

# ACI 349-13

## Code Requirements for Nuclear Safety-Related Concrete Structures (ACI 349-13) and Commentary

Approved by ACI Committee 349



American Concrete Institute

# Aci 349 13

**Karl Baedeker (Firm)**



### **Aci 349 13:**

ACI349-13 Code Requirements for Nuclear Safety-Related Concrete Structures (ACI 349-13) and Commentary American Concrete Institute,2014     *Code Requirements for Nuclear Safety-related Concrete Structures (ACI 349-13) and Commentary : an ACI Standards* ,2014     *ACI 349M-13 Code Requirements for Nuclear Safety-Related Concrete Structures (ACI 349M-13) and Commentary* American Concrete Institute,2015     **ACI 349K-13 Code Requirements for Nuclear Safety-Related Concrete Structures and Commentary (Korean)** Koren Electric Association,2016-05-05     **Concrete Structures in Earthquake** Thomas T. C. Hsu,2019-01-21 This book gathers 23 papers by top experts from 11 countries presented at the 3rd Houston International Forum Concrete Structures in Earthquake Designing infrastructures to resist earthquakes has always been the focus and mission of scientists and engineers located in tectonically active regions especially around the Pacific Rim of Fire including China Japan and the USA The pace of research and innovation has accelerated in the past three decades reflecting the need to mitigate the risk of severe damage to interconnected infrastructures and to facilitate the incorporation of high speed computers and the internet The respective papers focus on the design and analysis of concrete structures subjected to earthquakes advance the state of knowledge in disaster mitigation and address the safety of infrastructures in general     **11th PhD Symposium in Tokyo Japan - Reinforcement for Modern Concrete Structures** Khan Mahmud Amanat,2025-03-26 There are a lot of excellent textbooks on the design of reinforced concrete structures However based on professional experience of more than thirty years the author feels that a separate book dedicated only to discuss the properties behavior and use of reinforcement in concrete construction is highly justified Conventional textbooks on concrete structures focus primarily on the mechanics of reinforced concrete design Properties of reinforcement are discussed in a limited manner only those which are deemed just adequate for discussing the theory of concrete mechanics Typically such books contain little or no background information or explanation as to why the various code provisions or rules regarding the reinforcement are imposed or formulated It is observed that the application of modern materials and technologies in reinforcement manufacturing does not get proper attention or consideration in the engineering practices of many professionals Based on the interaction with many engineers engaged in the design and construction of concrete structures the author feels that there is a lack of the essential background knowledge of the engineering properties and behavior of concrete reinforcement among many of them And such a lack of knowledge often leads to improper implementation of the code design provisions Limited scope of our existing engineering curricula is primarily responsible for this This book has been written with an aim to fill this gap and to make engineering students and practicing engineers more up to date

Proceedings of the 23rd Pacific Basin Nuclear Conference, Volume 3 Chengmin Liu,2023-05-09 This is the third in a series of three volumes of proceedings of the 23rd Pacific Basin Nuclear Conference PBNC 2022 which was held by Chinese

Nuclear Society As one in the most important and influential conference series of nuclear science and technology the 23rd PBNC was held in Beijing and Chengdu China in 2022 with the theme Nuclear Innovation for Zero carbon Future For taking solid steps toward the goals of achieving peak carbon emissions and carbon neutrality future oriented nuclear energy should be developed in an innovative way for meeting global energy demands and coordinating the deployment mechanism It brought together outstanding nuclear scientists and technical experts senior industry executives senior government officials and international energy organization leaders from all across the world The proceedings highlight the latest scientific technological and industrial advances in Nuclear Safety and Security Operations and Maintenance New Builds Waste Management Spent Fuel Decommissioning Supply Capability and Quality Management Fuel Cycles Digital Reactor and New Technology Innovative Reactors and New Applications Irradiation Effects Public Acceptance and Education Economics Medical and Biological Applications and also the student program that intends to raise students awareness in fully engaging in this career and keep them updated on the current situation and future trends These proceedings are not only a good summary of the new developments nuclear science and technology but also a useful guideline for the researchers engineers and graduate students

ACI Manual of Concrete Practice American Concrete Institute,2002 **An Introduction to Natural Hazard Analysis and Design Criteria** J. Paul Guyer, P.E., R.A.,2021-05-09 Introductory technical guidance for civil engineers and other professional engineers and construction managers interested in analysis and design criteria to mitigate natural hazards Here is what is discussed 1 CRITERIA AND GUIDELINES FOR EXTREME STRAIGHT LINE WIND TORNADO AND HURRICANE DESIGN 2 CRITERIA AND GUIDELINES FOR FLOOD SEICHE AND TSUNAMI DESIGN 3 PROBABILISTIC FLOOD HAZARD ASSESSMENT AND DETERMINATION OF FLOOD DESIGN PARAMETERS 4 SSC DESIGN AND EVALUATION TO MITIGATE FLOOD RELATED HAZARDS

Structures Under Shock and Impact XV S. Syngellakis,G. Schleyer,2018-10-23 Discussing the increasing need to protect civilian infrastructure and industrial facilities against unintentional loads arising from accidental impact and explosion events as well as terrorist attack this book contains papers presented at the 15th International Conference on Structures under Shock and Impact This successful conference series has been regularly held since it began in 1989 in Cambridge Massachusetts While advances have been made over this period many challenges remain such as to develop more effective and efficient blast and impact mitigation approaches than currently exist The primary focus remains the survivability of physical facilities and the protection of people as well as reducing economic losses and impact on the environment with emphasis on innovative protective technologies to support the needs of an economically growing modern society The application of this technology ranges from the safe transportation of people in several modes and the transportation of dangerous or combustible materials to defences against natural hazard threats such as flood wind storm tsunami and earthquake Large scale testing is prohibitive and small scale laboratory testing results in scaling uncertainties Continuing research is therefore essential to improve knowledge on how these structures

behave under a variety of load actions some of which interact making it even more complex and difficult to define. Consequently, more use of advanced numerical simulations for load and structural response calculations is common practice in industry and research. Such calculations can directly be used in design and risk assessment calculations but also be applied as input to more simplified design tools and design codes. Whether numerical or analytical modelling techniques are employed, experimental validation is vital for there to be acceptance of the approach to be used. The published research aims for the exchange of ideas and results to promote a better understanding of the critical issues relating to the testing behaviour, modelling and analyses of protective structures against blast and impact loading.

*Advances on bond in concrete* FIB - International Federation for Structural Concrete, 2022-12-01

Structural behavior of reinforced concrete elements strongly depends on the interaction between the reinforcing bars and the surrounding concrete which is generally referred to as bond in concrete. In service conditions, the reinforcement to concrete bond governs deformability through the tension stiffening of concrete surrounding the bar as well as the crack development and crack width. At Ultimate Limit State, bond governs anchorage and lap splices behavior as well as structural ductility. When plain smooth bars were used, the steel to concrete bond was mainly associated with chemical adhesion and friction that is related to the surface roughness of the rebar. As steel strengths increased, the need to enhance interaction between steel and the surrounding concrete was recognized, and square twisted rebars, indented rebars, or later on ribbed rebars came into the market, the latter being the type of deformed bar most commonly adopted since the 1960-70s. When ribbed rebars became widely used, several research studies started worldwide for better understanding the interaction between ribs and the surrounding concrete. Researchers evidenced the development of micro cracks due to the wedge action of the ribs towards the external face of the structural element. If confinement is provided by the concrete cover by transverse reinforcement or by an external transverse pressure, the full anchorage capacity is guaranteed and a pull out failure occurs with crushing of concrete between the ribs. On the contrary, with lesser confining action, a splitting failure of bond occurs; the latter may provoke a brittle failure of the lap splice or in some cases of anchorages. However, after many years of research studies on bond related topics, there are still several open issues. In fact, new materials entered into the market as concrete with recycled aggregates or fibre reinforced concrete, the latter having a kind of distributed reinforcement into the matrix; the fibres provide a better confinement to the wedge action of the ribs. In addition, concrete and steel strength continuously increased over the years, causing changes in the bond behavior due to differences in mechanical properties of materials but also to the different concrete composition at the interface with the steel rebar, causing a different bond behavior. Moreover, the lower water-cement ratio of these high strength concrete makes the bleeding phenomena less evident, changing the concrete porosity in the upper layers of the structural element and thus making the current casting position parameters no longer reliable. Finally, concrete with recycled aggregates are becoming more important in a market that is looking forward to a circular economy. As such, all the experimental results and database

that allowed the calibration of bond rules now present in building codes for conventional concrete may be not be representative of these new types of materials nowadays adopted in practice Furthermore after more than 50 years of service life structural elements may not satisfy the current safety requirements for several reasons including material degradation with particular reference to steel corrosion or increased loads by also considering the seismic actions that were non considered by building codes at the time of the original design The structural assessment of existing structures requires proper conceptual models and new approaches for evaluating the reliability of existing structures by also considering the remaining expected service life In addition specific rules for older materials as plain smooth bars should be revised for a better assessment of old structures Last but not least interventions in existing structures may require new technologies now available such as post installed rebars While many advances have been achieved there remain areas where a better understanding of bond and its mechanisms are required and where further work is required to incorporate this understanding into safe and economic rules to guide construction and maintenance of existing infrastructures These aspects were widely discussed within the technical community particularly in the fib Task Group 2 5 and in the ACI 408 Committee dealing with bond and anchorage issues Furthermore special opportunities for discussing bond developments were represented by the International Conferences on Bond in Concrete held each decade since 1982 as well as by joint workshops organized by fib TG2 5 and ACI 408 Within this technical collaboration this Bulletin was conceived and thus it collects selected papers presented at the joint fib ACI Convention Session on Bond in Concrete held in Detroit USA in 2017 The bulletin is based on four main Sections concerning General aspects of bond Anchorages and laps of bars and prestressing tendons Bond under severe conditions Degradation of bond for corrosion Bond in new types of concrete The main aim of the Bulletin is to shed some new lights on the advances in understanding and application of bond related issues achieved over the last few years and identify the challenges and priorities to be addressed in the next years Another important aspect of the bulletin is to provide practical information from research findings

**Sustainable Design and Eco Technologies for Infrastructure** Rajinder Ghai,Luh-Maan Chang,Raju Sharma,Anush K. Chandrappa,2024-10-03 This book presents the select proceedings of Civil Engineering Conference in the Asian Region CECAR 9 hosted by the ICE I under the aegis of ACECC at Goa India from 21 23 September 2022 It presents innovations and recent trends in civil engineering technologies research and infrastructural developments and facilitates new ideas in the field of infrastructure design and construction Various topics covered include innovative infrastructure design practice and construction technology for sustainability infrastructure development for smart and sustainable cities and affordable housing for developing economies new construction materials and sustainability of infrastructure geotechnical management operation and safety eco technology in pavement design and construction of roads and airport This book will be useful for students researchers and professionals working in the area of civil engineering

*Concrete and Grout in Nuclear and Hazardous Waste Disposal* Akthem A. Al-Manaseer,D. M. Roy,1995

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equation and  $x$  is the variable the discriminant of a quadratic equation is the part of the quadratic formula under the square root sign which is  $b^2 - 4ac$  the value of the discriminant determines the number and

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web the discriminant for any quadratic equation of the form  $y = ax^2 + bx + c$  is found by the following formula and it provides critical information regarding the nature of the roots solutions of any quadratic equation formula discriminant  $b^2 - 4ac$

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web the discriminant is the part of the quadratic formula underneath the square root symbol  $b^2 - 4ac$  the discriminant tells us whether there are two solutions one solution or no solutions quick review of the quadratic formula the quadratic formula says that  $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$  for any quadratic equation like  $ax^2 + bx + c = 0$

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web the standard form of a quadratic equation is  $ax^2 + bx + c = 0$  where  $a$ ,  $b$  and  $c$  are real numbers and  $a \neq 0$  the term  $b^2 - 4ac$  is known as the discriminant of a quadratic equation it tells the nature of the roots if the discriminant is greater than 0 the roots are real and different if the discriminant is equal to 0 the roots are real and equal if the

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web mar 1 2022 the quadratic formula  $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$  if the discriminant is positive this means we are taking the square root of a positive number we will have a positive and negative real solution this equation will have two real solutions or  $x$   $x$  intercepts

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