



دار الإنشاءات للمقاولات العامة ذ.م.م
Construction General Contracting House Ltd



SUBMITTAL REVIEW

DATE: 19 September 2015 Doc. No. AMS-CGCH-ME-MSU-00217 Rev. 0

Related Material Sample No. _____ Rev. _____

TITLE: Material Submittal for HDPE Pipes and Fittings for Soil & Waste, Storm Water and Drainage System

TO BE REVIEWED BY: ALDAR AECOM

TYPE OF SUBMITTAL: Material Submittal Material Sample Method Statement
 Pre-Qualification Reports Operational Procedures
 Operational Maintenance Manual Others:

DISCIPLINE: Architectural MEP Health & Safety
 Structural Civil Others: Abu Dhabi

Company: Sultaco
 Attachment: hard copy (2 sets)
 Prepared: _____ Verified: AR

Rev	Date	Description

REVIEW COMMENTS

Comments by Contractor Sustainability Consultant (CSC)

No objection on this material. This is for external use

Name: *Amal MSC* Signature & Stamp: _____ Date: *17.09.15*

A- Approved B- Approved with Comments C- Revise and Resubmit D- Rejected E- Not Reviewed

Comments by ALDAR

A- Approved B- Approved with Comments C- Revise and Resubmit D- Rejected E- Not Reviewed

Name: _____ Signature: _____ Date: _____

Comments by AECOM

Refer to comments in sheet attached

Comments by AECOM PQP

(A) Approved (Signature)

21/9/2015 } This is Eshid

Corrections or comments made relative to submittals during this review do not relieve the contractor from compliance with the requirements of The Contract. This check is only for review of general conformance with the design concept of the project and general compliance with the information given in the contract documents. The contractor is responsible for confirming and correlating all quantities and dimensions, selecting fabrication processes and techniques of construction, coordinating his work with that of other trades and performing his work in a safe and satisfactory manner.

A- Approved B- Approved with Comments C- Revise and Resubmit D- Rejected E- Not Reviewed

Name: *H:A* Signature: _____ Date: *21/9/2015*

FINAL STATUS

Approved Approved with Comments Revise and Resubmit Rejected Not Reviewed

Name: *MAZEN SAADAH* Signature: _____ Date: *21/9/2015*



AHS Ambulatory Healthcare services	نموذج اعتماد المواد Material Approval Request Form	الرقم : Submittal No:EM-1
	Contractor : Al Hayat :المقاول: Pharmaceuticals	التاريخ : 200 / /
	المشروع: Project: Abu Dhabi Dental Center-CSSD	Date: 09 / 07 / 2014

بيان المواد / الأجهزة Material Description		
رقم الصفحة Page No.	القسم Section DRAINAGE PIPING	الجزء Part No.
المصدر / المصنع Manufacturer AKATHERM		المواصفات حسب العقد أوامر العمل Relevant Contract or Work Order Specifications

Proposed Material Conforming to Specs. نعم لا
 Yes No

مكان الاستعمال Location of use Abu Dhabi Dental Center-CSSD
التفاصيل الفنية Technical detail DRAINAGE PIPING SYSTEM

تفاصيل المستندات المرفقة Details of Supporting Documentation Attached: Yes <input type="checkbox"/> No <input type="checkbox"/>	1 CATALOGS 2 3
---	----------------------

ملاحظات المقاول
Contractors Comments:

ختم و إمضاء المقاول
Stamp & Signature of Contractor

تاريخ استلام مهندس الاستشاري

الرأي الفني لمهندس الاستشاري / المستشفى
Consultant / Hospital Engineer

Comments: *Approved as comments*

Reviewed by: *Eng. Mansour* Signature: *[Signature]* Date: *13/07/2014*

خاص صحة
Special for the Authority



Date received by Authority Engineers
Authority Engineers Comments

تاريخ استلام مهندس رأي مهندسي

SEHA SPEX and manufacturer Recommendation to be strictly followed	A <input type="checkbox"/> يعتمد Approved B <input checked="" type="checkbox"/> يعتمد مع الملاحظات Approved with Comments - Z.S C <input type="checkbox"/> مرفوض Rejected, Revise & Resubmit D <input type="checkbox"/> للظم For Information
--	---

10 JUL 2014
RECEIVED



PROJECT MANAGER'S INSTRUCTION	
To: Dutco Balfour Beatty LLC PO Box 8944 Dubai United Arab Emirates For the Attention of: Nabil Ayesh Project Director	PMI No: TADD/DBB/PMI/306 Date of Issue: 13-Mar-2017 Contract: Main Contractor Phase 1 LOA / Contract No: CD/DD/TADD/RF/LOA 4599 LOA / Contract Date: 04-Feb-2016
TITLE / SUBJECT:	Bid Tab – HDPE Pipe & Fittings, Phase 2, Package 8A-3, WF003551
<i>This Project Manager's Instruction is issued in accordance with and is subject to the terms, conditions, and provisions of the LOA and/or Contract. You are hereby instructed as follows:</i>	
<ol style="list-style-type: none"> 1. DBB are to proceed with procuring HDPE Pipe & Fittings, Phase 2, Package 8A-3, as per WF-003551 submission. 2. DBB to refer to AECOM and MLC comments on Rev 00 (WF-003551) submission. 3. DBB are to proceed to appoint "BKG & Material Supply (Thomsun - Akatherm) for supply HDPE pipe and fittings". 4. The instructing of the above works under the Phase 1 Contract is for administration purposes only. Upon execution of the Phase 2 LOA/ Contract, these works and the related value (if any) will be transferred to the Phase 2 Agreement. 	
AECOM Middle East Limited  Gary McCully – Project Director	EMAAR Properties PJSC  Ayman Kassem – Development Director
Notes: <ul style="list-style-type: none"> • All work is to be executed with due diligence, care and in accordance with the requirements of your Agreement. • This instruction is a notice to proceed and may involve a change in cost or time. You are required to advise the Project Manager and Employer of any change in accordance with the Conditions of Contract. • The final cost of the works subject to this instruction will be determined and agreed in due course by Determination Of The Value Of Variation Order (DVVO). 	
Please acknowledge receipt by signing, dating and returning the attached copy of this Project Manager's Instruction.	Received for and on behalf of: Dutco Balfour Beatty LLC _____ Nabil Ayesh – Project Director Date of Receipt
Distribution: EMAAR - AECOM PMC / CS - MLC AECOM-B&P - WME - JH - SHW - WAQ - ET - MD - SSH - WSP/IPB - BKG	

Unified 000127



Dewan Architects + Engineers

D12-09
52/42 Residential Towers



MEP MATERIAL / EQUIPMENT APPROVAL FORM

Project Title & Contract No: 52/42 Residential Tower

Main Contractor: Shapoorji Pallonji Mideast LLC

Authorised Signature: _____

Sub Contractor: _____

Authorised Signature _____

Item Description	HDPE Pipes & Fittings
Specs/BOQ Ref	DR-PO-101-GR
Proposed Matrl/Equipment	Akatherm BV
Manufacturer/Local Supplier	Thomsun General Trading LLC

Ref.No.	SPML/DMD/DR/MAT/003
Rev.No.	00
Date	16-Apr-17
Required By	

Item Selected From Emaar's List Consultant's List Alternative

CONSULTANT'S STATEMENT

1- No objection to HDPE pipes & Akatherm from KSA & fittings from Holland.

2- HDPE pipes & accessories should be Kitmark engraved.

3- materials sizes to be as per approved shop Dwg's.

4- Sample board to be submitted for trial approval.

[Handwritten signature]

ATTACHMENTS (IN SEPARATORS)

- Vendor's Tech. data sheet with high-lighted selection
- Any Deviation From Project's Specs (If "yes" reason for deviation)
- Vendor's Confirmation of Country of Origin
- Vendor's Confirmation of Country of Manufacture
- Copy of Relevant Contract Documents
- Copy of Related Specifications
- Copy of Schedule of Equipment
- Copy of Approved List of Manufactures/Suppliers
- Comparative Statement
- Copy of Relevant Test Certificates/ Reports
- Copy of Previous Experience/ Approvals
- Copy of Related Contract Drawing/ Sketch
- Others (Specify)

Approval Status

- A - Approved B - Approved as noted C - Revise & Resubmit
 D - Rejected E - For Information, Record

The enclosed submittal has been reviewed and confirmed that it is in compliance with the contractor's drawings and specifications except as otherwise stated hereabove. The consultant recommends the approval of Emaar as noted

Consultant's Signature: *[Signature]* Date: 23/4/17

Project Manager

[Signature] 16/04/2017

EMAAR'S COMMENTS

Refer to Emaar MEP Approval/Comments in Unified

- A - Approved
- B - Approved as noted
- C - Revise & Resubmit
- D - Rejected
- E - For Information, Record

Note: The above comments or approvals do not relieve the contractor from his obligation under the contract to ensure conformance to the specifications

EMAAR MEP: *[Signature]* Date: 3/5/17

Received by Consultants: DC *[Signature]* Date: 16.04.17 3pm

Shapoorji Pallonji Mideast (L.L.C)
52/42 Residential Towers

15 MAY 2017

RECEIVED

Sign: *[Signature]* Time: 2:15 pm

Consultant Comment

The Consultant Comments:

- 1. No Objection for HDPE Pipe & Akatherm from KSA & Fittings from Holland.
- 2. HDPE Pipes & Accessories should be Kitmark engraved.
- 3. Materials sizes to be as per approved shop drawings.
- 4. Sample board to be submitted for final approval.

Consultant Status: B - Approved As_Noted

Representative: EMAAR Project Manager EMAAR MEP None

Cost Consultant Review

QS / Cost Consultant Review:

Employers Representative

Employer's Representative's Comments:

no objection subject to comply with project requirement

Employer's Representative's Approval:

B- Approved as Noted

Contractor Comment

Contractor Remark:

PMO Comment

PMO Remarks:

Reviewer Remark

Remarks:

CP07 EXPO VILLAGE

SUPPLEMENTAL COMMENTS

Contract Title:	CP07 Parcel-07	Reference:	PN1502-CP07-MAS-MEC-PLU-CSC-0002
Contract No:	SA14	Revision:	Rev.0
Subject:	HDPE Pipes & Fittings	Date:	7 th Mar 2018
Company:	CSCEC Middle East LLC	Name:	Ashraf Ghazaleh
No.	CSC (KEO) Comments	Contractor's Reply	
1	All HDPE pipes and fittings shall be joined using electrofusion		
2	Control boxes and output leads for electrofusion shall be provided by the same manufacturer		
3	The date of manufacturing, brand, nominal diameter, wall thickness and code compliance shall be printed on the pipes and fittings		
4	All the proposed materials shall be stored in accordance with the manufacturer's recommendation, direct solar exposure not accepted		
5	Country origin certificate and bill of lading shall be provided on delivery [Netherland as shown via the proposed material submittal origin certificate]		
6	Pipe joints and fittings shall be properly rapped during concrete casting		
7	B - Approved as Noted Approved as noted, manufacturer's undertaking letter noted, however, lab tests and certificate type 1 shall be provided for the following: SMQ # 16: DGBR 701.04: Lead or Heavy Metals Containing Materials. SMQ # 17: DGBR 701.03: Asbestos Containing Materials. Mr Corina Makhol - KEO International Consultants		
8	B - Approved as Noted Status B: approved subject to confirmation that handling, segregation, storage, transportation and disposal of the different types of waste generated from this material shall be in accordance to the WMP. Ms Liza Dahdah - KEO International Consultants		

Action: Status A: Approved
Status B: Approved with Comments. Subject to Incorporation of all comments as noted
Status C: Revise and Resubmit

CP07 EXPO VILLAGE

9	<p>Sample comments:</p> <p>1- The water seal showing all the required data shall be clear and visible.</p> <p>2- Provide electrofusion joint fitting sample.</p>	
10	<p>All the welders that will use the electrofusion machines shall be trained by M/s. AKATHERM and supporting certificate shall be included in the installation method statement.</p>	

Status: Approved as Noted

Ashraf G.

ASHRAF M GHAZALEH
Senior Mechanical Manager
EXPO Village Development
PMCM International



KEO International Consultants
Dubai

T +971 4 425 3324/ Ext: 210
F +971 4 425 3307 / M +971 50 243 0265

Ashraf.ghazaleh@keoic.com

Ashraf Ghazaleh
KEO INTERNATIONAL CONSULTANTS

Final (WF-001263) CP07-CSC-KEO-Material Approval-M...
WORKFLOW TRANSMITTAL

10:09 AM
KEO-IC-WTRAN-001458

Expo Village Development

DWTC
Dubai
United Arab Emirates

**MAIL TYPE**

Workflow Transmittal

MAIL NUMBER

KEO-IC-WTRAN-001458

REFERENCE NUMBER

KEO-IC-WTRAN-001458

Final (WF-001263) CP07-CSC-KEO-Material Approval-Mechanical-

From Mr Ashraf Ghazaleh - KEO International Consultants

To (8) Mrs Rhea Ayuson - China State Construction Engineering Corporation Middle East (+7 more...)


Cc (14) Mr George Kheir - China State Construction Engineering Corporation Middle East (+13 more...)

Sent Wednesday, 7 March 2018 10:09:42 AM GST (GMT +04:00)

Status N/A

DOCUMENT ATTACHMENTS (1)

(0 selected)

File	Document No	Revision	Revision Date	Title	Status
	PN1502-CP07-MAS-MEC-DR-CSC-00001	00		Material Submittal for HDPE Pipes and Fittings with Sample	B - Approved As Noted

MESSAGE**Workflow Review History**

The attached documents have completed the "CP07-CSC-KEO-Material Approval-Mechanical-" workflow with the following results :

This transmittal was automatically generated.

Doc No	Step	Participant	Review Outcome	Comments
PN1502-CP07-MAS-MEC-DR-CSC-00001	KEO SUS Review Duration 4 Days	C Makhol	B - Approved As Noted	Approved as noted, manufacturer's undertaking letter noted, however, lab tests and certificate type 1 shall be provided for the following: SMQ # 16: DGBR 701.04: Lead or Heavy Metals Containing Materials. SMQ # 17: DGBR 701.03: Asbestos Containing Materials.

KEO ENV Review Duration 4 Days	L Dahdah	B - Approved As Noted	Status B: approved subject to confirmation that handling, segregation, storage, transportation and disposal of the different types of waste generated from this material shall be in accordance to the WMP.
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KEO Lead Review Duration 6 Days	A Ghazaleh	B - Approved As Noted	Refer to our comments via the attached supplemental comments sheets and proceed accordingly.
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Log Updated



MATERIAL SUBMITTAL SHEET # R1049-ASGC-MT-MEP-PL-0004 Rev. 00

Project Name	R1049_ALOFT HOTEL & ELEMENT SERVICED APARTMENT AT AL GARHOUD	Project No.	R1049
		Date:	06-Oct-2018

Submittal Title: Material Submittal for HDPE Pipes and Fittings.

Discipline: - Civil/Structural - Architectural - MEP LEED

We are sending herewith under separate cover the documents listed below:

ITEM NO.	DOCUMENT / DWGS. SPECS BOQ REF.	DESCRIPTION	REV	COPIES	REMARKS
1	Volume III Part 3 of 13 Specification for Electromechanical (MECH) Section: 221116	Material Submittal for HDPE Pipes and Fittings. (BRAND: AKATHERM) SUPPLIER: MOOSA DALY (Including Sample)	0	2	HARD COPY & SOFT COPY in CD & USB

DESIGNATION	INFO	ACTION
lche		✓
AKBanta		✓
Abenbaker		✓
Moh		✓

For ASGC GROUP
 Signature: **MR. AYMAN ATALLAH PROJECT MANAGER**
 Received by: _____ Signature: _____ Date: _____

Consultant Comments:
 Reply comments on the attached sheet.

Status

A - (Approved)

B - (Approved as Noted) *3:49*

C - (Revise & Resubmit)

D - (Rejected)

Date: *6/10/18*

Resident Engineer: _____ Signature: _____ Project Manager: _____ Signature: _____ Date: _____

MEP Eng. Signature: *T. AS 18/10/18* Arch Eng. Signature: _____ Date: _____

Copy to: Head Office Client Consultant QS Others Sheet No. 1 of 2 sheet

Note: Engineer's approval does not relieve the contractor from contract obligation and responsibilities.



W



Project Name: Aloft Hotel & Apartment- Elemental Service Apartment at Garhoud, Dubai, UAE

Client: Wasl Asset Management Group

Subject: HDPE pipes and fittings

Transmittal Ref.: R1049-ASGC-MT-MEP-PL-0004 Rev.00

Date: 17-10-2018

Status: Approved as noted.(B)

1. There is no third party test certificate attached stating the temperature and pressure ratings.
2. Vendor to confirm drainage pipes and fittings for kitchen are suitable for high temperature and acid resistance as per AWWA C901 and C906.
3. Sample submitted is made in KSA and the certificates attached of facilities are of Netherland. Vendor to provide certificates for Saudi Arabia facility.
4. DM approval certificate to be attached.
5. All items shall be fresh stock and storage shall be as per manufacturers recommendation.
6. MS to be submitted for installation of HDPE pipes as per manufacturer's recommendation.
7. Samples to be submitted as per schedule of materials.
8. Warranty shall be from the date of handover of project.

T. AS
17/10/18.

Ally
17/10/18.

MATERIAL SUBMITTAL SHEET #

R0476-ASGC-ASEME-MT-MEP/PL-00004

Rev. 00

Project Name	R0476_ALOFT HOTEL & ELEMENT SERVICED APARTMENT AT AL RAFFA	Project No.	R0476
		Date:	09-June-2018

Submittal Title:	Material Submittal for Drainage HDPE pipe & Fittings M/s Al Shirawi
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Discipline:
 - Civil/Structural - Architectural - MEP LEED

We are sending herewith under separate cover the documents listed below:

ITEM NO.	DOCUMENT / DWGS. SPECS BOQ REF.	DESCRIPTION	REV	COPIES	REMARKS														
1		Material Submittal for Drainage HDPE pipe & Fittings M/s Al Shirawi	0	3	<table border="1"> <tr> <td>BURO KLING</td> <td>PROJECT No. R476/10576</td> </tr> <tr> <td colspan="2">HARD COPY</td> </tr> <tr> <td>DESIGNATION</td> <td>INFO ACTION</td> </tr> <tr> <td>KHA</td> <td>Soft Copy</td> </tr> <tr> <td>HAB</td> <td>Sample</td> </tr> <tr> <td>DAN</td> <td></td> </tr> <tr> <td>DAD</td> <td></td> </tr> </table>	BURO KLING	PROJECT No. R476/10576	HARD COPY		DESIGNATION	INFO ACTION	KHA	Soft Copy	HAB	Sample	DAN		DAD	
BURO KLING	PROJECT No. R476/10576																		
HARD COPY																			
DESIGNATION	INFO ACTION																		
KHA	Soft Copy																		
HAB	Sample																		
DAN																			
DAD																			

For ASGC GROUP

Signature: **MR. FIRAS KASSEM - PROJECT MANAGER**

Received by:

Signature:

Date:

Consultant Comments :

- Refer to attached comments sheet.
- contractor has to comply accordingly.

Status

- Approved
- Approved as Noted
- Not Approved
- Rejected / Resubmit

Resident Engineer:

Signature: *Sameh Habib*

Project Manager

Signature

Date:

14/06/18

MEP Eng.

Signature:

Arch Eng.

Signature:

Date:

Copy to:

Head Office

Client

Consultant

ASGC CONSTRUCTION LLC
RECEIVED
QS Others

Sheet No. 1 of 2 sheet

Note: Engineer's approval does not relieve the contractor from contract obligation and responsibilities.

Project Name: R0476 Aloft Hotel & Element Serviced Apartment at Al Raffa

Client: Wasl Asset Management Group

Subject: Material Submittal for Drainage HDPE Pipes and Fittings –
from Akatherm – The Netherlands

Transmittal Ref.: R0476-ASGC-ASEME-MT-MEP/PL-0004 Rev. 00

Date Received: June 10, 2018

Status: Approved as Noted

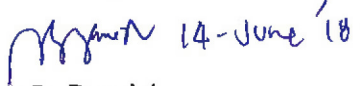
Comments:

Akatherm BV – The Netherlands is on the list of approved manufacturer for drainage HDPE pipes.

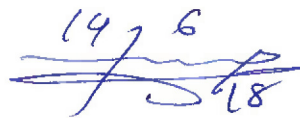
No objection with the proposed material as highlighted on the catalogue as it conforms to project specification, subject to following:

1. HDPE shall be used as *drainage pipes for kitchen only*. Method of joining has to be by electrofusion.
2. Pipes and fittings must come from one supplier and has to be compatible to create a homogenous joint.
3. Country of origin, warranty and factory test certificates dated not later than 6 months shall be presented during material inspection for each batch of material delivery.
4. Provide written confirmation that Thomsun General Trading LLC is authorized or exclusive agent by the manufacturer to distribute or supply these products here in the UAE.
5. Electrofusion weld shall be carried out by trained welder whose qualification has to be certified by third party and to be verified by the Consultant.
6. Submit detailed procedure or method statement on how to conduct the heat fusion joining technique.

Reviewed by:


Dante B. David

Mechanical Engineer

14 June 2018




MATERIAL SUBMITTAL

TRANSMITTAL NO :TAHP-IEMS-MAS-DS-00132

Rev. No: 1

DATE : 26/03/2019

To: KEO International Consultants

PROJECT	OWNER / PROJECT MANAGER	SUPERVISION CONSULTANT	CONTRACTOR
The Address Harbour Point	EMAAR / MLD	KEO INTERNATIONAL CONSULTANTS	ASGC
SPECIFICATION CLAUSE REF:	Section - 22 1300		Approval required by:
DRAWING REF:	Drg No.EW-PD-PD-100 (Floor plan Level B2 Drainage System)		D D M M Y Y Y Y
MANUFACTURER	M/s.Akathem HDPE		0 9 0 4 2 0 1 9
LOCAL SUPPLIER	M/s.Bin Moosa & Daly Ltd LLC Dubai		
SUB CONTRACTOR:	M/s. International Electromechanical Services Co LL		
DESCRIPTION	HDPE Pipes and Fittings for Kitchen Drainage Services		B
DOCUMENT NO.	TAHP-IEMS-MAS-PHE-00004 REV. : 1		

We confirm that the material hereby submitted is suitable for the conditions of use and conforms with the contract specifications and all applicable codes, standards and statutory requirements. Acceptance of this material submittal does not alter in any way whatsoever our contractual or common obligations and responsibilities. Where the submittal is in any way in variance with the specifications, such variations must be identified and brought to the attention of the Engineer or Engineer's representative on this form.

CONTRACTOR :

DATE & TIME :

Discipline Engineer	Technical Office Manager	QA/ QC Manager	MEP Manager	HSE Manager

RECEIVED BY KEO :

DATE & TIME :

REMARKS :

Refer to the attached comments.

Corrections or comments made relative to submittals during this review does not relieve the contractor from compliance with the requirements of his Contract, drawings and specifications. This review is only in respect of general conformance with the design intent of the project and general compliance with the information given in the Contract documents. The contractor remains responsible, among other things, for the design of the project or such parts of the project he has design responsibility for (if design forms part of the Contract), for confirming and correlating all quantities and dimensions, selecting fabrication processes and techniques of construction, coordinating his work with that of other trades, and performing his work in a safe and satisfactory manner, all in accordance with the Contract.

<input type="checkbox"/>	A - Approved
<input checked="" type="checkbox"/>	B - Approved with Comments
<input type="checkbox"/>	C - Approved with Comments & Re-Submit
<input type="checkbox"/>	D - Not Approved
<input type="checkbox"/>	E - Submitted for Information

ACTIONED BY KEO :

Ziad Abood

DATE : 27.03.19

COMMENTS FROM PROJECT MANAGER/CLIENT

Name	Signature	Date
The Project Managers signature affixed to this approval and or consent in no way infers a design responsibility on the part of the Project Manager. The signature affixed is as an acknowledgment of the status of the consent and or approval provided by the Supervision Consultant and or his designate. The signature is affixed pursuant to Clause 2A.2 of the Conditions of Contract only -The Consultants decision is final. This signed document constitutes the written form dictated by the Conditions of Contract for such decision , approval or consent. This approval or consent in no way constitutes an instruction to amend the Contract.		

Received with Status by ASGC (Please affix company stamp)

Name	Signature	Date



mirage

The Address Harbour
Point



Submittal Circulation Comments Sheet

DOCUMENT TYPE:	MATERIAL SUBMITTAL		
DOCUMENT NO.	TAHP-IEMS-MAS-PHE-00004	REV.	1
DISCIPLINE:	MECH.	MECHANICAL	
DESCRIPTION	HDPE PIPES AND FITTINGS FOR KITCHEN DRAINAGE SERVICES		
CONTRACTOR'S ISSUE DATE:	26.03.2019		
SUPPLIER:	M/S BIN MOOSA & DALY LTD LCC DUBAI		
MANUFACTURER:	M/S AKATHEM HDPE		
CODE:	B	APPROVED WITH COMMENTS	
A: Approved B: Approved with Comments		C: Approved with Comments and Resubmit D: Not Approved E: Submitted for Information	

KEO's Comments:

No objection for the proposed HDPE underground pipes and fittings for kitchen drainage manufacturer by AKATHEM (Netherlands) subject to submit and comply with followings:

1. All pipes and fitting shall have kitemark labeled.
2. Samples to be submitted.
3. Provide expansion fittings wherever the pipes crossing building expansion joints.
4. Follow the manufacturer recommendations for the pipe installation, method statement for pipes installation shall be submitted.
5. Use only Y fittings for branches connection.
6. Use HDPE traps from the same manufacturer.
7. Use only electric fusion socket welded joints & fittings as per project specification.

Commented by Consultant	
Sr. Mechanical Engineer	Sr. Resident Engineer
Name:	Ziad N Abood
Signature:	
Date:	27.03. 2019

PROJECT: KING'S COLLEGE HOSPITAL, Dubai



CLIENT :	KCH HEALTHCARE LLC, Dubai	
PROJECT MANAGER:	FAITHFUL + GOULD	
LEAD CONSULTANT:	WME ENGINEERING CONSULTANTS	WME consultants
CONSULTANT:	PERKINS + WILL	PERKINS + WILL
MAIN CONTRACTOR:	SHAPOORJI PALLONJI MIDEAST LLC	
SUB CONTRACTOR :	SPML – MEP DIVISION	



MATERIAL SUBMITTAL (MSR)

Submittal No. SPML/KCH/MEP-MECH/MSR-004	Rev. 0	Date: 28.02.2017
Previous Submittal Ref No.	Rev.	Date:
Originator. SPML MEP DIVISION	Signature of Originator:	

[] ARCH. [] STR. [] ELECT. [] MECH. HVAC. [] [] ID [] MEDICAL [] OTHERS

We are sending herewith under separate cover the documents listed below for:

Approval/Comments Information/Records As per your Request Necessary Action

Item Description	HDPE Pipes & Fittings	(Tick the Related Box)
Specs. Reference		<input checked="" type="checkbox"/> Vendor's Technical Literature
BOQ Reference		Compliance Statement
Drg. Reference		<input checked="" type="checkbox"/> Previous Test Results
Material Specified	Akatherm	<input checked="" type="checkbox"/> Copy of the Related Specs.
Material Proposed	Akatherm	<input checked="" type="checkbox"/> List of Previous Projects Done
Manufacturer/ Local Supplier	Thomsun General Trading LLC.	<input checked="" type="checkbox"/> Samples
Reason for Alternative		<input type="checkbox"/> Guarantee
Remarks		<input type="checkbox"/> Others (specify)

Sign & Date of Sub-contractor 	Sign & Date of Main Contractor (Project Manager) 	Sign & Date of Receipt of Consultant (WME) 	Sign & Date of Receipt of PM (F & G)
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CONSULTANT'S / OTHER'S Comments: WME PERKINS+WILL OTHERS (Specify Name.....)

- PIPES SHALL BE JOINED EITHER BY BUTT WELDING OR ELECTROFUSION, DEPENDING ON SITE CONDITION
- THIS MATERIAL IS APPROVED ONLY FOR DRAINAGE PIPES PART OF EARLY WORKS (THROUGH AND BELOW RAFT SLAB). RESUBMIT FOR ABOVE-GROUND INSTALLATION.
- PROVIDE PROTECTIVE WRAP OR EQUIVALENT METHOD TO RETAIN PIPE INTEGRITY OR JOINT

Status A	Status B	Status C	Status D
Approved	Approved As Noted. Work may proceed subject to Incorporation of changes.	Revise & Resubmit. Work may not proceed	For Information Only. Review not required.

INTEGRITY DURING CONCRETE POURING AND CURING.

Intercontinental Resort Hotel, Ras Al Khaimah, United Arab Emirates

CLIENT: RAK Properties PJSC

ENGINEER: P&T Architects and Engineers Ltd.

CONTRACTOR: Al Ali Construction & Development LLC

Contract: 02917_Intercon Main Works

Date : 17 Sep-2018

MS No: MS/AAC/IRH/MEP/MECH/PL/0024R0

MATERIAL SUBMITTAL

To : ENGINEER

New Submittal : [✓]

Resubmittal : []

MATERIAL DESCRIPTION

HDPE PIPES & FITTINGS For Kitchen Drainage System

AS SPECIFICATION [✓] ALTERNATIVE []

CONTRACTOR PROPOSAL []

Location: Main Building & Ancillary Building

Sample Attached []

Drawing Ref.

B.O.Q. Ref. No.

Specification Ref.: Div.15, Section 15990 Standards, BS, DIN :

RESPONSE TO RFI No RFI/AAC/IRH/MEP/PL-0007 RO DATED: 26 AUG 2018

(Attach all relevant technical literature marked to identify relevant descriptions, current test certificate, samples etc.)

MANUFACTURER / SUPPLIER

Company Name : BIN MOOSA & DALY LTD.LLC ✓

SUPPLIER
~~BIN MOOSA & DALY LTD. TRADING LLC~~
AL DURRA PIPES LTD. TRADING LLC ✓

APPLICATOR/ INSTALLER

Al Pheniq

Address :

RAK, UAE

Product Name: AKATHERM ✓

AKATHERM ✓

SPECIFICATION COMPARISON:

Specification Requirements

CONTRACTOR Proposal

As per RFI

AKATHERM ✓

RFI No : RFI/AAC/IRH/MEP/PL-007R0

*FROM: EU - FOR FITTING
SA - FOR PIPES* AS PER ATTACHED LETTER FROM M/S AKATHERM.

Attached Documents: For Review

For Information

Signature: *[Signature]*

ENGINEER's Comments :

REFER TO ENCLOSED COMMENTS.

Engineer:

Sr. Resident Engineer:

Date:

Date:

Acceptance Status:

A. CHECKED AND REVIEWED [] WORK MAY PROCEED

B. CHECKED AND REVIEWED SUBJECT TO MINOR REVISION AS NOTED WORK MAY PROCEED AS PER AMENDMENTS NOTED

C. REJECTED [] REVISE & RESUBMIT

EMPLOYER's Comments :

*- NO OBJECTION TO USE AKATHERM ONLY FOR KITCHEN DRAINAGE.
- INSTALLATION SHALL BE AS PER PROJECT SPECIFICATION*

A. APPROVED []

B. APPROVED WITH COMMENTS

C. REJECTED []

Reviewed by: SPMC / HOC

Approved by: COO

Date:

Date:



P&T Architects and Engineers Ltd.

PROJECT	INTERCONTINENTAL HOTEL, MINA AL ARAB, RAS AL KHAIMAH, UAE		
Submittal Ref. No.	MS/AAC/IRH/MEP/MECH/PL/0024R0	Date	17-Sep-18
Subject	HDPE PIPES and FITTINGS (U/G Kitchen Piping)		

STATUS	B
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Comments:

This material submittal deals with HDPE Pipes and Fittings for **Underground Kitchen - Drainage System** by M/s "AKATHERM / Bin Moosa & Daly Limited, LLC - Abu Dhabi, UAE" is included in the approved vendors list for Plumbing Pipeworks. However, Akatherm Fittings are made in the EU, but the Akatherm Pipes are made in Saudi Arabia (not from the EU as per approved country of origin), as described in the attached confirmation letter from m/s "Akatherm".

1. In the absence of Specification/Vendor for Underground Kitchen - Drainage System materials. Hence, No technical objection to the proposed HDPE pipes and fittings by Akatherm - EU/Saudi Arabia, and in compliance with Engineers' Response to RFI No. RFI/AAC/IRH/MEP/PL-0007R0 (dated 26 August 2018), as per attached documents.
2. Subject to usage as per approved shop drawings.
3. No objection with the material samples with kitemark.
4. Handling/storing and installation/fixation shall be as per manufacturer's instructions, recommendations and approved installation details / shop drawings.
5. Subject to Employer's approval.

Reviewed by:

Date: 25-Sep-18


Henry M. Alagad
Senior Mechanical Engineer



(A) - Checked and reviewed work may proceed. (B) - Reviewed subject to minor revision as noted work may

Proceed as per amendments noted. (C) - Rejected & Resubmit. (D) - For Information and records

Project :	Residential Tower Development Plot C5, Reem Island , Abu Dhabi
Project Manager :	Wafra Real Estate Company
Engineer :	Keo International Consultant

Main Contractor:	Dhafir Development & Contracting LLC.
Bid Pack No. :	Main Package

MATERIAL APPROVAL SUBMITTAL

Date :	31-Jul-19	Day :	Wednesday
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MAS No.	P375/MAS/PL/005	REV:	00
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Proposed Material : HDPE Pipes & Fittings

Specified Manufacturers	Origin	Supplier	Proposed Manufacturer	Origin	Supplier
Geberit	Switzerland.	-	Akatherm	KSA & Netherlands	Aquaplex (FZE)
Akatherm	-	-			
Coestilen	Italy	-			
Durapipe	UK	-			
Terrain	UK	-			
HEPWORTH	UK	-			
Geroge Fisher	Switzerland.	-			

RECEIVED
 04 AUG 2019
 By: *[Signature]*
 BDC - P375

Wafra Plot C05
RECEIVED
 04 AUG 2019
 05:50A
 KEO
 RES. NO.: 11-7578-CMD

BOQ Ref :		Drawing Ref :	
Specs. Ref :	22 1300/4	CPM Ref :	

Attachments [Tick as appropriate]

Catalogue
 Samples
 Test Certificate
 (others- pls Specify).....

WE CONFIRM THAT MATERIALS SUBMITTED HERewith HAVE BEEN REVIIEWED AND ARE IN STRICT CONFORMANCE WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS EXCEPT OTHERWISE STATED

Issued by Contractor Representative	Name: Abdulhamid Barzaq - Project Manager	Sign & Date:	<i>[Signature]</i>
Received by Engineer	Name:	Sign & Date:	

Resident Engineer to Fill

A- NO OBJECTION
 B- NO OBJECTION SUBJECT TO INCORPORATION OF ALL COMMENTS AS NOTED
 C - REJECTED

Comments: B

No objection for Proposed Akatherm Pipes & Fittings. All fittings shall be joint with electrofusion joints. Velocity breakers to be included. Acoustic Insulation to be submitted separately.

[Signature] 4/8/19

Distribution		Issued By: (Resident Engineer)	
	Original	Copy	Signature : <i>[Signature]</i>
Engineer		<input checked="" type="checkbox"/>	Date : 4/8/19
Engineer		<input checked="" type="checkbox"/>	Time : 11:15
Contractor		<input checked="" type="checkbox"/>	

Received by the Contractor's Representative		Signature :	Date :
Name			

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