

What to Check on a CF1R-PRF-01 (Residential Performance Approach)

The following items highlight the more important features to be verified on the CF1R-PRF-01 form.

General Information Section

- Item 08 Climate Zone – Should be correct for location of project.
- Item 12 Project Scope (new, addition, etc.) – Should match permit scope of work.
- Item 14 Total Conditioned Floor area – Should match plans.
- Item 11 Front Orientation (degrees or “Cardinal” if master plan) – Should match plans.
- Item 13 Number of Dwelling Units – Should match plans, project description.
- Item 17 Number of Stories – Should match plans, project description.
- Item 21 Glazing percentage – Total Glass area divided by floor area (Item 14, above). Should match plans.

Compliance Results Section

- Row 02 Building Incorporates HERS Features – Leverage any listed HERS tests to reduce inspections.
- Column 07 Compliance Margin – How much it exceeds code by. <5%: small discrepancies may affect compliance. 5% to 10%: only large discrepancies will affect compliance. >10%: only very large discrepancies will affect compliance. Note: Energy Star and some reach codes require a compliance margin of 15%.

Opaque Surfaces Section (CF2R-ENV-03*)

- Column 01 Name – These are just arbitrary text descriptors. Make sure all sides of the house are listed.
- Column 03 Construction – References a later section that details each surface type.
- Columns 04 and 05 Azimuth and Orientation – Make sure all sides of the house are listed.
- Column 06 Gross Areas – Check to see if they are reasonable, according to plans.

Attic Section (CF2R-ENV-04*)

- Column 06 – If Radiant Barrier is specified, installation is **verified in the field**.
- Column 07 – If Cool Roof is specified, reflectance and emittance are **verified in the field**.

Windows Section (CF2R-ENV-01*)

- Column 03 Orientation-Azimuth and Column 07. Area – *Should match plans*.
- Columns 08 and 09: U-factor and SHGC – **Important to verify in the field**.

Overhangs and Fins Section

- Column 02 Depth – Length of overhang. Quickly check anything > 1’ against plans.

Opaque Surface Constructions Section (CF2R-ENV-03*)

- Column 01 Construction name – Referenced from Opaque Surfaces Section, Column 03. Construction.
- Column 06 Assembly Layers – Look for R-values. **These should be verified in the field**.

Building Envelope HERS Verification Section (CF3R-ENV forms*)

- Leverage any listed HERS tests to reduce inspections.

Water Heating Sections (CF2R-PLB-02*)

- System Type, Number of Heaters, Energy Factor and Volume should be **verified in the field**.
- Leverage any listed HERS tests to reduce inspections. (CF3R-PLB forms)

HVAC Sections (CF2R-MCH-01*)

- System Type, Efficiencies, Duct Locations and Duct R-Value **should be verified in the field**.
- Leverage any listed HERS tests to reduce inspections. (CF3R-MCH forms)

IAQ (Indoor Air Quality) Fans Section (CF3R-MCH-27*)

- Leverage any listed HERS tests to reduce inspections.

Declaration Statements

- Documents should be signed by authorized individuals (digital signatures are legal).

*The CF2R/CF3R forms shown above are how the installers/HERS raters will document proper installation of features.