National Green Building Standard ICC 700-2008

The National Green Building Standard ICC 700-2008 is a comprehensive Sustainable Building program for residential projects for the following design and process categories:

- Site Design and Development
- Lot Design, Preparation, and Development
- Resource Efficiency
- Energy Efficiency
- Water Efficiency
- Indoor Environmental Quality
- Operation, Maintenance, and Building Owner Education

Each category contains multiple sections and guidelines for a project team to consider during design, construction, and function of the building for new construction, additions or renovations. Each guideline is considered mandatory or elective. Corresponding points are awarded for each guideline met. These points are compiled to achieve one of four levels of certification: Bronze, Silver, Gold or Emerald. Andersen® patio doors and windows can be leveraged as part of the design team strategy to pursue the National Green Building Standard ICC 700-2008 sections and guidelines that follow.

Resource Efficiency

- 601.7 Site Applied Finishing Materials
  Building materials or assemblies that do not require additional site applied material for finishing are utilized.

  Andersen products can be ordered pre-finished from the factory and therefore do not require site-applied paint or stain.

- 602.12 Flashing
  Flashing details are shown on plans and flashing is installed at all exterior fenestrations, skylights and doors.

  Andersen installation guides provide customers with guidance on water management techniques to help insure proper protection against water infiltration where products integrate with wall systems. An Andersen continuous drip cap is provided with factory built combinations. It can be purchased separately to cover head conditions at single units.

- 605.3 Recycled Construction Materials
  Construction materials, such as wood, cardboard, metals, drywall, plastic, asphalt roofing shingles, or concrete are recycled off-site.

  Andersen packaging materials are recyclable or have minimal non-recyclable components, helping to reduce landfill contributions during construction.
606.2 Wood-based Products
Wood-based products are certified to the requirements of one of the following recognized product programs:

- 606.2(1) Where a minimum of two certified wood-based products are used for minor elements of the building, such as all trim, cabinetry or millwork.

American Tree Farm System, Canadian Standards Association, Forest Stewardship Council (FSC), Program for Endorsement of Forest Certification Systems, Sustainable Forestry Initiative Program (SFI), Other product programs recognized by PEFC

Andersen has a preference for wood sources adhering to FSC and SFI standards. Currently, Andersen is able to manufacture 200 Series, 400 Series and A-Series products using FSC pine wood-based material and can provide Chain-of-Custody documentation.

610.1 Manufacturer’s Environmental Management System Concepts
Product manufacturer’s operations and business practices include environmental management system concepts and the production facility is ISO 14001 certified or equivalent. The aggregate value of building products from ISO 14001 certified or equivalent production facilities is at least 1% of the estimated total building materials cost.

Andersen Environmental Management System conforms to ISO 14001.

Energy Efficiency

701.1 Mandatory Requirements
The building shall comply with either Performance Path (Section 702) or Prescriptive Path (Section 703):

- 701.1.1 Minimum Performance Path Requirements: A building complying with Performance Path (Section 702) shall exceed the baseline minimum performance required by the ICC IECC by 15%, and shall include a minimum of two practices from Additional Practices (Section 704).

- 701.1.2 Minimum Prescriptive Path requirements: A building complying with Prescriptive Path (Section 703) shall obtain a minimum of 30 points, and shall include a minimum of two practices from Additional Practices (Section 704)

- 701.1.3 Alternate bronze level compliance: As an alternative, any building that qualifies for ENERGY STAR® qualified Home or equivalent, achieves the bronze level for Chapter 7.

- 701.4.3.3(1) Windows and doors (Mandatory): Caulking, gasketing, adhesive flashing tape, foam sealant or weatherstripping is installed forming a complete air barrier.

- 701.4.4 Fenestration (Mandatory): NFRC-certified U-Factor and SHGC for windows, exterior doors, skylights, and tubular daylighting devices (TTD’s) are in accordance with ENERGY STAR qualifications, or equivalent, or as noted in the “Fenestration Specifications” Table 701.4.4.1.
Andersen product performance values, ENERGY STAR ratings and installation guidance may work with wall systems to help meet the project energy requirements and performance goals.

- **702.2 Energy cost performance Levels (Performance Path)**
  Energy efficiency features are implemented to achieve energy cost performance that exceeds the ICC IECC at increasing levels: 15%, 30%, 50% or 60%. A documented analysis using software in accordance with ICC IECC is required.

Andersen certified product performance values may work with wall systems to assist a project team in meeting one or more of the performance goals listed in this section.

- **703.3 Fenestration (Prescriptive Path)**
  NFRC-certified U-Factor and SHGC for windows, exterior doors, skylights, and tubular daylighting devices (TTD's) are in accordance with “Enhanced Fenestration Specifications” Table 703.3.1(a) or (b).

Andersen products with applicable U-Factor and SHGC values may assist a project team in meeting this mandatory performance for a given climate zone as listed in the Standard.

- **704.3.1.1 Sun-tempered Design**
  Building orientation, sizing of glazing, and design of overhangs are in accordance with all of the following:
  - (2) Vertical glazing area is between 5% and 7% of gross Conditioned Floor Area on the south face.
  - (3) Vertical glazing area is less than 2% of gross Conditioned Floor Area on the west face and glazing is ENERGY STAR compliant or equivalent.
  - (4) Vertical glazing area is less than 4% of gross Conditioned Floor Area on the east face and glazing is ENERGY STAR compliant or equivalent.
  - (5) Vertical glazing area is less than 8% of gross Conditioned Floor Area on the north face and glazing is ENERGY STAR compliant or equivalent.
  - (6a) Skylight glazing is ENERGY STAR compliant or equivalent.
  - (6c) Sloped skylights on slopes facing within 45 degrees of true South, East or West are less than 1.5% of Finished Ceiling area.
  - (8) The south face windows have a SHGC of 0.04 or higher.

Andersen products used to fulfill this design intent may assist the project team in meeting these requirements.

- **704.3.1.3 (3) Passive Cooling**
  Windows and/or venting skylights are located to facilitate cross ventilation.

Andersen products used to fulfill this design intent may assist the project team in meeting this requirement.
• **704.3.1.4 (1) Passive solar heating design**
  Additional glazing, no greater than 12%, is permitted on the south wall. This additional glazing is in accordance with the requirements of “Sun-tempered Design” (Section 704.3.1.1)

Andersen products used to fulfill this design intent may assist the project team in meeting this requirement.

**Indoor Environmental Quality**

• **901.4 (5) Wood materials**
  Composite wood or agrifiber panel products are to contain no added urea-formaldehyde or meets the California Air Resource Board composite Wood Air Toxic Contaminant Measure Standard.

Andersen products contain no added urea-formaldehyde and have been independently certified by Scientific Certification Systems to achieve Indoor Advantage Gold™ certification. This certification conforms to CA Section 01350 Specifications.

• **901.8 Architectural Coatings**
  A minimum of 85% of the architectural coatings are in accordance with:
  o **901.8.2 Site-applied interior products** are in accordance with the emission levels of CDPH 01350, as certified by a third party program such as the GREENGUARD Environmental Institute’s Children and Schools Certification Program or the Scientific Certifications Systems (SCS) Indoor Advantage Gold Program.

Andersen products have been independently certified by Scientific Certification Systems to achieve Indoor Advantage Gold™ certification. This certification conforms to CA Section 01350 Specifications. While this credit is specific to site-applied finishes, Andersen products comply with this requirement.

• **901.9.2 Adhesives & Sealants**
  Interior low-VOC adhesives and sealants. A minimum of 85% of the site-applied adhesives and sealants are in accordance with:
  o **901.9.2 (1) Site-applied interior products** are in accordance with the emission levels of CDPH 01350, as certified by a third party program such as the GREENGUARD Environmental Institute’s Children and Schools Certification Program or the Scientific Certifications Systems (SCS) Indoor Advantage Gold Program.

Andersen products have been independently certified by Scientific Certification Systems to achieve Indoor Advantage Gold™ certification. This certification conforms to CA Section 01350 Specifications. While this credit is specific to site-applied finishes, Andersen products comply with this requirement.
Operation, Maintenance, and Building Owner Education

- **1001.1 Building owner’s manual**
  Information on the building’s use, maintenance, and green components is provided in a building owner’s manual that includes:
  - (2) (Mandatory) List of green building features
  - (3) (Mandatory) Product manufacturer’s manuals or product data sheets

  Andersen can provide customers with product sustainable attributes and applicable performance information to be included in the Building Owner’s Manual.

- **1003.1 Building Construction Manual**
  A building construction manual is compiled and distributed that includes:
  - (1) (Mandatory) A narrative detailing the importance of constructing a green building, including a list of building attributes included in the building.
  - (3) (Mandatory) Warranty, operation, and maintenance instructions for all equipment, fixtures, appliance, and finishes.

  Andersen provides customers with materials covering limited warranty and operation of products. This information can be included in the building construction manual at time of occupancy.