

AN INTRODUCTION TO THE FUTURE OF CONCRETE REPAIR

ACI 562

CODE REQUIREMENTS FOR THE REPAIR AND REHABILITATION OF CONCRETE BUILDINGS

ICRI 150

NOTES ON THE ACI 562 REQUIREMENTS



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American Concrete Institute®
Advancing concrete knowledge

Rick Edelson

Chair ACI 562 Chapter 7

Chair ICRI Committee 150

ICRI Past President

ICRI Past TAC Chair

Future: Who knows? Your guess is as good as mine.



Vision 2020 2004-2005

13 Goals, Objectives and Roadmaps
for the Concrete Repair and
Protection Industry

May, 2006

An SDC Facilitation & Coalescing Industry Effort



Goal #1

By the year 2010 the industry will have established mechanisms for industry cooperation to facilitate better and faster worldwide creation of concrete repair and protection technology and dissemination of information about the technology.

Goal #3

Create a Repair/Rehabilitation code to establish evaluation, design, materials, field and inspection practices which raise the level of performance of repair and protection systems, establish clear responsibilities and authorities for all participants and provide the local building officials a means of issuing permits. (By 2015)

Goal #3, Strategy

- *Establishing a focused team to create a project plan for the “R/RCode”*

What:

- Create a Concrete Repair, Rehabilitation, Protection, and Strengthening Code

Who:

- The Guide and Code should be created by a joint effort between ACI, ICRI, and other interested organizations.

The repair and protection industry envisioned:

- a. Establishing a focused team to create a project plan for a “Repair, Rehabilitation, and Protection Code.” (By 2005)
- b. Creating a multi-part document that ultimately becomes a complete code. Parts may include:

- Categorize structure types/importance/service life/performance requirements
- Condition Assessment/Evaluation/Inspection requirements
- Defining performance requirements for structures, repairs and strengthening
- Defining considerations for structural safety during repair and strengthening
- Developing guidelines/standards for inspections of repairs and strengthening

ACI 562 Committee

- First Meeting March 26, 2006
 - Committee consists of 31 members
 - All ACI members and most ICRI members
 - 5 ICRI Presidents + ICRI Executive Director
- Code completed and published March, 2013
 - Conceived April, 2004 by Vision 2020
 - Born March 2006 by ACI TAC
 - Published March 2013 by ACI
 - *with ICRI participation*

ACI 562 Structure

ACI 562 Chapter	Title
Chapter 1	General Requirements
Chapter 2	Notation and Definitions
Chapter 3	Reference Standards
Chapter 4	Basis for Compliance
Chapter 5	Loads, load combinations, and strength-reduction factors
Chapter 6	Evaluation and analysis
Chapter 7	Design of structural repairs
Chapter 8	Durability
Chapter 9	Construction
Chapter 10	Quality Assurance
Chapter 11	Commentary References



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Where do we go from here?

Next Chapter

ICRI 150

Notes on the ACI 562 Requirements

Subcommittees	ACI 562 Chapter	Title
150-1	Chapter 1	General Requirements
150-2	Chapter 2	Notation and Definitions
150-3	Chapter 3	Reference Standards
150-4	Chapter 4	Basis for Compliance
150-5	Chapter 5	Loads, load combinations, and strength-reduction factors
150-6	Chapter 6	Evaluation and analysis
150-7	Chapter 7	Design of structural repairs
150-8	Chapter 8	Durability
150-9	Chapter 9	Construction
150-10	Chapter 10	Quality Assurance

ICRI 150 Goals

- Produce Outline of Notes NOW
- Produce NOTES within 12 to 18 months
 - They will be used for seminars and training
- Meet tomorrow 1:30 PM
- Interested?



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Where do we go from here?

**Larry Kahn
&
Keith Kesner**