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Test Certificate

Bautech International LLC
P.O. Box 27922
Dubai
U.A.E.

Report Number : A 300058 : Issue 2
Page 1 of 2
Order Number POD-001997
Date Tested 09/01/13
Date Reported 17/01/13

Attn: Mr. Waleed El - Hussein

Item - 16mm Dia. Pressing / Grip Coupler; Ref: D300039
Material Grade: B500B; Coupler ID: CBT(Dia.)16081112
Project: DCL Certificate

Specification - Client Requirement (BS 8110-1:1997)

Tensile Test - BS 8110-1: 1997

	Dimensions [mm]	Area [mm ²]	UTL [kN]	UTS [N/mm ²]	Fracture Location	Fracture Type
001:Coupled Rebar	16.00	201.06	126.80	631	Detached	--
002:Coupled Rebar	16.00	201.06	123.00	612	Rebar	--
003:Coupled Rebar	16.00	201.06	125.40	624	Detached	--

Item 01: Permanent Elongation at 60% SMYS = 0.094 mm
Item 02: Permanent Elongation at 60% SMYS = 0.073 mm
Item 03: Permanent Elongation at 60% SMYS = 0.095 mm

Certificate Comments

Test Instructions

- 1) Apply 30 kN pre-load to assembly
- 2) Fix extensometer and transducer at approx. 150 mm GL
- 3) Zero extension axis on x-y plotter
- 4) Apply tensile load equivalent to 60% of the YS (300 N/mm²)
= 60.3 kN (loading rate 10 N/mm² / second max)
- 5) Terminate load application at 60% YS
- 6) Measure permanent set (maximum specified = 0.1 mm)
- 7) Remove extensometer
- 8) Apply tensile load on test sample until fracture
(loading rate of 120mm/min)

----- End of Text -----


Tested by Exova Abu Dhabi Laboratory

David Robinson
Operations Manager
Metallurgy

For and on authority of
Exova Limited (Abu Dhabi)

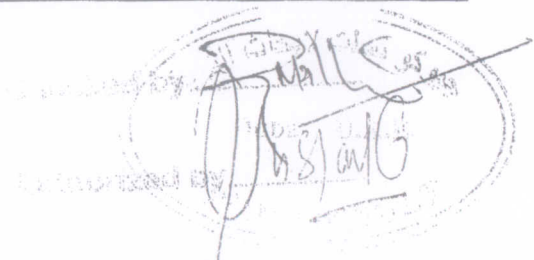
REPORT ON TESTING OF COUPLER REBAR

Contractor	Al Shafar General Contracting LLC	Report No.	GDR 11-70217
Consultant	Khatib & Alami	Request No.	GDQ 11-70217
Client	Dubai National Investment Co. L L C	Date Reported	03/08/2011
Project	Al Habtoor Island Resort & SPA	Local Supplier	N.P
Project No.	270	Lab Project No.	L169/11
Material Grade	460 B		
Location	Plot No. PJCRC34, Jumeirah, Dubai	Coupler Source	Bautech

Sample Description	Steel Grippped Coupler Rebar	Date of Sampling	03/08/2011
Sample Size	1 meter each	Date & Time of Received	03/08/2011; 0930 Hrs
Place of Sampling	Site	Batch Mass	N.P
Sampled by	Contractor	Sampling Certificate	N.P
Sampling Method	BS 4449	Manufacture Certificate	N.P
Test Method	Generally in accordance with BS 4449-1997	Sample brought by	Contractor
Bar Marking		Date of Tested	03/08/2011
Senders Ref. No.	Bautech Int./1	Tested by	ZH
Method Variation	Specimen tested with the nominal area of the rebar	Remarks	N.P

RESULT

Senders Reference	N.P	N.P			
Rebar Source	Turkey (Habas)	Turkey (Habas)			
Sample No. GDS 11-70217/	(1) 1	(1) 2			
Bar Diameter (mm)	16	16			
Coupler Ref. No.	N.P	N.P			
Coupler Outer Diameter (mm)	23.80	24.00			
Coupler Length (mm)	133.60	132.90			
Maximum Load (kN)	122	121			
Tensile Strength (N/mm ²)	605	600			
Failure Mode	ON BAR	ON BAR			


 V. PRABHAKAR
 DEPUTY LAB MANAGER

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 --The test results relate only the sample tested