

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 15 October 2012

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ACI COMMITTEE 439 MEETINGS SUMMARY Fall 2012 — Toronto, ON, Sheraton Centre

COMMITTEE NUMBER	COMMITTEE NAME	DAY	TIME	ROOM
439	Steel Reinforcement	Mon, Oct 22	8:30a-10a	Essex
439-A	Steel Reinf-Wire	Sun, Oct 21	3:30p-5p	Conference Room G

AGENDA -- COMMITTEE 439 ON STEEL REINFORCEMENT (Main committee meeting on Monday, 22 October 2012)

1. Call to order and introductions
2. Membership overview
3. Approval of minutes from Spring 2012 meeting in Dallas, TX (attached)
4. Subcommittee reports
 - 4.1. 439 A on Welded Wire Reinforcement – David DeValve, Chair
5. ITG 6 task group update
6. Review and Discussion of “Comprehensive Guide...” – Download revised guide for review
7. Other Old Business
8. New Business
9. Adjournment

cc: Catherine French, TAC Contact



DRAFT MINUTES FOR ACI COMMITTEE 439

October 18, 2012

Address writer at:
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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 March 19, 2012 (8:30am – 10:00am)
Hyatt Regency Hotel, Dallas, TX, Cumberland G**

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: M. Marvin, H. Reed, R. Sneckenberg, S. Graham, T. Hawkinson, A. Carroll, L. Lutz, B. Barrows, G. Biro, D. Starnes, D. DeValve, R. Ramsey, S. Faza, A. Felder, D. McDonald, R. Pelter, T. Meyer, W. Zehrt, L. Colarusso, W. Gallenz
- 2.2. Voting Members Absent: J. Bohinsky, D. Carreira, P. Fredrickson, S. Holdsworth, A. Hulshizer, J. Ison, H. Lancelot, K. Luttrell, D. Maki, P. Meza, T. Mize, C. Paulson, R. Reiterman, M. Rodriguez, C. Sabo, K. Williamson, P. Zivich
- 2.3. Other Members Present: (None)
- 2.4. Visitors Present: G. McArdie, J. Hetherington
- 2.5. Summary: 20 Voting Members present, 17 Voting Members absent, 2 Visitors present.
 - 2.5.1. As of the date of the meeting, committee membership stood at 35 Voting, 4 Associate and 6 Consulting members.

3. Minutes Approval:

- 3.1. Approval of minutes from fall 2011 meeting in Cincinnati, OH (Motion: T. Felder, Second: H. Reed).

4. Subcommittee Reports:

- 4.1. 439-A on Welded Wire Reinforcement (D. DeValve, Chair, G. Biro, Secretary) – Subcommittee A met on Sunday March 18th, 2012.
 - 4.1.1. DeValve gave overview of 439-A subcommittee meeting on Sunday
 - 4.1.1.1. Open issues remained in discussion on guide. These are to be resolved by Fall 2012 meeting, then brought up to 439 main for T. Hawkins to take to 315.
 - 4.1.1.2. Discussions on field handling are being reviewed. This contains physical materials storing, handling and welding.
 - 4.1.1.3. D. DeValve suggested material compositions as part of guide
 - 4.1.1.4. M. Marvin suggested that we may even add high strength to physical properties guide.
 - 4.1.1.5. D. DeValve discussed E701 document issues.



5. Task Group Reports

5.1. ITG 6 task group

5.1.1. Chair Marvin requested S. Faza to give overview of ITG 6.

5.1.1.1. ITG 6 is a design document to advance high strength reinforcement. The committee approved 100ksi in compression, but limited to 80ksi in tension and shear. Testing has been going on for the last 10 years. Document 1035? S. Faza wants to move document forward within ACI 439. Extensive testing has been done for bond, tension, etc.

5.1.1.2. T. Hawkins asked about strain testing .003 strain with .02 offset, etc.

5.1.1.3. R. Ramsey asked about bond and cracking testing. S. Faza cited 408 bond equations. Extensive research has been completed. 100ksi was halted due to lack of research. Much research is yet to be done. Seismic testing to be completed to show behavior for design parameters.

5.1.1.4. L. Lutz questioned what is the purpose of the ITG report?

5.1.1.5. Chair Marvin updated status of report related to its progress to publishing. Marvin recommended that members become familiar with document.

5.1.1.6. T. Felder commented that the document has been published and the responsibility of 439 is to maintain it and keep it active under a task group.

5.1.1.7. S.Faza will send document to members

5.1.1.8. D. McDonald stated that he doubts 439 has the technical competence to manage this document, even though the balloting process.

5.1.1.9. Marvin recommended the document start in 439, then pass to technical experts as required.

5.1.1.10. S. Faza commented that we need to take it through the individual committees prior to sending up to 439.

5.1.1.11. T. Hawkins inquired about results at .035% offset vs. .02%

5.2. Review and Discussion of "Comprehensive Guide..."

5.2.1. Status is pending due to change of person championing it.

5.2.2. L. Lutz commented about referencing 14 formats instead of repeating print. In references we could simply reference instead of printing text.

5.2.3. M. Marvin stated that Guide is close to balloting

6. Discussion of International Bar Standard – D. McDonald issued exhibit copy

6.1. Chair Marvin referenced the extensive work of D. McDonald in relation to the International bar standard.

6.2. D. McDonald analyzed all code standards internationally and concluded that this is a complex issue.

6.2.1. To simplify this process, D. McDonald suggested the table to reference as a guide.

6.2.2. Do we keep this going as part of the website?

6.2.3. Do we make it part of the Physical Properties Guide? (C. Marvin)

6.2.4. D. DeValve recommends website.

6.2.5. D. McDonald says 47 countries are represented in ACI.

6.2.6. T. Hawkins suggested maybe less "time stamp" detail and more of a reference. Europe still has 15 individual specifications

6.2.7. Chair Marvin suggested that we start discussing an outline for the document as to what it should look like in its final stage.



6.2.8. L. Colarusso suggested major points should be cited as design guide. He also suggested that we reach out to each committee standard head.

6.2.9. G. Biro suggested that this be only steel standards.

6.2.10. T. Felder shared that ACI does not necessarily like competing code bodies promoted and suggested that we keep to steel standards.

6.2.11. D. DeValve inquired about relationship between ACI and ASTM

6.2.12. Chair Marvin suggested task committee to handle the development of this guide document to eventually publish it on a website. Questions can be filtered throughout the committee chair as to publishing new items

6.2.13. T. Felder stated that if ACI resists, we add it to the physical properties guide.

6.2.14. Chair Marvin will explore if the idea is possible

7. Other Old Business

7.1. Chair Marvin noted that 439A is incorrectly named as Glass Fiber Reinforcement on the website. He also noted that the Chairperson of T. Mize is still incorrectly stated.

8. New Business

8.1. None noted

9. Adjournment

9.1. T. Felder (motioned), D.DeValve (second)

cc: Catherine E. French, TAC Contact

ACI SUBCOMMITTEE 439-A AGENDA-Fall 2012

Sun. Oct. 21, 2012

TO: Members of ACI Subcommittee 439-A

FROM: DAVID DeVALVE

Oklahoma Steel & Wire Co.

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Madill, OK 73446

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

DATE: Sunday, October 21, 2012

Place: Toronto, CN-Sheraton Centre-

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 Dallas, TX-Spring.
- 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. 16, 2012.
 - a. Update ASTM references; coordinate references with ACI 318.
 - b. Review format change...
- 7 – Subcommittee review of implementation goals.
 - a. Discuss educational plan and timeline – coordinate with guide document.
 - b. Discuss any new ideas for subcommittee goals and mission statement (see minutes form Spring 2012 meeting).
- 8 – Report on new or revised ASTM Standards.
- 9 – New business: E701-E2 Reinforcing document comments received and posted to committee (439A) website.
- 10 – Next meeting date & time: Sun. 4/14/2013, Minneapolis, MN-Hilton.
- 11 – Adjournment.



DRAFT MINUTES FOR ACI SUBCOMMITTEE 439A

April 4, 2012

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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, March 18, 2012 (3:30pm – 5:00pm)
Hyatt Regency, Dallas, Texas, Reverchon A**

1. Call to order:

Chairman DeValve called the meeting to order at 3:30 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.

Members present: B. Barrows, G. Biro, A. Carroll, D. DeValve, T. Hawkinson, L. Lutz, M. Marvin, R. Pelter, R. Ramsey, H. Reed, R. Sneckenberg, D. Starnes.

Members Absent: W. Gallenz, T. Mize, R. Reiterman, K. Williamson; Guests: Jeff Bryant (student) Dang Ngwyen (Fakon Steel).

3. Minutes Approval:

Approval of the Tampa spring meeting minutes were tabled for approval at the main committee meeting. Motion by M. Marvin, seconded by H. Reed.

Minutes from the Cincinnati fall meeting were reviewed. L. Lutz recommended modifying the minutes to follow the main committee's format to record the names of attendees. The minutes were accepted with the noted modifications to be made. A motion to approve the minutes was made by T. Hawkinson, and seconded by H. Reed. The modified minutes were sent out to members on April 4, 2012.

4. Subcommittee Membership Update:

There were no changes to the Subcommittee Membership.

5. Changes to ACI 318:

a. Material and use related changes to 318-14

M. Marvin stated that the spacing requirements for WWR stirrups in beams remains inconsistent with rebar in the current code addition and that we need to re-ignite this issue with 318B for modifications to the 2014 version of the code. Main committee will present this issue to 318B again. Need wire representation on ACI 318B.

D. Ramsey raised the field concern that the code indicates that the extension for the 135-degree stirrup hook shall be 3", inspectors may reject wire/WWR if the material is provided with an extension greater than 3". Suggested revision would be to state the 3" as a minimum. The main committee could present this issue to 318B along with the maximum spacing issue for stirrups.

b. New business ACI 315B (Detailing Manual)

T. Hawkinson gave an updated of the 315B committee work:

We need more wire industry input. Many of the 315B members are CRSI members.

Joist reinforcing already included.

We need to get 315B to give more space and pay more attention to wire in the detailing manual. Todd and Hal to keep 439A informed.

D. Devalve pointed out that the 315B committee meetings are usually scheduled for the same time as 439. Devalve stated:

- 1) We need to promote wire as a reinforcing product.
- 2) Mesh Details: As producers what can we do? Producers are asked again to provide common WWR details for inclusion into the detailing manual.
- 3) Marvin suggested footing details for WWR in strip/continuous, and double mat footing as WWR applications needing producer input.
- 4) CRSI is working on development of bend details. The details are currently based on minimum requirements.
- 5) Devalve called out to the committee to review 315B documents and return comments to Hawkinson and himself by July 1, 2012 (Devalve to forward review information to 439A members). Devalve to check WRI Detailing Manual to look for examples and to review the usability of the information for presentation to 315B.

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

Updates are pending. M. Marvin to review the task of updating the compressive guide and may re-assign the editorial work based on the returned Oct. 2011 comments & updating 318 Code references. No further discussion took place on this item.

7 Subcommittee review of implementation goals:

a. Work more closely with the ACI 315B committee.

b. 439 should consider sponsoring a session with 315B to coordinate details.

c. Field Issues –

Broken Welds: The ASTM standard provides some guidance. Many are unaware that some broken welds are allowed by the ASTM standard. Devalve feels we should develop guidance on field repair of broken welds and that irrespective of what ASTM allows producers are concerned by and do respond to field concerns about broken welds. We should investigate what Rod Chemistry should be used to allow for the proper methods of field weld repairs, welded laps, or welded extensions of wire and WWR.

Field Handling Guide: Devalve suggest a field handling guide would be a valuable tool for this committee to develop. This would include items like storage, handling and lifting, and could possible be prepared as an Appendix to the Comprehensive Guide.

Devalve feels that research is needed on the topic of field welding wire/WWR. Ramsey sites on the Concrete Research Council of ACI and could assist in pursuing research opportunities with the Council.

Rust: Members are asked to review the 318 code to see if there is any guidance on rusting of reinforcement.

8 Report on new or revised ASTM Standards:

R. Pelter reported that the four individual wire/WWR standards are to be archived by an upcoming ballot, date to be determined. The ASTM A1064 standard is now included in AASHTO.

ASTM A1060 (Galvanized) WWR contains an error in the table. This standard is being re-balloted, updated and reprinted.

9 New business:

Devalve asked members to review the ACI E701 committee's document E701-E2, reapproved 2006. He highlighted that section 3.3 on fiber reinforcement warrants a close review. Devalve has since emailed out this document to meeting attendees. Comments are requested by Devalve by Aug. 15, 2012 in order to have time to compile comments & respond back to E701 in timely manner.

10 Next meeting date and time:

The next meeting will be at the ACI Fall Convention in Toronto, Ontario, on Sunday, October 21st at the CN Sheraton Centre, from 3:30 pm to 5:00 pm.

11 Adjournment: @ 5:10 PM

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