

ACI COMMITTEE 439 on REINFORCING STEEL MEETING NOTICE AND AGENDA

To: Members of ACI Committee 439
From: Mark D. Marvin, Chair
William C. Gallenz, Secretary
Date 12 March 2012

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ACI COMMITTEE 439 MEETINGS SUMMARY SPRING 2012 — Dallas, TX, Hyatt Regency Hotel

COMMITTEE NUMBER	COMMITTEE NAME	DAY	TIME	ROOM
439	Steel Reinforcement	Mon, Mar 19	8:30a-10a	Cumberland G
439-A	Steel Reinf-Wire	Sun, Mar 18	3:30p-5p	Reverchon A

AGENDA -- COMMITTEE 439 ON STEEL REINFORCEMENT (Main committee meeting on Monday, 19 March 2012)

1. Call to order and introductions
2. Membership overview
3. Approval of minutes from Fall 2011 meeting in Cincinnati, OH (attached)
4. Subcommittee reports
 - 4.1. 439 A on Welded Wire Reinforcement – David DeValve, Chair
5. ITG 6 task group
6. Task Group Reports
 - 6.1. Review and Discussion of “Comprehensive Guide...” – Status Pending
7. Discussion of International Bar Standard – David McDonald (attachment)
8. Other Old Business
9. New Business
10. Adjournment

cc: David Bird, TAC Contact



DRAFT MINUTES FOR ACI COMMITTEE 439

March 12, 2012

Address writer at:
Reinforcement Solutions, Inc.
P.O. Box 202238
Shaker Heights, OH 44120

To: Members of ACI 439
From: William C. Gallenz, Secretary

E-mail: wgallenz@rsinc.bz

**Subject: 439 Main Committee minutes for the meeting held:
Monday October 17, 2011 (8:30am – 10:00am)
Millennium Cincinnati Hotel, Cincinnati, OH, Meeting Room C-212**

1. Call to order: 8:30 A.M.

- 1.1. Chairman Marvin welcomed all attendees to the meeting.
- 1.2. Member introductions

2. Attendance:

- 2.1. Voting Members Present: B. Barrows, G. Biro, A. Carroll, L. Colarusso, D. DeValve, S. Faza, A. Felder, W. Gallenz, T. Hawkinson, J. Ison, L. Lutz, C. Maki, M. Marvin, D. McDonald, T. Mize, R. Ramsey, H. Reed, D. Starnes, W. Zehrt
- 2.2. Voting Members Absent: J. Bohinsky, D. Carreira, P. Fredrickson, S. Holdsworth, A. Hulshizer, H. Lancelot, K. Luttrell, P. Meza, C. Paulson, R. Pelter, R. Reiterman, M. Rodriguez, C. Sabo, R. Smith, R. Sneckenberg, K. Williamson, P. Zivich
- 2.3. Other Members Present: (None)
- 2.4. Visitors Present: J. Hetherington, C. Houska, D. Reider, J. Reis, R. Sneckenberg
- 2.5. Summary: 19 Voting Members present, 17 Voting Members absent, 5 Visitors present.
 - 2.5.1. As of the date of the meeting, committee membership stood at 36 Voting, 4 Associate and 6 Consulting members.

3. Minutes Approval:

- 3.1. Approval of minutes from spring 2011 meeting in Tampa, FL (Motion: C. Maki, Second: D. Starnes).

4. Subcommittee Reports:

- 4.1. 439-A on Welded Wire Reinforcement (D. DeValve, Chair, G. Biro, Secretary) – Subcommittee A met on Sunday October 16th, 2011.
 - 4.1.1. D. DeValve presented subcommittee activities/update:
 - 4.1.1.1. Majority of meeting time spent on further editing of “Comprehensive Guide Document”.
 - 4.1.1.2. Defined new goals of sub-committee going forward under new chair.
 - 4.1.1.3. New goals to be further defined during spring meeting.

5. Task Group Reports:

- 5.1. International Standards for Steel update by D. McDonald. (See attached)
 - 5.1.1. Contents to include more standards into the document than just ACI and ASHTO.
 - 5.1.2. T. Felder and L. Colarusso contributed data to ITG 6 task group.



5.1.3. D. McDonald inquired as to what format we want going forward. The intent is to take various international standards and combine them from 178 countries, 30 of which have defined standards already in existence.

5.1.4. C. Houska volunteered to help D. McDonald collect standards.

5.2. ITG-6

5.2.1. Chair Marvin suggested appointment of ITG 6 task group.

5.2.2. S. Faza to be new head of ITG 6 in place of J. Kwok.

5.2.3. Chair Marvin requested help for committee

5.2.3.1. S. Faza, T. Felder, D. DeValve, B. Barrows, G. Biro volunteered to review document and decide future direction.

5.2.4. S. Faza gave overview of what ITG 6 is. He further described its purpose as a guide to instruct where to use high strength reinforcement and where not. These strengths are in excess of 80ksi.

5.2.5. T. Felder commented that C. Paulson stated previously that we need some capable people to keep this "design oriented" document alive and progressing forward.

6. Review of Mission Statement and Goals:

6.1.1. Chair Marvin requested that all attendees download, review and prepare comments on the "Comprehensive Guide" for next meeting.

6.1.1.1. We need to have the guide completed by 2014. With the new 318 format defined, we are going to put out one more version and then go to ballot.

6.1.1.2. January 1st document will be issued to members requesting all comments back by February 1st, and then it will go to balloting.

6.1.1.3. Comments to be managed by T. Mize

6.1.1.3.1. T. Mize stated that we will place all referenced in one appendix A similar to the 2011 guide, plus numerous other items.

7. Other Old Business:

7.1. None noted.

8. New Business:

8.1. W. Zehrt commented on blast rate testing. Blast testing standard is being published.

8.2. D. DeValve would like to see references in document related to chemical make-up of products specified.

9. Adjournment:

9.1. Motion: T. Mize, Move: D. Ramsey

cc: David Bird, TAC Contact

Country	Standard or Code	Year published	Title	Nominal Bar Diameters (mm)	Yield Strength (Grade) (MPa)
Australia	AS, NZS 4671:2001	2001	Steel reinforcing materials	12, 16, 20, 24, 28, 32, 36, 40, 50	500
Austria	OENORM B 4707:2010-08-15	2010	Steel for the reinforcement of concrete - Requirements, classification and conformity assessment Bewehrungsstahl - Anforderungen, Klassifizierung und Konformitätsnachweis	6 – 40 mm	550
Belgium	NBN A 24-302	1986	Steel Products - Rebar - Smooth and ribbed bars - smooth and ribbed wire rod	6 – 40 mm	220 400 500
Canada	CAN, CSA-G30.18 M92	2000	Billet-Steel Bars for Concrete Reinforcement	10 – 15, 10 – 55	300 400 500 525 625
China	ICS 77.140.60			10, 13, 16, 19, 22, 25, 29, 32, 36, 39, 43, 50, 57	280 420 490
Czech Republic	EC2 Czech CSN 731201		???		
Denmark	DS, EN 10080:2006	2006	Armeringsstål til beton - Svejselige armeringsstål – Generelt Steel for the reinforcement of concrete - Weldable reinforcing steel - General	10 – 25 mm	550
European Standard	prEN 10080	2005	Steel for the reinforcement of concrete – weldable reinforcing steel – General	6, 8, 10, 12, 14, 16, 20, 25, 28, 32, 40, 50	

France??	AFCAB NF A 35-016 NF A 35-080-1 NF A 35-080-2 France - NF A 35-016 & 015, FeE 500-3	1996		8, 10, 12, 14, 16, 18, 20, 22, 25, 28, 32	
Germany	DIN 488	2009	Betonstahl Sorten, Eigenschaften, Kennzeichen Reinforcing steel – reinforcing steel bars	6 – 28 mm	420 500
Great Britain	BS 4449	2009	Steel for the reinforcement of concrete. Weldable reinforcing steel. Bar, coil and decoiled product. Specification	8, 10, 12, 16, 20, 25, 32, 40	250 460
Greece	EAOT 971				
India	IS 432, IS1786	S	Specification for mild steel and medium tensile steel bars and hard-drawn steel wire for concrete reinforcement Specification for high strength deformed steel bars and wire for concrete reinforcement	5, 6, 8, 10, 12, 16, 20, 22, 25, 28, 32, 36, 40, 45, 50	250, 240 225, 215 350, 340, 330 415, 500, 550, 480
INDONESIA	SNI 07-2052	2002	Concrete reinforcement steel Baja tulangan beton		24 30 35 40 50
International standard	ISO 6935-2		Steel for the reinforcement of concrete – Ribbed bars	6, 8, 10, 12, 14, 16, 20, 25, 28, 32, 40	300 350 400 420 500
Israel	SI739	1994	Steel for the reinforcement of	6-40	400

			concrete		
Italy	Fe B 44k		????		
Jamaica	JS 33:2005	2005	Specification for Hot Rolled steel bars for the reinforcement of concrete	6, 8, 10, 12, 16, 20, 25, 28, 30, 32, 35, 40	300 400
Japan	JIS G3112	1987	Steel Bar for Reinforced Concrete	4, 5, 6, 8, 10, 13, 16, 19, 22, 25, 29, 32, 35, 38, 41, 51	235 295 345 390 490
Korea	KS D3504	2007	Steel Bar for Concrete Reinforcement	#3, #4, #5, #6, #7, #8, #9, #10	400 500
Malaysia	MS 146	2000	Specification for Hot Steel Bars for the Reinforcing of Concrete	8, 10, 12, 16, 20, 25, 32, 40	250 410 460
Mexico	NMX-C-407	2001	Deformed Still Bars from Billet and Ingot for Reinforcement Concrete – Specifications and Testing Methods	8, 10, 13, 16, 19, 22, 25, 29, 32, 35, 38, 45, 51, 57	294 410 520
Netherlands	NEN 6008	2008	Betonstaal	4 – 8 mm, 10 – 40 mm	220 400 500
New Zealand	AS, NZS 4671:2001	2001	Steel reinforcing materials	12, 16, 20, 24, 28, 32, 36, 40, 50	250 400 450
Norway	NS 10080	2005	Steel for the reinforcement of concrete - Weldable reinforcing steel - General	8 – 32	475
Norway, Sweden	SS-ENV 10080		Steel for the Reinforcement of Concrete – Weldable Reinforcing Steel		
Poland	PN-B-03264		???		
Romania	STAS 438, 1,3-89		otel beton laminat la cald hot rolled steel concrete		
Russia	GOST 5781	1982	Hot Rolled Steel for Reinforcement of Ferroconcrete Structures	6, 8, 10, 12, 14, 16, 18, 20, 22, 25, 28, 32, 36, 40, 45, 50, 55, 60, 70, 80	235 295 390 590 785 980

South Africa	SANS 920	2011	Steel bars for concrete reinforcement	6, 8, 10, 12, 16, 20, 25, 32, 40	250 450
Spain	UNE 36-068	1996		4 – 50 mm	500
Swiss	EMPA 262, 1	2003	?????		
Ukraine	DSTU 3760	1998		8, 10, 12, 14, 16, 18, 20, 22, 25, 28, 32	

ACI SUBCOMMITTEE 439-A AGENDA-Spring 2012

Sun. March 18, 2012

TO: Members of ACI Subcommittee 439-A

FROM: DAVID DeVALVE

Oklahoma Steel & Wire Co.

1041 So. 1st

Madill, OK 73446

PHONE: 580-795-6007 Email: ddevalve@oklahomasteel.com

DATE: Sunday, March 18, 2012

Place: Dallas, TX-Hyatt Regency-Reverchon A

Time: 3:30-5:00 PM

- 1 – Call to order.
- 2 – Introduction and welcome guests and new members.
- 3 – Approval of meetings minutes from the Tampa, FL-Spring 2011; Cincinnati, OH Fall 2011.
- 4 – Subcommittee membership update.
- 5 – Changes to ACI 318 and Detailing drawings to 315B.
 - a. Material and use related changes to 318-14.
 - b. Bend Details to 315B for WWR.
- 6 – Discussion/report on proposed ACI Guide document on comments returned-Oct. 10, 2011.
 - a. Update ASTM references; coordinate references with ACI 318.
 - b. Review sustainability section...
- 7 – Subcommittee review of implementation goals.
 - a. Discuss educational plan and timeline – coordinate with guide document.
 - b. Discuss new ideas for subcommittee goals (3 min.) and mission statement (see minutes from Fall 2011 meeting).
- 8 – Report on new or revised ASTM Standards.
- 9 – New business: E701-E2 Reinforcing documents.
- 10 – Next meeting date & time: Sun 10/21/2012, Toronto, CN-Sheraton Centre.
- 11 – Adjournment.



DRAFT MINUTES FOR ACI SUBCOMMITTEE 439A

October 16, 2011

Address writer at:
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To: Members of ACI 439A

From: George T. Biro, Secretary; David H. DeValve, Chair [e-mail: ddevalve@oklahomasteel.com]

**Subject: 439A Sub-Committee minutes for the meeting held:
Sunday, October 16, 2011 (3:30pm – 5:00pm)
Millennium Hotel, Cincinnati, Ohio, M-Atrium**

1. Call to order:

Chairman DeValve called the meeting to order at 3:35 PM.

2. Introduction and welcome new guests and new members:

Chairman DeValve welcomed members and guests and encouraged potential new members to sign up as voting members of the main committee. Chairman Marvin indicated that he would expedite the new member applications and would recommend acceptance by the ACI committee review panel.

3. Minutes Approval:

M. Marvin indicated that detailed notes taken at the Tampa meeting would be typed up and motioned that the Spring Minutes from Tampa be approved at the next subcommittee meeting, seconded by H. Reed.

4. Subcommittee Membership Update:

Chairman DeValve will work with T. Mize to review the subcommittee roster and considering non-attendance, changes of status, and present recommendations for consideration by main committee chairman Marvin. There were 13 of 15 voting members present and two visitors. One visitor, Rob Sneeckenberg, has since been added as a voting member [welcome Rob], bringing our membership total to 16. The status of Ken Williamson on this subcommittee is still in question. Cliff MacDonald from E701 was also present as a visitor.

5. Changes to ACI 318:

a. Material and use related changes to 318-14

D. DeValve requested that members use the Comprehensive Guide sections to direct members as to which ACI 318 code sections need to be checked for update requirements.

Discussion occurred on some existing discrepancy in 318 regarding maximum transverse wire or stirrup spacing between rebar and wire. M. Marvin asked that this item be passed up to the main committee. As 318B has been busy with the recent code updates M. Marvin indicated that it was now a good time to reignited the review of maximum spacings for wire in the code.

The comprehensive guide is to be updated to ACI 318-11 for the next meeting.

6. Discussion/report on proposed ACI Guide document on comments returned Oct. 10, 2011:

a. Update ASTM references:

T. Mize indicated that this work is complete.

b. Add sustainability section:

A few minor revisions on the sustainability section will be added prior to the main committee meeting.

T. Mize presented comment reviews submitted by G. Biro. The subcommittee worked through part of the review; a new graph for figure 2 was presented and it was decided to add in the curve for rod. The paragraph contained between lines 451 to 463 require further review. Line 335 is to be reviewed by the main committee. The guide section on nesting requires further re-work. The balance of comments and reviews by others were put aside. Chairman Marvin indicated that there would be extra time available at the main committee meeting to continue the guide review.

7 Subcommittee review of implementation goals:

a. Discuss educational plan and timeline – coordinate with guide document:

Guest C. MacDonald, a member of the ACI Education Committee asked that 439 review E701, and specifically E2 Reinforcement. This information is available through the ACI website. M. Martin asked that the review of this educational material be brought up as New Business at the main committee meeting.

b. Discuss new ideas for subcommittee goals and mission statement:

i. Chairman DeValve wants to coordinate this subcommittee's efforts with 315B, Detailing.

The example beam detail for WWR from 315B was distributed. DeValve asked Hawkinson to obtain other additional details, and asked all WWR producers attending the November WRI meetings to collect typical bend details that they have produced.

ii. Chairman DeValve set the review and update of the Physical Properties Guide as a intended goal to add an appendix of samples with composition ranges for a few of the materials designated in the document. This is to be brought up as new business at the 439 main meeting.

iii. A long-term goal is to produce a field guide for handling and placing WWR.

iv. DeValve asked member to send him ideas for additional subcommittee goals.

A set of goals is to be developed and ratified by 439A, then sent up to 439 for approval.

8 Report on new or revised ASTM Standards:

No discussion on this item occurred.

9 New business:

No discussion on this item occurred.

10 Next meeting date and time:

The next meeting will be at the ACI Spring Convention in Dallas, Texas, on Sunday, March 18th, from 3:30 pm to 5:00 pm.

11 Adjournment: @ 5:10 PM

Motion to adjourn by D. DeValve, seconded by M. Marvin.