

Chapter News

CAMA Special Inspection Guidelines for Expansion and Adhesive Anchors

(Reprinted from December 4, 2000 article)

(This is part one of a two-part series on the special inspection of concrete anchors.)

1.1 Purpose

The purpose of this document is to provide background and a frame of reference about special inspection in general and to provide specific information regarding the special inspection of post-installed expansion and adhesive anchors into hardened concrete. This document is based on the requirements for special inspection in the Uniform Building code (UBC) published by the International Conference of Building Officials (ICBO).

1.2 Expansion & adhesive anchor descriptions

Expansion anchors are installed in hardened concrete by drilling a hole, placing the anchor into the hole and creating an expansion force against the side of the hole by mechanical means.

Adhesive anchors are installed in hardened concrete by drilling a hole, placing the mixed adhesive and anchor rod into the hole and allowing the adhesive to harden and cure for a specified time period.

2.0 Background

2.1 History of special inspection

The UBC has included requirements for special inspection of certain types of construction since 1937. Special inspection requirements have not always been vigorously and uniformly enforced. They were conceived at a time when testing of construction materials was more prevalent and necessary due to variations in quality and the labor force was more skilled and less costly. Subsequently, the quality of construction materials has become more consistent while the cost of labor has risen dramatically, both absolutely and as a percentage of total construction cost. The result has been a reduction in the testing of construction materials and more emphasis on inspection of the labor portion of the work.

These trends, along with periodic earthquakes in California highlighting the need for better quality control of construction have focused attention on the special inspection requirements within the last fifteen years. This has spawned national interest in special inspection, particularly among engineers who see special inspection as an extension of their construction phase overview services. (continued next page)

2003 CALBO ABM DONATIONS:

Salinas Valley Builders Exchange
CSG Consultants
Naffa International
Melad and Associates
Independent Code Consultants

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CAMA Special Inspection Guidelines (cont.)

Both the National Building Code and Standard Building Code also have special inspection provisions similar to the Uniform Building Code.

2.2 Future of special inspection

The merging of the three model building codes into the 2000 International Building Code (IBC) has occurred. The 2000 IBC combines the special inspection provisions of the three model codes and will be the basis for special inspection of expansion and adhesive anchors when adopted by governmental bodies.

2.3 Special inspection definitions

special inspection is continuous observation of construction activities requiring unique expertise or where additional assurance of quality is deemed necessary. Concrete placement, masonry construction, structural welding and high strength bolting are common special inspections. These inspection are in addition to the normal progress performed by the building department inspectors.

Continuous inspection means that the special inspector is in the immediate area observing the operation requiring special inspection while the work is being performed and has full knowledge of the work. Some inspections may be done on a periodic basis if the periodic inspection schedule or procedure is specified in the approved plans and specifications. "Approved" plans and specifications means approved by the building official, not just the engineer or architect.

2.4 Qualifications of special inspectors

A special inspector is a specially qualified person with both inspections and practical experience in the construction operation requiring special inspection. The individual must submit his qualifications to the local building official for approval. Approval is sometimes done on a case-by-case individual basis or is granted to local testing agencies who employ inspectors with the particular expertise. In many cases the approval is informal, based on previous experience with firms and individuals. Engineers may be qualified as special inspectors, however an engineering degree or license does not automatically qualify a person as a special inspector.

2.5 Employment of special inspectors

The owner of the construction project or the engineer or architect of record acting as the owner's agent must employ the special inspector(s). Although not explicitly stated in the UBC, the wording is such that the contractor cannot employ the special inspector(s). This would be a conflict of interest and not in accordance with the intent of special inspection as an independent evaluation.

2.6 Duties and responsibilities of special inspectors

The special inspector observes the work for conformance with the approved design drawings, specifications and workmanship provisions of the building code, brings discrepancies to the immediate attention of the contractor and to the design authority and building official if not corrected and submits periodic and final inspection reports to the building official and engineer or architect of record.

The special inspector is considered an extension of the building official by virtue of the code requirements for inspection by the building official and special inspection. The City of Los Angeles formalizes the relationship with special inspectors in this regard, and they are called "deputy inspectors".

(Next month, Special inspection requirements and procedures for post-installed anchors.)

MONTEREY BAY CHAPTER – ICBO

Meeting of February 21, 2002 Minutes

CALL TO ORDER

1.01 Pledge of Allegiance

1.02 Self-Introductions

- The meeting was opened by incoming President Ray Proffitt (City of Hollister) at 11:00 am.

CHAPTER BUSINESS

2.01 Approval of Minutes

- The Chapter News mistakenly said our attendees were at the December meeting rather than the January meeting. Sorry if you have some explaining to do. The remaining minutes were approved as written. M/Pasquinelli 2/Walker

2.02 Unfinished Business

- Craig Oliver (City of Marina) reported the website committee had completed its review of the use of the website and determined that if a web site link is a service (rather than a product) that benefits Chapter members it would be allowed on the chapters web site and that commercial ads are not appropriate unless they benefit the Chapter. Such use of the website is under the control of the website committee rather than the webmaster. A motion to approve this concept was approved by the Chapter. M/Christopher 2/Villalpando
- The Chapter voted to support the CALBO ABM by sponsoring a refreshment break in San Diego in March for \$350. M/Pasquinelli, 2/Christopher
- President Ray Proffitt mentioned that there might be members who have not received the notification of the new dues structure to a calendar year billing cycle. If you know of anyone who should be notified, please let Janet Praria know.

2.03 New Business

- President Ray Proffitt received a thank you letter from the Cabrillo College Scholarship Foundation thanking the Chapter for our donation to the Construction Technology program. The letter further invited Chapter members to attend the awards ceremony on Friday, May 17th at Cabrillo College. Several members expressed interest in attending.
- The Redwood Empire Chapter had sent a notice that they were sponsoring a Green Building seminar on February 21st. Unfortunately, we received the notice too late to take advantage of it.
- Dick Stubendorff (City of Santa Cruz) reported on recent changes in the Engineering Practices Act that now prohibits an engineer from signing anything other than the final set of drawings and/or calculations that are ready for permit issuance.
- Dave Pasquinelli (City of Salinas) reported the County of Monterey is recruiting for a Chief Administrative Director for the Planning and Building Inspection Department. This position is responsible for the budgeting and fiscal matters of the department and is separate from the Building Official's position. (Final filing date 2/22/02)

2.04 Treasurer's Report

- Treasurer Janet Praria (CBS) presented the report on the financial shape of the Chapter.
- The Board of Directors met and set up a budget for the new year, which was presented by Janet at the Chapter meeting for approval. The budget was approved as prepared. M/Walker, 2/Carpenter

COMMITTEE REPORTS

3.01 Code Change

- Daniel Kostelec (City of Capitola) followed up on last month's discussion of amendments to the building codes. He planned to have a final draft of the proposed amendments available by the time the ABM is here and stated that CALBO may be supportive of providing a room to discuss this provisions after one of the education sessions. However, it is clear that CALBO does not want to be the ones involved in putting forth this proposal and would prefer to remain more neutral in the situation. There are also some members who are not supportive of adding additional amendments to the state code and/or the Silicon Valley amendments. There will be some costs for preparation and reproduction and the Chapter moved to provide the necessary funding for the amendment packet. M/Pasquinelli, 2/Rick

3.02 Legislation

- No report.

3.03 Special Inspection

- Dick Stubendorff reported the committee met on February 7th and approved K.C. Engineering as a full service special inspection agency. New approval lists will be distributed at the March meeting.
- Reggie Lee has resigned from the committee leaving only one member from the Monterey Bay Chapter. It is important that we have appropriate representation from the Chapter to attend the committee meetings. If you or a member of your senior inspection staff is interested in the position, contact Dick Stubendorff.

3.04 Membership and Honors

- Dave Van Etten (City of King City) was unable to attend the installation / awards dinner in January, so President Ray Proffitt presented him with a plaque recognizing his contributions as Immediate Past President for the year 2001. Congratulations Dave.
- President Ray Proffitt asked that if you know of a member who has not attended a meeting in a while to give him or her a personal call and invite them to attend the meetings. Sometimes this can make the difference they need to come.
- John Villalpando (City of Monterey) gave a brief report on room and lunch costs for alternate locations and found that they were just as high or higher than the Bay Park Hotel, especially the room charges.

3.05 IAEI

- No report

3.06 2003 CALBO ABM

- The pins advertising the 2003 ABM in Monterey were displayed and one given to each member present. Thank you so much to Mary Villalpando for the design work. They look great.
- Both Craig Oliver and Dave Pasquinelli reported that contributions for the 2003 ABM are coming in now and that the Yosemite Chapter has offered manpower to help at the function.

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3.07 Education

- Rex Wyatt (City of Gilroy) is working on a photovoltaic training seminar. We will announce the date a place as soon as it is firmed up.
- Dave Pasquinelli contacted ICBO's Tom Campbell and discussed the problem of them holding seminars in the area without properly notifying the Chapters. After a brief discussion, the Chapter decided our role is to support ICBO and decided to partner up with them on the Mechanical Code Update Seminar to be held in Monterey on May 10th and 11th as a sponsor. This helps to keep a fair playing field in the competition for education seminar fund raising efforts within the Chapter areas. Motion to support / co-sponsor seminar: M/Wyatt, 2/Stubendorff, approved

4.0 OTHER REPORTS

4.01 CALBO

- CALBO Director Sheila Lee (City of Santa Clara) forwarded the following report to the Chapter:
- You can now register for the CALBO ABM online, including the golf tournament and dinner at the San Diego Zoo.
- The two "Open Forum" classes during Wednesday Professional Development Day Program on March 13th will be replaced with "Accessibility Code Update" and "Revising the State Code Adoption Process".
- HCD is proposing to include CSST to the 2000 UPC and this item will be heard during the March 20th Building Stds. Comm. hearing. The entire language can be found on the BSC website: www.bsc.ca.gov
- The effective date for the 2001 codes will be November of this year because of the postponement of the BSC hearing.
- CALBO has signed a contract with a web consultant to redesign the website. The new design will be available shortly.

4.02 ICBO / ICC

No report.

4.03 Code Discussion

4.0 PROGRAM

February ATTENDANCE

John Villalpando.....	City of Monterey
Daniel Kostelec.....	City of Capitola
Dick Stubendorff.....	City of Santa Cruz
Ray Proffitt.....	City of Hollister
Doug Riparetti.....	Louis & Riparetti
Craig Oliver.....	City of Marina
Jim Walker.....	Monterey County (retired)
Avon Carpenter.....	Monterey County (retired)
Dave Van Etten.....	City of King City
Dave Pasquinelli.....	City of Salinas
Imad Naffa.....	Naffa International
J.D. Jones.....	Development Consultants
Janet Praria.....	CBS
Mike Asbury.....	CMA Salinas
Douglas Rick.....	City of Pacific Grove
Mike Stone.....	City of Salinas
Rex Wyatt.....	City of Gilroy
Alan Low.....	City of Gilroy
David Chantler.....	City of Gilroy (retired)
Yvonne Christopher.....	Monterey County
David Deline.....	David's Electric
Mike Sheehan.....	MUAPCD
Tom Jason.....	Monterey County

AGENDA

March 21, 2001 @ 11: a.m.

Bay Park Hotel, Monterey

1.0 Call to Order

- 1.01 Pledge of Allegiance
- 1.02 Self- Introductions

2.0 Chapter Business

- 2.01 Approval of Minutes
- 2.02 Unfinished Business
- 2.03 New Business
- 2.04 Treasurers Report

3.0 Committee Reports

- 3.01 Code Change
- 3.02 Legislation
- 3.04 Special Inspection
- 3.05 Membership & Honors
- 3.06 IAEI
- 3.07 2003 CALBO ABM
- 3.08 Education

4.0 Other Reports

- 4.01 CALBO
- 4.02 ICBO / ICC
- 4.03 Code Discussion

Lunch—\$15.00 Each

5.0 Program — 2002 Code Adoption Discussion

Chapter Seminars

IRCC Presents:

Roofing Seminar

April 11, 2002

10:00—1:00 p.m.

Lunch Provided

\$25.00

648-3890

Marina Airport Administration Building

Coming Soon

“At the Front Counter “
Seminar

Meetings:

CALBO ABM March 11—14 San Diego, Doubletree

March 21, 2002.....Bay Park Hotel

April 11, 2002.....Roofing Seminar.....Marina Airport

April 18, 2002.....Bay Park Hotel

May 16, 2002.....Bay Park Hotel

Simpson

2002

Connector Workshop
Northern California
Thursday April 25, 2002
The Beach Resort
Monterey, CA

Free Workshop

To Register Call:
1.800.999.5099

or Register on Line
www.strongtie.com

Peninsula & East Bay Chapters
Seminar Calendar

May 14th

Commercial Plumbing & Mechanical Update

Instructor : John LaTorra

Location: Redwood City , Library

June 13th

Residential Plumbing & Mechanical

Instructor: John LaTorra

Redwood City , Library

Contact:

Bob Adler

City of San Jose 408.292.0723

Bob.adler@ci.sj.ca.us

\$50.00 per Person

8:30 to 12:30

Pastries & Beverages

Bring Code Books

**Monterey Bay Chapter ICBO / ICC
INDEPENDENT ROOFING CONTRACTORS OF CALIFORNIA**

10:am to 1:pm

**Roofing
Seminar
April 11, 2002**

Marina Airport Administration Building
761 Neeson Road

Application of Roof Deck
Plywood over Spaced Sheathing
Composition Roofing Application
Wood, Asphalt Shingle Applications
Tile Application (Clay, Concrete, Metal)
Modified Bitumen—Torch Down & Heat Weld
Single Ply
Traditional Hot Mop / BUR Systems

Lunch Provided

\$25.00

Name's: _____

Phone: _____

E-Mail _____

Send to: City of Monterey
Building Department
Attn John Villalpando
Colton Hall
Monterey, CA 93940

Questions? coliver@ci.marina.ca.us