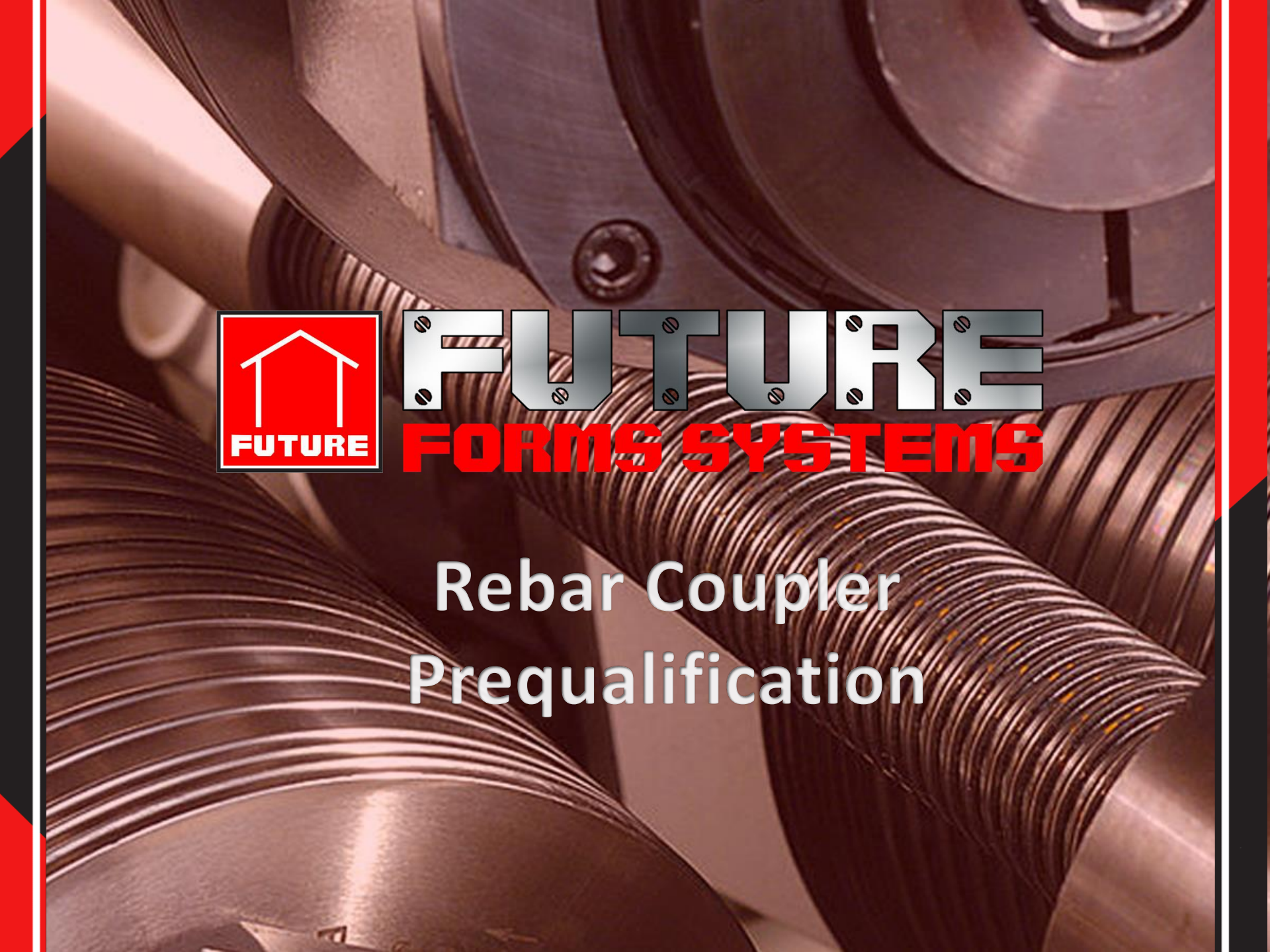
FUTURE
FUTURE
FORMS SYSTEMS
Rebar Coupler
Prequalification

Table of Content

Company introduction	2
FUTURE coupler features	3
Standard couplers	4
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Introduction

Rebar Couplers are devices used to connect steel bars in reinforced concrete structures that are more beneficial than the conventional method of lap splicing.

FUTURE Couplers are the best cost efficient system that guarantees that the ultimate performance of the reinforcement with avoidance of connection failures.

Benefits

- Every connection is pull tested during the extrusion cycle.
- No reduction of the cross section area of the bar.
- Solves bar congestion problems.
- Shortens construction cycle time.
- Reduces steel wastage.

FUTURE Coupler features

- Designed and manufactured in compliance with ACI318, BS8110
- Full-Tension splice, bar break under tensile tests.
- Easy to operate and maintain, High production efficiency and fast installation, no need for skilled technicians.
- Several types of splices, which could be suitable for rebar splicing when the rebar cage or the bending rebar is used.
- The splices could be produced in advance without influencing the construction period.
- Inexpensive to purchase, maintain and repair.
- Manufactured under strict quality assurance plans.

Standard Coupler

3 Step process

- **Cutting:** The end of the rebar is sawn cut by special cutting machine for bar splicing.
- **Rolling:** The sawn cut end of the rebar is directly rolled using a thread rolling machine.
- **Splicing:** Connecting rebars using couplers.

Installation

- For rebars to be connected with standard coupler, the effective threading length of each rebar end should be half of the tube coupler length. (see TABLE-1)
- Tighten the coupler with wrench so that the two threaded rebar ends can push against each other tightly in the middle of the coupler.
- After splicing, the effective screw threads on rebar ends outside the coupler should be no more than two threads on each side

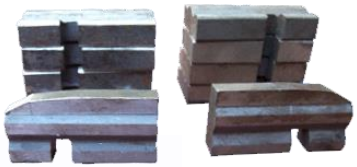
Size	Effective Thread Length (mm)	Wrench Torque Setting (Nm^2)
Ø 16	22.5	120
Ø 18	25.0	150
Ø 20	27.5	180
Ø 22	30.0	220
Ø 25	32.5	270
Ø 28	35.0	270
Ø 32	40.0	300
Ø 36	40.0	300
Ø 40	50.0	300

(Table 1)

Standard Coupler

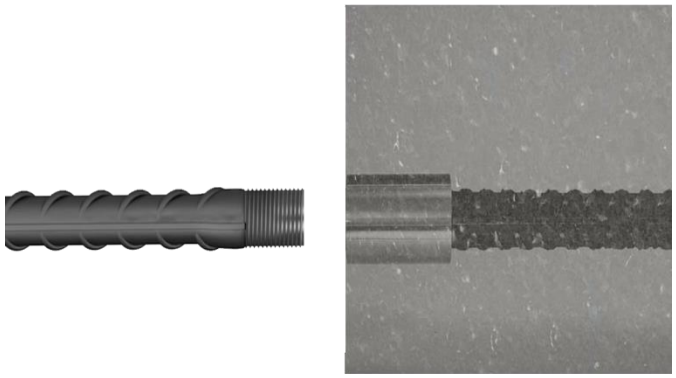
Thread rolling machine

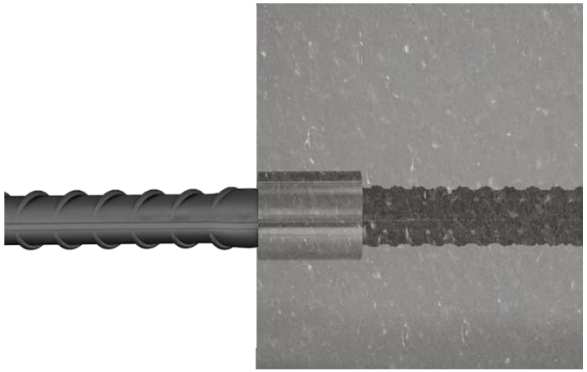
Thread roller



Rib Cutter

Torque Wrench





Cold forge Coupler

3 Step process

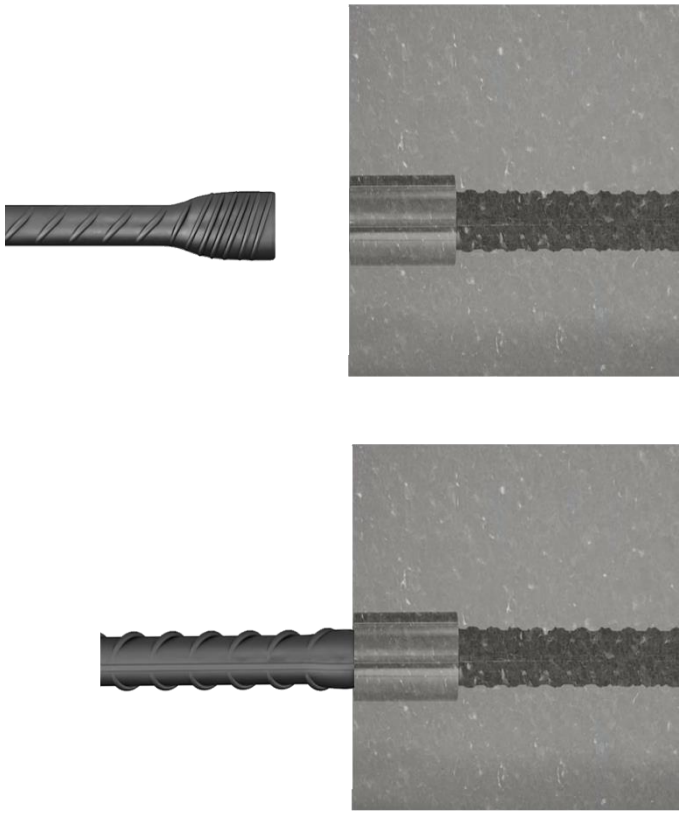
- **Cutting:** The end of the rebar is sawn cut by special cutting machine.
- **Cold Forging:** The sawn end of the bar is then enlarged by a cold forging process.
- **Threading:** Thread is mechanically formed onto the enlarged end of the bar.

Cold Forging coupler calculation

Bar Diameter (mm)	Out Diameter of Coupler (mm)	Length of Coupler (mm)	Thread Size (mm)		Weight of Coupler (kg)
			Direct Rolling	Rolling after Stripping	
16	23	42	M17 x 2.5	M16.5 x 2.5	0.07
18	28	46	M19 x 2.5	M18.5 x 2.5	0.13
20	30	50	M21 x 2.5	M20.5 x 2.5	0.15
22	33	54	M23 x 2.5	M22.5 x 2.5	0.19
25	38	62	M26 x 2.5	M25.5 x 2.5	0.30
28	43	68	M29 x 2.5	M28.5 x 2.5	0.43
32	48	76	M33 x 2.5	M32.5 x 2.5	0.58
36	53	84	M37 x 2.5	M36.5 x 2.5	0.93
40	60	92	M41 x 2.5	M40.5 x 2.5	1.25

Cold forge Coupler

Upset Rolling Machine



Product quality certificate

Future Scaffolding And Aluminum Industries LLC.

Product quality certificate

Date: 01/04/2019 No: 20190104

		Chemical composition								Mechanical Behavior		Process performance	
Product	Specification	C	Si	S	Mn	P	Cr	Ni	Cu	Tensile strength Kn	Yield point Kn	Squash	NDT
Rebar Coupler	Ø 28 x 5.5	0.2	0.27	0.02	1.66	0.02	0.4	0.07	0.06	192	130	Qualified	Qualified

Signature:

P.O.Box: 119950
Dubai - U.A.E

Certification

Certificate Of Registration

Awarded to

FUTURE SCAFFOLDING AND ALUMINIUM INDUSTRIES LLC

at

P.O.BOX NO: 119950, DUBAI INDUSTRIAL CITY, DUBAI, 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

ALUMINIUM EXTRUSION, ALUMINIUM FORM WORK, ALUMINIUM SCAFFOLDING, ALUMINIUM & STEEL FABRICATION AND METAL COATING

EA 17
Certificate No: DQU-30221
Originally Registered: 25 OCT 2016
Latest Issue: 30 OCT 2018
Valid up-to: 24 OCT 2019

Quality Registrar Systems

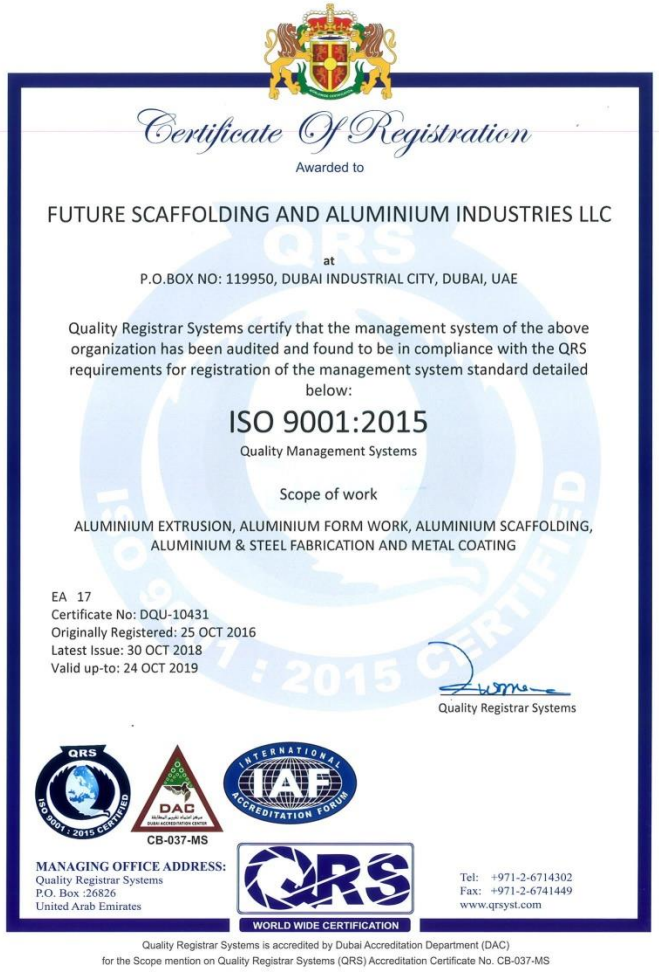
CB-037-MS

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

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

WORLD WIDE CERTIFICATION

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 Registration

Awarded to

FUTURE SCAFFOLDING AND ALUMINIUM INDUSTRIES LLC

at

P.O.BOX NO: 119950, DUBAI INDUSTRIAL CITY, DUBAI, 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

ALUMINIUM EXTRUSION, ALUMINIUM FORM WORK, ALUMINIUM SCAFFOLDING, ALUMINIUM & STEEL FABRICATION AND METAL COATING

EA 17
Certificate No: DQU-10431
Originally Registered: 25 OCT 2016
Latest Issue: 30 OCT 2018
Valid up-to: 24 OCT 2019

Quality Registrar Systems

CB-037-MS

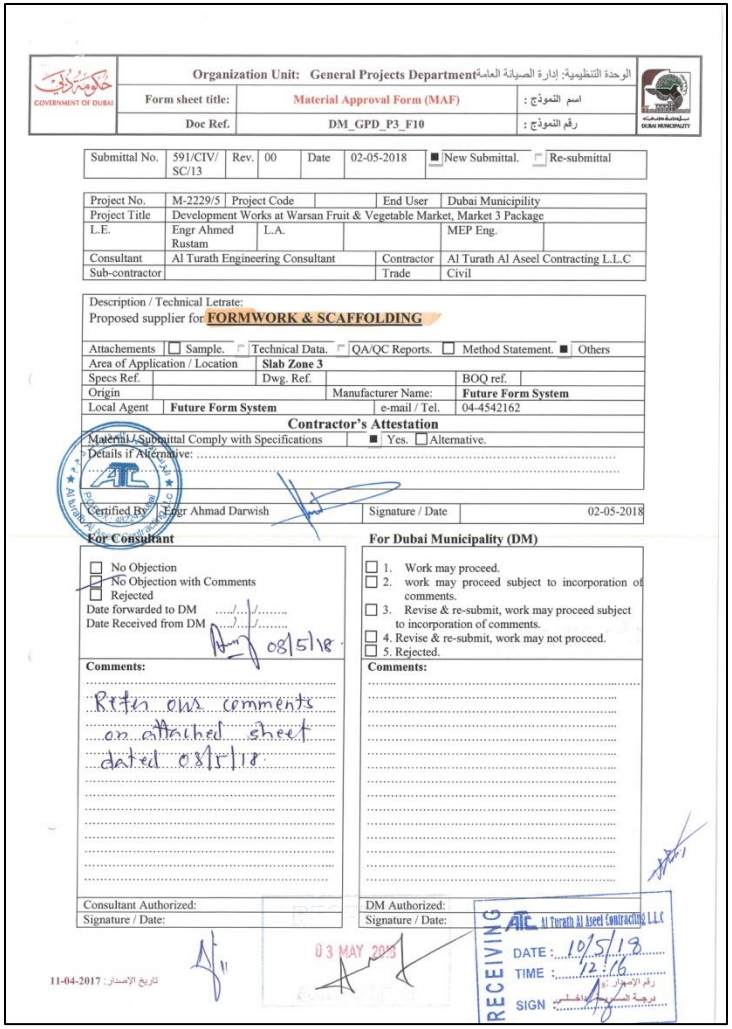
MANAGING OFFICE ADDRESS:
Quality Registrar Systems
P.O. Box :26826
United Arab Emirates

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

WORLD WIDE CERTIFICATION

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

Municipality Approval



GOVERNMENT OF DUBAI

Organization Unit: General Projects Department الوحدة التنظيمية: إدارة الصيانة العامة

Form sheet title: Material Approval Form (MAF) اسم النموذج :

Doc Ref. DM_GPD_P3_F10 رقم النموذج :

DUBAI MUNICIPALITY

Submittal No.	591/CIV/ SC/13	Rev.	00	Date	02-05-2018	■ New Submittal.	☐ Re-submittal

Project No.	M-2229/5	Project Code		End User	Dubai Municipility
Project Title	Development Works at Warsan Fruit & Vegetable Market, Market 3 Package				
L.E.	Engr Ahmed Rustam	L.A.		MEP Eng.	
Consultant	Al Turath Engineering Consultant			Contractor	Al Turath Al Aseel Contracting L.L.C
Sub-contractor				Trade	Civil

Description / Technical Letrate:

Proposed supplier for **FORMWORK & SCAFFOLDING**

Attachements	☐ Sample.	☐ Technical Data.	☐ QA/QC Reports.	☐ Method Statement.	■ Others
Area of Application / Location	**Slab Zone 3**				
Specs Ref.		Dwg. Ref.		BOQ ref.	
Origin		Manufacturer Name:		**Future Form System**	
Local Agent	**Future Form System**	e-mail / Tel.		04-4542162	

Contractor's Attestation

Material / Submittal Comply with Specifications ■ Yes. ☐ Alternative.

Details if Alternative: .....

Certified By: Engr Ahmad Darwish | Signature / Date: | 02-05-2018

For Consultant

☐ No Objection
☐ No Objection with Comments
☐ Rejected

Date forwarded to DM ...../...../.....
Date Received from DM ...../...../.....

08/5/18

Comments:

Refer ows comments on attached sheet dated 08/5/18

Consultant Authorized:
Signature / Date:

For Dubai Municipality (DM)

☐ 1. Work may proceed.
☐ 2. work may proceed subject to incorporation of comments.
☐ 3. Revise & re-submit, work may proceed subject to incorporation of comments.
☐ 4. Revise & re-submit, work may not proceed.
☐ 5. Rejected.

Comments:

DM Authorized:
Signature / Date:

03 MAY 2018

RECEIVING
Al Turath Al Aseel Contracting L.L.C
DATE : 10/5/18
TIME : 12:16
SIGN

11-04-2017 تاريخ الإصدار: رقم الإصدار: درجة السرية: داخلي

Key Consultant Approval

Contract No.: DMS 136223
Proj. No.: D11109-0200D
ENGINEER: Dar Al Handasah (Shair and Partners)
dar al-handasah shair and partners

EMPLOYER: Nakheel
NAKHEEL
P.O.BOX: 17777, DUBAI, UNITED ARAB EMIRATES

CONTRACTOR: Gulf Technical Construction Co. LLC
GTCC

SCA No. PQF-STR-033000-019-R0
Date 31-May-16

SUB-CONTRACTOR'S APPROVAL

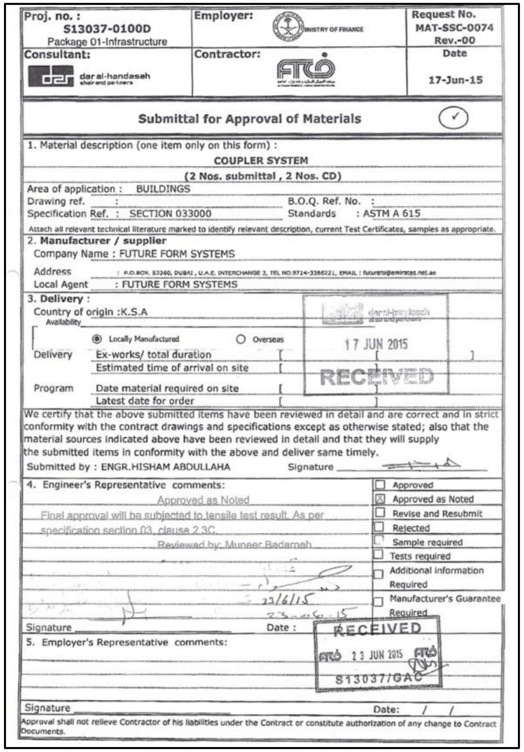
1. SUB-CONTRACTOR'S PARTICULARS
Company Name: Future Form System
Company Line or Works: Supply of Rebar Coupler
Address: P.O. Box: 52360, Tel: 04-4542162, Fax: 04-4542170
The following prequalifying documents should be enclosed:
☑ Commercial Register ☐ Founding Contract ☑ Summary of Experience ☐ Financial Status
☑ Present Works ☐ Company Staff ☐ Company Equipment

2. SUB-CONTRACTED WORKS
Section of the Works: 033000 - Concrete Works
BOQ Items
Total Value of Sub-Contract (in Contract Rates):
Cumulative Value of Sub-Contracted Works to-date (in Contract Rates):
Submitted by: Raj Allawadhi Signature: 31/5/16

3. ENGINEER'S COMMENTS
As approved
☐ Approved
☑ Approved As Noted
☐ Additional Info Required
☐ Rejected
Signature DATE: 03/06/2016

CLIENT:
☐ Approved
☐ Approved As Noted
☐ Additional Info Required
☐ Rejected
Signature DATE: / /

RECEIVED 31 MAY 2016 DAR AL HANDASAH THE POINTE
RECEIVED 05 JUN 2016 GTCC
TP/06/16/HMK-LT-26495 (04-JUNE 2016)
SCA-1



Proj. no.: S13037-0100D
Package 01-Infrastructure
Employer: MINISTRY OF FINANCE
Request No. MAT-SSC-0074 Rev.-00
Consultant: dar al-handasah shair and partners
Contractor: FTCO
Date 17-Jun-15

Submittal for Approval of Materials ✓

1. Material description (one item only on this form):
COUPLER SYSTEM
(2 Nos. submittal, 2 Nos. CD)
Area of application: BUILDINGS
Drawing ref. : B.O.Q. Ref. No. :
Specification Ref. : SECTION 033000 Standards : ASTM A 615
Attach all relevant technical literature marked to identify relevant description, current Test Certificates, samples as appropriate.

2. **Manufacturer / supplier**
Company Name : FUTURE FORM SYSTEMS
Address : P.O.BOX. 52360, DUBAI, U.A.E. INTERCHANGE 3, TEL NO.9714-3386221, EMAIL : futurefo@emirates.net.ae
Local Agent : FUTURE FORM SYSTEMS

3. **Delivery** :
Country of origin :K.S.A
Availability
◉ Locally Manufactured ○ Overseas
Delivery Ex-works/ total duration [ ]
Estimated time of arrival on site [ ]
Program Date material required on site [ ]
Latest date for order [ ]

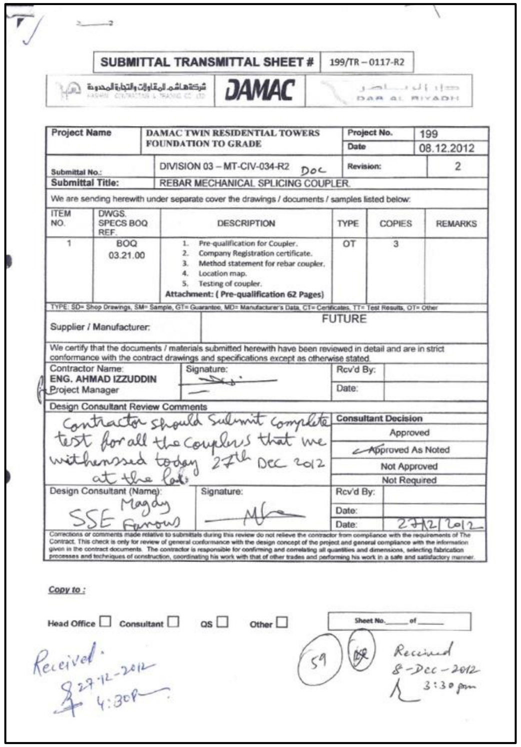
dar al-handasah shair and partners 17 JUN 2015 RECEIVED

We certify that the above submitted items have been reviewed in detail and are correct and in strict conformity with the contract drawings and specifications except as otherwise stated; also that the material sources indicated above have been reviewed in detail and that they will supply the submitted items in conformity with the above and deliver same timely.
Submitted by : ENGR.HISHAM ABDULLAHA Signature

4. Engineer's Representative comments:
Approved as Noted
Final approval will be subjected to tensile test result. As per specification section 03, clause 2.3C.
Reviewed by: Muneer Badarneh
23/6/15
☐ Approved
☒ Approved as Noted
☐ Revise and Resubmit
☐ Rejected
☐ Sample required
☐ Tests required
☐ Additional information Required
☐ Manufacturer's Guarantee Required
Signature Date :

RECEIVED FTCO 23 JUN 2015 S13037/GAC

5. Employer's Representative comments:
Signature Date: / /
Approval shall not relieve Contractor of his liabilities under the Contract or constitute authorization of any change to Contract Documents.



SUBMITTAL TRANSMITTAL SHEET # 199/TR – 0117-R2

شركة هاشم للمقاولات والتجارة المحدودة DAMAC DAR AL RIYADH

Project Name	DAMAC TWIN RESIDENTIAL TOWERS FOUNDATION TO GRADE	Project No.	199
		Date	08.12.2012
Submittal No.:	DIVISION 03 – MT-CIV-034-R2 Doc	Revision:	2
Submittal Title:	REBAR MECHANICAL SPLICING COUPLER.		

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

ITEM NO.	DWGS. SPECS BOQ REF.	DESCRIPTION	TYPE	COPIES	REMARKS
1	BOQ 03.21.00	1. Pre-qualification for Coupler. 2. Company Registration certificate. 3. Method statement for rebar coupler. 4. Location map. 5. Testing of coupler. Attachment: (Pre-qualification 62 Pages)	OT	3	

TYPE: SD= Shop Drawings, SM= Sample, GT= Guarantee, MD= Manufacturer's Data, CT= Certificates, TT= Test Results, OT= Other

Supplier / Manufacturer: FUTURE

We certify that the documents / materials submitted herewith have been reviewed in detail and are in strict conformance with the contract drawings and specifications except as otherwise stated.
Contractor Name: ENG. AHMAD IZZUDDIN Project Manager Signature: Rcv'd By: Date:

Design Consultant Review Comments
Contractor should Submit complete test for all the couplers that we withenssed today 27th Dec 2012 at the lab.

Consultant Decision
Approved
Approved As Noted ✓
Not Approved
Not Required

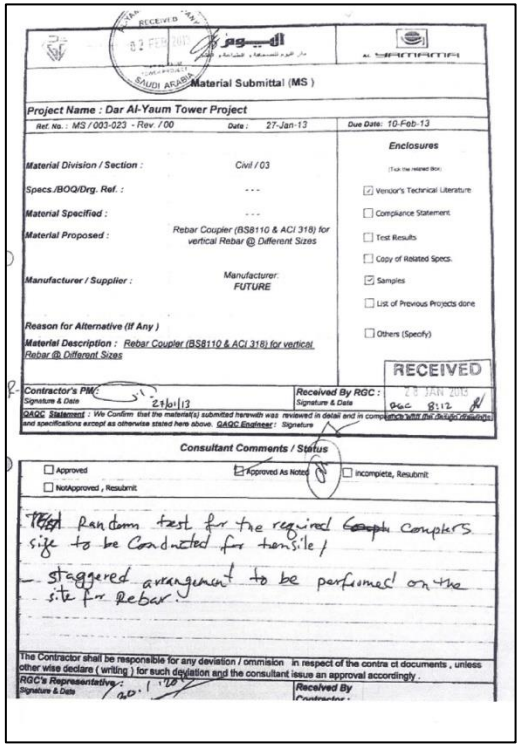
Design Consultant (Name): SSE Magdy Fanous Signature: Rcv'd By: Date: Date: 27/12/2012

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.

Copy to :
Head Office ☐ Consultant ☐ QS ☐ Other ☐ Sheet No.____ of ______

Received. 27-12-2012 4:30pm
59
Received 8-Dec-2012 3:30 pm

Key Consultant Approval



Material Submittal (MS)

Project Name : Dar Al-Yaum Tower Project

Ref. No. : MS / 003-023 - Rev. /00 | Date : 27-Jan-13 | Due Date: 10-Feb-13

Material Division / Section : Civil / 03

Specs./BOQ/Drg. Ref. : ---

Material Specified : ---

Material Proposed : Rebar Coupler (BS8110 & ACI 318) for vertical Rebar @ Different Sizes

Manufacturer / Supplier : Manufacturer: FUTURE

Reason for Alternative (If Any)

Material Description : Rebar Coupler (BS8110 & ACI 318) for vertical Rebar @ Different Sizes

Enclosures

- [x] Vendor's Technical Literature
- [ ] Compliance Statement
- [ ] Test Results
- [ ] Copy of Related Specs.
- [x] Samples
- [ ] List of Previous Projects done
- [ ] Others (Specify)

RECEIVED

Contractor's PM: Signature & Date 23/1/13

Received By RGC : Signature & Date 23 JAN 2013 8:12

QAQC Statement : We Confirm that the material(s) submitted herewith was reviewed in detail and in compliance with the design drawings and specifications except as otherwise stated here above. QAQC Engineer : Signature

Consultant Comments / Status

- [ ] Approved
- [x] Approved As Noted
- [ ] Incomplete, Resubmit
- [ ] NotApproved , Resubmit

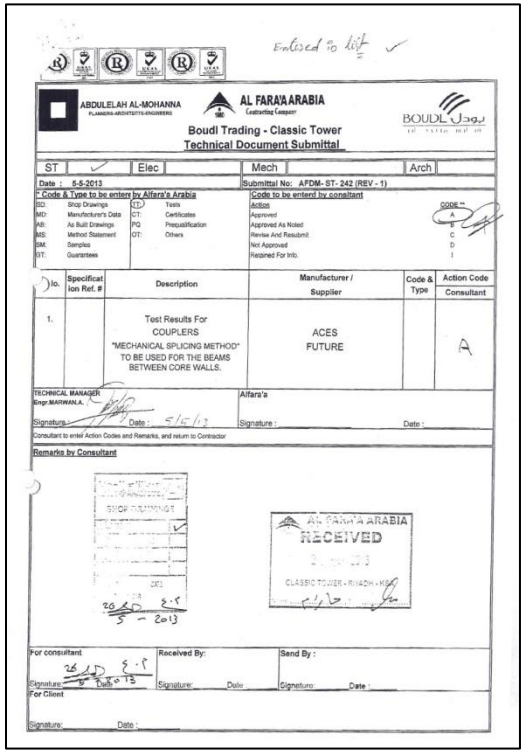
Random test for the required Couplers size to be Conducted for tensile /

- staggered arrangement to be performed on the site for Rebar.

The Contractor shall be responsible for any deviation / ommision in respect of the contra ct documents , unless other wise declare (writing) for such deviation and the consultant issue an approval accordingly .

RGC's Representative: Signature & Date 20.1.13

Received By Contractor:



Enlisted in list ✓

ABDULELAH AL-MOHANNA PLANNERS-ARCHITECTS-ENGINEERS

AL FARA'A ARABIA Contracting Company

BOUDL بودل

Boudl Trading - Classic Tower

Technical Document Submittal

ST | Elec | Mech | Arch

Date : 5-5-2013 | Submittal No: AFDM- ST- 242 (REV - 1)

* Code & Type to be entered by Alfara'a Arabia

SD: Shop Drawings | CT: Tests
MD: Manufacturer's Data | CT: Certificates
AB: As Built Drawings | PQ: Prequalification
MS: Method Statement | OT: Others
SM: Samples
GT: Guarantees

Code to be enterd by consltant

Action: Approved | Approved As Noted | Revise And Resubmit | Not Approved | Retained For Info.

CODE: A | B | C | D | I

No.	Specification Ref. #	Description	Manufacturer / Supplier	Code & Type	Action Code Consultant
1.		Test Results For COUPLERS "MECHANICAL SPLICING METHOD" TO BE USED FOR THE BEAMS BETWEEN CORE WALLS.	ACES FUTURE		A

TECHNICAL MANAGER Engr.MARWAN.A. Signature: Date: 5/5/13

Alfara'a Signature: Date:

Consultant to enter Action Codes and Remarks, and return to Contractor

Remarks by Consultant

SHOP DRAWINGS

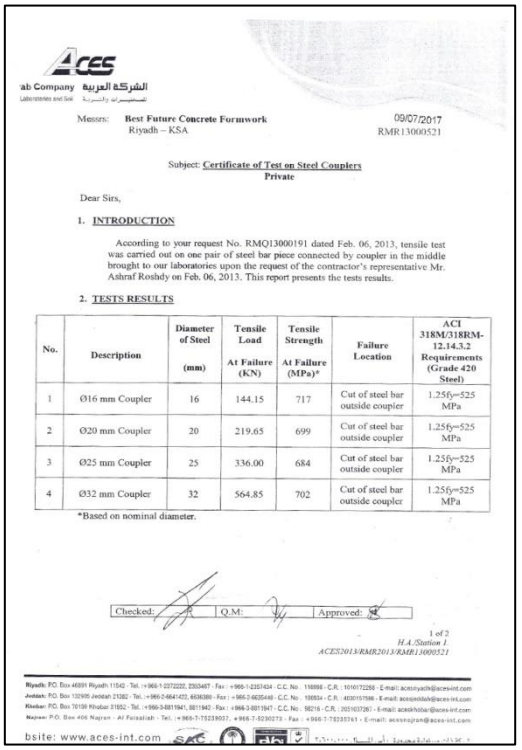
AL FARA'A ARABIA RECEIVED CLASSIC TOWER - RIYADH - KSA

For consultant Signature: Date: 5-5-2013

Received By: Signature: Date:

Send By : Signature: Date:

For Client Signature: Date:



ACES

Arab Company الشركة العربية

Messrs: Best Future Concrete Formwork
Riyadh – KSA

09/07/2017
RMR13000521

Subject: Certificate of Test on Steel Couplers
Private

Dear Sirs,

1. INTRODUCTION

According to your request No. RMQ13000191 dated Feb. 06, 2013, tensile test was carried out on one pair of steel bar piece connected by coupler in the middle brought to our laboratories upon the request of the contractor's representative Mr. Ashraf Roshdy on Feb. 06, 2013. This report presents the tests results.

2. TESTS RESULTS

No.	Description	Diameter of Steel (mm)	Tensile Load At Failure (KN)	Tensile Strength At Failure (MPa)*	Failure Location	ACI 318M/318RM-12.14.3.2 Requirements (Grade 420 Steel)
1	Ø16 mm Coupler	16	144.15	717	Cut of steel bar outside coupler	1.25fy=525 MPa
2	Ø20 mm Coupler	20	219.65	699	Cut of steel bar outside coupler	1.25fy=525 MPa
3	Ø25 mm Coupler	25	336.00	684	Cut of steel bar outside coupler	1.25fy=525 MPa
4	Ø32 mm Coupler	32	564.85	702	Cut of steel bar outside coupler	1.25fy=525 MPa

*Based on nominal diameter.

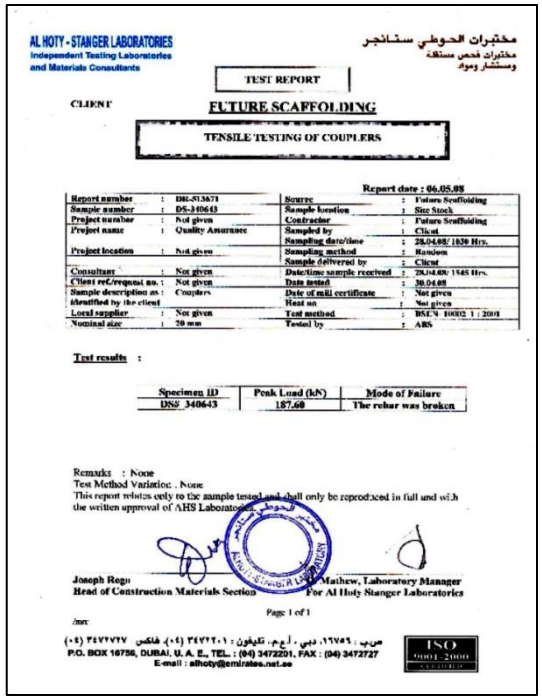
Checked: Q.M: Approved:

1 of 2
H.A./Station 1
ACES2013/RMR2013/RMR13000521

Riyadh: P.O. Box 46891 Riyadh 11562 - Tel. +966-1-2272222, 2353457 - Fax : +966-1-2357434 - C.C. No. : 116896 - C.R. : 1010172256 - E-mail: acesriyadh@aces-int.com
Jeddah: P.O. Box 132909 Jeddah 21382 - Tel. +966-2-6641422, 6636389 - Fax : +966-2-6635448 - C.C. No. : 106934 - C.R. : 4030157586 - E-mail: acesjeddah@aces-int.com
Khobar: P.O. Box 76199 Khobar 31952 - Tel. +966-3-8811941, 8811942 - Fax : +966-3-8811947 - C.C. No. : 58216 - C.R. : 2051037261 - E-mail: aceskhobar@aces-int.com
Najran: P.O. Box 466 Najran - Al Faisaliah - Tel. +966-7-75233607, +966-7-75230173 - Fax : +966-7-75230761 - E-mail: acesnajran@aces-int.com

bsite: www.aces-int.com

Lab test results



AL HOTY - STANGER LABORATORIES
Independent Testing Laboratories and Materials Consultants

مختبرات الحوطي ستانجر
مختبرات فحص مستقلة ومستشار ومواد

TEST REPORT

CLIENT: FUTURE SCAFFOLDING

TENSILE TESTING OF COUPLERS

Report date : 06.05.08

Report number	: DR-513671	Source	: Future Scaffolding
Sample number	: DS-340643	Sample location	: Site Stock
Project number	: Not given	Contractor	: Future Scaffolding
Project name	: Quality Assurance	Sampled by	: Client
		Sampling date/time	: 28.04.08/ 1030 Hrs.
Project location	: Not given	Sampling method	: Random
		Sample delivered by	: Client
Consultant	: Not given	Date/time sample received	: 28.04.08/ 1545 Hrs.
Client ref./request no.	: Not given	Date tested	: 30.04.08
Sample description as identified by the client	: Couplers	Date of mill certificate	: Not given
		Heat no	: Not given
Local supplier	: Not given	Test method	: BSEN- 10002 1 : 2001
Nominal size	: 20 mm	Tested by	: ABS

Test results :

Specimen ID	Peak Load (kN)	Mode of Failure
DS# 340643	187.60	The rebar was broken

Remarks : None
Test Method Variation : None
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Joseph Rego
Head of Construction Materials Section

A. Mathew, Laboratory Manager
For Al Hoty Stanger Laboratories

Page 1 of 1

/mrr

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P.O. BOX 16756, DUBAI, U. A. E., TEL. : (04) 3472201, FAX : (04) 3472727
E-mail : alhoty@emirates.net.ae

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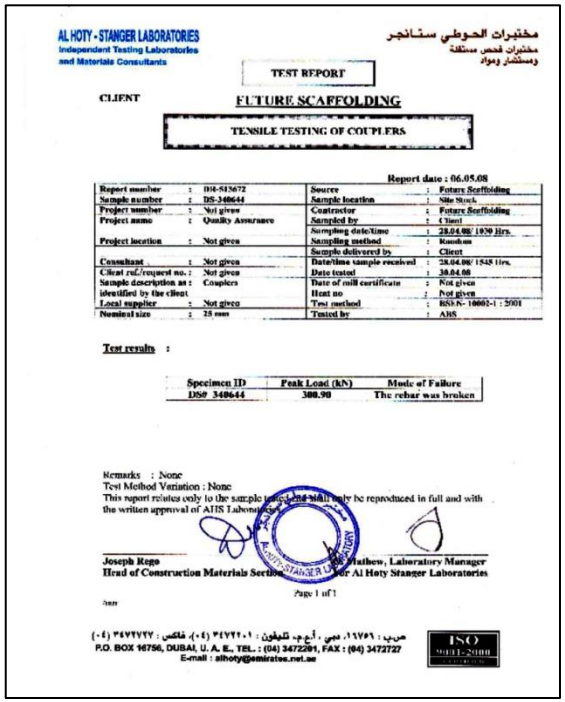

AL HOTY - STANGER LABORATORIES
Independent Testing Laboratories and Materials Consultants

مختبرات الحوطي ستانجر
مختبرات فحص مستقلة ومستشار ومواد

TEST REPORT

CLIENT: FUTURE SCAFFOLDING

TENSILE TESTING OF COUPLERS

Report date : 06.05.08

Report number	: DR-513672	Source	: Future Scaffolding
Sample number	: DS-340644	Sample location	: Site Stock
Project number	: Not given	Contractor	: Future Scaffolding
Project name	: Quality Assurance	Sampled by	: Client
		Sampling date/time	: 28.04.08/ 1030 Hrs.
Project location	: Not given	Sampling method	: Random
		Sample delivered by	: Client
Consultant	: Not given	Date/time sample received	: 28.04.08/ 1545 Hrs.
Client ref./request no.	: Not given	Date tested	: 30.04.08
Sample description as identified by the client	: Couplers	Date of mill certificate	: Not given
		Heat no	: Not given
Local supplier	: Not given	Test method	: BSEN- 10002-1 : 2001
Nominal size	: 25 mm	Tested by	: ABS

Test results :

Specimen ID	Peak Load (kN)	Mode of Failure
DS# 340644	380.90	The rebar was broken

Remarks : None
Test Method Variation : None
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E-mail : alhoty@emirates.net.ae

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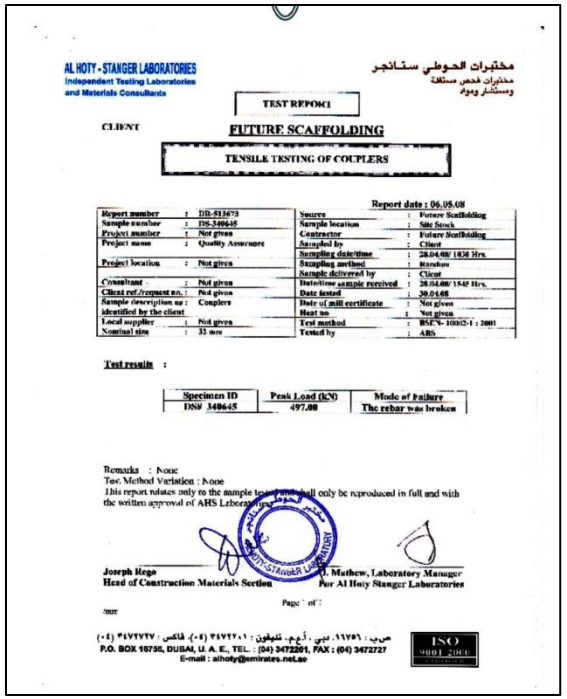

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مختبرات الحوطي ستانجر
مختبرات فحص مستقلة ومستشار ومواد

TEST REPORT

CLIENT: FUTURE SCAFFOLDING

TENSILE TESTING OF COUPLERS

Report date : 06.05.08

Report number	: DR-513673	Source	: Future Scaffolding
Sample number	: DS-340645	Sample location	: Site Stock
Project number	: Not given	Contractor	: Future Scaffolding
Project name	: Quality Assurance	Sampled by	: Client
		Sampling date/time	: 28.04.08/ 1030 Hrs.
Project location	: Not given	Sampling method	: Random
		Sample delivered by	: Client
Consultant	: Not given	Date/time sample received	: 28.04.08/ 1545 Hrs.
Client ref./request no.	: Not given	Date tested	: 30.04.08
Sample description as identified by the client	: Couplers	Date of mill certificate	: Not given
		Heat no	: Not given
Local supplier	: Not given	Test method	: BSEN- 10002-1 : 2001
Nominal size	: 32 mm	Tested by	: ABS

Test results :

Specimen ID	Peak Load (kN)	Mode of Failure
DS# 340645	497.00	The rebar was broken

Remarks : None
Test Method Variation : None
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P.O. BOX 16756, DUBAI, U. A. E., TEL. : (04) 3472201, FAX : (04) 3472727
E-mail : alhoty@emirates.net.ae

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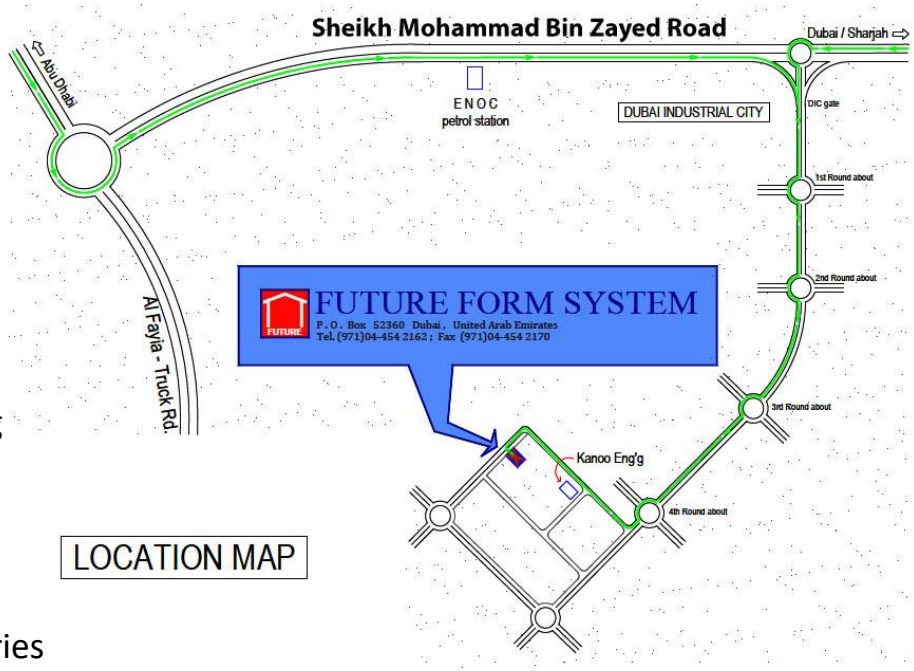
Company Information

FUTURE Form systems
Plot 34023, Dubai industrial city
PO Box 52360, Dubai - UAE

Tel: 04 454 21 62 Fax 04 454 21 70

Website: www.Futureformwork.com



Trade Name: Future scaffolding and Aluminium trading
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DCCI no. 92879

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Register no. 74756
DCCI no. 98668


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