

Concrete Reinforcing Bar Samples 11 & 12

Please Note:

- The rebar specimens are contained in a total of two boxes.
 - One box for Sample 11 and one for Sample 12.
 - There are three specimens for each sample.
 - DO NOT mix samples.
- The specimens for Sample No. 11 and Sample No. 12 are A615, Grade 60, #8.
- Please allow until July 29th for receipt of samples.
- Read the instructions on the following pages and review ASTM A615 before testing.
- Each rebar specimen has a ID number which is found on the tag attached to the bar. This ID number should be recorded with the test results.
- A370-09 Annex A9.3.5 specifies yield and tensile strength be based on the nominal bar area.
- Report a single gap for rebar with two ribs
- Closing date for test results is September 9, 2011.



July 8, 2011

TO: Participants in the CCRL Concrete Reinforcing Bar Proficiency Sample Program

SUBJECT: Concrete Reinforcing Bar Samples No. 11 and No. 12

The current pair of samples for the Concrete Reinforcing Bar Proficiency Sample has been distributed by way of Federal Express Ground. Please allow until July 29, 2011 for receipt of these samples. If these samples have not been received on this date or if the samples you receive are damaged, notify us by calling 301-975-6704. Replacement samples will be forwarded. Each sample is packaged in a box containing three bars. These mailing tubes are labeled on the outside as to which sample they contain. **Each specimen is tagged with the sample number and specimen identification. Laboratory personnel must make sure the identity of the each specimens is known during testing and the specimen ID must be recorded with the test results.** The two samples must not be mixed.

The specimens are steel bars used for concrete reinforcement, Samples No. 11 and No. 12 are ASTM A615, Grade 60, #8. Tests are to be conducted separately on each sample. Read the enclosed instructions before proceeding with any testing. It is mandatory that these instructions and ASTM standards A615 be followed. These tests should be conducted as soon as possible after the samples are received, and the test results should be promptly reported to CCRL upon completion of testing. Test results should be entered at our website: <http://www.ccrl.us/>. The closing date for test results is September 9, 2011.

Additional samples of this sample pair and past CCRL samples are available for sale. These samples can be used for research, technician training, and test equipment verification. Contact us for availability and pricing.

Sincerely,

Robin K. Haupt
Supervisor, Proficiency Sample Program
Cement and Concrete Reference Laboratory

CEMENT AND CONCRETE REFERENCE LABORATORY
CONCRETE REINFORCING BAR PROFICIENCY SAMPLE PROGRAM
Samples No. 11 and No. 12

Instructions

INSTRUCTIONS FOR TESTING

- 1 CCRL Concrete Reinforcing Bar Proficiency Samples Number 11 and Number 12 were distributed July 7, 2011. You should receive two mailing tubes, with each containing three steel reinforcing bars. Sample No. 11 and No. 12 specimens are Grade 60, #8 bars manufactured to comply with ASTM A615 Deformed and Plain Carbon-Steel Bars for Concrete Reinforcement. Please allow 3 weeks for receipt of these samples. **If you have not received two containers by July 29, 2011**, please notify CCRL Proficiency Sample Program, phone: 301-975-6704.
- 2 Each box should be labeled as Sample No. 11 or Sample No. 12. Each specimen is identified with tags. Sample No. 11 is identified with white tags and Sample No. 12 is identified with red tags. In addition to the sample number these labels also contain specimen identification numbers which must be recorded on the reporting forms. **Each specimen should be checked for proper labeling with its identity before removal from its container.** The two samples **must not be mixed**.
- 3 Verify that you have received a total of six pieces of reinforcing bars, three bars of Sample No. 11 and three bars of Sample No. 12, and that they are in good condition. Notify CCRL of any damaged or missing samples.
- 4 Perform all testing in accordance with ASTM Standard A615-09. A copy of this edition of the standard, may be obtained directly from ASTM, phone: 610-832-9585.
- 5 Base yield and tensile strength on the nominal bar area.
- 6 Report a single gap for reinforcing bar with two ribs.

INSTRUCTIONS FOR REPORTING

- 1 Report test results on the reporting forms provided, being sure to complete all four pages.
- 2 Report the average test values and the test results for each individual bar. Record the bar identification found on the attached tag.
- 3 Test results must be reported in the units and to the nearest significant numbers indicated for each test on the reporting forms.
- 4 The closing date for submitting test results is September 9, 2011.

Note: Laboratory ratings will only be assigned to the average test results.

**CCRL REPORTING FORM
CONCRETE REINFORCING BAR
SAMPLES NO. 11 & NO. 12**

RETURN TO: R. K. Haupt, Supervisor, PSP
Cement and Concrete Reference Laboratory
National Institute of Standards and Technology
100 Bureau Dr., Stop 8618
Gaithersburg, Maryland 20899-8618
Fax No. (301) 975-2243

FROM: _____

Check here if name or address has changed _____

check here if test results submitted on CCRL website.

Test Results

Report Results as Indicated in []

WEIGHT PER UNIT LENGTH lb/ft [nearest 0.001 lb/ft]				CCRL Test ID 1010
Specimen No.	Sample No. 11		Sample No. 12	
	Test results	Specimen ID # (found on tag)	Test Results	Specimen ID # (found on tag)
#1				
#2				
#3				
Average (of 3 bars)				

MEASUREMENT OF DEFORMATIONS

AVERAGE SPACING inch [nearest 0.001 inch]				CCRL Test ID 1020
Specimen No.	Sample No. 11		Sample No. 12	
	Test results	Specimen ID # (found on tag)	Test Results	Specimen ID # (found on tag)
#1				
#2				
#3				
Average (of 3 bars)				

Device used for measurement of spacing:

Tests performed by _____ Date _____
Tests reported by _____ Title _____
Phone _____ FAX _____ CCRL laboratory number _____

**CCRL REPORTING FORM
CONCRETE REINFORCING BAR
SAMPLES NO. 11 & NO. 12**

RETURN TO
Cement and Concrete Reference Laboratory
Fax No. (301) 975-2243

FROM: _____

MEASUREMENT OF DEFORMATIONS (continued)

AVERAGE HEIGHT inch [nearest 0.001 inch]				CCRL Test ID 1030
Specimen No.	Sample No. 11		Sample No. 12	
	Test results	Specimen ID # (found on tag)	Test Results	Specimen ID # (found on tag)
#1				
#2				
#3				
Average (of 3 bars)				
Device used for measurement of height:				

GAP (single gap) inch [nearest 0.001 inch]				CCRL Test ID 1040
Specimen No.	Sample No. 11		Sample No. 12	
	Test results	Specimen ID # (found on tag)	Test Results	Specimen ID # (found on tag)
#1				
#2				
#3				
Average (of 3 bars)				
Device used for measurement of gap:				

Tests performed by _____ Date _____
 Tests reported by _____ Title _____
 Phone _____ FAX _____ CCRL laboratory number _____

**CCRL REPORTING FORM
CONCRETE REINFORCING BAR
SAMPLES NO. 11 & NO. 12**

RETURN TO
Cement and Concrete Reference Laboratory
Fax No. (301) 975-2243

FROM: _____

TENSILE PROPERTIES

TENSILE STRENGTH psi [nearest 10 psi]				CCRL Test ID 1050
Specimen No.	Sample No. 11		Sample No. 12	
	Test results	Specimen ID # (found on tag)	Test Results	Specimen ID # (found on tag)
#1				
#2				
#3				
Average (of 3 bars)				

YIELD STRENGTH psi [nearest 10 psi]				CCRL Test ID 1060
Specimen No.	Sample No. 11		Sample No. 12	
	Test results	Specimen ID # (found on tag)	Test Results	Specimen ID # (found on tag)
#1				
#2				
#3				
Average (of 3 bars)				
Method used to determine yield: <input type="checkbox"/> drop of beam or halt of pointer <input type="checkbox"/> extensometer <input type="checkbox"/> autographic diagram method				

Tests performed by _____ Date _____
 Tests reported by _____ Title _____
 Phone _____ FAX _____ CCRL laboratory number _____

**CCRL REPORTING FORM
CONCRETE REINFORCING BAR
SAMPLES NO. 11 & NO. 12**

RETURN TO
Cement and Concrete Reference Laboratory
Fax No. (301) 975-2243

FROM: _____

TENSILE PROPERTIES (continued)

ELONGATION percent [nearest 0.5 percent]				CCRL Test ID 1070
Specimen No.	Sample No. 11		Sample No. 12	
	Test results	Specimen ID # (found on tag)	Test Results	Specimen ID # (found on tag)
#1				
#2				
#3				
Average (of 3 bars)				

Gage marked with: center punch double punch other - _____

Elongation measure by: rule & dividers elongation rule caliper elongation caliper
extensometer other - _____

Tests performed by _____ Date _____
 Tests reported by _____ Title _____
 Phone _____ FAX _____ CCRL laboratory number _____