3040

General Properties and Applications	HP – SP-3040 is a polyol formulation used to produce spray foam insulation in multi layers for roofing, wall and basements with a density of 40-45 kg/m ³ . It contains all the raw material and auxiliaries necessary for the production of rigid polyurethane foam including the blowing agent. The system is CFC free and contains HCFC 141B as blowing agent that is in compliant with the environment regulations at present. HP - SP- 3040 along with PM 200 can be used on roofs made of metal, concrete, wood etc.			
Sampling	Moisture access should be prevented; formulation should be agitated before sampling.			
Specification Property	Value	Unit of measurement		
Hydroxyl number (theoretical) Water content Viscosity @ 25 °C	300 ± 20 1.00 ± 0.1 200 ± 50	mg KOH/g % by wt. cps		
Specific Gravity @ 23 ºC	approx. 1,13	-		
Packaging	200I steel drums - IBC, tank truck and tank containers of			
Storage	Shelf life from the time of production: 6 months if stored in sealed moisture tight containers. Recommended storage temperature: 25°C			
Labeling and REACH applications	This product data sheet is only valid in conjunction with the lates edition of the corresponding Safety Data Sheet. Any updating of safety-relevant information in accordance with statutory requirements will only be reflected in the Safety Data Sheet, copies of which will be revised and distributed. Information relating to the current classification and labeling, applications and processing methods and further data relevant to safety can be found in the currently valid Safety Data Sheet.			
Directions for Processing	HP –SP-3040 system is designed for processing on high and low pressure machines that are able to work at mixing ratios of 1:1 by volume, the machine parameters have to be selected in such way to ensure proper mixing.			
	Environmental Consideration Applicators must recognize and prior to application to ensure hig maximize yield. Ambient air and moisture and wind velocity are a quality. Extreme ambient air and influence the chemical reaction affecting the yield, adhesion and	and Substrate Temperatures: anticipate climatic conditions phest quality foam and to substrate temperatures, all critical determinants of foam d substrate temperature will of the two components, directly the resultant physical properties		



Harwal Polyurethane Systems

HP – SP-3040

of the foam insulation. To obtain optimum results, system should be spray-applied to substrates when ambient air and surface temperatures are between 10°C and 50°C°. All substrates to be sprayed must be free of dirt, soil, grease, oil and moisture prior to the application of HP Spray. Moisture in any form: excessive humidity (>85%R.H.) rain, fog, or ice will react chemically will adversely affect system performance and corresponding physical properties. Application should not take place when the ambient temperature is within 3°C of the dew point. Wind velocities in excess of 20 km per hour may result in excessive loss of exotherm and interfere with the mixing efficiency of the spray gun affecting foam surface texture, cure, physical properties and will cause overspray. Precautions must be taken to prevent damage to adjacent areas from fugitive overspray. Applicators should ensure the safety of the jobsite and construction personnel by posting appropriate signs warning that all "hot work" such as welding, soldering, and cutting with torches should take place no less than 35 feet from any exposed foam. If "hot work" must be performed all spray polyurethane foam should be covered with an appropriate fire or welder's blanket, and a fire watch should be provided.

Processing Equipment:

2:1 transfer pumps are recommended for material transfer from container to the proportioner. The plural component proportioner must be capable of supplying each component within ± 2% of the desired 1:1 mixing ratio by volume. Hose heaters should be set to deliver 50°C to 55°C materials to the spray gun. These settings will ensure thorough mixing in the spray gun mix Chamber in typical applications. Optimum hose pressure and temperature will vary with equipment type and condition, ambient and substrate conditions, and the specific application. Some equipment may require you to heat drums to achieve optimum material temperature. It is the responsibility of the applicator to properly interpret equipment technical literature, particularly information that relates acceptable combinations of gun chamber size, proportioner output, and material pressures. The relationship between proper chamber size and the capacity of the proportioner 's pre - heater is critical. Contact your machine supplier representative for specific recommendations, pricing, and availability of spray and auxiliary equipment.

Per Pass Application:

Applicators should limit HP Spray thickness to 2,5 cm per pass for optimal processing and physical properties.



HP – SP-3040

Handling and Safety:

Respiratory protection is MANDATORY! Contact HP Systems for a copy of the Model Respiratory Protection Program developed by API or visit their website at www.polyurethane.org. Avoid contact with skin, eyes, and clothing. Open containers carefully, allowing any pressure to be relieved slowly and safely. Wear chemical safety goggles and rubber gloves when handling or working with these materials. In case of eye contact, immediately flush with large amounts of water for at least fifteen minutes, consult a physician immediately. In case of skin contact, wash area with soap and water. Wash clothes before reuse.

Guide formulation	parts by weight
HP – SP-3040	100
Wannate PM 200	100

Foaming data by the hand mixing method with 3000 rpm at raw material temperature of 23°C

Cream time	4 ± 1	Seconds
Gel time	12 ± 2	Seconds
Free Rise Density	30 ± 1	kg/m₃
Applied Density	40 - 45	kg/m₃

Typical properties to be achieved under recommended application parameters:

Density approx. 40-45 kg/m³ Compressive strength > 100 kPa Fire rating (DIN4102-1) B3 Water absorption < 1 % Initial thermal conductivity (ASTM C518) 0.0218 W/Km Working Temperature Range -40 to 100°C Close Cell Content 98% +/-2

These values are given only as a guide and must be verified in each individual case on finished

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Contact : Selvam Karuppasamy Technical Manager





Construction Materials Laboratory Section - Structural Unit TEST REPORT APPARENT DENSITY

Report No:	100365299	Request No:	EMTX-2019-009133				
Project No:	PS-1601	Report Date:	04/03/2019				
Project Name:	TESTING SERVICE FOR TECH. SUPP	LY & SERVICES CO.					
Consultant:	NA						
Contractor:	TECHNICAL SUPPLIES AND SERVICE	TECHNICAL SUPPLIES AND SERVICES CO LLC					
Location:	TSSC DIP	TSSC DIP					
Source:	TECHNICAL SUPPLIES & SERVICE CO. LTDDIP						
Sample Description:	SPRAY APPLIED RIGID CELLULAR POLYURETHANE INSUL.						
Sampling Date/Time:	25/01/2019 10:00 AM	Lot Number:	NA				
Receiving Date/Time:	11/02/2019 11:45 AM	Lot Size:	NA NA				
Sample Size:	10 pieces	Sender No:	LB-1				
Material/Mix type:	NA Laying Date/Production Date: 25/01/2019						
Nominal Size / Working Block Size L * T * H (mm) : 1000*500*50							

TEST RESULTS

PARAMETERS		RESULTS				
SAMPLE TYPE		HPS-SPRAY POLYURETHANE FOAM INSULATION				
SUPPORT / FACING				NIL		
NOM. THICKNESS (mm) :				50		
NOM. DENSITY (kg/m3) :				40		
SPECIFICATION LIMIT (kg/n	n3)			NG		
SPECIMEN NOM. LENGTH	(mm)			1000		
SPECIMEN NOM. WIDTH (m	חm)			500		
SPECIMEN NOM. THICKNE	SS (mm)	50				
PRE-COND. TEMP, RH & DU	JRATION			23 deg C, 50% RH & 48	Hr.	
TEST TEMPERATURE & RH	1			23 deg C, 50% RH		
SPECIMEN NO		1	2	3	4	5
APPARENT DENSITY (kg/Cu	ubic m)	49.5 45.5		47.0	45.0	48.5
AVG. APPARENT DENSITY m)	(kg/Cubic	Dic 47.1				
Sampled By:	love Bains			Tested By:	NIMIA	4

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Samples Brought By:	Love Bains	Testing Date:	13/02/2019 09:37 AM	
Sampling Method:	NOT GIVEN	Sampling Report No:		
Test Method:	BS EN 1602: 2013	Test Method Variation:	NIL	
Remarks:	THIS REPORT REPRESENTS THE SUBMITTED SAMPLES ONLY.			

This Report is computer approved and authorized by Structural Unit It does not require any signature



P.O. BOX: 67 DUBAI, TEL : 00971-4-3369900, FAX : 00971-4-3366399 E-mail: labs@dm.gov.ae Website: http://www.dm.gov.ae





Dubai Central Laboratory Construction Materials Laboratory Section - Structural Unit TEST REPORT APPARENT DENSITY

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Construction Materials Laboratory Section - Structural Unit TEST REPORT COMPRESSIVE STRENGTH/COMPRESSIVE STRESS AT 10% DEFORMATION

Report No:	100365302	Request No:	EMTX-2019-009133				
Project No:	PS-1601	Report Date:	04/03/2019				
Project Name:	TESTING SERVICE FOR TECH. SUPPLY	& SERVICES CO.					
Consultant:	NA						
Contractor:	TECHNICAL SUPPLIES AND SERVICES	TECHNICAL SUPPLIES AND SERVICES CO LLC					
Location:	TSSC DIP						
Source:	TECHNICAL SUPPLIES & SERVICE CO. LTDDIP						
Sample Description:	SPRAY APPLIED RIGID CELLULAR POLYURETHANE INSUL.						
Sampling Date/Time:	25/01/2019 10:00 AM	Lot Number:	NA				
Receiving Date/Time:	11/02/2019 11:45 AM	Lot Size:	NA NA				
Sample Size:	10 pieces	Sender No:	LB-1				
Material/Mix type:	NA	Laying Date/Production Date:	25/01/2019				
Nominal Size / Working Block Size L * T * H (mm) : 1000*500*50							

TEST RESULTS

PARAMETERS		RESULTS					
SAMPLE TYPE		HPS-SPRAY POLYURETHANE FOAM INSULATION					
SUPPORT / FACING		NIL					
NOM. THICKNESS (mm) :				50			
NOM. DENSITY (kg/m3) :				40			
SPECIFICATION LIMIT				NG			
SPECIMEN NOM. LENGTH	(mm)			150			
SPECIMEN NOM. WIDTH (m	ım)			150			
PRE-COND. TEMP, RH & DI	JRATION		:	23+/-2deg C, 50+/-5%	RH		
TEST CONDITION			:	23+/-2deg C, 50+/-5%	RH		
SPECIMEN NO.		1	2	3		4	5
MEASURED DENSITY (kg/C	ubic m)	46.8	46.8	46.0	4	7.9	47.8
INITIAL CROSS SECTIONAI (mm2)	AREA	22275.50	22500.00	22350.00	228	00.75	22952.00
SPECIFIED DEFORMATION	SPECIFIED DEFORMATION (%)		10	10		10	10
COMPRESSIVE STRESS @ SPECIFIED RELATIVE DEFORMATION (kPa)		277.3 282.9		300.1	29	98.0	277.2
AVERAGE COMPRESSIVE @ SPECIFIED RELATIVE DEFORMATION (KPa)	STRESS			287.1			
Sampled By:	love Bains	love Bains				NIMIAH	
Samples Brought By:	Love Bains			Testing Date:		13/02/201	9 09:37 AM
Sampling Method:	NOT GIVEN			Sampling Repor	t No:		
Test Method:	BS EN 826	BS EN 826 : 1996			riation:	NIL	
Remarks:	THIS REPORT REPRESENTS THE SUBMITTED SAMPLES ONLY.						







Dubai Central Laboratory Construction Materials Laboratory Section - Structural Unit TEST REPORT COMPRESSIVE STRENGTH/COMPRESSIVE STRESS AT 10% DEFORMATION

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Doc. Ref: F-EM-0100 Issue Date: 03/10/2016 Rev.No : 1 Page : 2 of 2

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Construction Materials Laboratory Section - Structural Unit TEST REPORT THERMAL TRANSMISSION PROPERTIES BY HEAT FLOW METER (THERMAL COND)

Report No:	100365301	Request No:	EMTX-2019-009133			
Project No:	PS-1601	Report Date:	04/03/2019			
Project Name:	TESTING SERVICE FOR TECH. SUPPLY	& SERVICES CO.	·			
Consultant:	NA					
Contractor:	TECHNICAL SUPPLIES AND SERVICES	TECHNICAL SUPPLIES AND SERVICES CO LLC				
Location:	TSSC DIP					
Source:	TECHNICAL SUPPLIES & SERVICE CO. LTDDIP					
Sample Description:	SPRAY APPLIED RIGID CELLULAR POL	SPRAY APPLIED RIGID CELLULAR POLYURETHANE INSUL.				
Sampling Date/Time:	25/01/2019 10:00 AM	Lot Number:	NA			
Receiving Date/Time:	11/02/2019 11:45 AM	Lot Size:	NA NA			
Sample Size:	10 pieces	Sender No:	LB-1			
Material/Mix type:	NA	Laying Date/Production Date:	25/01/2019			
Nominal Size / Working Block Size L * T * H (mm) : 1000*500*50						

TEST RESULTS

PARAMETERS	RESULTS
SAMPLE TYPE	HPS-SPRAY POLYURETHANE FOAM INSULATION
SUPPORT / FACING	NIL
NOM. THICKNESS (mm) :	50
NOM. DENSITY (kg/m3) :	40
SPECIFICATION LIMIT	NG
TEST METHOD VARIATION	NIL
TYPE OF MATERIAL USED FOR CALIBRATION	STANDARD REFERANCE MATERIAL 1450C687
R VALUE @ 35deg C [(M2 K) / W]	0.7169
DATE OF CERTIFICATION	10-DEC-2010 00:00:00
SOURCE OF CERTIFICATION	National Institute of Standards & Technology [NIST] - U.S.A.
EXPIRY & CERTIFICATION TEST NUMBER	Refer NIST special publication 260-130
NOMINAL THICKNESS OF SPECIMEN (mm)	50.0
TEMPERATURE, RH & TIME AT WHICH SPECIMEN CONDITIONED	35 deg C, 60%RH & 48Hr.
DATE OF CALIBRATION	18-FEB-2019 00:00:00
MEAN TEMP.(SET) deg C	35
TEMPERATURE DIFFERENCE (deltaT) deg C	20
NO. OF HEAT FLUX TRANSDUCER USED	2
TEST ARRANGEMENT	HORIZONTAL
METERING (TEST) AREA	100mm X 100mm
Uncertainty of measurement	REFER REMARKS
TEST NO / SPECIMEN NO.	1/2







Construction Materials Laboratory Section - Structural Unit TEST REPORT THERMAL TRANSMISSION PROPERTIES BY HEAT FLOW METER (THERMAL COND)

Report No: 100	365301	Request No:	EMTX-2019-009133
PARAMETERS		RESULTS	
MEASURED THICKNESS (L) (mm)		50.75	
MEASURED DENSITY (kg/m3)		43.91	
MEAN TEMPERATURE ACHIEVED (deg C)		35.25	
HEAT FLUX (E) W/m2.K.		1395	
THERMAL CONDUCTIVITY, W/(m F	()	0.0236	
THERMAL CONDUCTIVITY, Btu-in /h.square ft.degF		0.1636	
THERMAL RESISTANCE, (Square I / W	n K)	2.1504	
THERMAL RESISTANCE, ft square Btu	1	12.2127	
AVERAGE TEMPERATURE GRADIENT (K/m)		401	
WEIGHT DIFFERENCE (%)		-0.0150	
TEST DURATION (h:mm:ss)		02:44:39	

Sampled By:	love Bains	Tested By:	NIMIAH
Samples Brought By:	Love Bains	Testing Date:	13/02/2019 09:37 AM
Sampling Method:	NOT GIVEN	Sampling Report No:	
Test Method:	ASTM C518 -17	Test Method Variation:	NIL
Remarks:	THIS REPORT REPRESENTS THE SUBMITTED SAMPLES ONLY., Uncertainty of measurement for thermal conductivit		

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Construction Materials Laboratory Section - Structural Unit TEST REPORT WATER ABSORPTION (2H) THERMAL INSULTATION

Report No:	100365300	Request No:	EMTX-2019-009133	
Project No:	PS-1601	Report Date:	04/03/2019	
Project Name:	TESTING SERVICE FOR TECH. SUPPLY	A SERVICES CO.		
Consultant:	NA			
Contractor:	TECHNICAL SUPPLIES AND SERVICES	TECHNICAL SUPPLIES AND SERVICES CO LLC		
Location:	TSSC DIP			
Source:	TECHNICAL SUPPLIES & SERVICE CO. LTDDIP			
Sample Description:	SPRAY APPLIED RIGID CELLULAR POLYURETHANE INSUL.			
Sampling Date/Time:	25/01/2019 10:00 AM	Lot Number:	NA	
Receiving Date/Time:	11/02/2019 11:45 AM	Lot Size:	NA NA	
Sample Size:	10 pieces	Sender No:	LB-1	
Material/Mix type:	NA Laying Date/Production Date: 25/01/2019			
Nominal Size / Working Block Size L * T * H (mm) : 1000*500*50				

TEST RESULTS

PARAMETERS		RESULTS			
SAMPLE TYPE			HPS-SPRAY	POLYURETHANE FOAM INSU	JLATION
SUPPORT / FACING				NIL	
NOM. THICKNESS (mm) :		50			
NOM. DENSITY (kg/m3) :				40	
NOM. THICKNESS (mm)				50	
SPECIMEN NOM. DENSITY	′ (kg/m3)			40	
TEMPERATURE, RH & DUF WHICH SPECIMEN CONDI	RATION AT TIONED		2	3+/-2deg C, 50+/-5% RH, 24h	
DURATION OF TEST (H)				2	
SPECIMEN		1	2	3	
WATER ABSORPTION BY (%)	WEIGHT	2.41	2.14	1.68	
WATER ABSORPTION BY (%)	/OLUME	0.11	0.09	0.07	
AVERAGE WATER ABSOR VOL. (%)	PTION BY			0.09	
Sampled By:	love Bains	love Bains		Tested By:	NIMIAH
Samples Brought By:	Love Bain	Love Bains		Testing Date:	13/02/2019 09:37 AM
Sampling Method:	NOT GIVE	NOT GIVEN		Sampling Report No:	
Test Method:	ASTM C20	ASTM C209-20 15		Test Method Variation:	NIL
Remarks:	THIS REPORT REPRESENTS THE SUBMITTED SAMPLES ONLY.				







Dubai Central Laboratory Construction Materials Laboratory Section - Structural Unit TEST REPORT WATER ABSORPTION (2H) THERMAL INSULTATION

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Construction Materials Laboratory Section - Structural Unit TEST REPORT WATER VAPOR TRANSMISSION OF INSULATION MATERIALS

Report No:	100370578	Request No:	EMTX-2019-009133	
Project No:	PS-1601	Report Date:	13/03/2019	
Project Name:	TESTING SERVICE FOR TECH. SUPPLY	A SERVICES CO.		
Consultant:	NA			
Contractor:	TECHNICAL SUPPLIES AND SERVICES	TECHNICAL SUPPLIES AND SERVICES CO LLC		
Location:	TSSC DIP			
Source:	TECHNICAL SUPPLIES & SERVICE CO. LTDDIP			
Sample Description:	SPRAY APPLIED RIGID CELLULAR POLYURETHANE INSUL.			
Sampling Date/Time:	25/01/2019 10:00 AM	Lot Number:	NA	
Receiving Date/Time:	11/02/2019 11:45 AM	Lot Size:	NA NA	
Sample Size:	10 pieces	Sender No:	LB-1	
Material/Mix type:	NA Laying Date/Production Date: 25/01/2019			
Nominal Size / Working Block Size L * T * H (mm) : 1000*500*50				

TEST RESULTS

PARAMETERS			RESULTS	
SAMPLE TYPE	HPS-SPRAY POLYURETHANE FOAM INSULATION			
SUPPORT / FACING	NIL			
NOM. THICKNESS (mm) :			50	
NOM. DENSITY (kg/cubic m) :			40	
SPECIMEN NOM. THICKNESS (mm)			50	
TEST METHOD USED			DESICCANT METHOD	
TEST ROOM TEMP. & RH			23+/-1Degree, 50+/-2% RH	
COMPOSITION OF SEALANT USED		F	PURIFIED PARAFFIN WAX	
TEST ASSEMBLY PREPARED ON			21-FEB-2019 00:00:00	
TEST DURATION (h)			264	
SPECIMEN NO.	1	2	3	
SPECIMEN MEASURED THICKNESS (mm)	52.5	53.0	52.1	
SPECIMEN MEASURED DENSITY (kg/cubic m)	43.9	47.1	48.1	
WATER VAPOR TRANSMISSION (g/h m2) - *METRIC UNIT	0.323	0.359	0.348	
PERMEANCE (g/Pa. s. m2) - *METRIC UNIT	6.40E-08	7.11E-08	6.89E-08	
WATER VAPOR TRANSMISSION (grains/h. ft2) - *INCH-POUND UNIT	0.463	0.515	0.500	
PERMEANCE (perms) - *INCH-POUND UNIT	1.118	1.243	1.205	
AVG. WATER VAPOR TRANSMISSION (grains/h. ft2) - *INCH- POUND UNIT			0.49	
AVG. PERMEANCE (perms) - *INCH- POUND UNIT			1.19	







Dubai Central Laboratory Construction Materials Laboratory Section - Structural Unit TEST REPORT WATER VAPOR TRANSMISSION OF INSULATION MATERIALS

Report No:	100370578	Request No:	EMTX-2019-009133
Sampled By:	love Bains	Tested By:	NIMIAH
Samples Brought By:	Love Bains	Testing Date:	13/02/2019 09:37 AM
Sampling Method:	NOT GIVEN	Sampling Report No:	
Test Method:	ASTM E96/96M -2016	Test Method Variation:	NIL
Remarks:	THIS REPORT REPRESENTS THE SUBMITTED SAMPLES ONLY.		

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ECOTEX

constructionproducts

RUBBERISED BITUMEN EMULSION

ECOTEX is a cold applied bitumen emulsion modified with rubber latex for damp proofing and Waterproofing applications. ECOTEX is a dark brown liquid, which dries to a black, tough and flexible coating.ECOTEX provides a seamless barrier to ingress of water and protection against chlorides and sulphates present in the soil.

Uses

- Waterproofing/damp proofing concrete and brick foundations, basements, retaining walls, bridge abutments, and other surfaces likely to have dampness
- Vapour barrier for interior /exterior walls.
- Damp proof membrane in sandwich panel construction.
- Façade damp proofing

Features

- Creep resistant to high temperatures upto 100 °C
- Non-flammable
- Easy to apply.
- Highly flexible to withstand movements
- Resistant to subsoil corrosive salts
- Adheres well to a wide range of substrates.
- Economical.
- Environment friendly
- Low VOC

Typical Product Characteristics

Appearance: Brown Liquid dries to black protective coating.

Sp. gr. : 1.00-1.04 pH : 8 - 10 Total Solids: 35% ± 2%

Standards

BS 8102 – Protection of Buildings against ground water.

Surface Preparation

Surface should be sound, clean and free of dust, oil or grease and curing compound. Loosely adhering particles such as rust scale, mortar particles etc. should be removed with wire brush or other suitable means.

Application

ECOTEX can be applied by brush, squeegee or spray. Hot, dry or highly porous surfaces should be dampened with clean water prior to application of ECOTEX. Generally two coats are recommended. Apply second coat when the first coat is completely dry. Second coat should be applied at right angles to the first one. When screed or render is to be applied onto the coating the final coat should be sprinkled with sharp clean sand and allowed to dry. Brush off excessive sand before application of screed/renders.



Established in 1976 . Web: www.falconchemicals.com, Email: inquiry@falconchemicals.com An ISO 9001 & ISO14001 Certified Company

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FALCON CHEMICALS L

ECOTEX

RUBBERISED BITUMEN EMULSION

Coverage

2 to 3 m²/litre/coat on fairly smooth and dense concrete surface. Highly porous and rough surface will affect the coverage.

Packing

200 litre drum & 18Ltr Pail.

Storage/Shelf life

Keep away from direct sunlight and store under normal warehouse conditions. Shelf life of the product is 12 months from the date of manufacturing provided it is stored in unopened factory packed drums.

Cleaning

Tools may be cleaned with water as long as the product is wet. Once dry, by mechanical means only.

Technical Services

Technical assistance and information is available by calling **Falcon Chemicals** (L.L.C.) on specific application.

Health and Safety

Use normal safety precautions. Wear rubber hand gloves, safety shoes and safety goggles while using and handling the product. Avoid contact with skin and eyes. In case of accidental contact with eyes, wash with plenty of water and seek medical treatment immediately.

General Note

Use this leaflet as a guide for the use of the product concerned. The information given is in accordance with latest technical developments. However, we cannot accept liability/responsibility for any work carried out with our materials, as we have no control over the method of application used or the condition of site involved.

Issue Date: February 2015

This technical specification supersedes all previous data sheets.





CRESCOAT BRE 4010

Rubberized bitumen emulsion

Description

CRESCOAT BRE 4010 is a ready to use cold applied bitumen emulsion modified with rubber latex, to provide a tough durable and elastic coating. The cured film is weatherproof and resistant to aggressive ground salts.

Uses

- Tanking, waterproofing concrete, brick foundation, retaining wall, bridge abutments, basements, columns, wet areas etc.
- Damp proof membrane in sandwich construction, vapor seal.
- Adhesion for bonding wooden flooring, insulation board, expanded polystyrene PVC and cork tiles, etc.
- Curing membrane cum protective coating for sub structure.

Advantages

- Single component, non flammable and easy to apply tough impermeable film with good resistance to rupture during back filling.
- Resist attack from chloride and sulphate ions, excellent resistance to extreme of temperature, avoiding risk of flow or embrittlement.
- Sufficient elasticity to accommodate small movements and hairline cracks.
- Suitable for application into damp surfaces.

Properties

Color	: brown liquid black
Flash point	: non flammable
Solid content	: 40 % (±2)
Rubber Content	: 10%
Latex content in dry	film: 10 % min by pass
Specific gravity	: 1.0 (±2)
Drying time	: 2 -3 hours at 30°C

Over coa ng me: 4 hours minimum these limits will be extended under low temperature or high humidity

Service temperature: 5°C-85°C

Adhesion to concrete: Excellent

How to use

Surfaces should be sound. Clean and free from contaminants loosely adhering particles such as cement, laitance, rust scales etc. should be removed by suitable means.

Applications

It can be applied by brush, squeegee or spray. When spraying it is advisable to dilute the product with 10% clean water. Hot dry or very porous substrates should be dampened with clean water prior to application of CRESCOAT BRE. A priming coat with it and cool clean water in equal proportions is also recommended for hot, dry & porous concreted substrates. When two or more coats are required, it is important that the preceding coat is fully dry before the successive coat is applied. Coat should be brushed at right angle to each other. When screed or render is applied on to the coating, the final coat should be blind deal with clean sharp sand and allowed to dry. Brush off excessive sand prior to applying the screed or render.

Cleaning

Clean tools immediately after use in a strong soap solution. Keep brushes soaking in this solution between applications Hardened it needs physical scraping followed with treatment in white sprit.

COVERAGE

Damp Proof Membrane/Vapor barrier: Apply two coats at 3-4 m²/ltr./coat.

Waterproof membrane: Apply two coats at 1.5 -2 m²/ltr./coat.

Curing Membrane: Apply one coat at 3-4 m²/ltr./coat.



P.O. Box 78774, Sajaa Industrial Area, Sharjah, United Arab Emirates.

Tel.: +971 6 5360 116 | Fax: +971 6 5360 117 | Email: info@al-marjan.ae | Web: www.al-marjan.ae


CRESCOAT BRE 4010

Shelf Life

Store under shade at temp. below 30 °C. Shelf life is 12 months in sealed original containers under recommended storage conditions.

Packing

200 Liter Barrel and 20 liter Pail

Storage

The drums & pails must be stored in a covered area, away from direct sunlight and protected from extreme temperature. Failure to comply with the instruction may result in premature deterioration of the product.

Health & Safety

It is non hazardous and non flammable emulsion. Harmful it taken internally avoids contact with skin and eyes. In case of accidental contact with eyes, wash with copious amount of water and seek medical attention weal gloves and goggles.

Information

Al Marjan Al Ahmar Bldg chemical Ind LLC products are guaranteed against defective materials and are sold subject to standard terms and condition of sale, copies of which are available on request which are reasonable care it's taken compiling this technical data sheet, all recommendations regarding the use of product are made without guarantee since the conditions are use the beyond the company' direct control. It is the customer responsibility to satisfy them that each product is fit for the purpose for which they indent to use it.

Refer to material safety data sheet and further information with us.







Geotextile Product Description Sheet



SNW.14

Needle punched and Thermally bonded Nonwoven 100 % polypropylene geotextile Technical data sheet according to internal specifications of Bonar Natpet

	SEPARATION	FILTRATION	REINFORCEMEN	TT PROTECTION		DRAINAGE		
		-	test method	Value	Unit	tolerance		
Mechani	ical properties			Valuo	Unit	toloranoo		
Grab Str	renath - MD			500	N	- 15%		
Grab Str	rength - CD			500	N	- 15%		
Grab ala	ngation MD		ASTM D 4632	70	0/	25%		
Grab elo	ingation - IND			70	70	- 25 %		
Grab elo	ngation - CD			75	%	- 25%		
Trapezoi	idal Tear strength	-MD	ASTM D 4533	265	N	- 15%		
Trapezoi	idal Tear strength	-CD	A01W D 4000	265	N	- 15%		
Index Pu	Incture strength		ASTM D 4833	270	N	- 15%		
CBR Pur	ncture Resistance		ASTM D 6241	1.4	KN	- 15%		
UV Resis	stance		ASTM D 4355	70/500	%/hrs	- 15%		
Hydrauli	ic properties							
Permeab	pility*(Flow rate*)		ASTM D 4491	130	l/m².s	± 30%		
Apparen	t Opening Size*/ U	s Seive Size	ASTM D 4751	0.18/80	mm	± 30%		
Physical	l properties			-				
Thicknes	ss(2 kN/m2)(*)		ASTM D 5199	1.2	mm	± 20%		
Weight (*)		ASTM D 5261	120	g/m²	± 10 %		
* At the t	time of manufactur	ing. Handling, storage	e, and shipping may chan	ge these properties.				
Packagii	ng							
Roll Dim	ensions (W)		mtr	3.0/6.0	Width (mtr)	or		
Roll Dim	ensions (L)			100	Length	Other dimensions		
Square r	ntr Per Roll		Square mtr	300 / 600	Square mtr	as per Client demand		
Estimate	ed Roll Weight		kg	36/72	kg			
Durabilit	ty		predicted to be durable for a minimum of 25 years in natural soil with 4 < pH < 9 and soil temperatures < 25° C					
	ROADS	RAILWAYS	FOUNDATC RETAINING V	N & DRAINAG	E SYSTEMS	EROSION CONTROL SYSTEMS		
R	ESERVOIRS & DAMS	CANALS	TUNNELS & U GROUND STRU	IDER - STURES SOLID WASTE		LIQUIDWASTE		

1 This geotextile is intended for use in both functions & applications highlighted with a bold border.

2 It is the responsibility of all users to satisfy themselves that the above data is current.

3 BONARNATPET reserves the right to alter product specifications without prior notice.

4 Although not guaranteed, these results do to the best of our knowledge offer a true and accurate record of the product's performance.

5 BONARNATPET cannot accept responsibility for the performance of these products as the conditions of use are beyond our control.

6 Geotextile has to be covered within 2 weeks after installation

This information is provided for reference purposes only and is not intended as a warranty, BONARNATPET assumes no liability in connection with the use of this information.

BONARNATPET CO., PO BOX 32202, YANBU 41912, KINGDOM OF SAUDI ARABIA - 🖀 +966 (14 324 6241) - 🖹 +966 (14 32 46289)

WWW.BONARNATPET.COM





STEICO bitumen

Material

- Wood fibre insulating board produced in accordance to EN 13986 and EN 622-4 with ongoing quality supervision
- I00% of the wood comes from sustainable cultivated forests and is certified independently according to the guidelines of the FSC
- Bitumen content from 5% up to 35% (European market leader in softboard production)
- Produced and supervised according to current European standards
- Complies with ASTM D 1751 for the requirements of compression, extrusion and recovery
- Recovery after 50% compression up to 80%
- Standard sizes and customized panels and strips
- Easy processing guaranteed with common tools
- Production certified according to ISO 9001:2000
- Made in Poland

STEICO bitumen

Characteristic values

Produced and supervised according to EN 13986	
Porous wood fibre insulating board according to EN 622-4	
Board designation	EN 622-4 SB.H - EI
Fire class according to EN 13501-1	E
Thickness [mm]	10/12/15/19/25
Bitumen content [%]	5/10/15/20
Nominal value of thermal conductivity \D [W/(m*K)] DIN EN 13986, Tab. 11	0,05
density [kg/m ³]	230
Water vapour resistance factor μ	5
Specific heat capacity c []/(kg#K)]	2100
Sound absorption coefficient	(according to EN 13986, tab. 10)
Frequency range from 250Hz to 500Hz	0,10
Frequency range from 1000Hz to 2000Hz	0,30
Applied materials	wood fibre bitumen aluminum sulphate paraffin waterproofing agents
Surface	unsanded

STEICO bitumen

Application



- · Multi-purpose bituminized softboard made of natural wood fibre for concrete constructions
- For expansion joint fillers according to our characteristic values
- · For wet screed and dry screed application
- · For weight distributing layer in combination with a leveling compound



STEICO bitumen

Specific Advantage

- Compression strength
- Excellent insulating qualities
- Water vapour open
- Available in different bitumen contents
- Cut to size dimensions possible
- All requested thicknesses possible
- Materials thicknesses form 10 to 25mm consists of a single homogeneous board

STEICO bitumen

Processing & Cutting

- You can easily format and cut out STEICO standard with an electric compass saw especially implements with a wave shape saw blade.
- Recommendation: Bosch, type T313 AW / kwb, type T313 AW
- Cuts with long lengths and widths can easily be done with an electric portable powered circular sawing machine
- Depending on the thicknesses of the boards, we recommend the use of a stable knife and guide bar. You are going to achieve rough edges.
- To extract the dust emerging from the cutting process, the usual vacuum cleaners can be used.

STEICO bitumen

Storage & Transport

- Lying, level and dry
- Protect edges from damage
- Remove plastic foil packing only when pallet stands on solid, dry and even ground
- Carry single boards vertically
- One way pallets

STEICO bitumen

Packing Data

Thickness [mm]	Size [mm]	Weight[kg/m ²]	Pieces / pallet	Surface / pallet[m ²]	Weight / pallet [kg]
10	2200 x 1220	2,3	110	295,2	approx. 710
12	2200 x 1220	2,8	93	249,6	approx. 720
15	2200 x 1220	3,4	75	201,3	approx. 720
19	2200 x 1220	4,4	59	158,4	approx. 740
25	2200 x 1220	5.75	46	123.5	approx. 710
Supplied By		PROPERTY OF A	-	The second s	



MAP DE









DATE: 12-Apr-14

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CONCRETE MIX DESIGN FOR C25/10~25 N/mm² (OPC+FIBER) SCREED

CONTRACTOR	: M/s Compact Insulation Works
LOCATION	: ABU DHABI

SPECIFICATION	UNIT	QUANTITY	TYPE OF MATERIAL	SOURCE
CEMENT	kg/m ³	350	OPC	EMIRATES CEMENT/FOURVALENT
GGBS	kg/m ³	0		CONTRACTOR CONTRACTOR OF A CONTRACTOR
MICRO SILICA	kg/m ³	0		
WATERPROOFING	kg/m ³	0		
20mm AGGREGATE	kg/m3	0	CRUSHED LIMESTONE	RAK
10mm AGGREGATE	kg/m ³	950	CRUSHED LIMESTONE	RAK
5mm AGGREGATE	kg/m ³	600	CRUSHED LIMESTONE	PAK
DUNE SAND	kg/m³	350	NATURAL	AL AIN
FREE WATER	ltr/m ²	170		01-012
ABSORBED WATER	ltr/m ³	14		
TOTAL WATER	ltr/m ³	184		
PLASTICIZER	ltr/m ³	2.0 - 5.5	RHEOBUILD-600UN	BASE
SUPER PLASTICIZER	ltr/m ³	2.0 - 5.5	RHEOBULL D-857	BASE
ADDITIONAL ADDITIVE	ltr/m ³	0.90	POL VPROPVI ENE FIREP	KENAL/FOURVALENT
FREE W/C RATIO		0.49	TOLITIKOT TELAL TIDEK	RENALEQUIVALENT
SLUMP	mm	125 = 1/3 of spi	cified slump +10mm	
TEMPERATURE (Max.)	°C	32	Tomm	
MIN BREAK	DOWN	Concession of the local division of the loca		
TOTAL AGGREGATE	ke/M ^p	1900		
TOTAL COARSE AGGREGATE	kg/M ^p	950	1	
TOTAL FINE AGGREGATE	kg/M ²	950		
COARSE AGGREGATE	%	50,00		
FINE AGGREGATE	9%	50.00		
20mm AGGREGATE	%	0.00		
10mm AGGREGATE	9%	50.00		
5mm AGGREGATE	96	31.58		
DUNE SAND	96	18.42		
VOLUME	LITER	1000		
TOTAL WET DENSITY	kg/M ^p	2441		

Prepared & Verified by: Laboratory Supervisor

Reviewed & Approved by: Technical Manager

All sampling and testing of concrete is carried out in accordance with B.S./BSEN /ASTM.

Slump Tolerance as per BS5328 Part 4 (1/3 of specified slump +10mm).

The dosage of admixtures will vary as per working conditions but within manufacturer's recommendations.

Mix design details given are subject to variation as material properties varies.

Free water cement ratio does not include water in admixtures.

Any alteration made to the concrete by unauthorized personnel will render our guarantee null and void.

.Curing guidelines must be followed given in : "GUIDELINES TO THE CONSTRUCTION OF REINFORCE CONCRETE IN ARABIAN PENENSULA"

to protect concrete from cracking due to high ambient temperature & high rate of evaporation in UAE.





AGGREGATE COMBINED GRADING FOR C25/10 ~ 25 N/mm2 (OPC+FIBER) SCREED CONTRACTOR M/s Compact Insulation Works LOCATION ABU DHABI

	All in Aggregates								Fine	Aggree	gates		Aggre	pates (Details
	BS: 882: 1992 / Table 5 all in Aggregates.							BS : 882 : 1992 / Table 4 Limits of Fine				Fine	All in aggregates & fine		& fine
Sieve	20 mm	10 mm	5mm	DS	Combined	85 : 883	: 1992/	5mm	DS	comonie					
mm	0	50	32	18	Grading. (All)	Table 5 L	imits ail in 88-	63.9	36.1	Grading	Table 4 Li	mits of Fine	Size	Ali agg. %	Source
37.5mm	0	50	32	18	100	100	100			1.630.001.1			20 mm	0	RAK
20mm	0	50	32	18	100	95	100						10 mm	50	RAK
14mm	0	50	32	18	100								5 mm	32	RAK
10mm	0	46	32	18	97	-		63.9	36.1	100.0	100	100	D. SAND	18	AI AIN
5mm	0	3	31	18	52	35	55	61.4	36.1	97.4	89	100	TOTAL	100.0	106 29111
2.36mm	0	0	16	18	34			33.9	38.1	70.0	80	100	TOTAL	109.9	
1.18mm	0	0	4	18	23			17.3	36.1	53.3	30	100		-	
0.600mm	0	0	1	18	19	10	35	8.9	36.1	45.0	15	100		-	
0.300mm	0	0	0	18	18			3.8	35.7	39.6	5	78		-	
0.150mm	0	0	0	9	9	0	10	1.9	17.3	19.2	0	20			
0.075mm	0.00	0	0	0	0	0	3				-	2.4		-	

Limits as per BS : 882 : 1992 / Table 5 all in Aggregates.





XTRAMIX CONCRETE SOLUTIONS L.L.C

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A MEMBER OF ALIABER GROUP OF COMPANIES



Xtramix Concrete Solutions L.L.C شركة إكسترا مكس للحلول الخرسانية ذ.م.م

INSUN ATION

CONCRETE MIX DESIGN

CHARACTERSTIC CUBE COMPRESSIVE STRENGTH REQD @ 28 DAYS N/mm⁴ : C25/10 OPC+FIBER



BONDAID-P

PVA BONDING AGENT

BONDAID-P is a high viscosity polyvinyl acetate emulsion based bonding agent. It possesses excellent adhesion properties and cement stability which makes it an ideal admixture to plaster renders, and other cementitious systems. It also functions well as a sealer and primer for better adhesion of renders and plasters. BONDAID-P as an admixture in plaster and cement rendering eliminates the need for mechanical hacking operations on RCC structures.

USES

- As adhesion promoter in bonding new to old concrete.
- Enhances the strength of screed and toppings.
- Admixture to the cement slurry used for rush coat prior to plastering on concrete.
- Bonding gypsum and cement plasters.

APPLICATION INSTRUCTIONS

Bonding Cement and Gypsum plasters

Clean surface thoroughly ensuring there is no loose surface dust. Apply BONDAID-P diluted 1: 3 with water by means of brush or roller. Plaster can then be applied normally. The BONDAID-P coat can be wet or dry when the plaster is applied. If background is too porous apply two coats of BONDAID-P before plastering.

 Adhesion Promoter for Cement Renders, Screeds etc.

Ensure the surface is clean, free from loose dust, oil, grease and other contaminants. Prepare a slurry using 1:3 (cement: sand) one part BONDAID-P mixed with one part of water. The slurry should be applied to the surface to form a stipple coat. Allow the stipple coat to cure for 24 to 48 hours and apply the cement rendering.

• As Adhesion promoter in bonding new to old concrete

Ensure the surface is clean, free from loose dust, oil, grease and other contaminants. BONDAID-P can be applied directly on the old concrete at the rate of $3-4 \text{ m}^2$ / Kg. depending on the porosity of the surface. Patching up can be done with the new concrete either immediately or even after BONDAID-P layer is dry.

• As admixture in rush coat

BONDAID-P can be mixed with the slurry to be used for rush coat. Prepare slurry coat with one part cement, three part sand and add a gauging water solution made up of 1 Part BONDAID-P + 3 part water to the above mix, which may then be applied with the help of a small spray/Tyrolean machine. The quantity of gauging solution should be adjusted as per site requirement.

Concrete Repair

Prepare a cement and sand mix (1: 2) and add **BONDAID-P** to the mix diluted with water in ratio of 1:2. The proportion of **BONDAID-P** may vary according to the thickness of mortar application.

Surface Sealer

For highly porous and/or dusting concrete surface apply two coats of BONDAID-P. The first coat should be diluted at the rate of one part BONDAID-P and four parts of water and the second and final coat should be diluted at the rate of one part of BONDAID-P and three parts of water.

Note: In areas of permanent dampness, use Falcon's BONDAID-S, SBR LATEX



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An ISO 9001 & ISO14001 Certified Company

BONDAID-P

PVA BONDING AGENT

TYPICAL PRODUCT CHARACTERISTICS

Appearance: White viscous
LiquidViscosity at 30 0 C :
(Brookfield viscometerModel RVT spindle # 4/20): 5000 - 7000 cps
pH: 8.0 - 9.0VOC: < 10g /kg</td>

COVERAGE (AS PRIMER / SEALER)

Without dilution: $6 - 10 \text{ m}^2/\text{kg}$ With 1: 1 dilution: $15 - 25 \text{ m}^2/\text{kg}$ With 1: 3 dilutions: $25 - 50 \text{ m}^2/\text{kg}$

Coverage (as admixture / bonding agent) BONDAID-P is added in the ratio of 10-15 kg per 50 kg of cement bag

STORAGE/SHELF LIFE

Keep away from direct sun light and store under normal warehouse conditions. The shelf life of the product is 12 months from the date of manufacturing provided it is stored in unopened factory packed drums.

CLEANING

Tools may be cleaned with water as long as the product is wet. Once dry, by mechanical means only.

PACKING

200 kg drum & 20 kg jerry can.

HEALTH AND SAFETY

Use normal safety precautions. Wear rubber hand gloves, safety shoes and safety goggles while using and handling the product. Avoid contact with skin and eyes. In case of accidental contact with eyes, wash with plenty of water and seek medical treatment immediately.

DISCLAIMER

Use this leaflet as a guide for the use of the product concerned. The information given is in accordance with latest technical developments. However, we cannot accept liability/responsibility for any work carried out with our materials, as we have no control over the method of application used or the condition of site involved.

ISSUE DATE: DECEMBER 2011

This technical specification supercedes all previous data sheets.



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An ISO 9001 & ISO14001 Certified Company



TRITOSIL H10 PU Polyurethane sealant

Tritosil Polyurethane is a one component, gun-grade, Non-sag, moisture-cure polyurethane sealant designed to skin and cure rapidly. This high performance product is designed with outstanding UV resistance and long term durability.

USES

Tritosil Polyurethane sealant is designed to seal construction joints.

Waterproof rivet seams and roof rails

Perimeter joints around windows and doors

Sealing corner moldings, fabricated roof-lap seams, bumper assemblies and body-to-cab joints

In motor homes

Sealing door hinges, skylights and portholes

Air conditioning equipment, flashing and gutters

FEATURES

Paintable Single component Movement accommodation factor ± 30% excellent adhesion Highly resistant to sea water, diluted acids and alkalis.

APPLICATION INSTRUCTIONS

ADVANTAGES

Accommodates 30% joint movement Permanently flexible, excellent weather ability Easy to gun – Easy to tool Cures to a tough, durable, elastic consistency with excellent cut and tear resistance Paintable – non-sticky after cure

Tritosil H10 PU meets or exceeds the requirements of the following specifications: ASTM C 920 Type S, Grade NS, Class 25.

Note: Information on this datasheet is subject to change without notice and should not be used for writing specification. For additional information on specific applications, please contact Triton Middle East, LLC.

Manufactured By:





UAE Tel.+971 4 4357340 Fax.+971 4 4357342 Office 805, Aspect Tower D Executive Towers, Business Bay E-mail:info@triton.me www.triton.me

TECHNICAL DATA	TEST METHOD	TYPICAL VALUE
Skin Over Time		>50 mins.
Tack Free Time	ASTM C-679-87	3 hours.
Shrinkage,%		<5
VOC, (g/L)	USEPA – 24	<45
Flow (sag or slump)	ASTM C-639-01	Non Sag
Hardness : Shore A	ASTM D-2240-97	30±3
Movement Capability, %	ASTM C-719	±30
Peel Strength (N), concrete	ASTM C-794-93	>30
Tensile Strength (N/mm2)	ASTM D-412-98a	1.3
Elongation at break	ASTM D-412-98a	>300%
Effects of Accelerated Aging	ASTM C-793	No deterioration
@ 300 hrs. UV exposure		
Application Temperature (°C)		+5 to +40

PACKAGING

600ml sausage, 20 sausages per carton

COLORS

White, Off-white, Grey, and Black. For other colour please contact local Triton representative

EXPANSION JOINT DESIGN

Tritosil H10 PU may be used in any joint designed in accordance with accepted architectural/engineering practices. Joint width should be at least 4 times anticipated movement, and not less than (5mm).

While applied on an expansion joint the depth (D) of the sealant should be equal to the width (W) of the joints that are less than 10mm wide. For wider joints, width to depth ratio should be 2:1.

The maximum width of the joint on which Tritosil H10 PU can be applied is 25mm.

Meter per 600 ml

JOINT BACKING

Closed cell polyethylene backer rod is recommended as joint backing to control sealant depth and to ensure intimate contact of sealant with joint walls when tooling. Where depth of joint is insufficient for the use of backer rod, an adhesive backed polyethylene tape (bond breaker tape) should be used to prevent three-sided adhesion. All backing should be dry at time of sealant application

YIELD

The following formula is an approximate guideline to calculate foreseen yield for a standard 600ml sausage of Tritosil PU.

 $L = 600 / (W \times D)$

Where: L = Length of sealant in metres obtained per cartridge.

 $\mathsf{D} = \mathsf{Depth}$ of the joint in mm

W = Width of the joint in mm

Joint Depth(mm)	Joint Width(mm)				
6	6	10	12	15	20	25
6	16.6					
8		7.5	6.2	5		
10		6	5	4	3	
2					2.5	1.9
15						1.6
				ende	اكت لاعسال ال	23C



APPLICATION DETAILS

SUBSTRATE PREPARATION

Surfaces must be sound, clean, and dry. All release agents, dust, loose mortar, laitance, paints, or other loose particles must be removed. This can be accomplished with a thorough wire brushing, sanding, or solvent washing, depending on the contamination. Triton recommends that surface temperatures be below 40°C at the time the sealant is applied.

PRIMING

Tritosil H10 PU typically adheres to common construction substrates without primers; however, due to the variability of substrate finishes available, where deemed necessary, use Tritosil Prime P A mockup or field adhesion test can be performed on the actual materials being used on the job to verify the need for a primer.

APPLICATION

Tritosil H10 PU is easy to apply with conventional caulking equipment. Ensure that the backer rod is friction fitted properly. Mask the sides of the joint with tape prior to filling for a cleaner finish. Fill the joint completely with a proper width-to-depth ratio and tool to ensure intimate contact of sealant with joint walls. Dry tooling is always preferred, although xylene can be used in limited amounts to slick the spatula if needed following the initial dry tooling.

CLEAN UP

Excess sealant and smears adjacent to the joint interface can be carefully removed with xylene or mineral spirits before the sealant cures. Any utensils used for tooling can also be cleaned with xylene or mineral spirits.

LIMITATIONS

• Do not apply over damp or contaminated surfaces.

• Do not use Tritosil H10 PU as a structural (load transferring) sealant

STORAGE AND SHELF LIFE

Tritosil H10 PU has a shelf life of 6 months when stored in tightly closed original casks, in a dry place at a temperature between $+5^{\circ}$ C and $+25^{\circ}$ C

Manufactured By:





CURING TIME

Tritosil H10 PU generally cures at a rate of 2mm per day at 25°C and 50% relative humidity. Tritosil H10 PU will skin in 45-55 minutes and be tack-free in 3 hours. Lower temperatures and humidity will extend curing time.

FOR OPTIMUM PERFORMANCE

• In cool or cold weather, store container at room temperature for at least 24 hours before using.

• Tritosil H10 PU can adhere to other residual sealants in restoration applications. For best results always clean the joint as advised in the Surface Preparation section of this data guide. A product field adhesion test for Tritosil PU within the specific application is always recommended to confirm adhesion and suitability of the application.

• When using Tritosil H10 PU in a traffic-bearing horizontal joint, use a firmer joint backing, such as neoprene rod or polyethylene foam block, and recess the surface of sealant (3mm - 6mm).

• Pursuant to accepted industry standards and practices, using rigid paints and/or coatings over flexible sealants can result in a loss of adhesion of the applied paint and/or coating, due to the potential movement of the sealant however, should painting and/or coating be desired it is required that the applicator of the paint and/or coating conduct on-site testing to determine compatibility and adhesion.

• Proper application is the responsibility of the user. Field visits by Triton personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

HEALTH AND SAFETY

Use only with adequate ventilation. Prevent contact with skin, eyes and clothing. Wash thoroughly after handling. Avoid breathing vapors. DO NOT take internally. Use impervious gloves, eye protection and if the TLV is exceeded or used in a poorly ventilated area. Always utilize the accompanying MSDS for information on Personal Protective Equipment (PPE) and health Hazards.

> UAE Tel.+971 4 4357340 Fax.+971 4 4357342 Office 805, Aspect Tower D Executive Towers, Business Bay E-mail:info@triton.me www.triton.me





Dubai Central Laboratory

Construction Materials Laboratory Section - Chemical Analysis Unit TEST REPORT VOC CONT.OF ADHESIVES/SEALANTS/VARIOUS MATERIALS

Report No:	100116235	Request No:	EMTX-2017-061568				
Project No:	CF-368	Report Date:	01/10/2017				
Project Name:	TRITON MIDDLE EAST						
Consultant:	NA						
Contractor:	TRITON MIDDLE EAST LLC	TRITON MIDDLE EAST LLC					
Location:	PRODUCTION LINE						
Source:	TRITON MIDDLE EAST LLC - UMM AL QUWAIN						
Sample Description:	SEALANT						
Sampling Date/Time:	28/08/2017 10:00 AM	Lot Number:	9362				
Receiving Date/Time:	20/09/2017 08:00 AM	Lot Size:	NG NA				
Sample Size:	2 litre	Sender No:	STME-006				
Material/Mix type:		Laying Date/Production Date	: 20/07/2017				
Nominal Size / Working Block Size L * T * H (mm) : 1 LITRE							

TEST RESULTS

PARAMETERS		RESULTS				
VOC Content in g/L		6				
Sampled By:	DR.SANK	AR/MR.TORENO	Tested By:	NKPULIYAN		
Samples Brought By:	TRITON S	TAFF	Testing Date:	26/09/2017 09:58 AM		
Sampling Method: DCL-IC-9)	Sampling Report No:			
Test Method: DMS-0033:2016		3:2016	Test Method Variation:	NIL		
Remarks:	PRODUC	T NAME: TRITOSIL H10 PU				

To verify this document please go to http://login.dm.gov.ae/wps/portal/documentverification and Enter Document ID: EMTX-2017-061568 and Verification Code: 157-039 or scan the QR code below.





This Report is computer approved and authorized by Chemical Analysis Unit It does not require any signature

Rev.No :1 Page :1 of 1

BONDAID-S

SBR LATEX

BONDAID-S is a bonding agent based on synthetic latex and other chemical additives. BONDAID-S is an admixture used in mortars and concrete to achieve high strength, chemical resistance and improve adhesion and waterproofing properties. It may be safely used under humid conditions or in areas subject to continuous and/or alternative wetting and drying.

USES

BONDAID-S is used in preparation of:

- Abrasion resistant, dustproof and mild chemical resistant screeds and floor toppings.
- Water and weatherproof rendering.
- Waterproof mortar for basements; lift shafts, cooling towers, swimming pools and other water retaining structures.
- Repair of spoiled concrete and precast slabs.

FEATURES

- Increases compressive, flexural and tensile strength of mortar and screeds.
- Reduces shrinkage in cementitious systems.
- Adheres well to concrete, wood, expanded and extruded polystyrene and other common building materials.
- Resistant to mild chemicals and mineral oils.
- Highly resistant to water penetration.

TYPICAL PRODUCT CHARACTERISTICS

The following results are based on a mix prepared with 50 kg cement, 150 kg sharp graded sand and 10 litre of BONDAID-S.

Compressive strength : 36 N/mm² @ 28 days Tensile strength : 5.5 N/mm² @ 28 days Flexural strength @ 28 days Appearance pH Specific gravity VOC $: 12 \text{ N/mm}^2$

constructionproducts

: Milky white liquid : 7.0-8.0 : 1.02 +/- 0.01 : < 10 g / Lit

APPLICATION SURFACE PREPARATION

Surfaces to which BONDAID-S mixes are to be applied should be clean, sound and free of deleterious substances. Remove all laitance, oil, grease, mould oil or curing compound from concrete surfaces using wire brush, brush hammer etc. Ensure that reinforcing steel is clean and free from grease or oil, remove scale and rust. When repairing spalled or damaged concrete, ensure that the concrete has been cut back to thoroughly sound material.

MIXING

Should preferably be carried out in an efficient concrete mixer; where available a pan type mixer is recommended. Hand batching is only recommended when the total weight of the mix is less than 25 kg. Charge the mixer with the required quantity of sand and cement and premix for 1 minute. Pour in the desired quantity of BONDAID-S and mix for 2 minutes, to avoid excessive air entertainment. Finally, without delay, add the water slowly until the required consistency is achieved. Owing to the strong plasticizing properties of BONDAID-S rapid thinning can occur. Avoid adding excessive water.

GUIDE TO APPLICATION:

Rendering to Vertical Surfaces: Bonding Slurry: Prepare bonding slurry of 5 parts cement to 1 part BONDAID-S, Water may be added to achieve a lump-free creamy consistency. Using a stiff brush, work the bonding slurry well into the damp surface ensuring that no pinholes are visible. Do not

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BONDAID-S

SBR LATEX

apply bonding slurry at a thickness in excess of 2 mm. If a second coat is necessary, it must be applied after the first coat is "touch dry". The second coat must be applied at right angles to the first to ensure complete coverage (10 litre of BONDAID-S with 50 kg. of Portland Cement will give a creamy slurry which will cover $20 - 30m^2$ of substrate dependent on surface texture and thickness applied). Apply the bonding slurry to the prepared surface and then render immediately with BONDAID-S modified mortar. It is preferable to apply BONDAID-S modified mortars in coats to a maximum thickness of 6mm per coat as greater thicknesses can lead to slumping. However, several coats can be applied in fairly rapid succession usually within 15 to 30 minutes. Thicker layers can be applied providing suitable formwork is used.

• Admixture in Rush Coat: BONDAID-S may be added in the rush coat for plaster over concrete. Minimum 10 litre of BONDAID-S should be used with 50 kg. of cement to prepare slurry for rush coat.

Screeds and Toppings, Applied to Horizontal Surfaces:

Screeds, patches etc., based on BONDAID-S modified cements can be laid to any thickness from 60 mm down to 6 mm minimum. After mixing the BONDAID-S, modified mix should be placed over the still wet bonding slurry, well-compacted and struck off to level. It may then be trowelled to the required finish using a wooden float or steel trowel.

NOTE: Whenever screeds are being laid over existing concrete surfaces it is important that expansion joints in the sub-floor are carried through the BONDAID-S modified mix. This can be done by fitting a temporary timber batten wrapped in polythene.

STORAGE/SHELF LIFE

Keep away from direct sunlight and store under normal warehouse conditions. The shelf life of the product is 12 months from the date of manufacturing provided it is stored in unopened factory packed drums.

PACKING

200 Litre drum and 20 lt. J/can

HEALTH & SAFETY

Avoid contact with skin and eyes. In case of accidental contact with eyes, wash with plenty of water and seek medical treatment.

TECHNICAL SERVICES

Technical assistance and information is available by calling Falcon Chemicals (L.L.C.) on specific application.

DISCLAIMER

Use this leaflet as a guide for the use of the product concerned. The information given is in accordance with latest technical developments. However, we cannot accept liability/responsibility for any work carried out with our materials, as we have no control over the method of application used or the condition of site involved.

ISSUE DATE: DECEMBER 2011

This technical specification supercedes all previous data sheets.



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CRESBOND SBR



SBR based bonding agent and admixture

Description

CRESBOND SBR is a Styrene Butadiene Rubber copolymer based product which is used in mortar and concrete as an admixture and bonding agent to increase its water resistance and durability.

Uses

It can be used as

- Bonding: For bonding of new to old concrete, tile bending and fixing of slip bricks
- Waterproofing internally: Basements, swimming pools, potable water tanks, sludge tanks & ducts, tunnels and underpasses
- Waterproofing externally: Structures above ground
- Waterproofing suspended floors: Patios, walkways, balconies, wet areas, plant rooms.
- Waterproof bonding: Brick slips, copings, pre-cast treads and risers.
- Waterproof/Protective slurries: Potable water tanks, sewerage and mild chemical holding tanks, porous concrete, block work and long term protection of reinforcements or friable concrete soffits.
- Repair of concrete
- Admixture: As an admixture for cementitious systems. Improves the durability, waterproofing and abrasion resistance properties of mortars.

Characteristics

- Enhances the flexural and tensile strength of the mortar and render
- Provides good resistance to water and moisture vapour transmission
- Improves the chemical and abrasion resistant properties of the mortar
- Can be applied in thin screed without cracking
- Reduces the water/cement ratio
- Easy to use
- Compatible with all types of cements
- Reduces shrinkage
- Excellent adhesion to most building materials
- Good resistance two salt permeation
- Prolonged corrosion protection
- Similar thermal expansion and modulus properties like concrete
- Can be used in potable water applications

Method of Application

Apply the bonding slurry to the prepared surface and then render immediately with **CRESBOND SBR** modified mortar. Apply in coats to a maximum thickness of 5mm per coat. Several coats can be applied at intervals of 20-30 minutes. Thicker coating can be applied when suitable form work is used. Finish the surface using wooden float or steel trowel.











CRESBOND SBR



Technical Data and Properties

PROPERTY	VALUE		
Color & Aspect	White milky liquid		
рН	8.5 to 10		
Density	1.0 ± 0.05 g/cc		
Solid Content	40 ± 3 %		
SBR Modified Mix [W/C: 0.45 and 350 kg cement]			
Compressive Strength	>40 N/mm ²		
Flexural strength	>12 N/mm ²		
Tensile strength	>6 N/mm ²		
Shear Bond Strength	>5 N/mm ²		
Application temperature	5 to 45 ° C		
Service temperature	-5 to 45 ° C		

All values given are subject to 5 to 10% tolerance

Product Management

Surface Preparation

Surface to which CRESBOND SBR mixes are to be applied shall be clean, sound and free of all loose particles. Remove all laitance, oil & grease, mould oil, curing compound from surface. Ensure that the exposed reinforcing steel is clean and free from scale and rust. When repairing damaged concrete, ensure that the concrete has been cut back to thoroughly sound material.

Bonding Slurry

Saturate absorbent surfaces with water completely till it reaches a saturate dry condition. However, ensure that the surface is free of standing water. Prepare a bonding slurry by mixing 2 parts O.P. Cement to 1 part of CRESBOND SBR (by volume). Using a stiff brush, work the bonding slurry well into the damp surface, ensuring that no pinholes are visible. Do not apply bonding slurry at a thickness in excess of 2 mm. If a second coat is necessary, it must be applied at right angles to the first to ensure complete coverage. (Approximately 25 L of CRESBOND SBR mixed with 50 kg of O.P Cement will give a creamy slurry which will cover 15-40m² depending on the surface texture and thickness applied).

SBR Modified Mixes

Sand: Sand should be washed and well graded.

Cement: CRESBOND SBR is compatible with all types of OPC, SRC and high alumina cements. Water: The strong plasticizing action of **CRESBOND SBR** greatly reduces the water cement ratio for any given workability.



CRESBOND SBR



CRESBOND SBR: Minimum dosage 10 L per 50 kg cement is recommended to be used. For more demanding situations 15 L per 50 kg of cement is recommended. Mixing should be carried out in an efficient concrete mixer – where available a pan type mixer is recommended. Pour the required quantity of sand and cement and premix for approximately one minute. Pour the required quantity of **CRESBOND SBR** and mix for two minutes. Add the water slowly until the required consistency is achieved. Avoid adding excessive water which will result in segregation and bleeding.

Screeds and Toppings

Screeds based on **CRESBOND SBR** modified mix should be placed over the wet bonding slurry, wellcompacted and struck off to level. It may be trowelled to the required finish using a steel trowel.

Curing

As soon as the CRESBOND SBR modified mortar and screed achieves its final set, adequate curing shall be carried out. Water sprinkling, ponding or the use of a non-degradable type of curing compound may be used.

Dosage

For normal use with cement sand screed, the standard dosage of 10 L of **CRESBOND SBR** per 50 kg of Portland cement is recommended.

Packing and storage

Store in a cool, dry place and keep away from all sources of heat and sunlight. In tropical climates, store in air-conditioned rooms.

Shelf life is up to 12 months in un-opened conditions and if stored as per recommendations. Excessive exposure to sunlight, humidity and UV rays will result in the deterioration of the quality of the product and reduce its shelf life.

It is packed in 5 L, 20 L pails & 200 L drum.

Health and Safety

As with all construction chemical products caution should always be exercised. Protective clothing such as goggles should be worn. Treat any splashes to the skins or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.

Information

Al Marjan Al Ahmar Bldg chemical Ind. LLC products are guaranteed against defective materials and are sold subject to standard terms and condition of sale, copies of which are available on request which are reasonable care it's taken compiling this technical data sheet, all recommendations regarding the use of product are made without guarantee since the conditions are use the beyond the company' direct control. It is the customer responsibility to satisfy them that each product is fit for the purpose for which they indent to use it.

Refer to material safety data sheet and further information with us.



LAVASHIELD GP ACRYLIC WATER PROOF COATING

constructionproducts

FORMERLY KNOWN AS ECOSHIED GP

LAVASHIELD-GP is a high build acrylic Polymer based elastomeric coating. The drv film of LAVASHIELD- GP possesses superior physical properties. The dry membrane is water tight, seamless, durable, tough and highly flexible, with long term weather resistant, particularly suitable for waterproofing of roofs, wet areas such as kitchens, bathroom, etc. LAVASHIELD GP utilizes the latest in acrylic Polymerization technology to perform UV 'breathable' vapour barrier resistant and membrane with excellent durability in harsh/hot climatic Middle East conditions. LAVASHIELD-GP coating is safe for pedestrian traffic and available in white and grey colour.

USES

LAVASHIELD-GP is used as a liquid waterproof membrane. The product is especially developed for giving an elastomeric, monolithic seal, covering uniformly uneven profiles and protection of the substrate. LAVASHIELD-GP provides protection against weathering, ageing and ultra violet radiation.

FEATURES

- Single component ready to use.
- Available in different colours on request.
- Formulated to withstand harsh Middle East climate.
- Protect and waterproof various substrates.
- Permanently flexible and UV resistant
- Non flammable and non hazardous
- Withstand temperature from -5 ^{0}C to 100 ^{0}C

TYPICAL PRODUCT CHARACTERISTICS

Appearance	: Thixotropic coating.
Specific gravity	$: 1.30 \pm 0.05$
pН	: 8 to 10
Elongation at break	: 150% (Approx.)
Drying time (Dependi	ng
upon site conditions)	: 2 - 6 hours approx.
	per coat
Full curing (two coats): 48 hours approx.

SURFACE PREPARATION

All surfaces must be clean, dry, and free from Oil, grease, curing compound and any loose materials. The substrate should be firm, in case of gaps and cracks, fill with suitable sealant and ensure surface is even. If the substrate is porous, it is recommended to prime the substrate diluted in the ratio of one Part of LAVASHIELD-GP and three parts of WATER. Mix to a homogeneous liquid and apply by brush/roller.

APPLICATION

Before use, stir well. Apply the material on the surface using brush/roller or squege. A second coat is applied at right angle after the first coat is dry. It is recommended to apply two coats of **LAVASHIELD-GP** to get a dry film thickness of 2 mm (approx.). Embed glass fiber mesh around pipes and over cracks.

CURING

It requires 24 hours to dry in between coats. Low temperature and high humidity will slow down the curing process. In case of expected rains, do not apply LAVASHIELD-GP

COVERAGE

Approximately : $1-2 \text{ kg/ m}^2/\text{ coat}$ (depending on the substrate condition)



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FALCON CHEMICALS L.L.C.

LAVASHIELD GP ACRYLIC WATER PROOF COATING

constructionproducts

FORMERLY KNOWN AS ECOSHIED GP

LIMITATION

- LAVASHIELD-GP is suitable for light foot traffic, however in case of areas subject to heavy traffic, it should have some protection.
- Do not use **LAVASHIELD-GP** in areas that will be constantly underwater.

PACKING & COLOUR

20 Kg pail. Off white and grey

STORAGE/SHELF LIFE

Store the pail of LAVASHIELD-GP in cool and dry place away from direct sunlight and heat. Container must be tightly closed, to prevent formation of the skin on the surface of the material. The shelf life of the product is six months from the date of manufacturing provided it is stored in unopened factory packed drums.

HEALTH AND SAFETY

Use normal safety precaution. Ensure the area is well ventilated, wear protective gear, such as rubber hand gloves, safety goggles etc. while using or handling the material. Avoid contact with skin or eyes. In case of accidental contact with eye, wash with plenty of water and seek medical advice.

GENERAL NOTES.

Use this leaflet an s a guide for the use of the product concerned. The information given is in accordance with latest technical developments. However, we cannot accept responsibility for any work carried out with our materials, as we have no control over the method of application used or the condition of site involved.



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> PREVIOUS JOBS & APPROVALS





COMPACT INSULATION WORKS L.L.C P.O BOX: 8401, ABU DHABI TEL: 02 6589702, FAX 02 6589703

LIST OF PROJECTS

S. No	Contractor	Location of the Project	Consultant	Client	Area		
1	Mezin Gen Contracting	Abu Dhabi Future School Program Phase - 6, MBZ	Al Suweidi Engineering Consultants	MUSANADA	13,000.00		
2	Alba Tec Construction & Development LLC	Abu Dhabi University Zone 1 & Zone 2	Dar Al Handasah & Arkonsult Engineering	Abu Dhabi University	5 <i>,</i> 500.00		
3	Airolink Internation Construction L.L.C	Ryan Int'l School, Plot No: C-52, Sec- SE45, Masdar City, Abu Dhabi	Pioneer Engineering Consultancy L.L.C	Ryan International School	4,471.00		
4	Al Shamandy Construction L.L.C	Private School, P15 MSH13, Shakhbout City	Next Engineering Consltancy	Scholars American International School	5,664.48		
5	Al Etlala Gen. Contracting	Al Manara Private School, Plot P1- SH-27, Al Shamkha	Fine Arts Consultanting Engineer	Al Manara Privae School	5,800.00		
6	Al Etlala Gen. Contracting	Al Manara Privat School, Plot No: P22, ME-09, M.B.Z City	Fine Arts Consultanting Engineer	Al Manara Privae School	4,600.00		
7	Smart Diamond Building Contracting L.L.C	The British Int'l Pvt. School, G+2 School Building Extention, Plot No: 17,M.B.Z City East	Al Nadha Engineering Consultant	H.H Sheikh Said Bin Saif Bin Mohamed Al Nahyan	1,057.56		
8	Gemini Building Cont. L.L.C	Higher College of Technology, Plot No: P-1, Al Najah Street	Momen Architects & Consulting Engineers	Higher College of Technology	459.32		
9	Smart Diamond Building Contracting L.L.C	The British Int'l Pvt. School, School Building G+2 Floors, Plot No: 17,M.B.Z City East	Al Nadha Engineering Consultant	H.H Sheikh Said Bin Saif Bin Mohamed Al Nahyan	618.96		

School Projects

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10	Al Etiala Con Contracting	Al Manara Privat School, Plot NO:			
10	Ai Etiala Gell. Contracting	P1-SH27, Al Shamkha	Fine Arts Consulting Engineer	Al Manara Privae School	5,800.00
11	Al Ethala Cap Contracting	Al Manara Privat School, Plot No:	Fine Arts Consultanting		
11	The Education Contracting	P22, ME-09, M.B.Z City	Engineer	Al Manara Privae School	4,605.00
		Partial demolish & rebuilding of			
12	Al Nahda National school	schoool,plot no:p51,sec:			
		E22,Abudhabi	Radat Engineering Consultants	Al Nahda National School	2,234.00
12	Al Nahada National School	Partial demolish & rebuilding of			
15	Al Nanada National School	schoool,plot no:p51,sec:	Radat Engineering Consultants	Al Nahda National School	1,128.00

	Mosque Projects					
S. No	Contractor	Location of the Project	Consultant	Client	Area	
14	Tornado Gen. Cont. & Maint.	Sheikh Hazza Bin Sultan Al Nahyan Mosque, Plot No-1, Al Mua'Taradh, Al Ain	Al Ain Consulting Engineers	General Authority for Islamic Affairs & Endowments	3,665.58	
15	Tornado Gen. Cont. & Maint.	Zaid Bin Al Haritha Mosque, Al Ain	Al Ain Consulting Engineers	Crown Prince Court	850.00	
16	Raslan Gen. Cont. L.L.C	The Family Park Mosque, Plot No: P1, Sec: W7-02, Abu Dhabi	Al Ain Consulting Engineers	M/s Crown Prince Court	2,347.96	
17	Raslan Gen. Cont. L.L.C	Masjid Othman Bin Affan, Plot No: P3, Sec: E38, Abu Dhabi	Al Ain Consulting Engineers	M/s Crown Prince Court	1,726.26	
18	National Transport & Contracting Co	Mosque, Plot No: P104, Madina Zayed West 13, Western Region	Safeer Engineering Consultants	Government of Abu Dhabi at the Expence of the General Authority for Islamic Affairs	1,133.40	
19	Al Mahala Gen. Cont. Co.	Masjid Khalisao, Plot No: 57-01-003- 014, Sweihan, Al Ain	Al Ain Consulting Engineers	General Authority for Islamic Affairs & Endowments	855.47	
20	Al Mahala Gen. Cont. Co.	Masjid Khalisao, Plot No: 06-03- 097A, Thawayyah, Al Ain	Al Ain Consulting Engineers	General Authority for Islamic Affairs & Endowments	287.77	
21	Al Jamellia Gen. Cont. Est.	G+1 Mosque, Plot No: 02-15-011-009, Al Nifa, Al Hili, Al Ain	Concer Consulting Engineering	Mr. Abdullah Hassan Al Dhahir	988.69	
22	Future Builders Engineering Gen. Cont. Est.	Ibn Rajab Al-Hanbali mosque, AL MAWAJE, Al Ain	Al Ain Consulting Engineers	General Authority for Islamic Affairs & Endowments	964.92	

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23	Jedan Gen. Contracting L.L.C	Malek Ibn Anas Mosque, Al Makam, Al Ain	Al Ain Consulting Engineers	General Authority for Islamic Affairs & Endowments	295.29
24	Mattar Gen. Cont. Est.	Mosque, Plot No: P403, Al Bahya, Abu Dhabi	Poineer Engineering Consultancy L.L.C	General Authority for Islamic Affairs & Endowments	654.52
25	Al Barq Consturction L.L.C	Mosque+Ablution Area+Imam & MozenAccomodation	Excel Engineering Consultants	General Authority for Islamic Affairs & Endowments	519.31
26	Al Ahd Gen. Cont. & Maint	Mosque+Imam House, Musaffah-M3	Eastern Architecture Bureau	General Authority for Islamic Affairs & Endowments	630.15
27	Al Ahd Gen. Cont. & Maint	Mosque, Plot No: P2, Sec: E48, Abu Dhabi	Unii Engineering Consultancy	General Authority for Islamic Affairs & Endowments	800.00
28	Al-Firas Gen.Cont.	Mosque at mbz city Plot No.1 Sector Z6-MBZ City-Abu Dhabi	Al Ain Consulting Engineers	Crown Prince Court	2,261.00
29	Tornado Gen. Cont. & Maint.	Al Yahar, Hasha Mosque, Al Ain	Al Ain Consulting Engineers	Crown Prince Court	1,776.00
30	Al Barq Consturction L.L.C	Renovation of salahaddine Al youbi mosque	Al Ain Consulting Engineers	Ministry of presidential Affairs	419.00
31	Rapid Building Gen. Cont. & Maint.	Masjid, plot no: p12, sec:al samha east	Sahil Engineering Consultants	Mr. Khalifa Mohamed Thani Al Rumaithy	539.00
32	Tornado Gen. Cont. & Maint.	mohammed bin sireen mosque, al jahili, alain	Elite Design & Engineering Consultancy	General Authority for Islamic Affairs & Endowments	1,250.00
33	Al Mubadrah	masjid, abusamra alain	Elite Design & Engineering Consultancy	General Authority for Islamic Affairs & Endowments	1,227.00
34	akam gen cont.	ouwais al karni bu karas mosque, al masoudi , alain	Elite Design & Engineering Consultancy	Crown Prince Court	511.00
35	Al-Firas Gen.Cont.	Mosque at mbz city Plot No.P2 Sector Z25-MBZ City-Abu Dhabi	AI Ain Consulting Engineers	Crown Prince Court	1,425.00
36	Wahat Al Fursan Gen Contracting Est.	G+1 Villa at Al Maqam, Al Ain Plot:12-02-008-31	Amial Engineering Consultancy	Mr. Nasier Kyed Mubarak Al Ahbabi	397.00
37	Pillixy contracting llc	construction of marzouq mubarak al mansoury mosque, abu dhabi.	Al Ain Consulting Engineers	General Authority for Islamic Affairs & Endowments	1,100.00

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38	Future Builders Engineering Gen. Cont. Est.	Mosque Plot No.P3 Sector M37- Mussafah, Abu Dhabi.	Accuracy Architectural Engineering	General Authority for Islamic Affairs & Endowments	1,600.00
39	Al Firas Gen. Contracting	Mosque Design AL Ghadeer	Dorech Crucon	Alder	542.00
		Development, Abu Dhabi.	Dorsch Grueep	Aluar	542.00
40	National Transport & Contracting Co	Mosque & Quran Learning Centre, Plot No. P555, Al Mirfa, Western Region, Abu Dhabi	National Transport & Contracting Co	General Authority for Islamic Affairs & Endowments	1,182.00
41	Future Builders Engineering Gen. Cont. Est.	Plot No. P19, Al Marfa, West Zone, Abu Dhabi	Al Ain Consulting Engineers	Crown Prince Court	2,800.00
		Masjid, Imams House and Bathroom,		Mr. Ahmed Matar, Gen. Auth.	
42		Plot No. 19-07-021-04, Al Sarooj 7, Al	M/s Al Bawadi Engineering	For Islamic Affairs and	
	Al Bina Al Shami Gen. Cont.	Ain	Consultants	Endowments	700.00

Buildings Projects

S. No	Contractor	Location of the Project	Consultant	Client	Area
43	Six Construct	Design & Build of Masdar Institute Neighbourhood Housing.	M/s. Aecom Middle East Limited	M/s. Masdar City	22,750.00
44	Jazal Group	Lulu hypermarket at western region, Plot. No.118, Madinat Zayed, Abu dhabi.	M/s. Structure International Consultancy Centre	M/s. Lulu Group International	24,000.00
45	Ali & sons	bateen marina resort development plot no c-103 sec:w35 abudhabi (BILTMORE 5 STAR HOTEL RESORTS)	ACG	H.H. Sheikh Mohammed Bin Khalifa Bin Zayed Al Nahyan	13,600.00
46	Terna Group	dar al shiffa hospital, abudhabi	STH Engineering Consultants	Vamed Engineering	8,600.00
47	Asqalan Establishments	G+2 Building for Special Need Center, Western Region, Madina Zayad (Bida Zayad)	M/s Architectural Designing & Decoration	Musanada	3,318.45
48	Asqalan Establishments	G+2 Building for Special Need Center, Western Region, Gayathi	M/s Architectural Designing & Decoration	Musanada	3,092.25

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	Consolidated Contracting	Hamoom Pormanont Camp Project			
49	Eng. & Procurement Co.	(HDCD)	Bainona Engineering		
	S.A.L OffShore	(mrcr)	Consultancy	H.E Ahmed Jumaa Al Zaabi	9,737.79
50	National Transport &	Al Wajeha Al Bahria Mixed Use,	Pioneer Engineering	Department of Economic	
50	Contracting Co	Mirfa City, Western Region	Consultancy L.L.C	Development	8,435.44
E1	Ghantoot Transport & Gen.	Al Chahama Davidential Complex	Pioneer Engineering	LLE Ali Cadag Al Balanahi	
51	Cont. L.L.C	Al Shahama Residential Complex	Consultancy L.L.C	H.E All Sadeq Al Baloushi	3,410.65
50					
52	MICCO	Micco Ware House, Mina, Abu dhabi		Micco	4,538.00
52	Nural I I C	Nurol Sweihan Labour Camp (6 No's			
55	INUTOI L.L.C	Building), Sweiha	-	Nurol	2,670.00
	National Transmort &	Al Wajeha Al Bahia Mixed Use,			
54	Contracting Co	Mirfa City, Western Region - Phase -	Pioneer Engineering	Department of Economic	
	Contracting Co	II	Consultancy L.L.C	Development	3 <i>,</i> 800.00
		Pagidential Building (2 Mala) Plat			
55	NuralLLC	Nex C 105 See E48 Bayydhat			
55	Nurol L.L.C [No: C-105, Sec:	No: C-105, Sec. E46, Rawunat,		H.H Shaik Sultan Bin Khalifa	
		Airport Road, Abu Dhabi	D.E.C Consultant	Bin Zayed Al Nahayan	2,473.00
E(Al Abd Con Cont & Maint	Sudan Embassy, Plot No: 29, W59-02,	Perfection Engineering	The Republic of Sudan	
50	Al And Gen. Cont. & Maint	Abu Dhabi	Consultant	Embassy	2,000.17
57		Nurol Sweihan Labour Camp (6 No's			
57	Nurol L.L.C	Building), Sweiha	-	Nurol	1,335.00
50	Alba- Tech Const. &	Marta Dart Land Sida Davalanmant	Ms. Parsons & Ms. Tameer	Ms. Abu Dhabi Ports	
56	Development	Maria Fort Land Side Development	Engineer Consultant	Company (ADPC)	1,511.58
	Magraui Const Tashpalagu	Pasidontial Building Plat No. C 07			
59	L C (MAZCOT)	Case E 48 Desirabat Abir Dhabi		Mr. Khalifa Mohammed	
	L.L.C (MAZCOI)	Sec: E-46, Rawanat, Abu Dhabi	Architecture & Planning Group	Hamed Fares Al Mazroui	1,318.74
60		Nurol Sweihan Labour Camp (6 No's			
00	Nurol L.L.C	Building), Sweiha	-	Nurol	1,780.00
	Tochnical Contro I tol. Con	C+2 Commercial Building Plot No:		Salom Abdullah Khamas Al	
61	Contracting	29 M 34 Mussafa Industrial Area	Firas Engineering Consultants	Khomairi	
	Contracting	29, MI-34, MIUSSAIA IIIUUSUIAI AIPA		KHOIHAIH	600.47
62	Al Abd Con Cont & Maint	C+2 Building ME 9 Mussafab	Al Reef Engineering	Muna Ahmed Khalifa Al	
02	Al And Gen. Cont. & Maint	G+2, building, WE-9, Wussalah	Consultants	Suwadi	603.53
63	Hashim Contracting & Gen.	G+3 Building Extension, Plot No:		Adek Al Ghurair Additives	
0.05	Maint. Co. L.L.C	37B4, M41, ICAD-I, Abu Dhabi	Firas Engineering Consultants	L.L.C	131.67
64	Hashim Contracting & Gen.	Ware House Musaffah Ahu Dhahi	Al Burj Engineering		
04	Maint. Co. L.L.C	Wate House, Musanan, Abu Dilabi	Consultants	Messrs / Pharmalink	877.74

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65	Alba- Tech Const. & Development	2BASEMENT+G+M+6+R BUILDING, PT NO. C-35, SECTOR E-48, SALAM STREET		Al Oudra Holding	831.00
66	Al Etlala Gen. Contracting	G+1 Building, Plot No: 91, Sec:M37, Musaffah	Firas Engineering Consultants	Mr. Obeid Sultan Obeid Al Zahry	556.78
67	Al Etlala Gen. Contracting	G+1 Building, Plot No: 111, Sec:M- 40, Musaffah	Firas Engineering Consultants	Mr. Mohammed Ahmed Hamil Khulfan Al Kubesy	539.66
68	Gemini Building Cont. L.L.C	Industrial Building, Plot No: 31D, KHIA5, Kizad, Abu Dhabi	M/s. National Engineering Bureau	Abu Dhabi Port Company (ADPC)	360.22
69	Hashim Contracting & Gen. Maint. Co. L.L.C	Commercial Building, Plot No: 18-11- 137-252, Town Center, Al Ain	Al Ain Consulting Engineers	Mr. Rashid Mohamed Hamad Al Hurr Al Suwaidi & Others	314.78
70	Consolidated Contracting Eng. & Procurement Co. S.A.L OffShore	PMV & Logistic Yard, Sec: KP-5, KIZAD, Abu Dhabi	Al Salaam Consulting Architects Engineers & Planners	CCIC PMV & Logistic Yard	421.34
71	Nurol L.L.C	Nurol Sweihan Labour Camp (6 No's Building), Sweiha	-	Nurol	420.00
72	Al Bani Est.	Cambridge Medical & Rehabilitation Center, Al Ain	Pioneer Engineering Consultancy L.L.C	H.E Ahmed Mohammed Suhail Balhtam Ameri	768.00
73	Al Bani Est.	Pallets ME Industrial Building, KIZAD			350.00
74	Mattar Gen. Cont. Est.	Building, Plot No: C114, Sec: ME10, M.B.Z City	Sahil Engineering Consultants	Global Value Properties Investment	500.00
75	Al Ahd Gen. Cont. & Maint	Commercial Building, Plot No: C151, ME-09, M.B.Z City	Al Reef Engineering Consultants	Mr. Hussain Abdullah Hussain Abdullah Al Harethi	500.00
76	Hilal Bil Badi & Partners Cont. Co. (HILALCO)	New Delma Commercial Port (Administration Bldg), Delma Island	Salfo Engineering Consultant	Abu Dhabi Port Company (ADPC)	2,657.00
77	Alba- Tech Const. & Development	The Main Education Bldg Extension, Abu Dhabi University Zone-1, Plot No: 5c, Sec: MZ39, Abu Dhabi	Dar Al Handasah Nazih Taleb & Partners	Abu Dhabi University Holding Company	3,260.00
78	Alba- Tech Const. & Development	L Shape Accomodation Bldg, Abu Dhabi University Zone-2, Plot No: 5b, Sec: MZ39, Abu Dhabi	Arkonsult Engineering Consultants	Abu Dhabi University Holding Company	1,915.00

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		Abu Dhabi Future School, Program-			
79	Al Mezin Gen. Cont.	Phase 6, Package 5, Plot No: P21, Sec:	Al Suweidi Engineering	Abu Dhabi Education Council	
		Z-35, M.B.Z City	Consultant Bureau LLC	(ADEC)	9 <i>,</i> 700.00
00	National Transport &	Residential & mixed used buiding	Pioneer Engineering	Department of Economic	
00	Contracting Co	phase 3, plot no:P427	Consultancy L.L.C	Development	5,000.00
Q1	Lazourdy cont con (al Aln)	Development of technical service	Al Torath Engineering		
01	Lazouruy cont.gen.(al-Am)	centre	Consultant	Emirates Transport	820.00
82	Nurol L.L.C Sweihan labour	sweihen lebour camp			
02	camp 2 no building	sweman labour camp		Nurol L.L.C.	1,150.00
		Commercial building sector ME-10			
83	Fourth dimension gen.cont	Plot no C-9 Mussafah, Abu dhabi			
			Fine Arts Consulting Engineer	Arbah Investment Company	480.00
	Future Builders Engineering	Plot No. P19, Al Marfa, West Zone,			
84	Gen. Cont. Est.	Abu Dhabi			
			Al Ain Consulting Engineers	Crown Prince Court	2,800.00
85	Granada Europe Eng. Con.	Black Forest Food Ind, Kizad-Abu	Capital Engineering		a ana an
	Co. L.L.C.	Dhabi, UAE Plot No.91	Consultancy	Mr. Bin Ghatti Holdings	2,038.00
0.0	A 1º 0	Commercial Building on Plot No.		All & Sons Contracting	
86	Ali & sons	C55, Rawdhat, Abu Dhabi		Company- Sole Proprietorship	1 000 00
			Al Amara Al Sharkia	LLC	1,000.00
		G+Mezzanine + 2Floors + Roof Audi		Ali & Sone Contracting	
87	Ali & sons	Service Centre on Plot No. 12, M03		Company, Solo Propriotorship	
		Sector, Mussafah, Abu Dhabi	Al Amara Al Sharkia	LLC	2 000 00
					2,000.00
88	Al Jihan Gulf horizon Gen.	G+1 Office Building, Plot No. 89SR59	National Engineering		
00	Cont.	& 90S59, Musaffah south ICAD - III	Consultant Engineers	I Plast Industries I I C	700.00
					700.00
89	Freiburg Cont. & Gen.	new mega distribution center, plot			
0,	Maintainance	no. P11, FA Al wathba north UAE	Universal Consultancy Services	Agthia	600.00
90	Tornado Group	G+5 Commercial Building, Plot No.		Najat Ali Dawood Mohamed	
	1	C189, Sector-E19_2, Abu Dhabi.	Firas Engineering Consultants	Jafal	792.00
		Cons. Completion & Mainteiner			
01		Cons., Completion & Maintainance			
91	Alba Tech Cons. &	or building, Plot No. KBW3-C4, Al		Abdul Hamid Mohamed	
	Development.	Kana deach, Abu Dhabi	M. Z. Architect L.L.C.	Saeed Al Ahmadi	1,700.00

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92	Automax Decoration	Samaya Specialized Center, Plot no. 26, Sector No. SE3, Khalifa City A, Abu Dhabi.	James Cubitt & Partners Architects , Engineering Consultants & Project Mangers	Mr. Yahia Ali Yahia Al Midwahi	1,743.00
93	Dubai Oasis Constructions	G+1, Commercial Building, Plot. No. 07-04-002-42, Al khabisi, Al ain.	Granada Arc & Engineering Consultant	Ghanem Qanzool Ayaa Al Shamsi	600.00
94	Hashim Cont. & Gen. main.	Contruction of commercial residential building, Sec no. SE26-0, Plot No. C-20, Zone-Khalifa	Construction & planning Group	Mr. Othman Haggi	620.00
95	National Transport & Contracting Co	Residential Mixed Used Building, Plot No. 512, Al Mirfa, Western Region, Phase IV	Pioneer Engineering Consultancy L.L.C	National Transport & Contracting Co	2,100.00
96	Al Ahd General Cont. & Main.	Residential Building, Plot No. C22, Sector No. SHS16, Al Shahama South, Abu dhabi	National Engineering Bureau	Ahmed Mobarak Abdula Al Kindy	1,150.00
97	Automax Decoration	Samaya Specialized Center, Plot no. 26, Sector No. SE3, Khalifa City A, Abu Dhabi.	M/s. James Cubitt & Partners Architects , Engineering Consultants & project manager	Mr. Yahia Ali Yahia Al Midwahi	1,743.00
98	Dubai Oasis Constructions	G+1, Commercial Building, Plot. No. 07-04-002-42, Al khabisi, Al ain.	M/s. Granada Arch. & Eng. Cons.	Mr. Ghanem Qanzool Ayaa Al Shamsi	600.00
99	Hashim Cont. & Gen. main.	Contruction of commercial residential building, Sec no. SE26-0, Plot No. C-20, Zone-Khalifa	Architecture & Planning Group	Mr. Othman Haggi	620.00
100	NTCC	Residential Mixed Used Building, Plot No. 512, Al Mirfa, Western Region, Phase IV	M/s. Pioneer Engineering Consultancy	M/s. National Transport & Contracting Co.	2,100.00
101	ONYX Gen. Cont. Co. LLC	Emirates post office, Plot No. P8, Sector No. W52, Al Mushrif, Abu dhabi.	M/s. Al Salaam Consulting Architects Engineers & Planners	Emirates Post	350.00
102	NTCC	Mosque & Quran Learning Centre, Plot No. P555, Al Mirfa, Western Region, Abu Dhabi	M/s. Pioneer Engineering Consultancy	M/s. National Transport & Contracting Co.	826.00
103	Al Ahd General Cont. & Main.	Residential Building, Plot No. C22, Sector No. SHS16, Al Shahama South, Abu dhabi	M/s. National Engineering Bureau	Mr. Ahmed Mobarak Abdullah Al Kindy	1,150.00

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104	Humaid Al Arti Eng. & Cons.	Masjid & Ancillary Building, Plot No. 56-01-002-039, Madeena Nahil, Al Ain.	Al Andalus Palace Engineering Consultants	Shaikha Ahmed Ibrahim and Gen. Auth. Of Islamic Affairs & Endowments	860.00
105	Prompt Steel Building & Contracting	Pipe Plastic Factory, Industrial Zone, Icad III, Plot No. 47SR37, Abu Dhabi		M/s. Cory's Plastic LLC	1,000.00
106	Hilalco	Aqua- Corniche Beach Revitalization, Corniche, Abu Dhabi	M/s. Aecom Middle East Limited	M/s. Miral Asset Management	1,000.00

S. No	Contractor	Location of the Project	Consultant	Client	Area			
107	Akam Gen Contracting	G+1 Villa (6 No's), Plot No: 108, Sec:	International Engineering	Mr. Yaser Saeed Ahmed				
107	Thank Bern Contracting	SE41, Khalifa A,	Centre	Omran Al Mazrooy	1,269.24			
108	Kayan Al Mostqbal Cont. &	G+1 Villa, (6 No's) Plot No: C30,		Mr. Ghazi Saleh Salim Hassan				
100	Gen. Maint.	Baniyas East-8	Al Ain Consulting Engineers	Al Menali	619.32			
100	Kayan Al Mostqbal Cont. &	G+1 Villa, (6 No's) Plot No: C34,		Mr. Muhammed Darwish Al				
109	Gen. Maint.	Baniyas East-8	Al Ain Consulting Engineers	Rumaithi	269.00			
110		Residential Villas (6 No's), Plot No:	Pioneer Engineering	H.E Mohammed Ismael Al				
110	Al Nabah Gen. Cont. Est.	29, Sec: SE-41, Khalifa City A	Consultancy L.L.C	Khouri	1,200.00			
111	National Transport &	Residential Villa, Plot No: 32, Sec:	Pioneer Engineering	Mr. Yasser Mahmoud Fateh				
111	Contracting Co	SE3, Khalifa A	Consultancy L.L.C	Ali Al Khaja	1,450.00			
110	Comini Building Cont. I. I. C.	G+1 Villa, Plot No: 114, Shakbout	Momen Architects & Consulting	MR. Mohamed Ahmed				
112	Gennin bunding Cont. L.L.C	City	Engineers	Alshafy Elobeedy	1,096.66			
112	Al Mahayamat Gen. Maint.	G+1 Villa, Plot No: 88B, Sec: 2-8,	Al Dana Engineering	Juma Owaid Zayed Al				
115	Co.	MBZ	Ai Dalla Eligineering	Khumaisi	272.11			
114	Samaha Al Shamkha Est.	G+1 Villa, Plot No: 204, Shamkha 21	Al Mashraf	Yahiya Ibrahim Mohammed	455.00			
115	Al Ahd Gen. Cont. & Maint	G+1 Villa, M.B.Z City	Eng. Adnan Saffarini	Mohammed Salman Al Jabri	366.00			
116	Al Ahd Gen. Cont. & Maint	G+1 Majlis Block, Plot No: 220, W47, Al Mushrif	AUH Concept Consulting Engineering	Saif Al Khubaisi	151.56			
117	Build For Me Gen. Contracting	G+1 Villa, Plot No: PNO53, Zone-28, Khalifa-B, Abu Dhabi	Sahil Eng. Consultants	Hussain Al Hammadi	687.13			

Villa Projects

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118	Saya Maintenance & Gen. Cont.	G+1 Villa (4 No's) Plot No: 77, Sec- 23, Khalifa City A	Helal and Partners	Mohammed Sharif Al Mutawa	2,000.00
119	Al Makaareem Gen. Cont. & Maint.	G+1 Villa+Majlis, Plot No: SW3-39, Khaifa City A	Concer Consulting Engineering	Fathima Ali W/o: Abdullah Hamed Al Nuamy	392.40
120	Skyine General Contracting L.L.C	2 Villa, Plot No: 93, Sector SE-38, Khaifa City A		Mohsen Mohammed Ahmed Alfaqeeh Alamoudi	620.22
121	Ma'an Eng. Gen. Cont.	G+1 Villa, Plot No: 77, Baniyas East, Abu Dhabi	Abu Dhabi Concept Consultant	Mohmad Hossin Al Athas	332.92
122	Ma'an Eng. Gen. Cont.	G+1 Villa, Plot No: 57, Shamkha, Abu Dhabi	Abu Dhabi Concept Consultant	Ahmad Mhfooj	335.14
123	Al Anees Cont. Gen. Maint. Est	G+1 Villa, Plot No: 13-01-008-016, Al Ain, Ashari Al Defeinah, 8th Street	Amial Consultant	Mrs. Azza Khalifa W/o: Jaber Ali Amer Alahbabi Mohammed	243.00
124	Al Anees Cont. Gen. Maint. Est	G+1 Villa, Plot No: 13-01-008-005, Al Ain, Ashari Al Defeinah, 8th Street	Amial Consultant	Salem Humad Ali Al Alami & Others	243.01
125	Al Anees Cont. Gen. Maint. Est	G+1 Villa, Plot No: 02-05-007-046, Al Ain, Hili Umal Mader	Amial Consultant	Mrs. Gubaisha Mohd Saif Almrooshed Alsabousi	339.87
126	Housing Services Contracting	G+1 Villa, Plot No: 81, Sec-36-E, Abu Dhabi	Liwan Gulf Consultant Engineers	Heirs of Abdul Rahman Al Rumaithi	399.56
127	Ma'an Eng. Gen. Cont.	G+1 Villa+Service Block, Plot No: 207, MBZ Z-22, Abu Dhabi	Tameer Engineering Consultants	Mohammad Ali Gulib Malik, Sharifa Abdul Rahman Abdul Wahab Al Barkani	702.58
128	Mr. Sulaman Eisa Sulaman Al Mahry	G+1 Villa, Plot No: 62/1, Banyas-11	Al Sameeh Eng. Consulting	Mr. Sulaman Eisa Sulaman Al Mahry	536.27
129	Al Nile Towers Eng. Cont. L.L.C	Residential Villa, Plot No: 39, Sec: MQ-11, Bin El Jasreen	Al Aali Consultants Eng.	Ali Mohammed Ahmed Al Mazoori	566.40
130	Al Nile Towers Eng. Cont. L.L.C	Residential Villa, Plot No: 115, Sec: Z- 10, M.B.Z City	Al Aali Consultants Eng.	Mrs. Munira Hazza Naser Salmeen Al Mansoori	348.24
131	Al Haramia Gen. Contracting	G+1 Villa, Plot Np: 34, Sec-MFW-25, Khalifa City B	Emirates Consultant Group	Abdul Rahman Thaha Abdul Rahman Husain AL Aidarous	358.05
132	Gemini Building Cont. L.L.C	Plot: KHIA5-31D, Sec: KHIA5, Khalifa Industry Zone, KIZAD			1,659.00
133	General Contracting Co. L.L.C	G+1 Villa, Khalidiya	Amial Consultant	Mr. Al Suwedi	429.28

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124	Mohammed Abdul Rahman	C+1 Villa Plat No. 7 Shamkha 24	Damaan Consulting	Mohammed Abdul Rahman Al	
134	Al Junaidi	$G^{\pm 1}$ v IIIa, Flot No. 7, Shallikha 24	Engineering	Junaidi	338.70
	Panid Building Can Cont &	C 1 Ville (2 Male) Plat No. 1 Sec. 41		Mr. Hamad Mohamad Thani	
135	Rapid Building Gen. Cont. &	G+1 VIIIa (2 No's) Plot No: 1, Sec Al		Rumaithy & Khalifa Mohamad	
	Maint.	Sader-C, Al Sader Abu Dhabi	Sahil Engineering Consultants	Thani Rumaithy	575.98
10/	Skyine General Contracting	G+1 Villa, Plot No: 124B, Sec-SE-Z-		Mrs. Sana Ibrahim Al	
136	L.L.C	25, M.B.Z City		Hammadi	306.31
100		G+1 Villa, Liwa, Western Region,			
137	Mr. Khalifa Salim Al Moharbi	Abu Dhabi		Mr. Khalifa Salim Al Moharbi	344.00
100	Building Aspect Construction	G+1 Residential Villa + Kitchen			
138	L.L.C	Block + Guard & Electrical Room, Pt	Apollodore Consultant	Mr. Majid Shahin Yusuf Sultan	
		No. 03, Z-12, M.B.Z CITY	Engineers	Al Awani	457.21
		G+1 Villa, Plot No: 65-02-064-003, Al	Al Makta Bridge Engineering		
139	Mr. Ali Salem Saeed Dhabaj	vahar	Consultants	Mr. Ali Salem Saeed Dhabaj	281 78
<u> </u>	Al Mahavamat Gen, Maint	G+1 Villa + Mailis, Plot No: 37, 7-22.		Mr. Salim Suhail Mena	201.70
140	Co	M B Z City	Al Dana Engineering	Murshid Rumasi	620.83
<u> </u>		G+1 Villa, Plot No: 7, MSH-25.			020.00
141	Ma'an Eng. Gen. Cont.	Shakboot City, Abu Dhabi	Remas Engineering Consultants	Mr. Ahmed Abood Ali	462.33
			Al Beat Al Jameel Eng.		
142	Mr. Humaid Al Jneibi	G+1 Villa, Plot No: 249, Shamkha 24	Consultant	Mr. Humaid Al Ineibi	400.00
<u> </u>	Al Mamzar Village Gen	G+1 Villa, Plot No: 196, Al Falah-4.	Al Reem Engineering	Mr. Mohammed Yousuf Salam	100100
143	Cont	Al Falah	Consultancy	Al Hamadi	398.51
					0,0.01
144	Al Haramia Gen. Contracting	Plot No: 91, SE-5 Khalifa City A	A.D.D Engineering Consultant	Mr. Essa Salim Al Khubaisi	461.00
		Plot No: 29-05-071-008A, Gafat Al	Al Magta Bridge Eng. Const	Mr. Salem Saeed Salem Atteva	101100
145	Al Enma Gen, Const	Navvar Al Ain	LLC	Alkaabi	387 02
					007.02
146	Al Hasoun Al Shaikha Gen.	G+1 Villa, Plot No: 70, Al Samha		Mr. Naiem Abdulllah Naiem	
110	Cont. & Maint	East	Oscar Engineering Consultant	Alremaithe & His Wife	451 61
		G+1 Villa + Mailis Plot No: 52	Palaza Engineering		101.01
147	Mr. Faisal Abdullah Omer	Shamkha-20 Abu Dhahi	Consultancy	Mr. Faisal Abdullah Omer	433 52
		Shanikia-20, Nou Dhaoi			100.02
148	Mr. Mohamed Mohsen Faraj	G+1 Villa+Service Block, Plot No:		Mr. Mohamed Mohsen Faraj	
110	Saeed Almuharrami Alamiri	729, EBI_01, Baniyas, Abu Dhabi	Plaza Engineering Consultant	Saeed Almuharrami Alamiri	615 32
					015.52
149	Mr. Eisa Sulaman Al Mahry	G+1 Villa, Plot No: 210, Banyas-7	Al Samooh Eng. Consulting	Mr. Fice Sulaman Al Mahm	500.00
			ra Jameen Eng. Consuming	ivit, Eisa Sulaman Ai Mahly	500.00

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150	Bait Al Shaar Cont. & Gen.	G+1 Villa, Plot No: 24, Sec:SH24, Al			
150	Maint.	Shamkha City	Al Saif Consultants	Mr. Adel Al Zubidi	414.42
151	Skyine General Contracting	G+1 Villa, Plot No: 48, Sec:SE-15,		Mrs. Sameera Faraj Ahmed	
151	L.L.C	Abu Dhabi	Firas Engineering Consultants	Abu Baker Lerdi	436.96
150	Ant Stone Con Cont	G+1 Villa, Plot No: 15, Sec: 3, Khalifa		Mr. Salam Abdullah Salam Al	
152	Art Stone Gen. Cont.	City B	Eng. Adnan Saffarini	Yafai	600.00
152	Al Nabah Can Cant Est	G+1 Villa (3 Nos) Plot No: 27-29,	Al Howr Consulting	Maryam Khalfan Faraj Al	
155	Ai Nabali Gen. Cont. Est.	West-23, Muffrek, Khalifa B	Engineering	Meherbi	754.49
154	Creative Construction I. I. C.	G+1 Villa, Plot No: 108, Sec: Z-8,		Mr. Khalfan Matar Saeed Al	
154	Creative Construction L.L.C	M.B.Z City	Terrace Eng. Consultant	Romaithy	450.73
155	Sigma Real Estate & Gen.	G+1 Villa, Plot No: 184, Sec: EB2_04,		Mr. Ali Rashed Ali Hussain Al	
155	Cont.	Baniyas	Remas Engineering Consultants	Ali	170.00
156	Mr. Musalam Suhail Al	C+1 Villa Plat No. 115 Papiwas 7	Al Arif Engineering	Mr. Musalam Suhail Al	
150	Rashidi	G+1 villa, Flot No. 115, balliyas 7	Consultancy	Rashidi	605.67
157	Skyine General Contracting	G+1 Villa, Plot No: 290, Al Bahya,			
157	L.L.C	Abu Dhabi		Mrs. Salem Al Marri	298.93
158	Mahadrah Building Cont	Guard House of Mina Palace, Salam			
130	Mobacitali Bunding Cont.	Street			25.00
150	Bin Mona Al Mansoori Gen.	G+1 Villa, Plot No: 33, MSH-1,		Mr. Mahfodha Hamad Saleem	
139	Cont.	Shakbout City	Charmisma Eng. Consultants	Al Junaibi	415.00
160	Al Hasoun Al Shamikha Gen.			Mr. Saleem Nasir Saleem Ali	
100	Cont. & Maint	G+1 Villa, Plot No: 569, Al Shahama	Reem Engineering Consultancy	Al Hadwi	500.00
161	Al Zelal Cont. & Gen. Maint.	G+1 Villa, Plot No: 113A, Sec:		Mr. Mohammed Almer Ali	
101	Est.	SW/15, Khalifa A	Sahil Engineering Consultants	Mohammed Alnyadi	651.70
162	Skyine General Contracting	C+1 Villa Al Wathba Abu Dhabi		H.H Sh. Manzour Bin Zayed's	
102	L.L.C		EOM Design Department	Engineering Office	350.00
163	Skyine General Contracting	G+1 Villa, Plot No: 193, Sec: EB1-05,		Mr. Hamad Omar Khamees	
105	L.L.C	Baniyas, Abu Dhabi	Scantec Planning Consultant	Humaid Al Jaedi	221.22
164	Al Shaker Gen. Cont. &	G+1 Villa Plot No: 7-25 M B 7 City			
104	Maint. Est.	G+1 VIIIa, 1 lot 100. 2-23, 101.D.2. City	Firas Engineering Consultants	Mr. Majid Al Manzuri	441.10
165	Sigma Real Estate & Gen.	G+1 Villa, Plot No: 36, MSH29,		Mr. Ali Abdullah Ahmad Al	
105	Cont.	Shakbout City	Remas Engineering Consultants	Ali	419.00
166	Bin Mona Al Mansoori Gen.	G+1 Villa, Plot No: 79, MSH-9,		Mr. Saeeda Gharib Hareb Al	
100	Cont.	Shakbout City, Abu Dhabi	Center Point Architecural Eng.	Otteba	432.00
167	Eastern Corners Gen. Cont.				
107	Est.	G+1 Villa, Gayathi	Firas Engineering Consultants	Mr. Salem Al Mansouri	292.53

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168			Urbanism Planning	H.H. Sheikh Sultan Bin Khalifa	
	Nurol L.L.C	Escort House Work, Abu Dhabi	Architecture	Bin Zayed Al Nahyan	490.00
1(0				Mr. Ahmed Balgher Bahagd Al	
169	Youn Al Reem Cont. L.L.C	G+1 Villa, Plot No: 360, Baniyas	Anazel Gul Eng. Consul.	Korabe	604.56
170	Sigma Real Estate & Gen.	ž	¥	Mr. Ahmed Abdul Lateef Al	
170	Cont.	G+1 Villa, Plot NO: 100, Shamkha	Reemas Engineering Consultant	Aali	530.17
171	Eastern Corners Gen. Cont.				
1/1	Est.	G+1 Villa, M.B.Z City	Firas Engineering Consultants	Mr. Abdul Aziz Al Kitbi	300.46
170	Assess Alblad Car Carat	C 1 Ville Plat No. 07 Chambbe 7	Modern Home Engineering	Mr. Majid Ibrahim Nabyah	
1/2	Aayan Albiad Gen. Cont	G+1 Villa, Plot No: 97, Snamkna-7	Consultant	Mohammed	365.42
172	Skyline General Contracting	G+1 Villa, Plot No: 105, Sec: Z-24,			
1/3	L.L.C	M.B.Z City	-	Mrs. Laila Mohammed Rafeea	586.95
174	Inmaa Al Emirate Gen. Const.	G+1 Villa, Plot No: 01-02-036-006, Al	Al Maqta Bridge Eng. Const.	Mr. Abdulla Mohammed	
174	Est.	Sajaa, Al Foah, Al Ain	L.L.C	Khalifa Saeed Al Kaabi	425.69
		C 1 Ville, Plat No: D40 SE 42			
175	North Star Cont. L.L.C	G^{+1} v IIIa, Flot NO. F49, SE-42,	World Planners Consultant	Mr. Khalifa Eissa Muhammed	
		Knalifa A	Engineers	Al Jassem Al Falasi	400.00
			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Mr. Ali Abdulla Abu Baker Al	
176	Mr. Ali Abdulla Abu Baker	G+1 Villa, Plot No: 157, Zone Z-12,	HS Internation Planners	Jaferi Wife & His fann Salem	
	Al Jaferi	M.B.Z City	Architects & Engg. Cons.	Alwei Alkaf	656.00
1.77	Al Hasoun Al Shamikha Gen.	G+1 Villa, Plot No: 185, Sec: SH9, Al		Mr. Saleh Mubarak Saleh Ali	
1//	Cont. & Maint	Shamkha	Castels Consultant Engineering	Al Barkhi	351.20
170	Al Mahayamat Gen. Maint.	G+1 Villa, Plot No: 88B, Sec: 2-8,		Mr. Juma Owaid Zayed Al	
1/8	Co.	MBZ	Al Dana Engineering	Khumaisi	246.15
170	Mr. Musallam Salem	G+1 Villa, Plot No: 102, SHM2, Al	Modern Home Engineering	Mr. Musallam Salem Mbkhoot	
1/9	Mbkhoot Salama Alameri	Shawamekh	Consultant	Salama Alameri	516.65
100	Brigadier Dhahi Khalfan	G+1 Villa, Plot No: 10-02-048-018, Al	Al Reyada Engineering	Brigadier Dhahi Khalfan	
100	Khamees Saif Al Amimi	Bateen, Al Ain	Consultants	Khamees Saif Al Amimi	669.37
101	Bait Al Shaar Cont. & Gen.			Mr. Mubarak Salem Faraj	
101	Maint.	G+1 Villa, Al Shamkha City	Al Saif Consultants	Salem Al Seiari	398.88
100	National Transport &	Residential Villa, Plot No; 32, Sec:	Pioneer Engineering	Mr. Yasser Mahmoud Fateh	
182	Contracting Co	SE3, Khalifa A	Consultancy L.L.C	Ali Al Khaja	1,450.00
100	Sigma Real Estate & Gen.	G+1 Villa, Plot 215, Shamkha, Abu			
183	Cont.	Dhabi, Uae	Remas Engineering Consultants	Mr. Yousef Al Aali	550.00
				Engineering office of H.H.SH	
184	Skyline General Contracting	G+1 Villa,Plot No309,Sec-z-30,MBZ		Mansoor Bin Zayed Al	
	L.L.C	City		Nahyan	800.00

Page 13 of 16



105	Sigma Real Estate & Gen.	G+1 Villa,Plot No86,Baniyas,			
185	Cont.	AbuDhabi	Reemas Engineering Consultant	Mr. Laila Eissal Minhali	500.00
196		G+1 Villa,Plot No67,Sec-MSH-	Engineering Concept		
100	Al Ahd Gen. Cont. & Maint	10,AbuDhabi	Consultation	Mr. Omer Naseeb Al Jabri	500.00
107		Residential villas (2 No's), Plot No:	Pioneer Engineering	Mr. Mohammed Farej Al	
10/	Al Nabah Gen. Cont. Est.	39, Sec: SE-3 Khalifa City A	Consultancy L.L.C	Naherbi	888.00
100	Bin Mona Al Mansoori Gen.	Residential Villa at Plot. No: 71, SEC:	Harisma Engineering		
188	Cont.	EB7_B, Baniyas	Consultant	Mrs. Noora & Mrs. Kareema	398.00
100		Residential villa, zone-2, plot no:3,			
109	Khaled Ali Ghaleb	khalifa city, Abudhabi	Handasat Al Emarat	Mr. Khalid Ali Ghaleb	580.00
100	Sigma Real Estate & Gen.	G+1 Villa plot no:64,Al Rahba,			
190	Cont.	abudhabi	Firas Engineering Consultants	Mr. Ibrahim Al Haj	370.00
101				Mr. Showerev salem showerev	
191	Al Nile Tower	G+1+Villa+Electrical Room	Al Aali Eng. Consultants	al amer	350.00
192	City Beam General	G+1 VILLA+ROOFTOP+SECURITY			
	Maintainance & Contracting	ROOM&ELECTRICAL ROOM	Arcal Engineering Consultant	Awvath obaiz fazal al Jaberi	340.00
193		Private Villa Plot No.:240 Zone-			
170	Al Etlala Gen. Contracting	Baniyas,SEC:EB9,Abu Dhabi	Firas Engineering Consultants	Jumma saleh ali al Juwaidi	560.00
194	Arab Pioneers General	Private Villa At Al Shwaib, Al Ain	Al Bawadi Engineering	Mr. Awad Abdula Sultan Saif	
171	Contracting Est.	Plot No: 51-02-022-18	Consultant	Al Ketby	500.00
195		Private Villa, plot no 03-04-044-06,	Al Hosn Engineering	Afra Ibrahim Obaid Thani Al	
170	Abdul Majeed Al Shamsi	Al Masoudi, Al Ain	Consultancy	Balouchi	1,350.00
196		Villa (Addition), Plot No. 29-02-046-	Qasr Al Masi Engineering	Mr. Hamad Seba Saeed	
170	City Creek Construction	02, Al Suwaifi, Zakher, Al Ain	Consultant	Ghanam Al Nuami	250.00
197	Tornado Group	VIP VILLA, Al Hilli, Al Ain.			700.00
198		G+2 VILLA,AL SHUAIBAH,PLOT	Al Reyada Engineering	Salem Mohamed Rashid Al	
	LOLOATSKY GEN.CONT.	NO: 31-01-023-37, AL AIN	Consultants	Memari	575.00
				Abdul Khaliq Ali Saeed Bin	
199		plot no. 43A1-43/A2, Khalifa City-A.	Bainona Engineering	Dhaaer & Wife Ghaneya Salim	
	Skyline Gen. Cont.	Abu dhabi	Consultants	Saeed	930.00
200		G+1 Villa Plot No: 07 Sector EB1_01,	Al Firas Engineering		
200	Skyline Gen. Cont.	Baniyas East, Abu Dhabi	Consultants	Mubarak Salem	466.00
201	Rapid Building Gen. Cont. &	G+1 Villa Plot No: 07, Zone-14, MBZ,		Mohamad Hilal Zayed Al	
201	Maint.	Abu Dhabi	A.D.D Engineering Consultant	Falahi	952.00

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202	Tornada Can Cant & Maint	546 PALHOUL VILLA Aby Dhahi	Mimar Engineering Congultant		772.00
	Tomado Gen. Cont. & Maint.	C+1 wills Plot No. 422 Sector: Al	Poyal Palace Engineering	Khalaad Ahdula Salim Saaad	775.00
203	Atrium General Contracting	G+1 villa, 1 lot No. 422, Sector. Al	Concellance Engineering	Nazir	186.00
		Shahama, U.A.E. C+1 Villagy 4. Plot No. 14.07 120	Consultancy	NdZIF Hoire of Pachid Khalfan Al	400.00
204		$G^{+1}$ v mas x 4, Flot No. 14-07-130-			1 010 00
	Khalfan Kashid	164, Al Muwaiji, Al Ain	Acro Engineering Consultant	Naili Al Snamsi	1,810.00
		Residential Complex 68 Villas, Plot			
205		No. 14-08-141-129C, Muwaiji, Al			
	Ramadan Eissawi Gen. Cont.	ruwaikah, Al ain	Taikos Engineering Consultant	Bin Ham Group	9,000.00
206	A&M International Gen.	Proposed villa, Majlis al anbar, Abu	Golden Square Engineering		
	Cont.	Dhabi, U.A.E.	Consultant		820.00
		Construction of New Residential 2			
207		Vills, Plot No. 64, Sector MSH 15,	Daman Engineering		
	ONYX Gen. Cont.	Shakhbout City, Abu Dhabi.	Consultants		680.00
		Villa for Mr. Murshed Abo Al	National Engineering Office for		
208		Redaini, Plot no. 94, Sector-Z-22,	Engineering Consultancy &	Murshed Abdo Murshed Al	
	Spartans general cont.	MBZ, Abu dhabi	Décor	Redaini	800.00
209		G+1 Villa, Plot No. 27, Zone:W50, Al	Great Mark Engineering	Mr. Mohamed Abdullah	
	Gulf Emirates Contracting	Bateen, Abu Dhabi.	Consultants LLC	Alotaiba	500.00
			National Engineering Office for		
210		G+1 Villa, Plot no. 75, Sector SE-04,	Engineering Consultancy &	Mr. Ahmed Darwish Ahmed	
	Spartans Gen. Cont.	Abu dhabi	Décor	Adulmaid Al Zarooni	793.00
011	Al Enma Engineering gen.	G+1 Villa, Plot no. 27-04-012-01,	M/s. Palacio Consulting	Sulaiman Humaid Saeed	
211	cont.	Shiebat al watah, Al ain.	Engineering	salem al blooshi	460.00
		G+1 Residential Villa+Service			
212	Bait Al Shaar Contracting &	Blocks, Plot No. 225, Zone-Al	M/s. Daman Engineering	Mr. Mohamed Bin Karama Al	
	Gen. Main.	Shahama Old, Abu dhabi	Consultants	Zbeidi	563.00

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		PROPOSED GROUND VILLA,			
213	Orient star Gen Maint. &	PLOT NO. 191, AL SHAHAMA	M/s. Chalabi Architekten &		
	Cont.	SOUTH, ABU DHABI, U.A.E.	Partner	Mr. Omer Al Suwaidi	490.00
		Residential villa & Service block, Plot			
214		no. 01-03-030-07, MSAIBEEKH, AL	M/s. Palacio Consulting	Soud Nader abdalla musabbeh	
	Al Bina al shami general cont.	FOA , Al Ain	Engineering	al niyadi	820.00
01E	Spartans General Contracting	Residential Villa, Plot No. 7B, Sector-	M/s. Advance Engineering	Mr. Hilal Khamees Al	
215	& Main.	SW2, Abu Dhabi	Consultancy	Mureikhy	720.00
216	Polensky & Zoellner Abu	Residential Villa, Al Nakheel Palace,	M/s. Avenue Engineering		
216	Dhabi WLL	Abu Dhabi, UAE	Consultant		1,450.00
217	Logistic General Contracting	G+1 Private Villa + Elec. Room, Plot	M/s. Palacio Consulting	Mr. Ali Rashed Sultan Butti Al	
	LLC	No. 81-05-040-41, Dhahers, Al Ain	Engineering	Kutubi	520.00
218		Plot No. P9, Sector- L, Al Rahba City,	M/s. Al Ain Consulting	General Authority for Islamic	
	Lazourdy Cont. & Gen. Main.	Abu Dhabi	Engineers	Affairs and Endowments	940.00



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## SUB-CONTRACTOR PREQUALIFICATION SUBMITTAL - SCPS

Part A: Project In	formation:		
Project Name	Abu Dhabi Future School Program Phsae 7 - Package 1 – MBZ	SCPS.Ref.No	ADFS7-00SIT-ZZ-DIP- CIV-PQN-0039-00
Employer	Musanada	Rev.No	00
PMC	N/A	Date of Submission	07-Oct-2018
Engineer	Urbanism Planning Architecture Consultancy	SCPS Submitted By	DIP
Contractor	Al Dhafra International Projects Group	SCPS Submitted To	Musanada

Part B: Sub-Contractor Discipline:						
Deleted Dissipling	120	Civil		Architectural		Electrical
Related Discipline		Mechanical		Others (Specify)		

ACT INSUL WATER PF nan 4 years Yes		N WORKS		N/A	<ul> <li>Valid Membership of Chamber of Commerce.</li> <li>Valid Municipality License</li> <li>Pre-qualifications.</li> <li>Vendor List</li> <li>Other Valid licenses: -ADCE</li> </ul>		
WATER PF		ING & INS		N/A	Valid Municipality License     ✓ Pre-qualifications.     ✓ Vendor List     ✓ Other Valid licenses:     -ADCE     ✓ COE		
nan 4 years Yes ox 8401 Abu		No	8	N/A	<ul> <li>Pre-qualifications.</li> <li>Vendor List</li> <li>Other Valid licenses:</li> <li>-ADCE</li> </ul>		
Yes x 8401 Abu		No	8	N/A	Vendor List  Other Valid licenses: -ADCE  DECCENTED		
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x 8401 Abi	Dhah						
	P.O Box 8401 Abu Dhabi UAE				Receive Time: 1- 30pm		
Abu Dhabi Office				U / OEX ZUIS Your			
06 538 7820				MUSAL DA - EDUCATION SECTOR ADESP-PH7-PKG 1			
O 9001:20	015, 15	SO 14001	2015 Tel. ( Fax (	02) 6337975 02) 6337974			
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Other Remarks ADCE Certificate of Registration
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### **Contractor's Review:**

We do certify that the submitted information herewith has been reviewed in details and in accordance with the Contract Documents except as otherwise stated here above.

	Discipline Engineer	QA/QC Section	HSE Section	MEP Section
Name		Eng Roy Labitad	Eng. Moralde	Eng. Gaber Eng. Khalil
Signature		th	D	* 00B0X 4789
Date	0 2			TAFDA II TO SOUTH SOUTH
				MAINIT PROJECT

### Part D: Employer/ Engineer Review and Approval1:

Employer/ Engineer's Comments	+ ) so Se	Vo dojection to approve sub-Compaden to app 205. subject to work Satisf	Mrs Comp Ly with Chory C	ci houlain works LLC as Contracts Daving, BQB I
Employer/		A: Approved	CV	B: Approved with Comments
Approval		C: Revise & Resubmit		D: Rejected

Nate(1): Employer's/ Engineer's approval is for conformance with information given and design concept expressed in Contract Documents. Approval does not authorize changes to Contract Documents. Employer's/ Engineer's approval does not relieve the Contractor from his contractual obligation to ensure conformance to all Contract Documents. Any deviations, to the Contract Documents found subsequent to Employer's/ Engineer's approval are to be corrected by the Contractor at no extra Cost/Time to the employer.

Employer/ Engin	eer Approval		
		For Engineer	For Musanada
Name		57	Mohammed Alhawi
Designation		10/10/2	Project Manager
S g 1 1 / Fax (02)	6337975	KH WI	
Date P.O. Box	: 109122	61	MBO 16/10
Abu Dhabi Future Schoo Phase 7 (Package-1	I Program MBZ)		The second second
APPROVAL ST	TATUS		2 and the second
A Approved C R	evise & esubmit		
B Approved D Re	ejected	Page 2 of 2	SPACT INSULATION WORKS
Signed by Engineer: Date:	12		Form Ref: TMT132, Rev1, Date: 09-Feb-17

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Bateen Marina Resort Development Plot No. C-103 Sector W 35 Abu Dhabi U.A.F.

Ali & Sons

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Management :	Pioneer Inter	national Projec	ts Management		NO	TAPPROVED	10.0	
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ISSUED BY:	ALI & SON	ACG	ACG					
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ARCHITECTURAL CONSULTING SROUP دارالاستشارات المحمان

Submittal Review	v Sheet			
Project Name:	Bateen Marina Resor	t Development		
Date of Submittal:	25 Oct 2016		Reviewer	JP
Contractor:	Ali & Sons Contracting Co. LLC		Review Date	13 Nov 2016
Subcontractor/Vendor:				
Submittal Description:	M/s Compact Insulation	n Works LLC		
Submittal No.:	SC STRU 61 R0	🛛 New Submi	ttal 🛛 Re-Submittal	Additional Information
Specification Section (	one section per transm	ittal):		
Submittal Type:	Shop Drawing Admini	istrative 🗌 As-Built 🔲 S	Sample 🗌 Product Data 🗌	Additional Information 🔲 08M

## THIS SUBMITTAL HAS BEEN REVIEWED AND IS GIVEN THE REVIEW ACTION OF:

- 1. There is no specific approved subcontractor for the waterproofing works.
- Having reviewed the proposed waterproofing subcontractor based on the attached documents & with reference to employers consent thru letter reference no. PIPMC/750/P163/J4/F002/J282/06/2016/12205 dated 3rd Nov. 2016. The proposed subcontractor for M/s Compact Insulation Works LLC is acceptable.
- 3. Contractor to ensure to coordinate with other trades.
- 4. Contractor must submit a waterproofing mockup at site for review.
- 5. Onsite test are to be carried out by the approved testing agency and the result shall be satisfactory.
- The attached test result dates are obsolete; kindly submit with the current year thru material submittal.
- Please refer to the Employer comments as shown in the attached PIPMC letter ref. PIPMC/750/P149/J4/F-002/J-282/06/2016/12714 dated 14th Nov 2016.









Bateen Marina Resort Development Plot No. C-103 Sector W 35 Abu Dhabid and a Ali Sa

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Client :	H.H. Sheikh I	Mohammad Bi	n Khalifa Bin	HENT APPROVED AS NOT		-		
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Consultant :	Architectural	Consulting Gr	oup (ACG)		_	ils responsibilities un	der the contract	
Main Contractor :	Ali & Sons C	ontracting Co.	L.L.C. (ASC)		By:	Date:		
	PROJECT#	DOCUMENT TYPE	TRADE CODE	RUNNING NUMBER	REV.	DATE	AUTHOR	1
DOCUMENT CODE	156	MSUB	STRU/ ARCH	453	0	25th October 2016	MA	

ISSUED BY:

ALI & SONS CONTRACTING

TO: ACG

MATERIAL AS PROPOSED	BY CONTRACTOR	MATERIAL AS PE	R SPECIFICATIO	N/BOQ/DWGS	
Description/Location:	Manufacturer/Origin	Description/Location:	Manufacto	arer/Origin:	
Roof Water Proofing ( Hotel, Villa & Service Yard )	Compact Insulation Works LLC	Roof Water Proofing ( Hotel, Villa & Service Yard )	Alternate Syster Estidama Energ	n to comply with y Model U-Valu	e
Mote: Estidama PQP Approval attach	ed				
Specifications Ref.:N/A				8tr:	001 20
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Contractor's: Name: Firaz Haj Mohammad Designation:Project Manager	25,10,2016	Recipient's: Name: Designation:		AR ST ME EE	
Signature:	Dâte	Signature:	Date	TIME:	2.00 AV

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	Refer to the attack	ned comment sheet.	
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Submittal Review	v Sheet		
Project Name:	Bateen Marina Resort Development		
Date of Submittal:	27 Oct 2016	Reviewer	JP
Contractor:	Ali & Sons Contracting Co. LLC	Review Date	10 Nov 2016
Subcontractor/Vendor:			
Submittal Description:	Roof Waterproofing (Hotel, Villa & Servi	ce Yard)	
Submittal No.:	MAR STR/ARCH 453 R0	bmittal 🔲 Re-Submittal	Additional Information
Specification Section (d	one section per transmittal):	in shallowed	an alandar a
Submittal Type:	Shop Drawing Administrative As-Built	Sample Product Data	Additional Information 🗌 O&M

THIS SUBMITTAL HAS BEEN REVIEWED AND IS GIVEN THE REVIEW ACTION OF:

Approved

Approved as Noted

Comments / Remarks:

- We note that the proposed roof waterproofing is not as per approved vendors list. However, having employer consent thru letter ref. no. PIPMC/750/P163/J4/F-002/J-282/06/2016/12205 dated 3rd Nov 2016 the proposed material is acceptable subject to compliance of the following:
  - The test report dates are outdated submit current report from Dubai Central Laboratory shall be year 2016.

Revise & Resubmit Rejected

Not Reviewed

- · The attached roof U-value calculator shows failed, please clarify.
- ESTIDAMA approved certificate is missing.
- Upon completing the above, contractor to submit a mock-up at site for review & onsite test are to be carried out by the approved testing agency & test result shall be satisfactory.
- Please refer to the clients comments as shown in the attached PIPMC letter ref. PIPMC/750/P149/J4/F-002/J-282/06/2016/12681 dated 13th Nov 2016.

Name: Moustafa Meligy	Signature:	Date: 14 Nov 2016
Note: The above comments / or	approval does not relieve the	Contractor from his obligation in the contract to
corrected by the contractor to the	e satisfaction of the Client / Co	insultant.
ensure contormance to the spec corrected by the contractor to the	END OF SUBMITT	AL REVIEW



SUB-CONTRACTORS PRE-QUALIFICATION SUBMITTAL         SUBMITTALREENDLECEBOPOCIMUDI       PROJECT NO       REV       Date       A         SUBMITTALREENDLECEBOPOCIMUDI       PROJECT NO       REV       Date       A         CONTRACTORS PRE-QUALIFICATION SUBMITTAL         SUBMITTALREENDLECEBOPOCIMUDI       PROJECT NO       REV       A         CONTRACTORS PRE-QUALIFICATION SUBMITTAL         SUBMITTALREENDLECEBOPOCIMUDI         SUBMITTALREENDLECEBOPOCIMUDI         SUBMITTED FOR: ACTION         Resident Ergineer, OCONSTRUCTION         VMSJAZAL TECH         Type:       MSJAZAL TECH         Submittal Related To: Architectural       Attachment: Catalogue       Samples         Submittal Related To: Architectural       Architectural       HVAC       FIRE       Elec.       Plumbing         Submittal Related To: Architectural       Structural       HVAC       FIRE       Elec.       Plumbing         Submittal Related To: Architectural       Structural       HVAC       FIRE       Elec.       Plumbing         Submittal Related To: Architectural       Species       Counity of Origin       Trade Mark       Descript	PLOT 118		T ZAYED WE		WY NITE YOUN وایت یانغ	WH		J	ين	
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SSUED BY:       M/S.JAZAL TECH         Type:       Sub-contractor       Others       Attachment: Catalogue       Samples         Submittal Related To:       Architectural       Structural       HVAC       FIRE       Elec.       Plumbing         Tick (V) box whore applicable.       MEP       MEP       No       N/A *Con         Submittal Descriptions: Comments complied and attached       Shortlisted Supplier: Yes       No       N/A *Con         Submittal Descriptions: Comments complied and attached       Origin       Trade Mark       Description of Items         1.       26/1       07570-Coated Feamed       Under Statistical Supplier: Yes       No       N/A *Con         1.       26/1       07570-Coated Feamed       Under Statistical Works Submittal new proceed in cooperating & Planter       Works LLC for Roof         1.       26/1       07570-Coated Feamed       Under Statistical Supplice: Yes       Waterproofing & Planter         1.       26/1       07570-Coated Feamed       Under Statistical Supplice: Yes       Waterproofing & Planter         1.       26/1       07570-Coated Feamed       Under Statistical Supplice: Yes       Waterproofing & Planter         Yes       No       07570-Coated Feamed       Poster Statistical Yes       Waterproofing & Planter         Yes					-				-	
Type:       Sub-contractor       Others       Attachment: Catalogue       Samples         Submittal Related To:       Architectural       Structural       HVAC       FIRE       Elec.       Plumbing         Tick (v) box where applicable.       MEP       MEP       MEP         Submittal Descriptions: Comments complied and attached       Shortilated Supplier: Yes       No       N/A *Con         Submittal Descriptions: Comments complied and attached       Specs.       Country of Origin       Trade Mark       Description of Items         1.       26/1       07570-Coated Foamed       Understand       Pre-Qualification of COMPACT insulation         1.       26/1       07570-Coated Foamed       Understand       Waterproofing & Pare-Waltation         1.       26/1       07570-Coated Foamed       Understand       Waterproofing & Pare-Qualification of COMPACT insulation         1.       26/1       07570-Coated Foamed       Understand       Waterproofing & Pare-Waltation         1.       26/1       07570-Coated Foamed       Understand       Waterproofing & Pare-Qualification of COMPACT insulation         1.       26/1       07570-Coated Foamed       Understand       Waterproofing & Planter         Net approved to ubmittal may proceed       Action by WYE:       Dater coa-12 - Mare       REC	-						ECH	JAZAL T	M/S	SSUED BY:
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Submittal Related To:       Architectural       Structural       HVAC       FIRE       Elec.       Plumbing         Tick (v) box where applicable.       MEP       Shortfisted Supplier:       Yes       No       N/A *Cor         Submittal Descriptions: Comments complied and attached       Shortfisted Supplier:       Yes       No       N/A *Cor         Submittal Descriptions: Comments complied and attached       Shortfisted Supplier:       Yes       Description of Items         S. No.       BOQ Items       Specs.       Country of Origin       Trade Mark       Description of Items         1.       26/1       07570-Coated Fearmed Roofing.02930-Exterior Plants       Waterproofing System, Wet Areas       Waterproofing System, Wet Areas         For Contractor:       Name:       New proved vibin owneast 12900 for Using a starter waterproofing a Planter waterproofing a Plante	Others			I Latak	ers Alla			contractor	Sub-	Type:
Tick (v) box where applicable.     MEP       Tick (v) box where applicable.     MEP       Shortlisted Supplier: Yes     No     N/A "Cor       Submittel Descriptions: Comments complied and attached     Shortlisted Supplier: Yes     No     N/A "Cor       Submittel Descriptions: Comments complied and attached     Shortlisted Supplier: Yes     No     N/A "Cor       Submittel Descriptions: Comments complied and attached     Shortlisted Supplier: Yes     No     N/A "Cor       1.     26/1     07570-Coated Feamed Roofing.02930-Exterior Plants     Pre-Qualification of COMPACT insulation Works LLC for Roof Waterproofing System, Wet Areas       1.     26/1     07570-Coated Feamed Roofing.02930-Exterior Plants     Pre-Qualification of COMPACT insulation Works LLC for Roof Waterproofing & Planter waterproofing & Plant		lec. Plumbing	FIRE	HVAC	Structural	bitectural	Arch		ed To:	Submittal Rela
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CONSTRUCTION OF PROP	OSED AL GHARE	IIA (LULU	) HYPERMA	RKET IN MA	DINA	TZAYED WESTER	RN RE	GION, PLOT	18
	MATER	IAL S	UBMI	TAL	_				
		PROJE	CT NO.	REV.		DATE		AUTHOR	
RANSMITTAL NO. JEC-590-MS-0	3ML-047	C5	590	00	1	26-03-2018	M	S JAZAL TE	CH
					T	SUBMITTED FOR	r.		
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People of Carolina or					Ī	APPROVAL/COM	MENT	S	/
vesident Engineer.					ľ	CONSTRUCTION			
//S White Young					ſ	PERMIT			
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						RETURNED BACI	ĸ		
SUED BY:M/S.JAZAL TECH E	ngineering & Bu	ilding Co	ontracting	L.L.C					
Jomittal Description: Estidan	na approval atta	ched.		MATTOIA			1100	- Puller	
WATERIALS AS PROPOSED	BY CONTRACTOR	1 Band		MATERIA	ALS AS	PER SPECIFICATIO	N/BO(	U/DWGS	
Description:	Manufacture/ Origin	ew Stat us	Description: Spec		Specs REf		Manufactur e/ Origin	Review Statu	
Roof Water proofing System (Combo system)- List of material and Manufacturer attached	Compact Insulation,UAE	00	Roof Wa System-	ter proofi Combo Sys	ng stem	07570-Coate Foamed Roofing	ed	Compact Insulation ,UAE	00
NgaRatesh		1031	8	RECIPIENT'S	SIGN	ATURE: COR	VISO A	2018	
Engineer comments:	Aby 7 172080					they a	00	N La	
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Engineer Representative:		4	Sign	ature:	>	2	Dat 	2018	
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Page 1 of 1	py up		No	1. 00	ch	allhe use	L	WYE-JG-MS	Rev.00 X





# MATERIAL SUBMITTAL

Aconex Ref. No.   I	Rev	MIN-SIX-PW-CW-M	MT-22001	02			30 May 2018	
Project Name	Masdar	Institute Neighbourho	bod					
Subject	Material	Submittal for Roof Wate	er Proofing	and Insula	tion W	orks		
Material Sample Ref	MIN-SI)	-PW-CW-MA-22001(02	2)	Disciplin	e	CW-Civil Works		
Your Reference				Block		PW-Project Wide		
Reason for Issue	Issued f	or Review		From:	SIX	CONSTRUCT CO. LTD	).	
To: HILL INT	ERNATIC	DNAL INC.		Cc:	Mr.	Mr. Tamer El Bary (MUBADALA CMS)		
MATERIAL DETAIL	S		Contraction of					
Material Name		Compact Roof Syster	m					
Model   Dimension							Contraction of the second	
Specification & Clause	e	Sprayed Polyurethan	e Foam Ro	ofing Syste	em (Se	ction 075700)	Stratt and a strategy	
Drawing Reference	<u> </u>				2001 A.C.10	[3]	et and 2	
BOQ Reference						121	A Start Start	
Material Specified		Spraved Polyurethan	e Foam Ro	ofing Syste	em	(*)	AD BET SHOW ON ON	
Material Proposed		Sprayed Polyurethan	e Foam Ro	ofing Syste	em (Co	mpact Roof System)	ACT-MUMPLE	
Supplier Details		Compact Insulation V	Vorks L.L.C	., P.O. Box	c 8401	, Mussafah, Abu Dhabi		
Manufacturer Details	-	Compact Insulation V	Vorks L.L.C	., P.O. Box	c 8401	, Mussafah, Abu Dhabi		
Other Information								
		S Drawings	Copy	of related Spe	CS.	Compliance Statement	Material Sample	
Enclosure		C clamige						
		S Catalog / Data Sheet		alification		Is Test Certificate	& Others	
Deepak Raj QA/QC Engineer	atif	Hilal Salma Package M	an Ianager	A	/	SIX C P.O.E MASDAR INSTIT	شركة سكس كونستراكت الم CONSTRUCT CO. LTD. Jox: 226, Abu Dhabi - U.A.E. TUTE NEIGNBOURHOOD	
COMPARENTED STATE	SALA	AECOM'S COMME	NTS	1		D	IGITAL STAMP	
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MPLOYER : M/s AL AIN PROPERTIES ONSULTANT : GA Architects & Engineer ONTRACTOR : POLENSKY & ZOELLNER	BATE : : 28.11.2017 Reference. No. : 855-C-MAT-67 ABU DHABI WILL SHEET 1 OF 1
	MATERIAL SUBMITTAL
HIS SUBMITTAL IS INTENDED FOR INCK AS APPROPRIATE) TRADES	Architectural Civil Mechanical Electrical Others
TYPE:	SAMPLE
ESCRIPTION OF MATERIAL	Compact Roof - WaterProofing & Thermal Insulation System
IPEGIFICATION OF CONTRACT DOCUMENT REPERENCE IANUFACTURER (Name, Address & Country of Orioin)	BASE - Elastospray, Steico-Bitumen, C25/10 - 25N/mm ² (OPC+Fiber) Screed
	Al Marian Al Ahmar - Crescoat BRE 4010, Cresbond PVA, Cresbond SBR,
	Dr.Fixit - Unibond PVA 201, PU Sealant, Polybit - Polyflex
SUPPLIER AND/OR LOCAL AGENT (CONTACT NUMBER)	Roof
ESCRIPTION OF SAMPLE	: Physical Samples Attached
PECIFICATION COMPARISON SHEET	: Compliance Statement Attached in Section 2
COMPARISON IN CASE OF ALTERNATE SUBMITTAL	Date Charte Attracted in Continue 5
ECHNICAL DETAIL	: Data Sheets Attached in Section 5
	ASIS/D
he contraction: In certify that this automitted material are ableity samplifing with the Contract Deco	ments assay! he for deviations specified in the approximation of the statements
SSUED BY: POLENSKY & ZOELLNER ABU DHA	SI W.LL STAMP7 RECEIVED BY: , C.A Architecto & Engineers (GA)
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test.	Z 7 NOV ZUM
Andress Erienbusch	HACEDVED BY
DATE: 25.11.2017	DATE
TO: CONTRACTOR	TAL HAVE BEEN DEVEWED AND GIVEN THE ADDITION PROFESSION AS NOTED BELOW:
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CONSULTANT'S Remarks	
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STAMP Project No. 1.171	STAMP: OF MA SHERN LAW
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	Ma	aterial Approval	Form No:01				
Date	21-Feb-17	Transmittal No: AAC/C/	internet in the second s				
Ref/Contr. No:	AACC/BH-CEC/2017						
Project Name	Proposed Food and Beverage Pump room, Substation and C	Manufacturing Unit Comprises o Compound wall on Plot no.91A &	f Closed Shed with Office Block, Guard Block, 91B, KHIA8, KIZAD Abu Dhabi, UAE				
Client	Binghatti Holdings Limited						
Consultant	Capital Engineering Consultancy LLC						
Contractor	Al Aryaf Construction Co. LLC						
Type of docume Material s Submittal Detai	ent:- submittal Method Staten	nent V Prequalification	Schedule				
No	Document Description	Rev	Samples				
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These are transmi Your Inform We certify that t Submitted By : E Consultants Com	itted for: mation V Approval he above documents have b Engr.ANAS KHALID	Checking been coordinated Signature:	Dat 21-Feb-17				
These are transmi Your Inform We certify that t Submitted By : E Consultants Com Do cume	itted for: mation Approval the above documents have b Engr.ANAS KHALID iments the Submitted L interts the Submitted L interts the Submitted L interts the Submitted L interts the Submitted L	Checking been coordinated Signature: I. halue not marte Alacheed clocuments	Dat 21-Feb-17				
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PROJECT SUBMITTALS INTERNAL REVIEW FORM



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andori	SPEC	Yes	DX/ -			NIA L
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oulow	Comments & Apr	oroval		1.0	Sign-off Date:	
1 Nol	Name	Designation	Comments			Signature
Y	usuf Rupawala	Chief Engineer- Civil & Contracting	water test shall be done wated	cs K	er speed	the
D	ilip kumar	Project Managar	Cased on BASE condimention form is acceptable, where aspect over farm is munitioned whereas	propos	y attached yelic workerpo lod is Bittom	aus Ary
s	ihan Rasheed	Senior Projects Engineer	1. 10 years experientes warming alon 2. Follow apply manudates second 2. EDMPLY EOTIOD-MA Requ	ndation lation	D & Physico &	12/04/1
	Sojan Chacko	e Projects Engineer	Consultant to onsure all as per manufacturer ree	l sys corre	ten layer indations to be	5
			Provided (10 years). Contractor to strictly comments by consultant	fo llo Z. C	n the Chent	12/4/18
	Subash P	Mech. Engineer		-		
_	Abhinand M P	Senior Elec. Engir	ee.			
	Jerrin Mathew	Elec. Engineer			-	
App	adaruddin KC	Development Mar	adel		Research Insulation	AN DOM NO AND LLO

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			IM CONT. CO.
Request for App	roval of Documen	ts (DOC)	FM 09-30
PROJECT Residen Khalifa CONSULTANT Archite	tial Building of Mr. Othman Ha City A Acture & Planning Group	i Abdullah Khori, Sec	tor SE26-1, Plot No C20 M-APG-DOC- 79
CONTRACTOR Hashim	Contracting & General	Revision : 00	
MEP-CONTRACTOR : Compac	ct Insulation Works LLC	Submittal Date : 25/0	1/2018 Architecture &
Architecture Stru	cture Electrical	HVA	C FILF NEF 4440
Plumbing Fire	Fighting Others	Roofing System	NA: SIMIT DATE
S/N Description	Ref. Spec / BOQ / Dwg.	Specified Make	Proposed Make
01 Roofing System Technical submittal	Bill No. 7 Page 7.2		Aluky Do 2010
Attached: Sample C Registers / License Reason for change (if any):	atalogues SC Compliance S es Compliance S	al Charts Charts Others	Inces of Projects
Project Manager Date	Proj-Co-ord / Site Engr.	Project	Darwish 23/01/18 Darwish Date
		1 mm	
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FOR CONSULTANT'S USE Neither the Client's Representatives approval neither the client's Representatives approval neither the contract; and it shall not con Approved Approved COMMENTS	Received by or his failure to give such approval sha stitute an authorization for any increas d with Comments	I in any way relieve the Cont a in the contract price or cont Revise and Resubm.	Date ractor of his obligations and tract time. it <b>Rejected</b>
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FM 09-30 Request for Approval of Documents (DOC)



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Material Submittal Form

Record Reference	e: AM/MBZ/MS/CIV/	ARC/129	Date: 19/05/2016				
Project Details: Design, Construct, Completion and Maintenance of School in Mohammed Bin Zayed City		mpletion and Bin Zayed City	Musanada's Project Number: ED-1-05-53370-05-C				
Project Name: Al	bu Dhabi Future Schoo	ols Program - Phase 6 .	Package 5 (MBZ School)				
Client: Abu Dhabi Education Council			Engineer AT STWEIDI ENGINEERIDIG CONSULTATION				
Contractor: AL M	EZIN GENERAL CO	NTRACTING	CONSULTANTS				
IR No:			Rev No :01				
Discipline	Civil	Architecture	Mechanical     Electrical     Others				

Material Detail : Compact.	Roof - Waterproofing & Thermal Insulation System	List of Enclosure
Item Description	Compact Roof - Waterproofing & Thermal Insulation System	Vendor's Technical Literature
Specs.Ref. BOQ. Ref. Drwg.Ref.	Arch Specification No Section 072400 BOQ. No, 2.17 Drawing No. Arch Drawings	Sustainability Compliance Previous Test Results. Copy of the Related Specs.
Material Specified	meeting	List of Previous Projects Done.
Material Proposed	Compact Roof - Waterproofing & ZhermHDCHWED	Comers
Manufacturer / Local Supplier	Compact Insulation Works LL	RECEIVED
Reason for Alternative	AD. F.S.P - Phase 6	* 2 0 JUN 2016
Remarks	Package -5, MBZ	Mill School
We contline that the met of the		

certify that the material submitted herewith has been reviewed in details and in accordance with the Contract Drawing and Specifications except as otherwise stated here above.

Discipline Engineer:	HSE	The It	MEP		Technical	
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A- Approved	Approved with Comment esubmit		Revise an	d ReAPPRO	VED AS NOT	
Comments: Rafe to the (	Commonies un the Co	maning 5	krot	20/06/2016	2	29
Reviewed By & Signature: (The I	Engineer)	Approve	d By & Sig	nature: (The E	Engineer)	2F
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- Project : Abu Dhabi future school Program-phase 6, Package 5 (MBZ School) Subject
  - : Material Submittal for Waterproofing & Thermal Insulation
- Ref. : AM/MBZ/MS/CIVARC/129 - Rev No: 01 : 20 Jun 2016
- Submission Date **Issue Date**
- : 25 Jun 2016

Approval Status/Remarks: Revise & Resubmit"R&R"

Comments Description:

- . Last Revision comments still valid.
- Contractor to submit his proposal according to the contract sub-clause No. 13.2 "Value Engineering".

ALL STRENTS 25/06/2016 135000 RE APPROVED 25/06/018 25-612016

to objection technically however have we Contractor MUST submit the benefits to the Employer you approval of the system in line with sub-clause 13:

AL.C RECEIVED AI MEZIN GENERAL CONT. 3 0 JUH 2016 ENGINEERING DEPARTMENT Signature:





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# Material Submittal

		P	1-		044	
Record Reference : AS	Q-3203/C/MAT-050	Rev-00	Dal	te : 12-May-2	U14	
Project Details :	Visite Danks Zanad History Or	Musanada	a Project Ni	umber :	operat Needs for	
Project Name: Special R Madinat Zayed Areas	Needs Centre - Zayed Higher On	Restant M	onanae : Mi	ISANADA	pecial Necus Iol	
Glient: Zayed Higher Org	anami Contracting Co. LLC	Engineer	Architectur	al Design &	Decoration - ADD	
Contractor : Asqaian G	eneral contracting co. LCC	endumen.	Alamoutar	ert presidit or c	Vegoradon - Acco	
3 Mard Copy & CD	B Ciuli D Architochura	[]	echanical	El Electrical	C) Others	
Discipline		LIM	Continuen		LI OUIGU	
Material Detail: Techni (Compact Waterproofing	cal Submittal for Compo Roof System}	Waterproofi	ng System	L	st of Enclosure	
Item Description	Technical Submittal for Compo System (Compact Waterproof) Polyurethane Insulation = 12 c w/m ² . k	> Roof Water ing System}, m, U-value =	proofing 0.17	Vendor's T Complianc Sustainabi	echnical Literature e Statement. lity Compliance. est Results. e Related Specs.	
Specs.Ref. BOQ, Ref. Drwg. Ref.	- Section 5 - Roofing & Waterproof - Bill No-05, Item No-F Architectural Drawings.	ing		Samples with Sample Tag. List of Previous Projects Done.		
Material Specified				Others		
Material Proposed	Compo Roof System { Compact	Waterproof	ng System)			
Manufacturer / Local Supplier	Compact Insulation Works LLC	1		1.	2.5	
Reason for Alternative			_	(-	1.	
Remarks	initial hereight as been reviewed in details	s and in accordar	nce with the Con	tract Drawing and	Specifications except at	
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	S	hop Drawing	Submittal	Form		
Record Referen	ce: ASQ-3203/C/S	DS-016	Rev-0	Date: 15-M	ay-2014	
Project Details:			Musanada's Project Number:-			
Project Name: Rehabilitation	Construction, Co	mpletion & Mainte	anance Of Ma	dinat Zayed C	enter Fo	r Care And
Client: Zayed Higher Organization for Humanitarian Care & Special Needs			Engineer: Ar Decoration	chitectural, Dee	lgning 8	
Contractor: Asqu	ilan General Contra	acting Co. LLC				
3 Hard Copy &	1 CD					
Discipline	Clvil	D Architecture	C) Me	chanical II Ele	ctrical	C Others

5, No.	Drawing No.	Rev.	Description	Bemarks
01	D101	0	LOW ROOF & TOP ROOF PLAN, ROOF WATERPROOFING DRAINAGE SLOP DETAILS	
02	D102	0	COMPACT ROOF TYPICAL TERMINATION DETAILS	
03				
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06	-	-	-	a martine and the
Cont	actor Signatura:	S TOT WIRD	DATE: 15/05/2014	
Disci	pline QA/ QC	RECEIVER	MEP	Construction Manager:
The E	Approved B - App Approved with Comment/Resubinents: Follow the stand	consistents	injichon as pr	it 🗌 D- Rejected
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R	EQUES	FOR A	PPROV	AL OF	MATERI	AL		
TRADE:	OTHER:		н (	MECHANI	CAL ELECT	RICAL		
REF. No: TER-DA	AS-RAM-C-0034	-R0						
MATERIAL DESCRIPT	NON: Material &	Sample Submit	tal of Compact I	Roof System	(Alternative for Ro	of Waterproofing)		
SUPPI	IER: Compact In	sulation Works						
MANUFACTUR	RER : Compact In	sulation Works						
OR	GIN: U.A.E.							
ATTACHME	NTS:	SAMPLE TEST REPORTS	CERTIFICA	et L tes Z	MSDS OTHER: Warranty For	mat, Method Statemen		
(No	tes:) No notes	No notes						
			FOR TERNA:					
WE CONFIRM T	HAT THE SUBMITTED	MATERIAL COMPLIES	SWITH THE RELATED	PROJECT SPECIFI	CATIONS AND CONTRACT	TUAL OBLIGATIONS		
Confirmed by: VAN	IA TOGIA - HEAD	O OF TECHNICA	L DEPARTMENT	Signatur	e Joyan Dat	e: 29-Sep-16		
Submitted by: KOS	Submitted by: KOSTAS PAPAKOSTOPOULOS - PROJECT MANAGER							
	FOR VAMED:							
		S	UBMITTAL STA	TUS:	4 S.M. R.			
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PACT INSULATION WO

FINE ARTS Consulting Engineering

Abu Dhabi Tel: 02-6711612 Fax: 02-6717670



FOURTH DIMENSION FOURTH DIMENSION GENERAL CONTRACTING LLC في ورث دايم نشين للمقادم، م

PR	OJECT:	BUILDING IN MO	OHD. B	IN ZAYED CITY	PLO	DT NO:	Sec. ME-10, Plot C-9
EIV	IPLOYER:	FOURTH DIMEN	ISION	GENERAL CONTRACTING LLC	PR(	D. NO:	P023
CC	ONTRACTOR	SUBMITTAL			DO	CUMENT'S ENC	LOSED:
	Prequalification			Material/Technical Submittal		Subcontractor / S Drawings	Supplier Procument
	Shop Drawing Sub	mittal	80	Sample Submittal	88	Technical Literati	Jre
	Other (Please State	e):				Material Data Sh	eets / Specifications
De	scription: Water Insula	Proofing & Thermal	ref r	no.: P023-C-095		Copy of Related S	specifications
3 S Roi	ets of Technical of and Sample fr	Submittal for Waterpro om Compact Insulatior	oofing 8 h Work	Thermal Insulation System for LLC.		Test Certificates	
				× .		Design Calculatio	ns
					D	Shop Drawings	
	Please refer to Dra	wing / Submittal Sheet Att	ached	and the second	B	Samples	
We with	hereby confirm t n the contract Do	hat that this submittal cumentation unless sta	has bee nted oth	en prepared in accordance ierwise above,		Other (Specify)	
IG	<u>NATURE:</u> Nageh Soliman	ı - Project Manager(	DATE	7-NEOBIRTH DIMENSION	DAT	E APPROVAL:	
:01	NSULTANT'S CO	DMMENTS:	-	PO20E P.O.Box 11353 - Abu Dhabi, UAE	D	Approved	

CONSULTANT'S COMMENTS:	P.O.éoa 11363 - Abu Elhebi, UAE Tel : 633 1980 - Fax : 633 0819	Q	Approved	
to be Mateling M	SHL UPC	ø	Approved with Comments	
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SIGNATURE: Tel: 02-67 FINE APITS	CONS. ENG. OFFICE		Other (Specify)	
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العين للاستشارات الهندسية ... ... Al Ain Consulting Engineers **F**ALFIRAS ديوان ولي العمد CROWN PRINCE COURT SUB CONTRACTORS APPROVAL FORM CPC -15091-C1 File No. Project Name: Mosque at MBZ City - Z6 P1 AF164/W.P/RFA/012-IR/Jun2016 Ref No. Consultant: Al Ain Consulting Engineers 11-Jun-16 Date: Contractor: Al Firas General Contracting Est Type of Work: Combo Roof Water proofing 76 Sub Contractor Name: M/s. Compact Insulation Works 1 5 JUN 2816 **Company Profile Contents:** valid trade license pregualification RECEIVED previous approva organization chart CONTRACTOR : 3 sets of pregualification for thecombo roof system water proofing CD attached Mob. No. 056 4860240 Originator of the submittal/ Eng.: Irshade 11-Jun-16 Date: Contractor Authorizes signature: CONSULTANT COMMENTS: AL FITAS GANGERI CANTERSING P.O. Bus 4490, Alin Dhabi * Approved subject to. * Sub Contractor Program Should Comply with the approved baseline Program. * Shop drawing approval. I Mathed at Superint approval. * Mathed of Statement approval ... * Mock up samp 12 approval. * Estidama approval. Approval Status: Approved Subject to Rejected Reviewer of the submittal/ Eng : Date: Consultant Authorizes signature: All the supportive documents must be presented and filed at project site. ( Approval does not relieve the Contractor from his contractual obligations and responsibilities) 23. _C87/ C2

Salary Barris Constraints	MATERIAL APPROVA	L FORM	Carlos Barrows
Project Name: Construction of Mo	sque at MBZ City - Z6 P1	File No.	CPC -15091-C1
onsultant: Al Ain Consulting Eng	ineers	Ref No.	AF164/W.PIRFA/014- IR/Jun2016
Contractor: Al Firas General Contr	acting Est	Stillin Date les	18-Jun-16
ype of Work: Combo Roof water p	roofing system	26 19 htt	8
upplier Name: M/s. Compact Insula	tion works	RECEIVED	j
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	organization chart	previous approvals	
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سركاوم - البرع أيو ظليسي



#### ESTIDAMA MATERIAL COMPLIANCE (Ref. PBRS v 1.0)

Contract Title	Zone1 - Main Educational Building Extension School of Engineering	Ref.	EMC1643/AD506/16
From	Consulting Engineering Office	Rev.	01 - Version 2
То	Alb-Tec Construction & Development LLC	Date	16/May/2016
Manufacturer	COMPACT INSULATION WORKS	Submittal Ref	MS-142
Description of Material	Combo-Roof System	Alternative	As per specification

S.No	Pearl Building Rating System Credit Reference	Applic	ability
1	IDP-R1 : Integrated Development Strategy	D Yes	D No.
2	IDP-R2 : Tenant Fit-Out Design & Construction Guide	C Yes	D No
3	IDP-R3 : Basic Commissioning	D Yes	D No
4	NS-R2 : Natural System Protection	D Yes	O No
5	NS-R3 : Natural Systems Design & Management Strategy	D Yes	O No
6	LBo-R3 : Outdoor Thermal Comfort Strategy	🗆 Yes	O No
7	LBi-R1 : Healthy Ventilation Delivery	0 Yes	O No
8	LBI-R2 : Smoking Control	🛛 Yes	O No
9	LBI-R3 : Legionella Prevention	🗆 Yes	O No
10	PW-R1: Minimum Interior Water Use Reduction	🗆 Yes	O No
11	PW-R2 : Exterior Water Monitoring	🛛 Yes	O No
12	RE-R1: Minimum Energy Performance	A Yes	O No
13	RE-R2 : Energy Monitoring & Reporting	D Yes	D No
14	RE-R3 : Ozone Impacts of Refrigerants & Fire Suppression Systems	D Yes	[] No
15	SM-R1 : Hazardous Materials Elimination	4Yes	D No
16	SM-R2 : Basic Construction Waste Management	🗆 Yes	D No
17	SM-R3 : Basic Operational Waste Management	D Yes	O No

PQP Review Comments: APPROVED based on U-Velue colculation. SHALL be considered the worst case as 0,199 W/m².K. - SE livery noter shall demonstrate the same - FLOOD TEST and Idness half be demonstrated further fixing Name: PQP no.: Signature: Date: 16- MAY 2016 ELENT CIRCAN A - Approved B - Approved as noted Work may proceed D - Not approved C - Revise and Resubmit Work may not proceed * Note: The above comments do not relieve the Constant from his obligation in the contract to ensure Any specifications deviations found subsequent to apploval are to be corrected by the Contractor for nformance to the Estidama specifications. e satisfaction of the Owner/ Engineer 1977 Siles Office CEOSignature: Issued by : CEO Date: 17 MAY 2016 Received by : Signature: Date:



	ABU DHABI UNIVERSITY HOLDING COMPANY (ADUHC) ZONE 2- CONSTRUCTION PROJECT	
	Abo Dhabi University Holding Company Holding Company H	
	MATERIAL SUBMITTAL	
	From : ALBATEC CONTRUCTION & DEVELOPMENT LLC MS No. : MS-0282-R00 (Contractor)	
	To : ARKONSULT ENGINEERING CONSULTANTS LLC Submittal Date : Tuesday, April 26, 2016 (Consultant)	
	PROJECTS: Bisad 2nd Floor Fitout	
	Division : Architectural Civil / Structural Mechanical Electrical Landscaping	
	Material : Manufacturer : Supplier :	
	COMPACT ROOF - WATERPROOFING AND THERMAL INSULATION SYSTEM AL MARJAN/XTRAMIX/BASE COMPACT INSULATION WORKS LLC	
	Attachments : Brochure Catalogue ( Guarantee Sample Vithers HC (3 sets) SC (1 set)	
	BOQ Reference : Specification Reference :	
	Location to be applied / placed : مراك الانشاء والتدري الانشاء والتدري	
	Submitted by (Contractor):	PS-
	Acknowledge Receipt of Submittal: Received by (Consultant):	ARK
	CONSULTANT REMARKS / COMMENTS :	NONS
Ĉ –	Action Taken : Approved Approved as noted Not Approved Purther information required	RUL
S	* submit prequalitications of sub-contractor.	21:
		žF
	Sanadhy (Consultant): Consultant): Date / Time: 27-4-2016	
R ARKON	SULT OF REMARKS / COMMENTS :	
ABU DHABI UNI	Action aken : Approved Approved as noted Not Approved Purther information required	
DEF:MS283	(13): (10 17 18 19 20 3)	
DATE: 26 4	RECEIVED B	
COPY A		
ARE	Signed by (Clientt) : Date / Time:	
S. Str.	Acknewedge Receipt of Remarks / Comments :	
S. Mech.	Received by Contractor: Date / Time:	
SE	and Million and Million	Sal
Elec. Insp.	Note: A To be submit justification and other related documents to be attached for Alternative Materials.	)*)
ADMIN TIME:	32950 C	sil
AL-Suba	mittal-3 1-1 Re	0.45



Ref : PEC/NTCC/P1361WR-TS-138-14 Date : Wednesday 20th April 2016

M/s National Transport & Contracting Co P.O.Box.: 35699 Abu Dhabi, UAE Tel : 00971 26725656 Fax : 00971 26723366

Project No	: P1361WR
Project	: Etihad Rail DB Accommodation Facility
Location	: Phase II in Mirfa City, Western Region.
NTCC Ref	: NTCC/S-187/MAT/CIV/002 REV 01
Submission Date	: 06 th April 2015
Actual Date	: 06 th April 2015
Subject	: Technical Submittal Waterproofing and Thermal Insulation System

Dear Sir,

Refer to above project and submittal; please be informed that above said submittal having reviewed by us as below.

### SUBMITTAL STATUS

APPROVED

APPROVED AS NOTED

REVISE & RESUBMIT

REJECTED

### NOTE:

a. Follow project specification.

This is for your information and action.

Best Regards,





ABU DHABI SHARJAH AL AIN RAS AL KHAIMAH CAIRO









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Project: Al Wajeha Al Bahria Mixed Use Phase II (P427) in Mirfa City, Western Region

SUBMITTAL APPROVAL FROM		Date: 05/04/2016
X MATERIAL	SHOP DRAWING	
APPROVAL SUBMITTAL NO	NTCC/S-187/MAT/CIV/002 (Re	w. 01]
ECIVIL JACAN MEP SUI 55	ARCH	OTHERS
FROM: National Transport & Contracting Company Contractor:	To: PIONEER Engineer	ing Consultancy LLC
Signature: Mr - Recella DAMSPORT & CONTRACTING		Mr. Samy Sayed
Supplied by Sub Contractor: Compani-Insulation Worky LLC,	Drawing no;	
MODEL NO: MANUFACTURER:	BOQ NO;	DESCRIPTION
LOCATION OF USE:		Technical Submittal:
	Compact Roof (V	Vaterproofing and Thermal Insulation System)
External Eothers		(Reply to Consultant's Comments)
CONTRACTOR MATERIAL ENGINEERI GAVQC		
ENCLOSURE NOS: 1 set Orig. Copy +1 Photo Copy + 1 CD	SUBMITTED FOR	RECEIVED BY CONSULTANT
Manufacturer Technical Data Booklet	I APPROVAL	
Catalogues	Roview & Comment	
Original Brochures	As Requested	
Specification / B.O.Q/Vendor List	Information Only	
Recent test Reports/Certificate	Record	
Warranty Certificate/Trade LicensedSO Certificate	Revised & Resubmittal	
Sample		
Quetation		
Compliance Check List		
Shop Drawings		
Complying Standards		bates;
	PIONEER Comments	
APPROVED Colland OTO C	CT Sper	in attal 1311.10
APPROVED AS NOTED	-	3.00
REVISE & RESUBMIT		X
REJECTED		(st Filler)
ON HOLD	Reviewer of the Submittal:	Eng
	Client Comments	Allow and the
APPROVED		and a state of the
APPROVED AS NOTED		
REVISE & RESUDMIT		
REJECTED		
ON HOLD		DATE
Distribution :  Owner Authority	SUB Cont.	RECEIVED BY:



DEC (Trurol
TECHNICAL / MATERIALS SUBMITTAL FORM
SUBMITTAL OF MATERIALS FOR APPROVAL All selections of this form must be completed and all copies of the relevant portions of the specifications, drawings, manufacturer's technical data, certification and test information must accompany this submittal. Where sections are not applicable to the items submitted the section must be marked "NOT APPLIC ABLE"
CONTRACTOR NAME : Nurol LLC
DESCRIPTION OF MATERIALS TO BE APPROVED: COMPLIANCE TO ESTIDAMA COMMENTS ON MATERIAL SUBMITTAL OF COMPACT ROOF (WATER PROOFING & THERMAL INSULATION SYSTEM)
A. Specification Section and Clause No. include relevant International Standards     (copies attached and highlighted)     B. Relevant Drawing(s) - (copies attached and marked)     : N/A     C. Manufacturer's Technical Literature and/or Drawings - (copies to be attached)     : YES     D. Test Results or other pertinent Certification - (copies to be attached)     . YES
MANUFACTURED PRODUCTS-
Name and address of Suppliers in UAE : M/s Compact Insulation Works L.1.C. Abu Dhabi- UAE
Name and Address of Manufacturers : Compact Insulation- UAE
SUBMITTED BY
KWV Project
Contractor's Project Manager: Engr. Omar Khodary Signature and Date 3 05-01-2016
REVIEWED BY DESIGN CONSULTANT
TECHNICAL / MATERIALS SUBMITTAL FORM         Interview of this form must be complexed and all copies of the relevant portions of the specifications, theories, theories and and an arched portion of the specifications, densings, munificatives'' is technical data, contribution and the indexed must be complexed and all topies of the relevant portions of the specifications, densings, munificatives'' is technical data.         OBECT NO       (Ind & C 108-KNL)       DATE:       05-01-2016       SUBMITTAL NO:       MURWED740-ARC000'       REV       01         NTRACTOR NAME :       Nurol LLC       Nurol LLC       REV       01         SCRIPTION OF MATERIALS       COMPLIANCE: TO ESTIDAMA COMMENTS ON MATERIAL SUBMITTAL OF COMPACT MOOP (WATER PROOPING a TEREMAL INSULATION SYSTEM)       REV       01         Specification Section and Lisuse No. include relevant International Standards       : N/A       N/A         (topies attached and marked)       : N/A       N/A         Relevant Dravingto - (copies attached)       : YES       N/A         Antifecture's Technical Literature and/or Drawings - (copies to be attached)       : YES       N/A         Murd Address of Manufacturers       : Compact Insulation- UAE       Signature and Date 105-01-2016         SUBMITTED BY         Intractor's Project Manage:         1, Proposed Roof material is acceptable for C 104 & S C 105 building 1, Proposed Roof material & installation and Inspection re
APPROVED BY EMPLOYED REPRESENTATIVE, SBK
Comments:  Comments:  Action  Action
Note: The above listed Contractor submittal(s) prepared for the above mentioned project have been examined with the resulting action as indicated. Approval of the submittal indicates only that no deviation from specific requirements of the contract documents has been found. Nothing in this approval shall be construed as revising, in any way, the requirements for a fully integrated and operable system as specified. Neither does an approval provide authorization to deviate from Contract Documents without specific designated approval for each such deviation.
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TE	CHNICAL / MATERIALS	SUBMITTAL FORM		
	SUBMITTAL OF MATH	RIALS FOR APPROVAL	all here and a local statement	
All selections of this form must b certification and test information "NOT APPIJCABLE"	e completed and all copies of the relevan must accompany this submittal. Where s	a portions of the specifications, draways, n extinus are not applicable to the items subm	nanufacturer's technical data, nitted the section must be marked	
CONTRACTOR NAME 1	DATE: 15-12-2015 SU	BMITTAL NO: MS#WD?#	AR SHARY REV IN	
DESCRIPTION OF MATERIALS TO BE APPROVED:	TECHNICAL SUBMITTAL OF ( INSULATION SYSTEM)	COMPACT ROOF (WATER PROOF)	ING & THERMAL	
A Specification Section and Clar (copies attached and highlight	ise No. include relevant International	I Standards : N/A		
<ol> <li>Relevant Drawing(s) - (copies</li> </ol>	stlached and marked)	: N/A		
Manufacturer's Technical Lite	rature and/or Drawings - (copies to b	be attached) : YES	+	
A SULLACTINE DEPODUC	contrainter (copies in or marine	. 165		
Name and address of Suppliers		at Incolution Washed LL C. also	DLAL UAP	
Name and Address of Manufast	All's Comp	activities that	PRIDE VAL	
Nume and Address of Manufactu	reis : Compact In	asulation- UAL	1	
	SUBMITT	TED BY	N	
		iller .	11 +	
Contractor's Project Manager:	Engr. Omar Khodary	144	C	
		Signature and Date 1	5-12-2015	
Comments: Code (B) Annes	REVIEWED BY DESI	GN CONSULTANT		
1. Estidama approval 2 .M	dock up to be tested.		Review Stamp	
farein f ontribite f education	in free		Action Lendy	
la m	21 110	1000 TKS 10 30-10		10
1, Revise and resubmit	U value calculation not		an North	
2. Roof water proofing	section should have		TANGRENA D	
dimension for all the e	lements	ENCHTERNIS CONS	Other E	
3. Provide manufactur	er confirmation letter for	PROIECT	IS SHE	
insulation to be asbes	los free	Engr. Galal Sakran, Project Manag	DEF	
	APPROVED BY EMPLOYEE	REPRESENTATIVE, SBK		í
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for Employer Representative	0	6 D	E Other	
Note: The above listed Contractor	submittal(s) prepared for the above	e oc Date e mentioned project have been examin	ned with the resulting action as	1
indicated Approval of the submit Nothing in this approval shall be of Neither dues an approval provide	al indicates only that no deviation f instrued as revising, in any way, the authorization to deviate from Cont	from specific requirements of the cont c requirements for a fully integrated at tract Documents without specific des	tract documents has been found nd operable system as specified, agnated approval for each such	
deviation.	TIVITI	CEGEWEA	6	1
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			ACT INSULAT	TON WORKS
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# Material Submittal Approval



Proje	ect Title: Sudan Embassy proj ect code: J-139	iect	Client : Su Contractor : Al	dan Embassy Ahd General Cont	. & Maint. Co.	шс
	Submittal Ref No	R	evision	Date	of Submittal	
	MS-RS-02-RS		00			
SR	Material name	Descrip	tion of work	Company	Country of	Noo
#	Roof system	Compact Roof syst	em	Compact Insulation Wrk	UAE	3
2						
3						
_						
_						
Name Date:	e: Eng. Youser Owaida	× ×	Name: Date:	Signa	ture:	
Name Date: Appro Name	e: Eng. Youser Owaida Signature: oved for Submittal by - PQP C e: Signature:	EO:	Name: Date: <i>Stamp:</i>	Signa	ture:	
Name Date: Appro Name For U:	e: Eng. Youser Owaida Signature: oved for Submittal by - PQP C e: Signature: se by Consultant	EO:	Name: Date: <i>Stamp:</i>	Signa	ture:	
Name Appro Name For U: Comr	e: Eng. Youser Owaida Signature: oved for Submittal by - PQP C e: Signature: se by Consultant ments:	EO:	Name: Date: <i>Stamp:</i>	Signa	ture:	
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110	TRANSMITTA	REFERENCE NO : ABP83-MT	REFERENCE NO : ABP83-MTLSUB-069R1			
		DATE : 20-January-2016	DATE : 20-January-2016			
	FROM : : Al Bani General Contracting &	TITLE : Material Submittal	TITLE : Material Submittal			
	General Maintenance Establishme	nt				
	TO : Architects Crang & Boake Inc.	SUBTITLE : Civil	G A COATRACTURE			
	ATTN : Mr. John Mathew	PACKAGE : 5017	Section Contraction			
	Classification:	Type:	Contraction of the second seco			
	1. Architectural	Material Submittal	0 1 FEB 2016			
	2. Civil 3. Mechanical	Method Statement	Not?			
	4. Electrical	Design Data / Calculation	1995 In			
	5. Plumbing	Shop Drawing				
	6. Fire Fighting	Others :				
	Relevant Document :					
		COMPONENT				
	No TYPE	SUBJECT / CONTENT	Remarks			
	1 Material Submittal for: R	Coop Waterproofing & Thermal Insulation	3 Copies			
	2 Subcontractor.	compact insulation works LLC	with Sample			
		RESPONSES REQUIRED				
	For Record and File	Note	_			
	For Approval / Comments	Further Processing				
	For Information Issue Directive					
	For Receiving Action	Others				
		CONSULTANT REVIEW				
	Approved Approved w	vith Comments 🛛 Revise and Resubmit	Rejected			
	Not Reviewed Not Require	ed				
	A tinety resto our No	officition for CONSPACY ROOF	= water molo			
	and Thermal insul	Paties Spelens				
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	( ) All regained Tests	to be corricd out at	Site in acco			
	With Specification on	I approved method Stal	ements.			
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	and Workenenship	for a period of "20 ye	and Jon th			
	clats of Sabs	fantial completion.	6			
		Data				
	Alerta Signatura					
	Hame & Signature :	Date.				
1	Hame & Signature :	RECEIVED BY CONSULTANT:	all.			
1	BOROX: 45 CONTRACTOR:	RECEIVED BY CONSULTANT: 30	01/16.			
***	P.O.BOX:45667 Jawed Rahhal Abu Dhable Project Engineer	RECEIVED BY CONSULTANT:	01/16.			
11 + 10	Name & Signature : HSUED BY CONTRACTOR: PO.BOX:45667 Jawad Rahhal Abu Dhabl Project Engineer U.A.E. SERVITURE / DATE	RECEIVED BY CONSULTANT: 30 30 30 30 30 30 30 30 30 30 30 30 30 3	01/16.			
17 * Hor	Name & Signature : HSUED BY CONTRACTOR: P.O.BOX:45667 Frivad Rahhal Abu Dhabl Project Engineer U.A.E. SENATURE / DATE	RECEIVED BY CONSULTANT:	DI 16 . Transmitt			
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11 × 11	P.O.BOX:45667 P.O.BOX:45667 Project Engineer U.A.E. SCONTURE / DATE	RECEIVED BY CONSULTANT:	DI 16 Transmitt			
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1011 × 21	Name & Signature : HSUED BY CONTRACTOR: P.O.BOX:45667 Frivad Rahhal Abu Dhabl Project Engineer U.A.E. SCONTURE / DATE	RECEIVED BY CONSULTANT:	Dt 16 Transmitt			

Contractor: Al B: Gen		i General Contracting and Il Maintenance Establishment	WIN CONTRACTOR	
Consultant:	Archit	ects Crang and Boake Inc.	Ref. No.: ABP83-MTLSUB-069R1	
Project Nam	ne: Pallet	Middle East Industrial Building, Kizad	Date: 20 January 2016	
11-2-6		COMPONENT		
S.N.	LOCATION	SUBJECT/CONTENT	MANUFACTURER/SUPPLIER	
1	Roof	Roof Waterproofing & Thermal Insulation	Compact Insulation Works LLC	

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	MATERIAL APPROVA	L FORM
Project Name:Family Park Mos	que	File No.P33
Consultant:Al Ain Consulting En	gineers	Ref No.RGC/09/2015
Contractor: Raslan General Con	tracting	Date: 17/09/2015
Type of Work: Waterproofing (R	oofing System)	
Sub Contractor Name: Compact	Insullation Works L.L.C	
Company Profile Contents:	D prequalification	valid trade license
	I organization chart	🗵 provious approvals
CONTRACTOR :		
Raslan General Co	ontracting	
Contractor Authorizes signature CONSULTANT COMMENTS: - Sprayed polyure - Meeting with the Supporting tender Approval station ce station - Commentent + Reviewer of the submittal/Eng Consultant Authorizes signature	have to an Layer thick sicto be held. dopuments to be p ment with the spects to the papanner	Date: 17/09/2015 Cnew to be in creased to 130 m to be provided to be provided to be provided to be Valified Date: 21/09/2015
All the supportive documents must	be presented and filed at project site ontractor from his contractual obligat	e. RECEIVED 19 SEP 20 5 ions and responsibilities)

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		MATERIAL APP	ROVAL FORM	No. of Concession, name
Project Name:	Construction for	Harra Mosoua	Reine	NA7 700 0110 ME 017
Consultant:	Al Ain Consulting Engineers L.L.C. (ACE)			HA2-20C-P110-M5-017
Contractor:	Z General Contracting Company LLC (ZGC)			2
Type of Work: Materials submi	ittals for Roof wat	er proofing	Date	26 -27/06/2015
Sub Contractor I	Name: M/s Comp	act		
Company Profile	e Contents:	prequalification prequalification organization chart	valid trad	le license approvals
CONTRACTOR :		la la companya da la		
Driginator of the	submittal/ Eng. IB	RAHIM	Mob. No	ha
Contractor Autho	orizes signature:		Data	22 in al 2016
* *	provid the	e Manufactures 1. e penvious app	notee certil	ficte with atteast 250
↔ ₩ ₩ pproval Status:	Provid the follow the provid the follow t	e Manufactures 1. e Manufactures 1. e penvious app tu Typical for	notee certil natructions ( rovels notation de	ficte with atteast 250 20m Method of state 2tails of Ak.
→ + + + + + + + + + + + + +	Provid the follow the provid the follow t	e Manufactures il e Manufactures il e pensions app tu Typical four B.Approved as noted [] C REMS	ntee certil netructions rovels netation de	Liete with atteast 250 20m Method of state 2tails of Ak.
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Levelved by the of Name:	Provid the fallow the fallow the fallow the fallow the fallow the prizes signature: contractor	te Original Gure e Manufactures 1 e penhaus app to Typical for B:Approved as noted C Revis Signture be presented and filed at project	ntee certit	Liete with atteast 25 20m Method of State 2tails of Ak. Date: 29/6/2015 Date:
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Ref: PEC/NTCC/P1352AD-TS-173-14 : 15th April, 2015

M/s National Transport & Contracting Co P.O.Box.: 35699 Abu Dhabi, UAE Tel: 00971 26725656 Fax: 00971 26723366

Attention : EngWael : Project Director

Project No: 1352 Project : Construction, Completion, Handover of 4 building (G+3) Retail, Residentialand 10 Villas (G+1) Al Wajeha Mixed Use. Location : AL Mirfa City in Western Region, Abu Dhabi, UAE Subject : Method Statement for Compact Roof Water Proofing Sytem.

Dear Sir,

With reference to the above mentioned subject and further to your letter Ref No NTCC/S-182/MS/CVL/006 dated 12th April 2015, and having reviewed by us, please be note that it is **APPROVED AS NOTED** as status below.

- a. Subject to estidama requirements.
- b. Follow project specifications.

This is for your information and action.

Samy Sayed General Manager Pioneer Engineering Consultancy L.L.C.



Tel:+971 2 4466991 - Fax:+971 2 4466992 E-mall:pioneer@pioneereng.ae /info@pecuae.ae Websitc:www.pioneereng.ae

Transmission Method:











## Project: Al Wajeha Al Bahria Mixed Use Project in Mirfa City, Western Region



SUBMI	TTAL APPROVAL FROM	2550	Dale: 12/4/2015
MATERIAL		SHOP DRAWING	SUBCONTRACTOR
	APPROVAL SUBMI	TTAL NO : NTCC/6-182/MS/CVL/006 (Re	ev. 00)
CIVIL.	МЕР	ARCH	OTHERS
FROM: National Transport & Project Manager : Mr. V Signature:	A Contracting company of the Ashour	To: PIONEER Engineer	ring Consultancy LLC
Construction Carl Construction	Children and A Paulon and	CTIME Drawlog pg:	
Supplied by Sub Contractor:	Compact Insulation Work CommSPORT & CONTRO	BOQ NO;	
ANUFACTURER:			DESCRIPTION
COCATION OF USE:		Method State	ement for Compact Roof Water Proofing System
X Externet			
RACTOR MATERIAL EN	GINEER/ QAIQC		
Shyture:	pro-		
ENCLOSU	RE NOS: 1 set Original Hard Copy + Photo Copy	SUBMITTED FOR	RECEIVED BY CONSULTANT
Manufacturer Technical	Data Booklet	I APPROVAL	
Catalogues		Review & Comment	
Original Brochures		As Requested	
Specification / B.O.Q/Ver	ndor List	Information Only	5. /
Recent lest Reports/Cert	ificale	Record	
Warranty Certificate/Trav	te License//SO Certificate	Revised & Resubmittal	
Samola			
Compliance Check List			
Chies Drawless			
Completion Standards			Date;
		PIONEER Comments	
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APPROVED AS NOTED	Ba Fall	a priech	specy
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REJECTED			1. S
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	10010	Consultant Authorizes Sig	mature C JATE
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21-FEB-2005 18:27 FROM MAZCOT TO 6589703 P.02/02 متموعة العمارة والتخطيط ARCHITECTURE & PLANNING GROUP م للتطوي 3 REEM DEVELOPERS Request for Approval of Sub-contractor (SUB) FM 09-53 : Construction, Completion & Maintenance of Residential Building for Mr. Khalifa PROJECT Mohammad Hamed Fares Al Mazroui @ Sector E-48, Plot # C-97, Rawdhat, Abu Dhabi CONSULTANT : Architecture & Planning Group Request No. : MU261.1 CONTRACTOR : MAZCOT Revision :00 Submittal Date : 19/01/2015 SUB-CONTRACTOR : Submittals List : C.4  $\checkmark$ Architecture Electrical HVAC Structure Fire Fighting Plumbing Others: Water Proofing & Thermal Insulation for Roof Reference in Specifications Sub-Contractor Name S/N Description General Specs: Thermal M/S Compact Insulation Insulation- Div 7200 & Water Proofing & Thermal Insulation 01 Water Proofing- Div 7500 for Roof Works LLC. LOM: Civil Items- Item#9 BOQ: Bill #7. Pa no.7.2 Others DG Architecture & Pianning Group Pregualification Valid Trade License Organization Chart Attached: 29 FILE REF. Reason for change (if any) WITERNAL CIRCULATION LIC For Main Contractor NAME INITIALLED BYDAT 19/01/2015 Date For CONSULTANT'S USE DATE ICR No. Date Received by ACTIONED BY Neither the Client's Representatives approval nor his failure to give such approval shall in any way relieve the Contractor dramabilizations and liabilities under the contract; and it shall not constitute an authorization for any increase in the contract price or contract time on the contract in the contract in the contract in the contract in the contract is the contract in the contract in the contract is the contract is the contract in the contract is the contract is the contract in the contract is the c Revise & Resubmit Rejected Approved Approved with Comments COMMENTS 00 neló Received by the Contractor Consultan 0 ature & Date Signature & Date 21 12-Nov-13 FM 09-29 Request for Approval of Materials (MTR) INSUN ATION TOTAL P.02



Consultant: Architecture & Planning Group

Subject: Waterproofing & Thermal insulation for Roof Sub contractor & Material Submittal

Dear Sir,

With reference to the above-mentioned subject and further to your submittals, please be informed that Waterproofing & Thermal insulation for Roof Sub contractor & Material Submittal has been checked and Marked 'B' (Approved with comments) by consultant. Kindly collect a copy of your submittal from our head office.

This is for your information and necessary action.

Thanks & Regards,

For MAZCOT

Procurement Department Mohamed Umar Phone #: 02-6711415 Fax #: 02-6711416 Email Address: mohamed.umar@mazcotad.ae





C/c to Site Office.

C ORS @

Member of AL MAZROUI GROUP

Tel: (02) 6711415, Fax: (02) 6711416, P. O. Box: 105939, Abu Dhabi - U.A.E., E-mail: mazcot@emirates.net.ae, website: www.mazcot.ae



Ref: PEC/AIC/P1082AD-MS-169-2013 : Sunday 4th January, 2015

M/s Airolink International Construction LLC. PO. Box: 30585 Abu Dhabi T : +971 (0) 2 5531823/25 F : +971 (0) 2 5531824/26

Project # : 1082 Client : RYAN INTERNATIONAL PRIVATE SCHOOL Project : RYAN INTERNATIONAL SCHOOL Location : Plot L-05, Sector SE 45- Masdar city, Abu Dhabi, UAE. Subject : Material Submittal for Roof Water Proofing.

Dear Sir,

References to the captioned subject and further to your transmittal sheet Ref No RIS-MAR-066 dated 30th Dec 2014, and having reviewed by us please be note that it is APPROVED AS NOTED as stated below.

a. Follow estidama requirements.

This is for your information and action.

Best regards



Samy Sayed General Manager PIONEER Engineering Consultancy L.L.C

CC : Client PEC Tender Dept. Project Manager (PEC) Transmission Method: Tensmission Metho



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S	UBCONTRACTOR APPROVAL	REQUEST	
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Project Manager	For the Attention of:	Mr, Eng Akash Bhargava	
	C 2014		
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PROJECT : RYAN INTER	NATIONALSCHOOL, PLOT L-05, SE	CTOR SE 45, MASDAR	CITY, ABU DHABI
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MATERIAL	SHOP DRAWING	SUBCONTRACTOR	OTHERS
REFERENCE NO ; RIS/MAR/066	REVISION:	0	DATE : 30/Dec/14
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Project Manager: Mr. Azhaguvel	For the Altention of:	Mr. Eng Akash Bhargava	
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External Others	PURPOSE	Roof Water	Proofing
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C C	projects.	Imple for water proofing and PEC	already approved for other
ensture: Descuse	30/12/14 SUBMITTED-POR	RECEIVED BY CONSULTANT	
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Specification / B.O.Q/Vendor List	Information Only		
Recent test Reports/Cartificate	Record		
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Ref No. 0006-HCM/EAM/14/L0336 Date: Sep. 16, 2014

Mr. Vijesh Business Development Manger M/s. Compact Insulation Works LLC P.O. BOX 8401, Abu Dhabi, UAE Tel.: 026589702, Fax: 026589703 Email: vijus83@gmail.com

Project: Construction of Pharma Link Medical Store at mussafah Store + 2 Storied Office Block, Sector M - 17, Plot No 19

Subject: Approved as Noted - Roofing System

This refers to the subject captioned above and subsequent to Consultant letter, please be informed that the said proposal is approved as noted subject for consultant comments stated in the letter attached (AUH/1/1073/14 dated 14/09/2014).

هاشم للمقاولات (ج الم

This is for your information and further action.

With best regards; GEN, MA

Eng,Eyad Ahmed Mohammad Project Manager

Encl: Commented Submittal Copy





عانف : ١١٦١٧ه-١-٢٩٧١-٢ - فاكس : ١١٦١٨ه-٦-٢٧١٠ - ص.ب : ٧١٨٥ - أبوظيي - الامارات الغربية المتحدة TEL: +971-2-5511617 - FAX:+971-2-5511618 - P.O.BOX: 7185 - ABU DHABI - UNITED ARAB EMIRATES Email: hemgroup@hashim.au



للاستشارات الهندسية ABBURJ Engineering Consultants

Ref : AUH/1/1073/14 Date : 14th September, 2014

M/s Hashim Contracting & Gen. Maintenance Co. LLC P.O. Box 7185 Abu Dhabi UAE Fax : 02 - 5511618

Attn : Mr. Mohamed Hashim Al Damasi General Manager

Project : Pharma Link Warehouse at Mussalah, Abu Dhabi Store +2 Storied Office Block Sector M17 – Plot No. 19

Subject : Roofing System

With reference to the above subject and your letter No. 0006-HCM/EAM/14/L0310 regarding the Roofing System and the sub-contractor, be informed that no objection for approval of the submitted Roofing System by M/s Compact Insulation works as per attached section subject to the following:-

- The sub-contractor is requested to follow the specifications and Estidamah requirements.
- The sub-contractor is requested to follow the consultant instructions.
- The Guarantee Certificate must be submitted.
- NO Claims (Cost Time) based on this approval.

This is forwarded for your action.

Best Regards, Sincerely Colluitants For Al-Bury Enginee Eng. Relat-Erpe want Projects Manageosineering Co



Abu Dhabi :Tel. : +971 2 6212600 - Fax : +971 2 6344644 - P.O. Box : 46201 Dubai :Tel. : +971 4 2944490 - Fax : +971 4 2944489 - P.O. Box : 14338 Al- Ain :Tel. : +971 3 7666762 - Fax : +971 3 7660249 - P.O. Box : 15588 E-mail : abudhabi@alburj.net - www.alburj.net



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## COMPACT WATERPROOFING SYSTEM TECHNICAL SUBMITTAL

PROJECT	:	8 NO'S (G+3+R) BUILDING BALCONIES
LOCATION	;	PLOT NO: C252A, SHAHAMA RESIDENCE
CLIENT	:	MR. ALI MOHAMMAD SADIK AL BALOUSHI
CONSULTANT	:	PIONEER
CONTRACTOR	:	GHANTOOT BUILDEX GENERAL CONTRACTING
SUB - CONTRACTOR	:	COMPACT INSULATION WORKS L.L.C

- Roof and teracce to Cover by terazzo tile Consultant Comments:-Toproof is ok. - Jullow Estidance requirent. - Dorranty = 7 25 years to be provided Approved Mapproved with comments Rejected

COMPACT WATERPROFING SYSTEM TECHNICAL SUBMITTAL

PROJECT:G+2 Commercial BuildingLOCATION:Plot 29, M-34, Mussafah Industrial Area, Abu DhabiCLIENT:MR. SALEM ABDULLAH KHAMAS AL KHOMAIRICONSULTANT:FIRAS ENGINEERING CONSULTANTCONTRACTOR:THE TECHNICAL CENTRE LTD. GEN. CONTRACTINGSUB - CONTRACTOR:COMPACT INSULATION WORKS LLCC

Consultant Comments :-

Approved as Ber Ane estedama requirements

Approved

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Approved with comments

CONSULTANT

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Rejected

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