

Perspective Leaders Network NFRC Documents

Monday, October 3, 2016

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History of NFRC

- How did NFRC start?
- Entities of NFRC
 - Participants, Laboratories, Inspection Agencies
 - Other: Glazing, Suppliers, LBNL
- Recognitions
 - EnergyStar®, NRCAN
- International Relationships
 - AFRC, BFRC,
- Future Ratings/Methods
 - RCBC, SDR

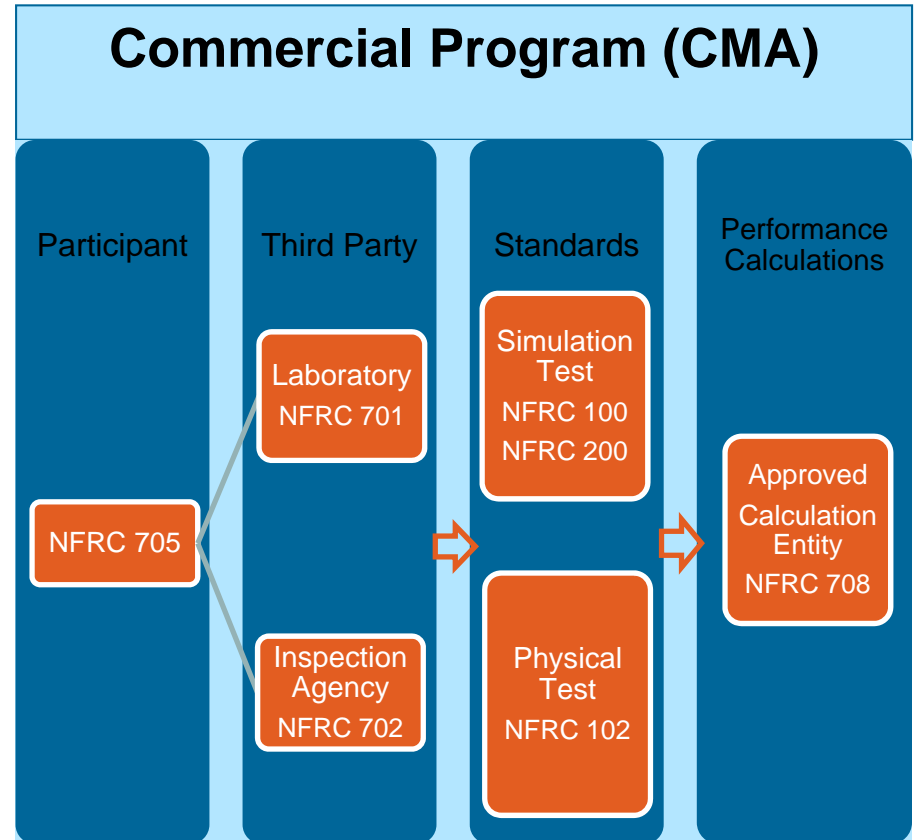
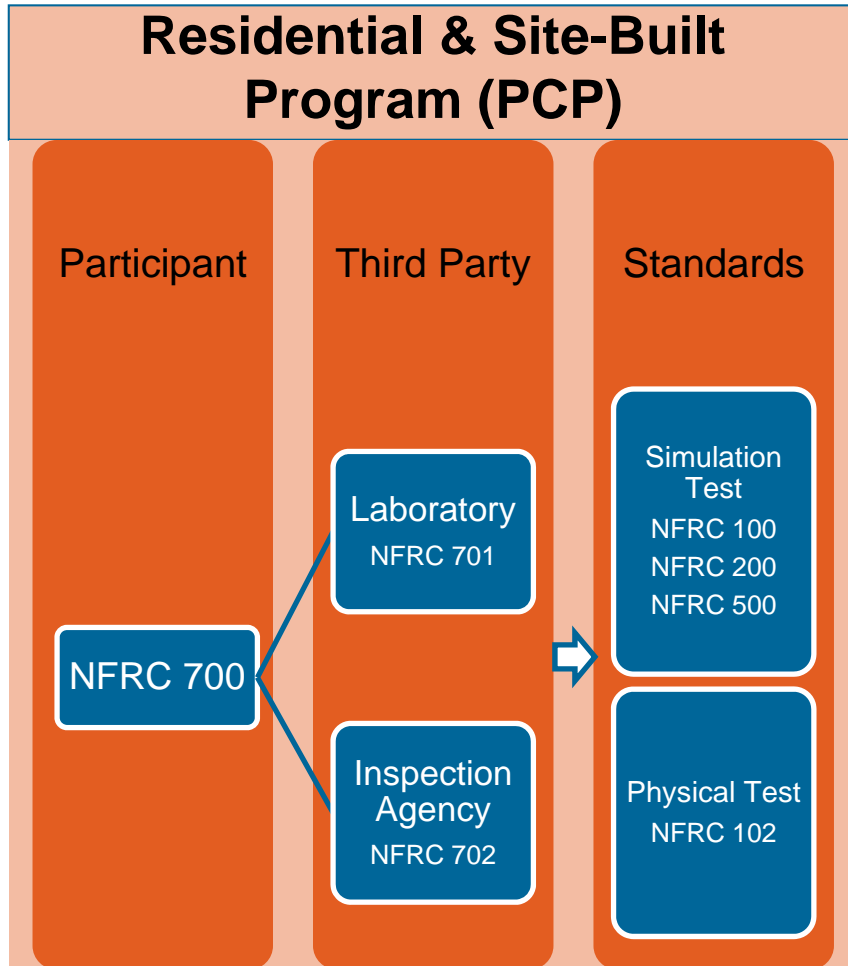


NFRC Documents

- **OPERATIONAL DOCUMENTS**
 - Structure and procedures for operations of committees, subcommittees, and task groups
- **PROGRAM DOCUMENTS**
 - Licensing and accreditation requirements
- **TECHNICAL DOCUMENTS**
 - Test methods and standards
- **NFRC BULLETINS**
 - Distribute new language/procedures



Rating's Programs



PCP Participant

- Documents important to a NFRC 700, PCP Participant

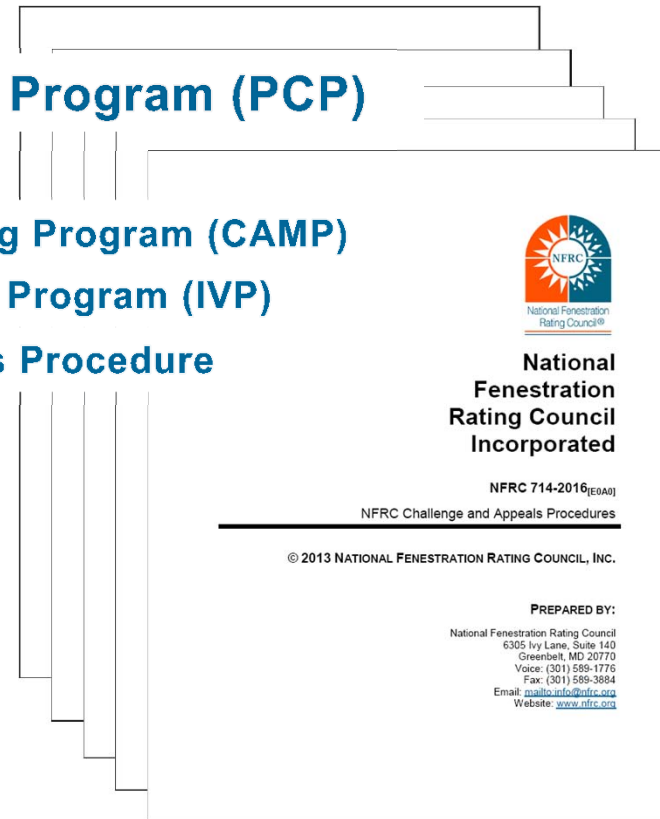
NFRC 700 – Product Certification Program (PCP)

NFRC 704 – Fee Schedule

NFRC 707– Compliance and Monitoring Program (CAMP)

NFRC 713 – Independent Verification Program (IVP)

NFRC 714 – Challenge and Appeals Procedure



NFRC 700, PCP

- Product Certification Program
 - Residential and Site-Built Products
 - Sets the Permanent and Temporary Labeling Requirements.
 - List authorized thermal ratings of products.
 - Requirements of a certification cycle and how to recertify.
- Committee Chain:
 - Ratings Committee
 - NFRC 700 PCP Certification Subcommittee
 - NFRC 700 PCP Review Task Group
- Governing Policy Committee
 - Certification Policy Committee (CPC)
- Ballot on the NFRC 700 to be discussed at NFRC 700 PCP Certification Subcommittee.
 - Section 5, IVP Recertification Exception



CMA Participant

- Documents important to a NFRC 705/708, CMA-PCP Participant

**NFRC 705 – Component Modeling Approach
Product Certification Program (CMA-PCP)**

**NFRC 708 – Calculation Entity Approval
Program (CEAP)**

NFRC 704 – Fee Schedule

NFRC 707– Compliance and Monitoring Program (CAMP)

NFRC 714 – Challenge and Appeals Procedure



NFRC 705, CMA-PCP

- Component Modeling Approach – Product Certification Program
 - Commercial Products
 - Spacer/Frame/Glazing Component Submittal
 - Label Certificates
- Committee Chain:
 - Ratings Committee
 - NFRC 705 CMA-PCP Certification Subcommittee
 - NFRC 705 CMA-PCP Task Group
- Governing Policy Committee
 - Certification Policy Committee (CPC)



NFRC 708, CEAP

- Calculation Entity Approval Program
 - NFRC recognized person/company authorized to provide performance calculations and issue Label Certificates
- Governing Policy Committee
 - Accreditation Policy Committee (APC)

NFRC 701, LAP

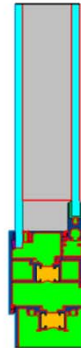
- Laboratory Accreditation Program
 - NFRC accredited simulation and test laboratory perform calculations for submittal to an IA of product authorization for manufacturers.
 - Annual laboratory audit requirements.
- Governing Policy Committee
 - Accreditation Policy Committee (APC)

NFRC 702, CAP

- Certification and Inspection Agency Program
 - NFRC licensed inspection agencies perform reviews of simulation and test laboratory reports for issuance of product authorization to manufacturers.
 - Annual plant and on-site audit requirements.
- Governing Policy Committee
 - Certification Policy Committee (CPC)

Technical Documents

- ANSI/NFRC 100 U-Factor
- NFRC 100A Attachment U-Factor
- NFRC 101 Thermophysical
- NFRC 102 Physical Test
- ANSI/NFRC 200 SHGC
- NFRC 200A Attachment SHGC
- NFRC 201 Solar-Calorimeter SHGC
- NFRC 202 VT
- NFRC 203 VT-TDD
- NFRC 300 Solar Optical Properties
- NFRC 301 Spectrometric
- NFRC 303 Laminate
- NFRC 304 Applied Film
- NFRC 400 Air Leakage
- NFRC 500 CR
- NFRC 501 CR User Guide
- NFRC 600 Glossary
- NFRC 601 Measurement Policy
- NFRC 901 Energy Guidelines



ID #: 102 Name: Clear / Air / Clear
 # Layers: 2 Tilt: 90 ° IG Height: 1000.0 mm
 Environmental Conditions: NFRC 100-2010 IG Width: 1000.0 mm
 Overall thickness: 12.446 mm Mode: # Model Deflection

ID	Name	Mode	Thick	Flp	Tsol	Rsoft	Rsol2	Tvis	Rvis1	Rvis2	Ti	E1	E2	Cond
Glass 1	102 CLEAR_3.DAT	#	3.0		0.834	0.075	0.075	0.899	0.083	0.083	0.000	0.840	0.840	1.000
Gap 1	5 Air		6.3											
Glass 2	102 CLEAR_3.DAT	#	3.0		0.834	0.075	0.075	0.899	0.083	0.083	0.000	0.840	0.840	1.000

Spacer Component

Server ID: S-SI-339 Client ID: Status: Approved

Spacer Series: PPG Intercept_dual sealants Description: Notes:

Spacer Codes: A4-S

Manufacturer: Spacers, Inc.

Inspection Agency: Spacers, Inc.

Spacer Selection Type: Individual Models

Seal Configuration: No Sealants, Single Seal, Dual Seal

Number of Models: 3 Height: 7.620 mm

No	Model	Width mm
1	Size 1	12.700
2	Size 2	15.875
3	Size 3	19.050

Sealant Compatibility: No Restrictions for Primary Sealant Selection, No Restrictors for Secondary Sealant Selection

Frame Assembly Information: Product Example 1, Manufacturer, Description, Notes, Frame Assembly Code, Product Type: FFD Fixed 4-Sided, Framing Product Line: 198-97, Width: 47.24 in., Height: 59.06 in., Status: ESR

Frame Sector Information: Frame Member

Visibility: All Registered Users

Directory Search

Back New Search Codes NFRC Product Types Exit Directory Search

Detailed Product Ratings

GENERAL INFORMATION

Manufacturer: 123XYZ Company

Series Name: 6-25 XYZ Sim Excel New Production

Operator Type: OSSV

Air Leakage:

RATINGS INFORMATION (found 28 Products)

CPD #	Manufacturer Product Code	U-factor	SHGC	VT	Condensation Resistance	Product Description
XYZ-T-416-0001-00001	S_CL-CL-N 14L WIT	0.20	0.10	0.10		Wood/Wood, FIB 1: AIR (100), CL, No Grid
XYZ-T-416-0001-00002	S_CL-CL-N 14L WIT	0.20	0.10	0.10		Wood/Wood, FIB 1: AIR (100), CL, No Grid
XYZ-T-416-0002-00001	S_CL-CL-N 12L WIT	0.25	0.19	0.19		Wood/Wood, FIB 1: AIR (100), CL, No Grid
XYZ-T-416-0002-00002	S_CL-CL-N 12L WIT	0.25	0.17	0.17		Wood/Wood, FIB 1: AIR (100), CL, Grid

World's Best Window Co. Series "2000" Casement Vinyl Clad Wood Frame Double Glazing/Argon Fill-Low E XYZ-X-1-00001-00001

ENERGY PERFORMANCE RATINGS

U-Factor (U.S. / I-P) Solar Heat Gain Coefficient

0.35 **0.32**

ADDITIONAL PERFORMANCE RATINGS

Visible Transmittance

0.51 **-**

Manufacturer attestation that these ratings conform to applicable NFRC procedures for determining window product performance. NFRC ratings are determined for a set of standardized conditions and a specific product size. NFRC does not warrant any product and does not warrant the suitability of any product for any specific use. Consult manufacturer's literature for other product performance information. www.nfrc.org

NATIONAL PENETRATION RATING COUNCIL LABEL CERTIFICATE

PROJECT INFORMATION

Label Certificate ID: PJ-ANG-0725

NFRC CERTIFIED PRODUCT RATING INFORMATION: This is the required NFRC Approval Calculation Entry (ACE) based on information provided by the Specifying Authority and calculated in accordance with NFRC procedures.

PROJECT LOCATION: Address: 215 10th Ave SE, City: Atlanta, State: GA, Zip Code: 30304, Contact person: Chuck Thompson, Phone: 404.725.1338, Fax number: 404.725.1338, Project name: Parkway, Contact: C.L.

IDENTIFICATION OF SPECIFYING AUTHORITY: Company name: All New Glass, Address: 215 10th Ave SE, City: Atlanta, State: GA, Zip Code: 30304, Contact person: Chuck Thompson, Phone: 404.725.1338, Fax number: 404.725.1338, Email: chuck@allnewglass.com

IDENTIFICATION NAME OF APPROVED CALCULATION ENTRY (ACE) ORGANIZATION: Company name: Clark Consulting and Testing, Inc., Address: 1000 International Dr., City: Atlanta, State: GA, Zip Code: 30328, Contact person: Jagantharaman, Phone: 404.252.7272, Fax number: 770.603.8889, Email: jagantharaman@ccit.com

IDENTIFICATION NAME OF INSPECTION AGENCY (IA): Company name: Test Reports, Address: City: State: Zip Code: Contact person: Phone: Fax number: Email:

Number of individual products listed on this label certificate: 1

Questions?

Thank You!

