

**Dubai Central Laboratory**

Engineering Materials Laboratory Section – Structural Unit

**TEST REPORT**

TENSILE TEST OF STEEL STRAND, UNCOATED SEVEN-WIRE FOR PRESTRESSED CONCRETE

REPORT NO. : 2012010875 DATE : 13/02/2012  
 WEB REQUEST NO. : DCL-12022012-0019  
 REQUEST NO. : 2012008260 SAMPLE NO. : 2012011218  
 PROJECT NO. : PS-1497  
 PROJECT NAME : TESTING SERVICES FOR AL NOOR PRE-STRESSED-SHARJAH  
 CONSULTANT : NO SPECIFIC CONSULTANT  
 CONTRACTOR : NO SPECIFIC CONTRACTOR  
 LOCATION : SITE @ AJMAN EMIRATES CITY  
 SOURCE : NOOR-NAT'L RAW MATS.OF PRESTRESSED  
 SAMPLE DESCRIPTION: STEEL STRAND - UNCOATED SEVEN WIRE  
 SUPPLIER : NG

Date of Sampling : 01/02/2012 Time : 11:00 Coil # : 11023-141  
 Date of Receiving Sample : 09/02/2012 Time : 13:30 Lot Size : NG  
 Size of Sample : 10 pcs. Area No. : - Sender No. : MIR/106/501

Nominal Diameter (mm) : 12.7 Manufacturer's Certificate : UA05-003-00101  
 Type of Strand : LOW RELAXATION Grade of Strand : 270

SPECIMEN NO.	1	2	3
Measured Diameter ( mm )	12.73	12.73	12.72
Cross-sectional Area ( mm <sup>2</sup> )	98.7	98.7	98.7
Mass Per Meter ( g/m )	775	775	775
Stranding Pitch ( mm )	189	188	189
Difference between Center & Outer wires ( mm )	0.17	0.18	0.17
Breaking load ( kN )	198.5	197.4	197.7
Yield load at 1% Elongation ( kN )	178.7	176.6	179.1
Elongation at Maximum load ( % )	9.3	8.2	8.8

SAMPLED BY : MAHMOUD KHALAF-Contr TESTED BY : ROBERTO A. RAYMUNDO  
 SAMPLES BROUGHT IN BY : MAHMOUD KHALAF-Contr  
 SAMPLING METHOD : ASTM A 416 - 06 TEST DATE : 12/02/2012  
 SAMPLING REPORT NO. : NG  
 TEST METHOD : ASTM A416/A416M - 10 & ASTM A1061/A1061M-09  
 TEST METHOD VARIATION : NIL

REMARKS :

VERIFIED BY  
HEAD OF UNIT

**This report is computer approved, it does not require any signature**