

**INSTALLER AND INSPECTOR QUICK-REFERENCE:
2022 NRCA-ENV-02-F
Fenestration Acceptance**

Purpose and Scope of the Test

This test is to verify that an NFRC Label Certificate or the California Energy Commission (CEC) Fenestration Certificate (NRCC-ENV-E) is provided for each site-built fenestration product being installed. These certificates identify the thermal performance of the fenestration product (e.g., U-factor, SHGC, and VT). This test also verifies that the thermal performance of installed fenestration products matches the label certificate, energy compliance documentation, and plan specifications.

Test trigger

This test is required for newly installed site-built fenestration, window film, and dynamic glazing in new construction, additions, and alterations for nonresidential, high-rise residential, and hotel/motel buildings.

Relevant Energy Code References and Required Compliance Documents

Title 24, Part 6 of the California Building Code, Building Energy Efficiency Standards (Energy Code) sections 110.6, 140.3(a)5, 141.0(b)2A; NA7.4.1, NA7.4.2, NA7.4.3; NRCC-ENV-E Table K

Who Can Perform the Test

There are no restrictions.

Required Tools

This test visually verifies products are installed correctly, and according to specifications, and does not require special instrumentation.

Estimated Time to Complete Test

Construction inspection: 0.25-0.5 hours (per fenestration/window film/dynamic glazing product)

Potential Issues and Cautions

For fenestration products that are not rated by NFRC, attach the NRCC-ENV-E to the certificate of acceptance. The NRCC-ENV-E should include the schedule of all installed fenestration products and include thermal performance requirements for nonrated fenestration products.

Inspection Enforcement

Required:

- Verify that the certificate of installation NRCI-ENV-01-E is complete, and that the declaration statement is signed by the responsible person.
- Verify that the certificate of acceptance NRCA-ENV-02-F is complete, and that the declaration statement is signed by the responsible person.

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Acceptance Criteria

For fenestration, verify the following:

- The thermal performance for each fenestration product matches the building plans, energy compliance documentation, and the label certificate.
- The delivery receipt or purchase order matches the delivered fenestration product(s).
- Verify the NFRC Label Certificate is filled out and includes an NFRC's Certified Product Directory (CPD) number and a Certificate Number (when the Component Modeling Approach Label is submitted).
- For non-rated fenestration verify Fenestration Certificate of Compliance (NRCC-ENV-E) is completely filled out.
- The Certificate of Acceptance form is completed and signed.

For window film, verify:

- The window film(s) label on the box matches the Certificate of Installation and building plan's schedule, U-factor, SHGC, and VT for each of the installed window films.
- After window film inspection, complete all parts of the Certificate of Acceptance, including the signature of the Declaration Statements.

For dynamic glazing, verify:

- When controls are installed with the dynamic glazing, verify they meet the exact operation specifications of the dynamic glazing installation, functional and testing instructions.

Follow the **Construction Inspection** instruction on NRCA-ENV-02-F.