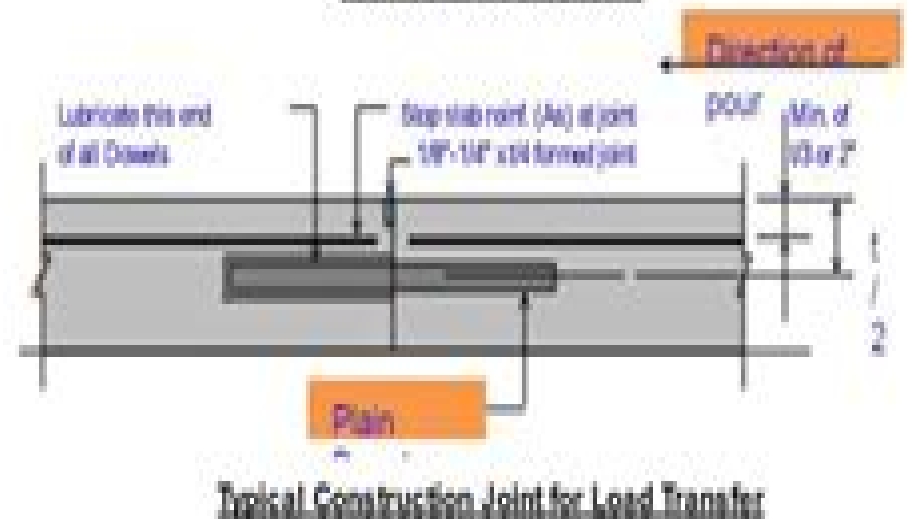
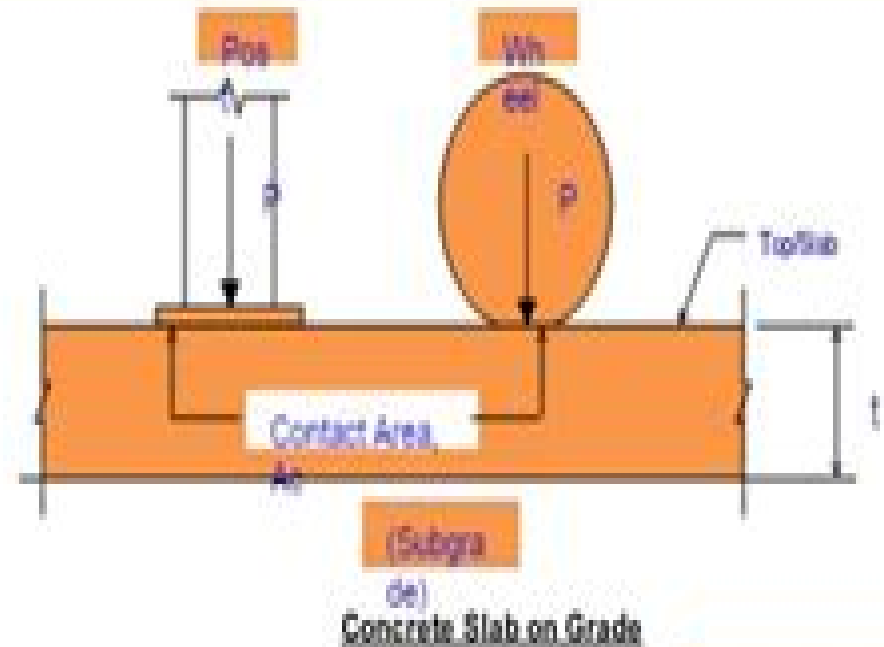


Analysis Of Concrete Slabs On Grade Spreadsheet

Input Data:

Slab Thickness, t =	8.000	in.
Concrete Strength, f'_c =	4000	psi
Conc. Unit Weight, w_c =	150	pcf
Reinforcing Yield, f_y =	60000	psi
Subgrade Modulus, k =	100	pci
Concentrated Load, P =	6000.00	lbs.
Contact Area, A_c =	144.00	in. ²
Factor of Safety, FS =	3.00	
Dowel Bar Dia., d_b =	0.750	in.
Dowel Bar Spacing, s =	12.000	in.
Const. Joint Width, z =	0.2500	in.
Joint Spacing, L =	20.000	ft.
Temperature Range, DT =	50.00	deg.
Increase for 2nd Load, i =	0.00	%



Results:

Design Of Slab On Grade Examples

Robert R. Redfield



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Designing Floor Slabs on Grade Boyd C. Ringo, Robert B. Anderson, 1996 **Building Code Requirements for Structural Concrete (ACI 318-08) and Commentary** ACI Committee 318, American Concrete Institute, 2008 The quality and testing of materials used in construction are covered by reference to the appropriate ASTM standard specifications Welding of reinforcement is covered by reference to the appropriate AWS standard Uses of the Code include adoption by reference in general building codes and earlier editions have been widely used in this manner The Code is written in a format that allows such reference without change to its language Therefore background details or suggestions for carrying out the requirements or intent of the Code portion cannot be included The Commentary is provided for this purpose Some of the considerations of the committee in developing the Code portion are discussed within the Commentary with emphasis given to the explanation of new or revised provisions Much of the research data referenced in preparing the Code is cited for the user desiring to study individual questions in greater detail Other documents that provide suggestions for carrying out the requirements of the Code are also cited **Guide for Concrete Floor and Slab Construction** American Concrete Institute. Committee 302, ACI Committee 302, 2004 **Building Code Requirements for Structural Concrete (ACI 318-05) and Commentary (ACI 318R-05)** ACI Committee 318, 2005 **ACI Manual of Concrete Practice** American Concrete Institute, 2002 *Structural Foundation Designers' Manual* W. G. Curtin, Gerry Shaw, Gary Parkinson, J. Golding, Norman Seward, 2008-04-15 This manual for civil and structural engineers aims to simplify as much as possible a complex subject which is often treated too theoretically by explaining in a practical way how to provide uncomplicated buildable and economical foundations It explains simply clearly and with numerous worked examples how economic foundation design is achieved It deals with both straightforward and difficult sites following the process through site investigation foundation selection and finally design The book includes chapters on many aspects of foundation engineering that most other books avoid including filled and contaminated sites mining and other man made conditions features a step by step procedure for the design of lightweight and flexible rafts to fill the gap in guidance in this much neglected yet extremely economical foundation solution concentrates on foundations for building structures rather than the larger civil engineering foundations includes many innovative and economic solutions developed and used by the authors practice but not often covered in other publications provides an extensive series of appendices as a valuable reference source For the Second Edition the chapter on contaminated and derelict sites has been updated to take account of the latest guidelines on the subject including BS 10175 Elsewhere throughout the book references have been updated to take account of the latest technical publications and relevant British Standards *Load Calculation for Residential Winter and Summer Air Conditioning* , 1986 **Geotechnical and Foundation Engineering** Robert W. Day, 1999 This study presents practical aspects of geotechnical and foundation engineering with the emphasis on visual aspects It develops a project and uses it as an

example for the way to conduct design and construction methods and procedures **Michigan Engineers' Annual**
Containing the Proceedings of the Michigan Engineering Society, 1928 Practical Foundation Engineering
Handbook Robert Wade Brown, 2001 Filled with handy illustrations charts tables and case study examples this book offers
proven expert design alternatives for even substandard soil and challenging site conditions with example problems for any
type of structure Design of Modern Highway Bridges Narendra Taly, 1998 This text provides an introduction to the theory
and practice of designing modern highway bridge superstructures Beginning with the history of bridges it describes various
types of bridge superstructures materials of construction bridge loadings and analysis techniques for various types

Refrigeration and Air Conditioning Air-Conditioning and Refrigeration Institute, 1987 Helps prepare readers for the
Federally required EPA Certification for technicians Exceptionally comprehensive authoritative up to date and well
illustrated in full color It focuses on accepted and expected industry practices applicable to a wide variety of HVACR jobs For
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Warm Air Heating Hydronic Heating HVAC Control Systems and Servicing HVAC Systems **Design and Construction**
Manual for Residential Buildings in Coastal High Hazard Areas United States. Federal Insurance Administration, 1984

Building Structures James E. Ambrose, 1993 Construction Details From Architectural Graphic Standards Eighth Edition
Edited by James Ambrose A concise reference tool for the professional involved in the production of details for building
construction this abridgement of the classic Architectural Graphic Standards provides indispensable guidance on
standardizing detail work without having to create the needed details from scratch An ideal how to manual for the working
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Equipment for Buildings Eighth Edition Benjamin Stein and John S Reynolds The book is packed with useful information and has been the architect s standard for fifty years Electrical Engineering and Electronics on the seventh edition More up to date than ever this reference classic provides valuable insights on the new imperatives for building design today The Eighth Edition details the impact of computers data processing and telecommunications on building system design the effects of new stringent energy codes on building systems and computer calculation techniques as applied to daylighting and electric lighting design As did earlier editions the book provides the basic theory and design guidelines for both systems and equipment in everything from heating and cooling water and waste fire and fire protection systems lighting and electrical wiring plumbing elevators and escalators acoustics and more Thoroughly illustrated the book is a basic primer on making comfort and resource efficiency integral to the design standard 1991 0 471 52502 2 1 664 pp **Journal of the American Concrete Institute** American Concrete Institute,1913 Each number includes Synopsis of recent articles *Design Handbook* ,1991 *Principles of Air Conditioning* V. Paul Lang,1987 *ACI Design Handbook, in Accordance with the Strength Design Method of ACI 318-89* ,1991 **Municipal and County Engineering** ,1929 Vols 76 83 93 include Reference and data section for 1929 1936 46 1929 called Water works and sewerage data section *Water Works & Sewerage* ,1929 Vols 76 92 include reference and data section for 1929 1929 called water works and sewage data section

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