



Manufacturer

Sierra Pacific Windows
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Products Available in View Max

- Vertical (front wall), sloped glazing, with one or more endwalls (includes structure). This product is produced in several styles – shed, gable, circular.
- Skylight framing - sloped glazing with structure in several styles – flat plane, ridge, hip, circular. Skylight provided by others.
- ViewMax Window Wall – multiple panels of glazed wall with head and sill closure. May be structural to carry vertical loads of the building.

Product Overview

Sierra Pacific Windows specializes in the custom design and production of glazed structural systems for residential and commercial applications. Each unit is created for a specific project. An elaborate shop drawing with appropriate architectural details is produced from general concepts submitted by the end-user or specific data from a designer/architect.

Once the CAD shop drawing is approved, Sierra Pacific Windows craftsmen produce the structure exactly as needed. They combine expertise in carpentry and glazing systems to generate the end product. The all-wood interior integrates with a low-maintenance, weather-tight aluminum exterior for long-term performance and beauty. Over 70 standard colors in a powder coated finish are available.

Structural System

Material

Beams

- Douglas Fir glue-laminated, 2400 psi fiber stress
- Premium (STK) grade.
- Alaskan Yellow Cedar glue-laminated, for high-moisture conditions, tight-knot grade.
- AITC (or equal) certified laminator

Beam Sizing

- 3 1/8", 5 1/8" or 6 3/4" widths, various depths to accommodate load required.
- Planing and sanding reduce finish size by approximately 1/8"

Wood Treatment

- Light coat of wood sealer protects wood during shipment and installation. Final stain/clear coats/paint by others.

Connection Materials

- Bolts – zinc plated, hot dipped galvanized if required, sizing varies.
- Screws – zinc plated, sizing varies.
- Plates – galvanized, hot dipped galvanized, painted, or powder coated steel; size and thickness as required.
- Exposure – no interior/exterior exposure unless approved for decorative purposes.

Engineering

- Standard Engineering – An extensive document covers many applications for rafter loading and wind conditions.
- Special Engineering – Specific data is provided for loads or connections outside standard parameters.
- Stamps – Sierra Pacific Windows' engineering firm maintains stamps in many states. Additional stamps can be secured with sufficient time allowed.
- Peripheral engineering – Sierra Pacific Windows declines to be involved in engineering beyond the structure it manufactures.
- Costs – The savings to the client can be considerable with engineering already in place for both standard and special applications.

Glazing System

Material

- Aluminum extrusions: Alloy 6063, ASTM B21. Paint meets / exceeds AAMA 2605 or AAMA 2604 on Textured finishes.
- Flashings: 26 gauge or thicker as needed, zincalume coated, PV2 paint or alternate. Stainless steel, powder coated, for corrosive environments.
- Gasket: EPDM, .1875 x .6875, 11 ribs to contact glass.
- Setting blocks: Neoprene, 85 durometer.
- Fasteners: C1018 carbon steel, 9-16 shank, 1800 lbs. tensile, 1100 lbs. shear, 56 case hardness (37 core), zinc plating (.0006) min.) and polyvinyl ultraseal coating.
- Glass: insulated to 1" overall thickness; various types as required by code and energy needs.

Testing

- Structural ASTM E330. Result: DP 50.
- Air Infiltration – ASTM E283 Result: .01 cfm/sf at 6.24 psf.
- Water Resistance – ASTM E331, Result: No leakage at 7.5 psf.

Features for LEED / other programs

- Regional Sourcing
- Recycled Content
- Daylighting
- SFI Materials
- FSC Materials
- Energy Conservation
- Indoor Environmental Quality