



CMAST Tutorial #4:

Creating Bid Reports in CMAST

** References to "ACE" in this document refer to ACE's who work for an ACE organization.**

The specifications:

- **Fixed Windows: 800 Fixed by Manko Window with the following configuration:**

1. Type 'A' (100" wide x 72" tall), quantity 100:

Frame Assembly:

- Sill: *800 Fixed Sill*
- Head: *800 Fixed Head*
- Jambs: *800 Fixed Jamb*

Insulating Glass Assembly (IGU) comprised of the following (Glazing supplier: PPG.):

- Center of Glazing Assembly (double glazed):
 - Outboard lite: *SB60 Clear_6.PPG* (ID 5284)
 - Gap width: $\frac{1}{2}$ " (0.500")
 - Fill gas: Argon (90%) and Air
 - Inboard lite: *CLEAR_6.DAT* (ID 103)
- Spacer Edge-Seal Assembly:
 - Spacer: *Intercept TPU*
 - Sealant(s): *Butyl Rubber*, primary ; *Silicone*, secondary
 - Overall height: 17/32"



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Step 1 – Creating a Bid Report

To generate a bid report, the user must login to the CMAST web (<http://cmast.nfrc.org>). Only the users that have been given permission, through CMAST application visibilities, for the specific project will be able to find and generate the bid report. Building on the previous tutorials, the user selects "Find/Projects" on the CMAST web to find the project that has been uploaded.

The screenshot shows the CMAST web application interface. At the top, there is a header with the NFRC logo and the text "Welcome to the NFRC Component Modeling Approach (CMA) Program for Non-Residential Energy Certification and Rating". Below the header is a navigation bar with links for Home, Switch Units, Find, New, Help, and Logout. A dropdown menu is open under the "Find" link, showing options: Label Certificate, Project (highlighted with a mouse cursor), Product, Glazing Component, Frame Component, Spacer Component, Person, Notification, and Company. Below the navigation bar, there is a section for "All Users" with a link for "(full instructions)". To the right, there is a "Support & Information" section with text about training resources and support inquiries. Below that is a "CMAST Software Development Notes" section. At the bottom, there is a table with the following data:

Notification	Date	Sent By	Status	Outcome
Issued Label Certificate PJ-CTA-5558	03-11-2016 10:28		Complete	Certified



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Step 2 - Set the search parameters and select the Search button.

The Project Summary screen is displayed with a list of all available projects. Select the desired project by clicking on the project number hyperlink.

Welcome to the NFRC Component Modeling Approach (CMA) Program for Non-Residential Energy Certification and Rating

Home Search Tools Find New Help Logout Jen Padgett (jpadgett-ykk)

Find Project Results

Project	Project Name	Specified By	Address
PJ-MKW-5693	11/04/16 Testing	Manko Window Systems	6305 Ivy Lane, Greenbelt, MD 20770
PJ-_-5572	PROJECT TEST		
PJ-_-1636	YOW 225 TU Fixed		270 Riverside PKWY Suite A, Austell, Georgia 30168

[NEW SEARCH](#) [DISPLAY](#)



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Step 3 – The Project Details page is displayed with summary of products in the project, and a link to generate a bid report.

Project #PJ-BAL-5171

Project: PJ-BAL-5171 Jan Padgett 240-621-9515 jpadgett@nfr.org Specified by: Boyd Aluminum Frame by: Boyd Aluminum Glazing by: PPG Industries		Inspection Agency: CMAST Testing - IA Status: Design Approved Calculation Jan Padgett Entity:		Floors* <input type="radio"/> Fewer than 3 Floors <input type="radio"/> More than 3 Floors		Area* <input type="radio"/> <= 10,000 ft² <input type="radio"/> > 10,000 ft²	
<input type="checkbox"/> Incl. Suppl. Info		<input type="button" value="Generate Bid Report"/>		<input type="checkbox"/> *Required Fields			

PRODUCTS LISTING:

CPD ID	Name	Product Type	Framing Ref	Glazing Ref	Spacer Ref	At NFRC Size					
						U (open) [BTU / hr-ft²-F]	SHGC (open)	VT (open)	U (closed) [BTU / hr-ft²-F]	SHGC (closed)	VT (closed)
P-BAL-43708	In Class Example	Fixed	FA-BAL-54863	GA-PPG-11557	SA-NFC-4547	0.394	0.342	0.596	0.000	0.000	0.000

FRAME, GLAZING and SPACER ASSEMBLIES

GLAZING LISTING:

Glazing Ref	Name	Description
GA-PPG-11557	In Class Example	

SPACER LISTING:

Spacer Ref	Name	Description
SA-NFC-4547	In Class Example	



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Step 4 – Additional required information shall be selected in order to generate the bid report:

- i. Select number of floors:
 - a) Fewer than 3 floors; or
 - b) b) More than 3 floors
- ii. Select area:
 - a) Less than or equal to 10,000 ft²; or
 - b) Greater than 10,000 ft²
- iii. Select Supplemental Information (if needed)

Project #PJ-BAL-5171

Project: PJ-BAL-5171 Jen Padgett 240-821-9515 jpadgett@nfrfc.org Specified by: Boyd Aluminum Frame by: Boyd Aluminum Glazing by: PPG Industries	Inspection Agency: CMASSTesting - IA Status: Design Approved Calculation Jen Padgett Entity:	Floors* <input checked="" type="radio"/> Fewer than 3 Floors <input type="radio"/> More than 3 Floors <input type="checkbox"/> Incl. Suppl. Info	Area* <input checked="" type="radio"/> <= 10,000 ft ² > <input type="radio"/> > 10,000 ft ² <input type="button" value="Generate Bid Report"/> *Required Fields
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PRODUCTS LISTING:

CPD ID	Name	Product Type	Framing Ref	Glazing Ref	Spacer Ref	At NFRC Size					
						U (open) [BTU / hr-ft ² -F]	SHGC (open)	VT (open)	U (closed) [BTU / hr-ft ² -F]	SHGC (closed)	VT (closed)
P-BAL-43708	In Class Example	Fixed	FA-BAL-54863	GA-PPG-11557	SA-NFC-4547	0.394	0.342	0.596	0.000	0.000	0.000

FRAME, GLAZING and SPACER ASSEMBLIES

GLAZING LISTING:

Glazing Ref	Name	Description
GA-PPG-11557	In Class Example	

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Spacer Ref	Name	Description
SA-NFC-4547	In Class Example	



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Step 5 - B. Select the "Generate Bid Report" button.

A pop-up message will allow the user to open, save, save as the bid report as a PDF file. Or the user can cancel the generation.

The screenshot displays two browser windows side-by-side, both showing a bid report for project #PJ-MKW-5693. The left window is titled "Performance at NFRC Standard Size" and the right window is titled "Penetration Performance at Specified Size". Both reports include a header, a note, project information, a product listing table, and a glazing listing table.

Project Information:
 Project Information Number: DR-MKW-5693
 Bid Report Generated By: YKK AP America, Inc.
 Project Name: 1104/16 Testing
 Project Address: 8305 Ivy Lane
 Project City: Greenbelt, State: MD, ZIP code: 20770
 Specifying Company Name: Manko Window Systems
 Specifying Authority Contact Person: Kevin Dix, Specifying Company Phone: 765-729-9643

Product Listing:

ID	Name	Framing Ref.	Glazing Ref.	Spacer Ref.	Performance at NFRC Standard Size		
					U	SHGC	VT
1104/16 Testing					1.91	0.28	0.50

Glazing Listing:

Glazing Ref.	Supplier ID	Description
	PPFG Industries	

Product Listing (Right Window):

ID	Qty	Total Area	Name	Energy + Report	Penetration Performance at Specified Size*				
					Width	Height	U	SHGC	VT
	100.00	228.34	1104/16 Testing	DR-MKW-47864	1257.30	1816.10	1.86	0.28	0.51

* Individual product performance at specified size is listed in the above table and has been determined in accordance with NFRC technical procedures; however, the specified size performance calculations above are for information purposes and use in area-weighted average calculations and energy simulation programs.