

Chapter 3 – Structural Design

3.0 General

3.0.1 Design Overview

Greenhouse buildings are a complete structure including the structural support and enclosure elements.

The primary structural system includes:

- **The Primary Roof system** - This is typically a truss, rigid frame, arch or similar system
- **Secondary Structural System** - This includes bracing elements and enclosure support components such as purlins, glazing bars, ridge beam and gutters as well as girts. End wall framing 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 bracing a structure, and axial load.
- **Columns** - Columns, end walls, enclosing walls or other elements
- **Foundations** - The foundation may be spread footings, continuous concrete footings or flagpole type foundations placed directly in the earth. Sometimes the flagpole type footings may be backfilled with concrete or other fill. In greenhouse design, flagpole 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 "loop" tie that extends into the slab and around the pole, and the pole footing cannot be isolated by an expansion joint.
- **Cladding** - Cladding may be of many materials including glass, polycarbonates, fiberglass or polyethylene. Cladding support and fastening 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 at 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 uses accepted load distribution and determination methods. Such analysis shall follow acceptable engineering practices. Where the code is non-specific in the method of analysis, as with trusses vs. arches, the engineer shall analyze the system using a method acceptable to the approving authority. Thus, each engineer will analyze the system using an accepted method. However, the detailed design must accommodate all the forces and moments on the individual members as discussed above.

Manual or graphical solutions are permissible if such analysis can account for the various unbalanced load or other special design requirements. For most structures a computer modeling type analysis will be necessary. Based on the typical greenhouse design, the sections herein

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