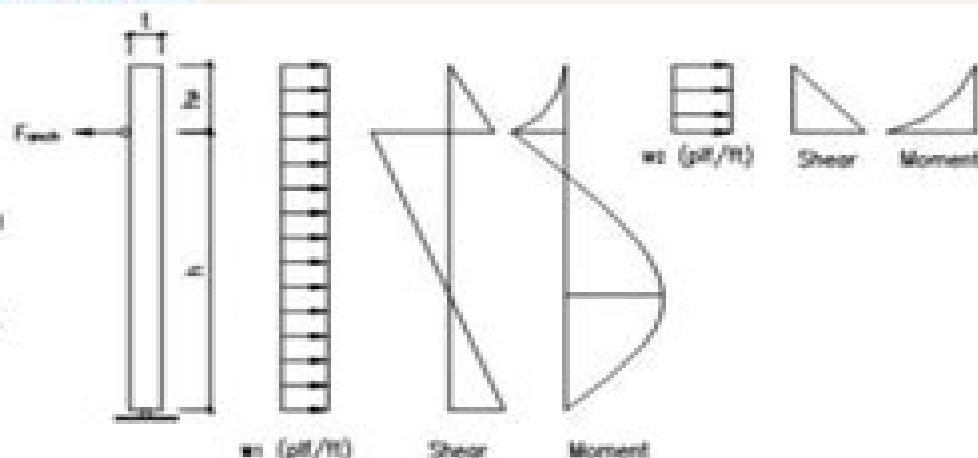


# Lateral Force for One-Story Wall Based on IBC 2006

## INPUT DATA

WALL THICKNESS	$t$	=	8	in
PARAPET HEIGHT	$h_p$	=	4	ft
WALL HEIGHT	$h$	=	14	ft
TOTAL WALL DENSITY	$\rho$	=	150	pcf
SEISMIC PARAMETER	$S_{DS}$	=	0.54	(ASCE 7-05 Sec 11.4.4)
SEISMIC DESIGN CATEGORY	SDC	=	C	
DIAPHRAGM FLEXIBLE ? (0=no, 1=yes)		=	1	Yes
SEISMIC IMPORTANCE FACTOR	$I$	=	1	(ASCE 7-05 Tab 11.5-1)
WIND IMPORTANCE FACTOR	$I$	=	1	(ASCE 7-05 Tab 6-1)
BASIC WIND SPEED	$V$	=	90	mph
EXPOSURE CATEGORY (B, C, D)		=	C	
TOPOGRAPHIC FACTOR	$K_{zt}$	=	1	Flat, (ASCE 6.5.7.2)



## DESIGN SUMMARY

Out-of-plane force for wall design	$w_1$	=	22.5	psf (Wind governs)
Out-of-plane force for parapet design	$w_2$	=	61.7	psf (Wind governs)
Out-of-plane force for anchorage design	$F_{unbr}$	=	440	plf (Horizontal direction)
(The governing seismic forces have been reduced by 0.7 for ASD)				

## WIND ANALYSIS

Out-of-plane wind force for wall design (ASCE 7-05, Eq 6-22)

$$w_{1,wind} = q_s [(GC_P) - (GC_{Pi})] = (0.00256 K_z K_{Dt} K_d V^2 I) [(GC_P) - (GC_{Pi})] = 22.5 \text{ psf}$$

Where:  $K_z = 0.88$  (mean roof  $h = 16$  ft, changeable) (ASCE Tab. 6-3)  $K_{Dt} = 0.85$  (corner ? Yes, TA = 18.67 ft<sup>2</sup>) (ASCE Fig. 6-11A)  $GC_P = -1.30$  (corner ? Yes, TA = 18.67 ft<sup>2</sup>) (ASCE Fig. 6-11A)  $GC_{Pi} = 0.18$  (ASCE Fig. 6-5)

Out-of-plane wind force for parapet design (ASCE 7-05, Eq 6-24)

$$w_{2,wind} = q_p [(GC_P) - (GC_{Pi})] = (0.00256 K_z K_{Dt} K_d V^2 I_p) [(GC_P) - (GC_{Pi})] = 61.7 \text{ psf, (ASCE 7-02, 6.5.12.4.4)}$$

Where:  $K_z = 0.88$  (ASCE Tab. 6-3)  $K_{Dt} = 0.85$  (ASCE Tab. 6-4)  $GC_P = -1.40$  (TA = 5.333 ft<sup>2</sup>) (wall, ASCE Fig. 6-11A)  $GC_{Pi} = -2.80$  (roof, ASCE Fig. 6-11B)  $GC_{Pp} = 0.18$  (roof, ASCE Fig. 6-5)

Out-of-plane wind force for anchorage design

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**Xinzheng Lu, Hong Guan**



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**Nanomaterials Applications for Environmental Matrices** Ronaldo do Nascimento,Odair Pastor Ferreira,Amauri Jardim De Paula,Vicente de Oliveira Sousa Neto,2019-06-14 Nanomaterials Applications for Environmental Matrices Water Soil and Air takes a highly interdisciplinary approach in evaluating the use of a range of nanomaterials for various

environmental applications focusing in particular on their use in soil remediation in improving water cleanliness and in improving air quality The book will not only help both materials scientists and environmental scientists understand the role played by nanomaterials in achieving these goals but also give them practical ways they can be used to this end Brings together the various applications and experimental aspects of nanoscience in the fields of chemistry biology environmental science and physics Maps the relationship between synthesis properties and environmental interactions of nanomaterials enabling greater understanding Describes new application opportunities for using nanomaterials in pollution trace detection and environmental improvement     Multilevel Modeling of Secure Systems in QoP-ML Bogdan Księżopolski,2015-07-02

Introducing the Quality of Protection Modeling Language QoP ML this book provides for the abstraction of security systems while maintaining emphasis on the details of quality protection It delineates the steps used in cryptographic protocol and introduces a multilevel protocol analysis that expands current understanding Every operation defined by QoP ML is described within parameters of security metrics therefore evaluating the impact of the operation on the entire system s security     **Human Haptic Perception** Martin Grunwald,2008-12-10 Haptic perception human beings active sense of touch is the most complex of human sensory systems and has taken on growing importance within varied scientific disciplines as well as in practical industrial fields This book s international team of authors presents the most comprehensive collection of writings on the subject published to date and cover the results of research as well as practical applications After an introduction to the theory and history of the field subsequent chapters are dedicated to the neuro physiological basics as well as the psychological and clinical neuro psychological aspects of haptic perception     Earthquake Disaster Simulation of Civil Infrastructures Xinzheng Lu,Hong Guan,2017-01-18 Based on more than 12 years of systematic investigation on earthquake disaster simulation of civil infrastructures this book covers the major research outcomes including a number of novel computational models high performance computing methods and realistic visualization techniques for tall buildings and urban areas with particular emphasize on collapse prevention and mitigation in extreme earthquakes earthquake loss evaluation and seismic resilience Typical engineering applications to several tallest buildings in the world e g the 632 m tall Shanghai Tower and the 528 m tall Z15 Tower and selected large cities in China the Beijing Central Business District Xi an City Taiyuan City and Tangshan City are also introduced to demonstrate the advantages of the proposed computational models and techniques The high fidelity computational model developed in this book has proven to be the only feasible option to date for earthquake induced collapse simulation of supertall buildings that are higher than 500 m More importantly the proposed collapse simulation technique has already been successfully used in the design of some real world supertall buildings with significant savings of tens of thousands of tons of concrete and steel whilst achieving a better seismic performance and safety The proposed novel solution for earthquake disaster simulation of urban areas using nonlinear multiple degree of freedom MDOF model and time history analysis delivers several unique advantages 1 true representation

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Self-Assembled Water Chains Byung Il Kim, 2022-12-14 Despite advances in the long range electrostatic double layer force which depends strongly on ionic strength in water by using theoretical models such as DLVO Derjaguin Landau Verwey and Overbeek the structure of confined water in air still remains widely unknown and has led to a variety of unexplained phenomena This book bridges that gap by introducing a newly developed scanning probe microscopy SPM approach which enables one to probe confined water at the molecular and atomic scale Written by the developer of SPM this book covers this new approach as well as original approaches to addressing general interfacial water issues It also introduces the cantilever based optical interfacial force microscope COIFM which was invented by the author along with the methodology The improved understanding will contribute to liquid based nano and bio technologies such as lab on a chip technologies nanofluidic devices dip pen nanolithography nano oxidation water based granular interactions liquid based nanolubricants hydration layers in biopolymers manipulation of biomolecules protein folding stability of colloid suspensions enzyme activity swelling in clays development of bioactive surfaces water columns and ion channeling in membranes and scanning probe microscopy SPM It will also contribute to the improved performance of moving components in silicon based micro electro mechanical system MEMS devices where water plays a key role in interfacial interactions

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