

JANCO



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BuyLine 8313

**INSTITUTIONAL • RESIDENTIAL • COMMERCIAL
GREENHOUSES & SOLAROOMS**



Over Fifty Nine Years of Excellence



JANCO GREENHOUSES

Located at 9630 Gerwig Lane, Columbia, MD 21046, Bright Tower Manufacturing Company, Inc. is the manufacturer of Janco Greenhouses. In addition to being one of the largest residential greenhouse manufacturers in the United States (the standard line includes over 100 all-aluminum models), we continue to expand both commercial and institutional greenhouse operations to provide for engineering, design and construction of glass structures in 50 states.

Janco representatives are located throughout the United States to aid architects, engineers, contractors, and home owners in the planning and construction of greenhouses for every purpose. Builders may also call on Janco's custom design department for aid and advice.

All Janco greenhouses are precision-engineered with the newest manufacturing technology. Our in-plant facilities include aluminum extrusions, factory-sealed insulated glass, bronze-toning, and a variety of other attractive finishes available as standard options. This allows us to offer superior quality control at lower cost.



Residential horticultural greenhouse, lean-to built-up mill finish, featuring evaporative cooler, aluminum roll-up shades and gas heater.



Residential horticultural greenhouse, lean-to, built-up, bronze tone finish.

Greenhouse types offered by Janco:

1. INSULATED SOLAROOMS
2. INSULATED GREENHOUSES
3. SINGLE GLAZED GREENHOUSES
4. FULLY TEMPERED GLASS GREENHOUSES
5. COMMERCIAL GREENHOUSES

The traditional greenhouse will be suitable for many sections of the country where winters are mild and high heating costs are not a factor. This type of greenhouse is the most economical choice of the serious grower, or flower and plant enthusiast. These greenhouses are available in straight eaves and curved eaves, attached to your house or free standing.

Insulated Solarrooms should be selected in locations where winters are severe and the appearance of slim line tubular frames are necessary to harmonize with today's modern architecture. These models are available as curved and straight eave lean-to's only, and are to be utilized more as room additions, hot tub enclosures and other types of recreational spaces. Janco Insulated Greenhouses are designed to fill the need for a structure that combines the insulative qualities of the Solarroom and the economy and style selection of single glazed greenhouses. Janco offers a full choice of 40 different models-considerably more than any other manufacturer.

If you would like an attractive leisure time addition to a home that is heat-retentive and yet light and airy enough for plants, then the Janco Insulated Greenhouse would be your best choice. Desired options-tempered glass, operating vents, bronze or white paint finish, and a full line of accessories.

Even span residential greenhouse



More residential and commercial buyers choose Janco greenhouses because they have compared and found:

More standard models to choose from, plus custom manufacturing as required.

Greenhouse or Solarroom

What's the difference? Which one is best for your needs? These are the questions that you should answer before specifying Janco or any other manufacturer's product.

Janco is the only manufacturer to offer a complete selection of models to bridge the gap between these two extremes currently available on the market.

COMMERCIAL GREENHOUSES

Through the use of the standard structural parts, modern production line fabrication, and simplified erection techniques, Janco commercial greenhouse may be built independent of other construction or attached to existing structures at one or both ends. Or they may be erected as ridge and furrow units (gutter connected).

Janco commercial greenhouses are also the favorite in public institutions, schools and colleges, agricultural stations, industrial research laboratories, and sewage treatment plants to enclose sludge beds.



State University of New York, Buffalo



THE POTOMAC ALL ALUMINUM RIGID FRAME COMMERCIAL GREENHOUSES

The commercial greenhouses are designed similarly to the truss types except the trusswork is replaced by rigid aluminum bents. These bents are available in sizes ranging from 4" I shapes to 12" I structural shapes (span up to 64').

The advantages of the rigid frame over the truss style are the following:

1. No trusswork: this results in a minimum of framework and structural members, considered by many architects to be more aesthetically pleasing in appearance.
2. Eaves may be straight or curved.
3. Rigid frame allows for lean-to or even-span construction.

Complex shapes, such as octagons, hip roofs, or multi-sided structures are possible and practicable with the rigid frame system.



Rigid Frame Details

Drawings not to scale

Enclosure Details for Insulated Glass and Double Skinned Acrylic or Polycarbonate Sheet Also Available

STRUCTURAL SECTION OF CURVED-EAVE FREE STANDING RIGID FRAME

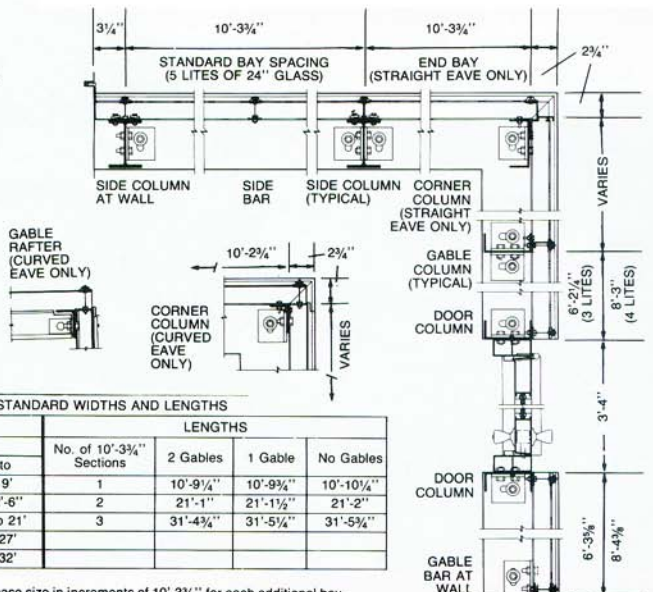
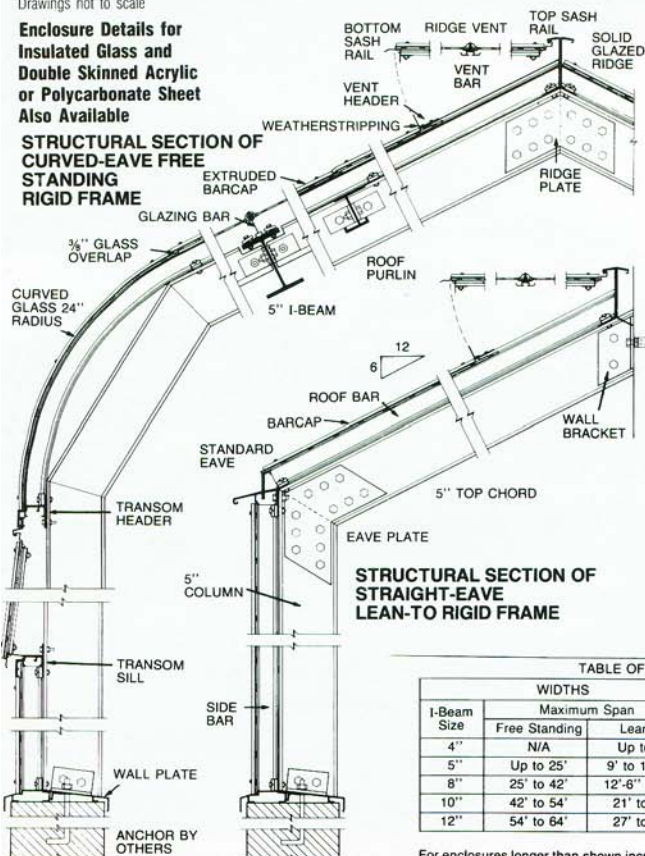


TABLE OF STANDARD WIDTHS AND LENGTHS

| I-Beam Size | WIDTHS | | LENGTHS | | | |
|-------------|---------------|---------------|----------------------------|------------|------------|-------------|
| | Free Standing | Lean-to | No. of 10'-3 3/4" Sections | 2 Gables | 1 Gable | No Gables |
| 4" | N/A | Up to 9' | 1 | 10'-9 1/4" | 10'-9 3/4" | 10'-10 1/4" |
| 5" | Up to 25' | 9' to 12'-6" | 2 | 21'-1" | 21'-1 1/2" | 21'-2" |
| 8" | 25' to 42' | 12'-6" to 21' | 3 | 31'-4 3/4" | 31'-5 1/4" | 31'-5 3/4" |
| 10" | 42' to 54' | 21' to 27' | | | | |
| 12" | 54' to 64' | 27' to 32' | | | | |

For enclosures longer than shown increase size in increments of 10'-3 3/4" for each additional bay.

THE POTOMAC All Aluminum TRUSS SPAN COMMERCIAL GREENHOUSES

JANCO TRUSS SPAN commercial greenhouses are quality designed to meet the most exacting requirements for all aluminum construction. The TRUSS SPAN incorporates such standard JANCO features as:

- 1 – Specially designed structural parts.
- 2 – 10' 3 3/4" bays for maximum light transmission.
- 3 – Beauty in appearance as well as superior strength and durability.
- 4 – Lightweight construction, yet exceeds all major codes and specifications, i.e., the JANCO "28" all aluminum 28' wide truss weighs only 97 pounds.
- 5 – Wide choice of sizes: JANCO TRUSS SPANS are available in multiples of 10' 3 3/4" bays in length and in widths varying from 18' to 52'.
- 6 – Wide choice of styles: JANCO TRUSS SPANS are available with eave plate, center gutter for connected houses or ornamental gutters for that custom look. The TRUSS SPAN may be built as an independent unit, or attached to a building at one or both ends.
- 7 – No interior columns for maximum use or space.
- 8 – Wide variety of uses. JANCO TRUSS SPANS are ideal for commercial and institutional use. They are also used for garden centers, conservatories and sludge bed covers for water treatment plants.
- 9 – JANCO modern production line fabrication provides for simplified erection methods, thus saving time and costs.
- 10 – All aluminum construction for minimum maintenance and upkeep.

Truss Span Details

Drawings not to scale.

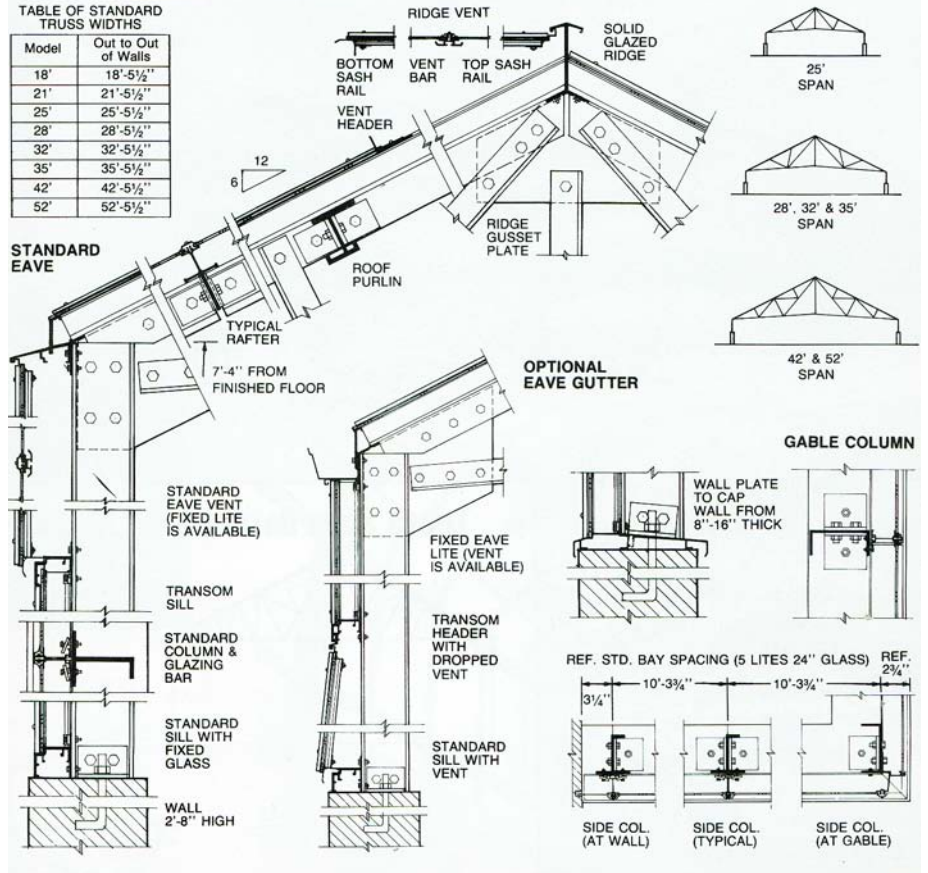
TABLE OF STANDARD LENGTHS

| No. of 10'-3 3/4" Sections | 2 Gables | 1 Gable | No Gables |
|----------------------------|------------|------------|-------------|
| 1 | 10'-9 1/4" | 10'-9 1/4" | 10'-10 1/4" |
| 2 | 21'-1" | 21'-1 1/2" | 21'-2" |
| 3 | 31'-4 3/4" | 31'-5 1/4" | 31'-5 3/4" |

TABLE OF STANDARD TRUSS WIDTHS

| Model | Out to Out of Walls |
|-------|---------------------|
| 18' | 18'-5 1/2" |
| 21' | 21'-5 1/2" |
| 25' | 25'-5 1/2" |
| 28' | 28'-5 1/2" |
| 32' | 32'-5 1/2" |
| 35' | 35'-5 1/2" |
| 42' | 42'-5 1/2" |
| 52' | 52'-5 1/2" |

For enclosures longer than shown increase size in increments of 10' 3 3/4" for each additional bay.
Enclosure details for Insulated Glass and Double Skinned Acrylic or Polycarbonate Sheet Glazed models also available.

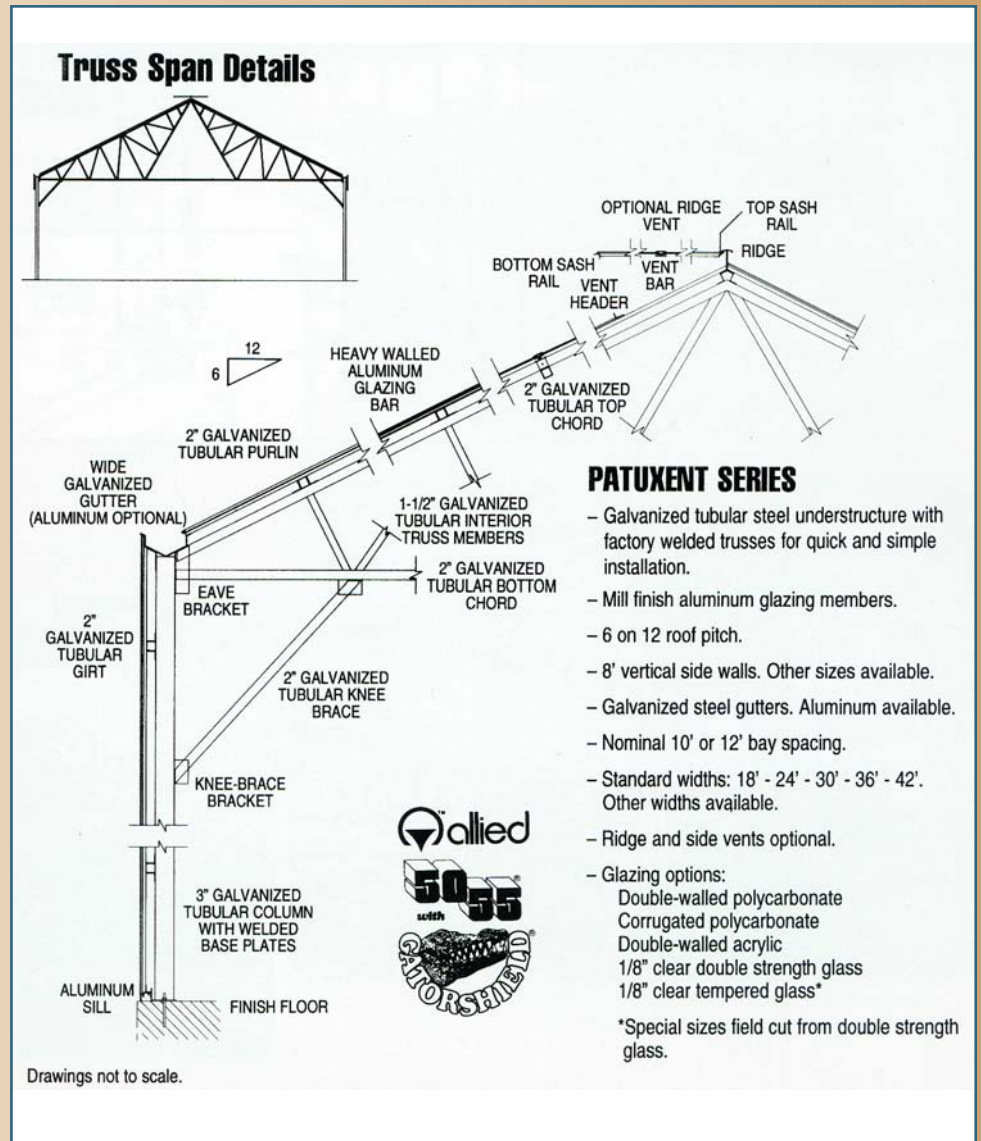


THE PATUXENT STEEL TRUSS SPAN COMMERCIAL GREENHOUSES



JANCO STEEL TRUSS SPAN structures are designed to meet the most exacting requirements and provide these important features:

- 1 – Galvanized tubular steel understructure with factory welded trusses; 6 on 12 roof pitch.
- 2 – Nominal 10' and 12' bay spacing for maximum light transmission.
- 3 – Vertical side walls – 8' standard – can also be built to meet your own design specifications.
- 4 – Wide choice of sizes: JANCO Steel Truss Spans are available in 18' - 24' - 30' - 36' - 42' widths and exceed major codes and specifications – Center gutters are galvanized steel (aluminum optional) for connected houses.
- 6 – Glazing choices: double-walled polycarbonate, double walled acrylic, 1/8" clear double-strength glass and 1/8" clear tempered glass.
- 7 – The PATUXENT Steel Truss Span may be built as an independent structure or attached to a building at one or both ends.
- 8 – Wide variety of uses; commercial and institutional greenhouses, garden centers and conservatories where beauty, quality and value are needed. Also effectively used as sludge bed covers for water treatment plants.
- 9 – JANCO modern production line fabrication provides simplified erection methods, saving time and costs.
- 10 – The PATUXENT Steel Truss Span is built to last, priced to compete.



ATRIUMS-SKYLIGHTS-POOL COVERS

Due to the versatility and adaptability of its basic design and availability in a wide variety of sizes and styles, Janco Greenhouses and Solarrooms can be used in many types of applications as shown.

Spanish Embassy, Washington, D.C.



Galleria Seminary Center, Towson, Maryland



Survival Technology, Inc., Bethesda, Maryland



JANCO RESIDENTIAL, RIGID FRAME AND TRUSS SPAN TYPE GREENHOUSE SPECIFICATIONS

It is the intent of Janco to supply superior quality clear span aluminum and glass structures having curved or straight eaves and being free of interior support columns.

The minimum quality standard throughout the enclosure shall be the conventional "Residential" type greenhouse, no Model _____ as manufactured by the Bright Tower Manufacturing Company, Inc., 9630 Gerwig Lane, Columbia, MD 21046. Only approved shop drawings shall be used to erect all support structure (footings, masonry, and concrete walls).

Scope (same for Solarroom, Rigid Frame, Truss Span): All plumbing, electrical work (power, control or relay wiring), concrete, setting of anchor bolts, grouting, masonry work of any description, utility connections, glass cleaning, and flashing are not covered by this specification.

Automatic ventilation, heating cooling, shading devices and other accessories can be supplied as specified in the contract drawings. Janco will supply the architect with available options upon request.

Materials and Framing

Aluminum Superstructure Residential Type: All aluminum structural members are to be extruded of alloy 6063-T5 or 6063-T6. All fasteners to be 18-8 stainless steel or 2024-T4 aluminum. Standard frame sections to be 2" - 0 5/8" o.c. utilizing 24" or 30" wide glass lites or 2"-6 3/4" OC with 30" glass lites held in place with aluminum barcaps. One line of manual roof vent sash at each side of the ridge and door are standard construction on most models. Special care shall be taken in the fabrication of all aluminum material and all tolerances shall be held to an absolute minimum in order to secure proper fit of the aluminum members specified.

Available finishes on Residential, Rigid Frame, and Truss Span Enclosures: Mill (standard), Baked Enamel, 204-R1 Anodized Satin, bronze or black hard coat, and acrylic paint.

Aluminum Superstructure

Rigid Fram Enclosure, Truss Span: All aluminum structural members are to be extruded of alloy 6063-T5 or T6. Aluminum bolts shall be of alloy 2024-T4. Aluminum structural members are held to a minimum resulting in truss or beam frames on 10" - 3 3/4" centers, consisting of five 2" - 0 3/4" o.c. sections utilizing 24" wide glass lites supported by intermediate roof bars at 2' 0 - 3/4" o.c. capable or receiving glazing and aluminum barcaps. Gable columns to be on a minimum or 6'-2 1/4" or maximum or 8'-3" centers except where door columns occur. At gable doors, back to back of channel columns is to be 3' - 4". All columns are to bear on top of wall at the specified height given on contract drawings. This wall dimension is generally 2'-8", resulting in a standard eave height of approximately 7'-4". Standard construction allows for one line of manual vent sash at each side wall and one line of manual roof vent sash at each side of the ridge. Connections shall be made with aluminum plates, lugs, or fittings.

Condensation Control: All extrusions are designed to collect and carry off condensation to the eaves or to the walls without dripping.

Doors Commercial: Doors to be 1 3/4" thick by 3'-0" high. (Doors other than standard size can be provided as indicated on drawings.) Frames to be composed of tubular extruded aluminum shapes 5" with 1/8" wall thickness. All joints are to be reinforced hairline. Door hardware shall consist of one full height concealed hinge aluminum satin finish and one Lustre Line Lever type no. 48314 satin finish entry type aluminum lockset (where master key of doors and/or special hardware is required exclude special hardware from this section and specify that greenhouse contractor install hardware as furnished by others).

Doors Residential: When furnished, the standard aluminum door all greenhouses is 1 1/4" thick, outswing, hinged on the right from the outside; included is a removable upper panel of 1/8" tempered safety glazing; lower portions a solid aluminum panel, all aluminum mill finish; bronze paint and other colors are available as an option. (This door replaces the 1" thick door pictured on some models shown in the catalog.) Door size for the Highlander, Camellia 6', 8', 10', and Rancher 8' and 10' is 28" x 78". Door size for Rancher 6' is 28" x 69". Door size for the Sun Valley, Camellia 11' and 16', and Chesapeake series is 35" x 78". 5' 0" x 6' 8" sliding door standard for Rancher 10' and camellia 8', 10'.

Glazing Systems (Residential, Rigid Frame and Truss Span)

Single Glazed: 1/8" double strength and tempered glass standard, 2' 0 5/8", 2' - 0 3/4", and 2' - 6 3/4" standard frame section on center.

Glazing to be standard 1/8" double strength-B greenhouse quality or tempered glass with lapped joints on the roof and gables bedded in extruded putty and topped with a bead of gun grade sealant and capped with an extruded aluminum barcap. Barcaps serve to cover and protect sealants and to prevent glass slippage and heat loss.

Optional single glazing materials available for Residential, Rigid Frame, and Truss Span Enclosures: 3/16", or 1/4" annealed clear or tinted; 1/8", 3/16", or 1/4" PPG Solarcool tempered glass. All single glazed options available insulated.

Due to the diverse architectural applications of the Janco Residential, Rigid Frame and Truss Span enclosures, Janco makes available several glazing systems. Janco provides most of the types of glazing systems available. Following are some of the more common systems:

Tempered Double Insulated Glass: 1/2" or 5/8" DSB insulated glass.

Janco's plant has the facilities to manufacture most any type of insulated glass "sandwich," including the varying of glass types and thicknesses, and combinations thereof. The standard insulated panel consists of a 24" and 30" wide, 1/8" DSB or tempered glass lite on the outside and a 1/8" DSB or tempered glass lite on the inside with a factory sealed 1/4" or 3/8" insulated air space between, resulting in a 1/2" or 5/8" insulated glass panel. NOTE: The specifications for special insulated glass should include the type of glass required for both (inside and outside) lites and the total composite thickness required. All Janco insulated glass is double sealed. Tinted glass available on outside of lite only.

Double Skinned Acrylic or Polycarbonate Sheet (Rigid Frame and Truss Span Enclosures only)

Glazing to be 5/8" double skinned acrylic or polycarbonate sheet, to be bedded in silicone sealant and integral polyvinyl gaskets at all joints topped with a bead of silicone sealant and capped with a flat extruded aluminum barcap with integral polyvinyl gaskets. Panel shall be continuous from eave to vent header. Bay spacing of trusses for this system is 12' 0" consisting of three 47 1/4" wide panels with intermediate bars on 4' 0" centers.

Loading (Residential, Solarroom, Rigid Frame and Truss Span): The aluminum enclosure shall be designed to carry the following loads:

- Dead load = 3 PSF or greater
- Wind load = 20 PSF or greater on vertically projected area (12 PSF or greater Normal to roof)
- Live load = 30 PSF or greater
- NOTE: Enclosures can be designed to support greater loads in which special conditions exist, or as state or local codes require.

Building Codes Janco greenhouse and Solarrooms are designed to meet or exceed all known building code requirements. The customer should be aware that different localities may have varying interpretations for glass types use in greenhouses and Solarrooms. Janco has available, in stock many types of glass needed to satisfy special code requirements.

Please note, however, that Janco's responsibility for compliance with any building code glass requirement (tempered, laminated, plastic, or other) or definition (sloped glazing, vertical, or curved glass) is limited to supplying what the customer ordered.

Interpretation of building code criteria is the responsibility to the customer or his agent(s). For this reason, Bright Tower Manufacturing Company, Inc. shall not be held liable for consequential damages resulting from noncompliance in any way with applicable local or national building code glazing requirements.

ALABAMA

Macon County High School - Tuskegee

ARKANSAS

Arkansas Polytechnic College - Russellville

ARIZONA

Transit Maintenance Facility - Phoenix

CALIFORNIA

Standard School District - Oildale

COLORADO

Colorado Mountain College - Leadville
Fountain Valley School - Colorado Springs

CONNECTICUT

Lebanon High School - Lebanon

DELAWARE

Alfred L. DuPont Estate - Wilmington

DISTRICT OF COLUMBIA

National Zoological Park - Washington DC

FLORIDA

Jefferson County High School - Jefferson County

GEORGIA

Shaw High School - Columbus

IDAHO

United States Department of Agriculture -
Aberdeen

ILLINOIS

Sangamon State College - Springfield

INDIANA

Homestead High School - Fort Wayne

IOWA

Iowa Braille and Sight Saving School - Vinton

KANSAS

Menninger Foundations - Topeka

KENTUCKY

Charles Martin Hall - Berea

LOUISIANA

C. E. Bryd High School - Shreveport
Dillard University - New Orleans

MAINE

Middle High School - Howland

MARYLAND

Fort Hill High School - Cumberland
Watkins Mill High School - Watkins Mill

MASSACHUSETTS

Merrimack College - North Andover

MICHIGAN

John J. Pershing High School - Detroit

MINNESOTA

University of Minnesota - St. Paul

MISSOURI

Stoneledge Farm - Dutzo

NEW HAMPSHIRE

Area 15 R.V.E.C. - Manchester

NEW JERSEY

Princeton University - Princeton
Rutgers, The State University - New Brunswick

NEW MEXICO

Navajo Section School - Navajo

NEW YORK

Chautauqua Correctional Facility - Brocton
Ithaca College - Ithaca Lake Placid
Medium Security Facility - Coxsackie
Uihlein Meristem Facility - Cornell University

NORTH DAKOTA

University of North Dakota - Grand Forks

OHIO

Biocontainment Facility - Columbus
Granville High School - Granville
Miami University, Biology Science Building - Oxford
Rightmire Hall, Ohio State University

OREGON

Benedictine Sisters - Mount Angel
Chemeketa Community College - Salem

PENNSYLVANIA

Carver Science Center - Cheyney University
Slippery Rock High School - Slippery Rock
Stroudsburg High School - Stroudsburg

PUERTO RICO

University of Rio Piedras - Puerto Rico

SOUTH CAROLINA

Area Vo-Educational Center - Williamston
Wilson Vocational Center - Columbia

SOUTH DAKOTA

R R Rentsch Research - Brookings

TENNESSEE

Farragut Vo-Tech Center - Knoxville

TEXAS

Curriculum Material Center - Corpus Christi
Ella Austin Community College - San Antonio
North 40 Terminal - Addison

VIRGINIA

Roanoke College - Salem
Flatlick Maintenance Facility - Chantilly
Thomas Jefferson High School - Alexandria

WEST VIRGINIA

Fairmont College - Fairmont
Greenbrier East Junior High School - Fairlea
Rumsey Vo-Tech Center - Martinsburg

WISCONSIN

North High School - Sheboygan
Kohler Landscape Maintenance Building - Kohler

HOTELS AND RESTAURANTS

Holiday Inn, Garden Plaza Hotel, Marriott, McDonalds,
Burger King, Roy Rogers, Bob's Big Boy, Shoney's,
Hardees, Wendys, Dairy Queen, Pizza Hut, Little
Ceasars, Ground Round, Spats, Carrows, Elephant Bar

Services to the Architect: Because greenhouses are, in effect, infinitely variable in design, style, and size, we encourage the following procedures:

1. Contact the JANCO home office in Columbia, MD regarding the specific requirements for the project.
2. We will provide free construction details and specifications for a similar job.
3. References of similar glass structures in your area by JANCO will be provided.
4. Cost estimates for material and labor will be figured upon request. Estimates provided can vary between locations and site conditions and are subject to revision.

The manufacturer of JANCO greenhouses and Solarrooms reserves the right to change prices, designs, and specifications without notice.

Consult Janco Home Office for full-color catalog. Prices and complete details for all models are listed, along with accessories and specifications.



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