#### 3.0 General

#### 3.0.1 Design Overview

Oreeshouse buildings are a complete structure including the structural support and enclosure

The primary structural system includes:

- The Primary Roof system This is typically a truss, rigid frame, such or similar system.
- Secondary Structural System This includes bracing elements and enclosure support components such as parties, glazing bars, ridge beam and gutters as well as girts. End well firming may be a primary or secondary structural system. Many of these secondary components have several roles, supporting the glazing, dead and live load, as well as beacing a structure, and actal load.
- Columns Columns, and wells, enclosing wells or other elements
- Foundations The foundation may be spread footings, continuous concrete footings or fingpole type foundations placed directly in the earth. Sometimes the fingpole type footings may be backfilled with concrete or other fill. In greenhouse design, fingpole type footings are usually designed as unrestrained foundations. Where there is a slab on grade present, a restrained pole footing may be used. Such a footing requires a positive "hoop" tie that exhends into the slab and around the pole, and the pole footing custod be isolated by an attention soint.
- Cladding Cladding may be of many materials including glass, polycarbonates, fiberglass or polycibylene. Cladding support and fastering systems vary by material. Cladding is not part of the structural system and is not covered in this structural design manual. Cladding, and its design criteria, is discussed of length in a separate document.

#### 3.0.2 Structural Design

The IBC requires all buildings to have a rational analysis. Rational engineering analysis is a computational analysis, either by hand or computer, that user a scorpted load distribution and determination methods. Such analysis shall follow acceptable engineering practices. Where the code is mon-specific in the method of analysis, as with transer vs. arches, the engineer shall analyse the system using a method acceptable to the approving authority. Thus, each engineer will analyse the system using an accepted method. However, the detailed design must accepted in the individual members as discussed above.

Mineral or graphical solutions are permissible if such analysis can account for the various unbalanced load or other operial design requirements. For most structure, a computer modeling type analysis will be necessary, Based on the typical grandless of design, the sections berein

# Ngma Structural Design Manual

**WJ Hussar** 

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*Greenhouse Engineering* Ilhami Yildiz, 2021-05-23 Sustainable energy development concept requires and maintains multiple linkages among energy production energy consumption human well being and environmental quality Greenhouse Engineering Integrated Energy Management puts forward the concept of integrated energy management and modeling pertinent to greenhouses that will eventually help reduce the load on power grids demand for fossil fuels and water and supply CO2 for the greenhouse production This book helps enhance the competitive position of the global greenhouse industry by introducing economically environmentally and socially sustainable technologies and management strategies Exclusive title on integrated energy management approach for greenhouse designing Addresses energy for heating concept Includes case studies from real work greenhouse systems Incorporates a design energy management approach Contains updated material on greenhouse heating with examples and case studies Aimed at researchers professionals and students in the fields of energy systems mechanical agriculture and biosystems engineering Controlled Environment Engineering Ilhami Yildiz, 2025-12-15 This integrated book introduces broad engineering concepts and relevant physiological principles and environmental parameters and demonstrates in a step by step approach how controlled environment engineering knowledge can be put in use in designing plant animal and aquatic bioenvironmental systems It covers integrated energy and waste management approaches and clean energy technologies including real world case studies and complete design examples with state of the art technologies and updated material globally Provides exclusive material on plant animal and aquatic systems engineering and relevant waste management systems in a single book Introduces broad engineering concepts relevant physiological principles and environmental parameters Incorporates a design and integrated energy and waste management approach Demonstrates how controlled environment engineering knowledge can be put in use in designing plant animal and aquatic production facilities Includes calculations and controlled environment design examples including homework problems This book is aimed at researchers and graduate students in agricultural aquacultural and biosystems engineering control systems aquaculture and agriculture Architectural Glass to Resist Seismic and Extreme Climatic Events Richard A. Behr, 2009-09-14 Glass is a popular cladding material for modern buildings The trend for steel framed glass clad buildings instead of those using traditional materials such as brick and concrete has inherent problems These include for example the performance of architectural glass in extreme climatic events such as windstorms and heavy snow loads and also during earthquakes This book reviews the state of the art in glass and glazing technology to resist failure due to these natural events Building code seismic requirements for architectural glass in the United States are considered first of all followed by a chapter on glazing and curtain wall systems to resist earthquakes The next two chapters discuss snow loads on building envelopes and glazing systems and types and design of glazing systems to resist snow loads Wind pressures and the impact of wind borne debris are then considered in the next group of chapters which also review

special types of glazing systems to resist windstorms A final chapter reviews test methods for the performance of glazing systems during earthquakes and extreme climatic events With its distinguished editor and team of contributors Architectural glass to resist seismic and extreme climatic events is an essential resource for architects structural civil and architectural engineers researchers and those involved in designing and specifying building glazing and cladding materials in areas where severe windstorms snow and earthquakes are a threat Considers the state of the art in glass and glazing technology to resist failure due to extreme climatic events Reviews specific building techniques and test methods to enhance glazing performance Greenhouse management & production ,1995 during snow storms wind storms and earthquakes A Manual of Sweet's General Building & Renovation ,1999 Facts on Concrete Masonry ,1966 Transactions of the ASAE. American Society of Agricultural Engineers, 1979 **Scientific and Technical Organizations and Agencies Directory** Margaret Labash Young, 1987 **Geothermal Training in Iceland**, 1996 Structural Design ,1978

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