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## **APPENDIX C. SIZE, LAYOUT AND DESIGN REQUIREMENTS FOR NFRC LABEL CERTIFICATE**

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The NFRC CMA Label Certificate shall be generated by the NFRC-approved CMA software tool and shall be issued by an NFRC Approved Calculation Entity (ACE).

### **C.1 Size**

- A. Label Certificate width shall be 8-1/2 inches within 1/2 inch.
- B. Label Certificate height shall be 11 inches within 1/2 inch.

### **C.2 Format**

Label Certificate shall conform to the content and layout in Figure C-1.

### **C.3 Required Information**

- A. Label Certificate shall contain in the upper left hand corner the NFRC “Certified Logo,” and shall reflect the label certificate’s identification number and issuance date.
- B. Label Certificates shall contain all the NFRC Label information required in Appendix C and be subject to the limitations in Appendix C.
- C. Label Certificates shall contain the following project information:
  - i. Street address
  - ii. City, state, zip code
  - iii. Contact person name, phone, and e-mail address
  - iii. Project name (optional)
  - iv. Designer (optional)
- D. Label Certificates shall contain the following Specifying Authority information:
  - i. Company name
  - ii. NFRC ID (if applicable)
  - iii. Street address
  - iv. City, state, zip code
  - v. Contact person name, title, phone, facsimile, and e-mail address
- E. Label Certificates shall contain the following Framing Supplier information:
  - i. Company name
  - ii. NFRC ID
  - iii. Street address
  - iv. City, state, zip code
  - v. Contact person name, title, phone, facsimile, and e-mail address

- F. Label Certificates shall contain the following Glazing Supplier information:
  - i. Company name
  - ii. NFRC ID
  - iii. Street address
  - iv. City, state, zip code
  - v. Contact person name, title, phone, facsimile, and e-mail address
- G. Label Certificates shall identify the Approved Calculation Entity (ACE):
  - i. Name
  - ii. NFRC ID
- H. For Label Certificates subject to IA review in accordance with section 5.1, Label Certificates shall identify the Certification and Inspection Agency (IA):
  - i. Name
  - ii. NFRC ID
- I. Label Certificates shall identify the number of products listed in each label certificate.
- J. Label Certificates shall contain the following information for each product listed:
  - i. Certified Products Directory number (CPD ID)
  - ii. System name of each product listed
  - iii. Framing, glazing, and spacer assembly reference number
  - iv. U-factor, Solar Heat Gain Coefficient (SHGC), and Visible Transmittance (VT) ratings for each individual product listed
  - v. Descriptive listings of the glazing assemblies, spacer assemblies, and framing assemblies used in the products listed

#### **C.4 Additional/Optional Information**

As an option, the Label Certificate may also be generated and issued to include the following:

- A. A product listing reflecting performance at actual product size for informational purposes and use in energy simulation programs. The product listing shall include the following information:
  - i. CPD ID
  - ii. Quantity of individual products listed at the specified product size
  - iii. Total area square footage of the each system type listed
  - iii. System name of each product listed
  - iii. Actual Width (in inches) of each product listed
  - iv. Actual Length (in inches) of each product listed
  - v. U-factor, SHGC, and VT performance at actual product size for each product listed

Figure C-1 –NFRC Label Certificate (2008)-SI Units



# NFRC COMPONENT MODELING APPROACH (CMA) PROGRAM LABEL CERTIFICATE

**LABEL CERTIFICATE ID:** XYZ-001

**Issuance Date:** mm/dd/yyyy

*Note: Completed by an NFRC Approved Calculation Entity (ACE), based on information provided by the Specifying Authority and calculated in accordance with NFRC procedures*

**PROJECT LOCATION:**

Address: \_\_\_\_\_

City: \_\_\_\_\_, State, \_\_\_\_\_, Zip code: \_\_\_\_\_

Contact person: \_\_\_\_\_, Title: \_\_\_\_\_

Phone: \_\_\_\_\_, Facsimile: \_\_\_\_\_, Email: \_\_\_\_\_

Project name (optional): \_\_\_\_\_, Designer (optional): \_\_\_\_\_

**IDENTIFICATION OF SPECIFYING AUTHORITY:**

Company name: \_\_\_\_\_, ID: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_, State, \_\_\_\_\_, Zip code: \_\_\_\_\_

Contact person: \_\_\_\_\_, Title: \_\_\_\_\_

Phone: \_\_\_\_\_, Facsimile: \_\_\_\_\_, Email: \_\_\_\_\_

**FRAMING SUPPLIER:**

Company name: \_\_\_\_\_, ID: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_, State, \_\_\_\_\_, Zip code: \_\_\_\_\_

Contact person: \_\_\_\_\_, Title: \_\_\_\_\_

Phone: \_\_\_\_\_, Facsimile: \_\_\_\_\_, Email: \_\_\_\_\_

**GLAZING SUPPLIER:**

Company name: \_\_\_\_\_, ID: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_, State, \_\_\_\_\_, Zip code: \_\_\_\_\_

Contact person: \_\_\_\_\_, Title: \_\_\_\_\_

Phone: \_\_\_\_\_, Facsimile: \_\_\_\_\_, Email: \_\_\_\_\_

**IDENTIFICATION NAME OF APPROVED CALCULATION ENTITY (ACE):**

\_\_\_\_\_, ID: \_\_\_\_\_

**IDENTIFICATION NAME OF INSPECTION AGENCY (IA):**

\_\_\_\_\_, ID: \_\_\_\_\_

Number of individual products listed on this label certificate: **5**

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# NFRC LABEL CERTIFICATE - PRODUCT LISTING:

LABEL CERTIFICATE ID: XYZ-001

## NFRC CERTIFIED PRODUCT RATING INFORMATION:\*

### PRODUCT LISTING:

CPD ID	Name	Framing Ref	Glazing Ref	Spacer Ref	CERTIFIED Performance Rating at NFRC Standard Size		
					U** W/m <sup>2</sup> •°C	SHGC**	VT**
P-PL-010	PL-2200 / PL-2210	FA-PL2210	GA-TT-001	SA-AM-001	3.01	0.58	0.66
P-PL-005	PL-3400 / PL-3401	FA-PL3401	GA-TT-001	SA-AM-002	3.18	0.57	0.65
P-PL-012	PL-5700 / PL-5720	FA-PL5720	GA-TO-002	SA-AM-001	2.95	0.21	0.30
P-PL-002	PL-1100 / PL-1152	FA-PL1152	GA-TT-001	SA-AM-001	2.38	0.51	0.62
P-PL-022	PL-9900 / PL-9915	FA-PL9915	GA-TO-003	SA-AM-002	2.56	0.15	0.19

### FRAME, GLAZING and SPACER ASSEMBLIES:

#### FRAMING LISTING:

FRAMING REF	SUPPLIER ID	DESCRIPTION
FA-PL2210		Single Casement Thermally Broken Aluminum
FA-PL3401		Projecting (Awning) Thermally Broken Aluminum
FA-PL5720		Vertical Slider PVC reinforced with Steel
FA-PL1152		Vertical Slider Thermally Broken Aluminum
FA-PL9915		Fixed Thermally Broken Aluminum

#### GLAZING LISTING:

GLAZING REF	SUPPLIER ID	DESCRIPTION
GA-TT-001		1" Double Glazed, 1/4" HC Low-e, 1/4" Clear, Argon (90%), 1/2" gap
GA-TT-002		1" Triple Glazed, 1/8" Clear, Coated film, 1/8" SC, Argon (90%), 3/8" gap
GA-TT-003		1" Double Glazed, 1/4" Bronze, 1/4" SC Low-e, Argon (90%), 1/2" gap

#### SPACER LISTING:

SPACER REF	SUPPLIER ID	DESCRIPTION
SA-AM-001		250P Mill Finish Aluminum Low profile (1/2")
SA-AM-002		15A Polymer Spacer (3/8")

Note: For NFRC-approved frame, glazing and spacer component performance information see the NFRC Approved Component Library Database: [www.nfrc.org/CMAST](http://www.nfrc.org/CMAST)

\*Certification information provided is for those fenestration systems listed and does not necessarily encompass all systems for the project.

\*\* Each individual product certified performance rating is based on NFRC standard size in accordance with NFRC procedures.



**OPTIONAL PRODUCT INFORMATION AT ACTUAL PRODUCT SIZE  
FOR NFRC LABEL CERTIFICATE ID: XYZ-001:**

**PRODUCT LISTING:**

CPD ID	Qty	Total Area m <sup>2</sup>	Name	EnergyPlus Report File	NON-CERTIFIED Performance at Actual Size**				
					Width m	Height m	U W/m <sup>2</sup> .°C	SHGC -	VT -
P-PL-010	2	4.46	PL-2200 / PL-2210	<a href="http://www.nfrc.org/CMAST/pl2200-2210.txt">www.nfrc.org/CMAST/pl2200-2210.txt</a>	1.22	1.83	2.73	0.59	0.66
P-PL-010	5	8.26	PL-2200 / PL-2210	<a href="http://www.nfrc.org/CMAST/pl2200-2210.txt">www.nfrc.org/CMAST/pl2200-2210.txt</a>	1.02	1.63	2.84	0.56	0.64
P-PL-005	6	17.90	PL-3400 / PL-3401	<a href="http://www.nfrc.org/CMAST/pl3400-3401.txt">www.nfrc.org/CMAST/pl3400-3401.txt</a>	1.73	1.73	2.78	0.58	0.65
P-PL-005	3	5.02	PL-3400 / PL-3401	<a href="http://www.nfrc.org/CMAST/pl3400-3401.txt">www.nfrc.org/CMAST/pl3400-3401.txt</a>	1.83	0.91	2.90	0.55	0.62
P-PL-005	5	15.54	PL-3400 / PL-3401	<a href="http://www.nfrc.org/CMAST/pl3400-3401.txt">www.nfrc.org/CMAST/pl3400-3401.txt</a>	2.18	1.42	2.73	0.59	0.67
P-PL-012	10	35.51	PL-5700 / PL-5720	<a href="http://www.nfrc.org/CMAST/pl5700-5720.txt">www.nfrc.org/CMAST/pl5700-5720.txt</a>	1.63	2.18	1.87	0.22	0.30
P-PL-002	3	5.57	PL-1100 / PL-1152	<a href="http://www.nfrc.org/CMAST/pl1100-1152.txt">www.nfrc.org/CMAST/pl1100-1152.txt</a>	1.22	1.52	2.95	0.53	0.60
P-PL-022†	21	48.77	PL-9900 / PL-9915	N/A	N/A	N/A	N/A	N/A	N/A

\*\* Individual product performance at actual size is listed in the above table and has been determined in accordance with NFRC technical procedures; however, these are not certified ratings. Certified ratings are determined at NFRC standard sizes for comparative purposes and are listed on the page(s) preceding this section. The actual size performance calculations above are for information purposes and use in area-weighted average calculations and energy simulation programs.

† This product and/or its glazing system is a test-only specimen, and fenestration performance is only available at the NFRC standard test size and not actual size. Therefore, EnergyPlus report files are not available for test-only specimens.

Figure C-2 –NFRC Label Certificate (2008)-IP Units



# NFRC COMPONENT MODELING APPROACH (CMA) PROGRAM LABEL CERTIFICATE

**LABEL CERTIFICATE ID: XYZ-001**

Issuance Date: mm/dd/yyyy

*Note: Completed by an NFRC Approved Calculation Entity (ACE), based on information provided by the Specifying Authority and calculated in accordance with NFRC procedures*

**PROJECT LOCATION:**

Address: \_\_\_\_\_

City: \_\_\_\_\_, State, \_\_\_\_\_, Zip code: \_\_\_\_\_

Contact person: \_\_\_\_\_, Title: \_\_\_\_\_

Phone: \_\_\_\_\_, Facsimile: \_\_\_\_\_, Email: \_\_\_\_\_

Project name (optional): \_\_\_\_\_, Designer (optional): \_\_\_\_\_

**IDENTIFICATION OF SPECIFYING AUTHORITY:**

Company name: \_\_\_\_\_, ID: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_, State, \_\_\_\_\_, Zip code: \_\_\_\_\_

Contact person: \_\_\_\_\_, Title: \_\_\_\_\_

Phone: \_\_\_\_\_, Facsimile: \_\_\_\_\_, Email: \_\_\_\_\_

**FRAMING SUPPLIER:**

Company name: \_\_\_\_\_, ID: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_, State, \_\_\_\_\_, Zip code: \_\_\_\_\_

Contact person: \_\_\_\_\_, Title: \_\_\_\_\_

Phone: \_\_\_\_\_, Facsimile: \_\_\_\_\_, Email: \_\_\_\_\_

**GLAZING SUPPLIER:**

Company name: \_\_\_\_\_, ID: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_, State, \_\_\_\_\_, Zip code: \_\_\_\_\_

Contact person: \_\_\_\_\_, Title: \_\_\_\_\_

Phone: \_\_\_\_\_, Facsimile: \_\_\_\_\_, Email: \_\_\_\_\_

**IDENTIFICATION NAME OF APPROVED CALCULATION ENTITY (ACE):**

\_\_\_\_\_, ID: \_\_\_\_\_

**IDENTIFICATION NAME OF INSPECTION AGENCY (IA):**

\_\_\_\_\_, ID: \_\_\_\_\_

Number of individual products listed on this label certificate: **5**

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# NFRC LABEL CERTIFICATE - PRODUCT LISTING:

LABEL CERTIFICATE ID: XYZ-001

## NFRC CERTIFIED PRODUCT RATING INFORMATION:\*

### PRODUCT LISTING:

CPD ID	Name	Framing Ref	Glazing Ref	Spacer Ref	CERTIFIED Performance Rating at NFRC Standard Size		
					U** Btu/ hr·ft <sup>2</sup> ·°F	SHGC**	VT**
P-PL-010	PL-2200 / PL-2210	FA-PL2210	GA-TT-001	SA-AM-001	0.53	0.58	0.66
P-PL-005	PL-3400 / PL-3401	FA-PL3401	GA-TT-001	SA-AM-002	0.56	0.57	0.65
P-PL-012	PL-5700 / PL-5720	FA-PL5720	GA-TO-002	SA-AM-001	0.52	0.21	0.30
P-PL-002	PL-1100 / PL-1152	FA-PL1152	GA-TT-001	SA-AM-001	0.42	0.51	0.62
P-PL-022	PL-9900 / PL-9915	FA-PL9915	GA-TO-003	SA-AM-002	0.45	0.15	0.19

### FRAME, GLAZING and SPACER ASSEMBLIES:

#### FRAMING LISTING:

FRAMING REF	SUPPLIER ID	DESCRIPTION
FA-PL2210		Single Casement Thermally Broken Aluminum
FA-PL3401		Projecting (Awning) Thermally Broken Aluminum
FA-PL5720		Vertical Slider PVC reinforced with Steel
FA-PL1152		Vertical Slider Thermally Broken Aluminum
FA-PL9915		Fixed Thermally Broken Aluminum

#### GLAZING LISTING:

GLAZING REF	SUPPLIER ID	DESCRIPTION
GA-TT-001		1" Double Glazed, 1/4" HC Low-e, 1/4" Clear, Argon (90%), 1/2" gap
GA-TT-002		1" Triple Glazed, 1/8" Clear, Coated film, 1/8" SC, Argon (90%), 3/8" gap
GA-TT-003		1" Double Glazed, 1/4" Bronze, 1/4" SC Low-e, Argon (90%), 1/2" gap

#### SPACER LISTING:

SPACER REF	SUPPLIER ID	DESCRIPTION
SA-AM-001		250P Mill Finish Aluminum Low profile (1/2")
SA-AM-002		15A Polymer Spacer (3/8")

Note: For NFRC-approved frame, glazing and spacer component performance information see the NFRC Approved Component Library Database: [www.nfrc.org/CMAST](http://www.nfrc.org/CMAST)

\*Certification information provided is for those fenestration systems listed and does not necessarily encompass all systems for the project.

\*\* Each individual product certified performance rating is based on NFRC standard size in accordance with NFRC procedures.



**OPTIONAL PRODUCT INFORMATION AT ACTUAL PRODUCT SIZE  
FOR NFRC LABEL CERTIFICATE ID: XYZ-001:**

**PRODUCT LISTING:**

CPD ID	Qty	Total Area ft <sup>2</sup>	Name	EnergyPlus Report File	NON-CERTIFIED Performance at Actual Size**				
					Width in.	Height in.	U-factor Btu/hr·ft <sup>2</sup> ·°F	SHGC -	VT -
P-PL-010	2	48.00	PL-2200 / PL-2210	<a href="http://www.nfrc.org/CMAST/pl2200-2210.txt">www.nfrc.org/CMAST/pl2200-2210.txt</a>	48.00	72.00	0.48	0.59	0.66
P-PL-010	5	88.89	PL-2200 / PL-2210	<a href="http://www.nfrc.org/CMAST/pl2200-2210.txt">www.nfrc.org/CMAST/pl2200-2210.txt</a>	40.00	64.00	0.50	0.56	0.64
P-PL-005	6	192.67	PL-3400 / PL-3401	<a href="http://www.nfrc.org/CMAST/pl3400-3401.txt">www.nfrc.org/CMAST/pl3400-3401.txt</a>	68.00	68.00	0.49	0.58	0.65
P-PL-005	3	54.00	PL-3400 / PL-3401	<a href="http://www.nfrc.org/CMAST/pl3400-3401.txt">www.nfrc.org/CMAST/pl3400-3401.txt</a>	72.00	36.00	0.51	0.55	0.62
P-PL-005	5	167.22	PL-3400 / PL-3401	<a href="http://www.nfrc.org/CMAST/pl3400-3401.txt">www.nfrc.org/CMAST/pl3400-3401.txt</a>	86.00	56.00	0.48	0.59	0.67
P-PL-012	10	382.22	PL-5700 / PL-5720	<a href="http://www.nfrc.org/CMAST/pl5700-5720.txt">www.nfrc.org/CMAST/pl5700-5720.txt</a>	64.00	86.00	0.33	0.22	0.30
P-PL-002	3	60.00	PL-1100 / PL-1152	<a href="http://www.nfrc.org/CMAST/pl1100-1152.txt">www.nfrc.org/CMAST/pl1100-1152.txt</a>	48.00	60.00	0.52	0.53	0.60
P-PL-022†	21	525.00	PL-9900 / PL-9915	N/A	N/A	N/A	N/A	N/A	N/A

\*\* Individual product performance at actual size is listed in the above table and has been determined in accordance with NFRC technical procedures; however, these are not certified ratings. Certified ratings are determined at NFRC standard sizes for comparative purposes and are listed on the page(s) preceding this section. The actual size performance calculations above are for information purposes and use in area-weighted average calculations and energy simulation programs.

† This product and/or its glazing system is a test-only specimen, and fenestration performance is only available at the NFRC standard test size and not actual size. Therefore, EnergyPlus report files are not available for test-only specimens.