

Nonresidential Appendix NA7 – 2008

Appendix NA7-2008 – Acceptance Requirements for Nonresidential Buildings

NA7.1 Purpose and Scope

This appendix defines acceptance procedures that must be completed on certain controls and equipment before the installation is deemed to be in compliance with the Standards. These requirements apply to all newly installed equipment for which there are acceptance requirements in new and existing buildings. The procedures apply to nonresidential, high-rise residential and hotel/motel buildings as defined by the California Energy Commission's Energy Efficiency Standards for Nonresidential Buildings.

The purpose of the acceptance tests is to assure:

1. The presence of equipment or building components according to the specifications in the compliance documents.
2. Installation quality and proper functioning of the controls and equipment to meet the intent of the design and the Standards.

NA7.2 Introduction

Acceptance requirements are defined as implementation of targeted inspection checks and functional and performance testing to determine whether specific building components, equipment, systems, and interfaces between systems conform to the criteria set forth in the Standards and to related construction documents (plans or specifications). Acceptance requirements improve code compliance effectiveness and help meet the expected level of performance.

Prior to signing a Certificate of Acceptance the installing contractor, engineer of record or owners agent shall be responsible for reviewing the plans and specifications to assure they conform to the acceptance requirements. Persons eligible to sign the Certificate of Acceptance are those responsible for its preparation; and licensed in the State of California as a civil engineer, mechanical engineer, licensed architect or a licensed contractor performing the applicable work or a person managing work on a structure or type of work described pursuant to Business and Professions Code sections 5537, 5538, and 6737.1.

NA7.3 Responsible Party

The installing responsible party shall certify compliance with the acceptance requirements. They shall be responsible for performing data analysis, calculation of performance indices, and crosschecking results with the requirements of the Standard. They shall be responsible for issuing a Certificate of Acceptance as well as copies of all measurement and monitoring results for individual test procedures to the enforcement agency. The enforcement agency shall not release a final Certificate of Occupancy until a Certificate of Acceptance, and all applicable acceptance requirements for code compliance forms, are approved and submitted by the responsible party. A responsible party who is licensed shall record their State of California contractor's license number or their State of California professional registration license number on each Certificate of Acceptance that they issue.

NA7.4 Building Envelope Acceptance Tests

NA7.4.1 Fenestration

Each fenestration product shall have either an NFRC Label Certificate or the Commission's Fenestration Certificate, FC-1 or FC-2, to identify the thermal performance (e.g. U-factor, SHGC) of each fenestration product being installed. The labels shall be located at the job site for verification by the enforcement agency. In addition, the responsible party shall fill out the Fenestration Acceptance Certificate. The responsible party shall verify the thermal performance of each specified fenestration product being installed and shall ensure that it matches the label certificate, energy compliance documentation and building plans. A copy of the certificate shall be given to the building owner and the enforcement agency for their records.

NA7.4.1.1 Elements Requiring Verification:

The responsible party shall verify the following:

1. The thermal performance for each fenestration product matches the building plans, energy compliance documentation, and the label certificate,
2. The delivery receipt or purchase order matches the delivered fenestration product(s).
3. Verify the NFRC Label Certificate is filled out and includes an NFRC's Certified Product Directory (CPD) number or that the FC-1 or FC-2 matches the purchase order or detailed receipt.
4. The Certificate of Acceptance form is completed and signed.

NA7.4.1.2 Required Documentation

- NFRC Product Label Certificate:
 - The label can list a single or multiple fenestration products, each with its own CPD number. The CPD number for each fenestration product" can be verified for authenticity by accessing www.NFRC.org, Certified Product Database; or
- Commission's Fenestration Label Certificate:
 - The FC-1 and FC-2 are used to document products not certified by NFRC by using the Commission's Default Table values in § 116 or the Alternate Default Fenestration Thermal Performance method as described in Appendix NA6.
 - FC-1 is used for vertical fenestration 10,000 square feet or greater and is only limited to the Energy Commission's Default Values found in Table 116-A and Table 116-B or;
 - FC-2 is used for vertical fenestration less than 10,000 square feet and may use either the Energy Commission's Default Table Values found in Table 116-A and Table 116-B or may use the Alternate Default Fenestration Thermal Performance procedures described in Appendix NA6.
- Purchase Order or Receipt:
 - A copy of the purchase order or a detailed payment receipt shall be used to cross reference with the NFRC Product Label Certificate CPD number or the FC-1 or FC-2 values; and
 - The purchase order or a detailed payment receipt should match the energy compliance documentation and the building plans.
- Fenestration Building Plans:
 - The building plans shall list in a schedule each fenestration product to be installed in the building.
- Certificate of Acceptance Form:
 - The acceptance form must be filled out by the responsible party and signed.
 - The signed Certificate of Acceptance shall be submitted to enforcement agency or field inspector.