



# *DYNAMIC CHANGES*

2 0 0 5   N F R C   A N N U A L   R E P O R T



## N F R C M E M B E R S

<p>ABC WINDOW CONTRACTORS, INC.            ABRITEK WINDOWS &amp; DOORS, INC.            ACCENT WINDOWS, INC.            ACCURATE DORWIN LTD.            ADVANCED GLAZING SYSTEMS, LLC            AEGIS WINDOW &amp; DOOR LLC            AFG INDUSTRIES, INC.            AIMCAL - WINDOW FILM COMMITTEE            AIRGAS, INC.            AIR-INS, INC.            ALL METAL, INC.            ALL NEW GLASS, INC.            ALLIANCE TO SAVE ENERGY            ALSIDE, INC.            ALUMINUM EXTRUDERS COUNCIL (AEC)            ALUMINUM PRODUCTS OF CAPE COD, INC.            AMERICAN ARCHITECTURAL MANUFACTURERS            ASSOCIATION (AAMA)            AMERIMAX BUILDING PRODUCTS, INC.            AMSCO WINDOWS            ANDERSEN CORPORATION            ARCHITECTURAL GLASS AND ALUMINUM CO.            ARCHITECTURAL TESTING, INC. - PA            ARKEMA, INC.            ASSOCIATED LABORATORIES, INC.            ATRIA BUILDING PRODUCTS, INC.            ATRIUM COMPANIES INC.            AZON USA, INC.            AZS CONSULTING, INC.            B&amp;B ENGINEERING CORP.            BEKAERT SPECIALTY FILMS, LLC            BENDHEIM WALL SYSTEMS, INC.            BERDICK MFG. (PACIFIC) LTD.            BERDICK MFG. MANITOBA LTD.            BEST WINDOW &amp; DOOR CO., INC.            BESTWAY WINDOWS INC.            BIRCH POINT CONSULTING LLC            BMC WEST            BOSTON LUMBER COMPANY            BOSTON SASH &amp; MILLWORK, INC.            BRICKFIELD, BURCHETTE, RITTS, &amp; STONE, P.C.            C.V. WINDOWS &amp; DOORS OF SAN MARCOS, INC.            CALIFORNIA DELUXE WINDOWS            CALIFORNIA ENERGY COMMISSION            CARDINAL GLASS INDUSTRIES, INC.            CARDINAL WINDOW MANUFACTURING            CARLI, INC.            CENTER FOR SUSTAINABLE BUILDING RESEARCH            CERTAINTEED CORPORATION            CHAMPION WINDOW &amp; DOOR            CHAMPION WINDOW AND PATIO ROOM COMPANY            COASTAL INDUSTRIES, INC.            COMFORT LINE, INC.            CONSULTING COLLABORATIVE            CRYSTALITE, INC.            CUSTOM WINDOW SYSTEMS, INC.            CW OHIO, INC.            DAK-CAL GLASS, INC. DBA MID WEST GLASS &amp; ALUMINUM            DALLAS MILLWORK INC.</p>	<p>DASMA (DOOR &amp; ACCESS SYSTEMS MANUFACTURERS            ASSOC. INTERNATIONAL)            DEVCO PRODUCTS, INC.            DRACO WINDOWS            DYNAMIC WINDOWS &amp; DOORS, INC.            ECOTOPE, INC.            EDGETECH I.G. INC.            EDISON ELECTRIC INSTITUTE            ELITE SOLAR SYSTEMS, INC.            EMPYREAN INTERNATIONAL LLC            ENCOMPASS, INC.            ENERGY SAVING PRODUCTS OF FLORIDA            ENERMODAL ENGINEERING LIMITED            ETC LABORATORIES, INC.            EUROLINE WINDOWS INC.            FARNORTH WINDOWS &amp; DOORS            FENESTRATION SIMULATION ENGINEERING            FEN-TECH            FIVE STAR BUILDING PRODUCTS            FLORIDA SOLAR ENERGY CENTER            FMA (FENESTRATION MANUFACTURERS ASSOCIATION)            FOCUS POINT WINDOWS AND DOORS            GAF MATERIAL CORPORATION            GENERAL ALUMINUM CORPORATION            GIBSON MILLWORKS            GIENOW WINDOWS &amp; DOORS            GILWIN COMPANY            GLASS ASSOCIATION OF NORTH AMERICA (GANA)            GRAHAM ARCHITECTURAL PRODUCTS            GREAT LAKES WINDOW, INC.            GUARDIAN INDUSTRIES CORP.            HANSONS WINDOW &amp; SIDING COMPANY INC.            HAYFIELD WINDOW &amp; DOOR COMPANY            HEARTLAND WINDOWS MANUFACTURING CO.            HOME-GUARD WINDOWS, INC.            HOMETIME WINDOW INC.            HOUSTON ADVANCED RESEARCH CENTER            HURRICANE TEST LABORATORY, LLC            IDEAL WINDOW MANUFACTURING, INC.            INEX SPACER INC.            INSULATING GLASS MANUFACTURERS ALLIANCE (IGMA)            INTERNATIONAL WINDOW FILM ASSOCIATION            INTERSTATE BUILDING MATERIALS            J&amp;M GLASS COMPANY, INC.            J.J.J. SPECIALTY COMPANY            JELD-WEN, INC.            JOHNSON LAMINATING &amp; COATING, INC.            JONES PAINT &amp; GLASS, INC.            K &amp; H WINDOWS AND EXTERIORS            K&amp;C INDUSTRIES, INC.            KDL ENTERPRISES, INC. (WESTERN SKYLIGHTS)            KENSINGTON WINDOWS INC.            KEYSTONE CERTIFICATIONS, INC.            KINRO, INC.            KOLBE &amp; KOLBE MILLWORK COMPANY, INC.            LAWRENCE BERKELEY NATIONAL LABORATORY            LBL WINDOWS AND DOORS, INC.            LESLIE SKYLIGHTS</p>
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## ***DYNAMIC CHANGES***

### **2 0 0 5   N F R C   A N N U A L   R E P O R T**

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### *Message from the CHAIR*



*“Our theme, ‘Dynamic Changes,’ is a bit of a pun, but it’s also particularly appropriate given everything we accomplished in 2005.”*

Welcome to the National Fenestration Rating Council’s first Annual Report! From time to time we have reported to the membership and other stakeholders on the “state of our organization.” As part of our ongoing efforts to improve openness and transparency, we decided it’s time for NFRC to issue an official annual report on our activities and finances.

Our theme, “Dynamic Changes,” is a bit of a pun, but it’s also particularly appropriate given everything we accomplished in 2005: Better communications with and among our members; new and improved programs and procedures; and outreach through many different channels to our varied audiences.

Through it all, we kept our focus on our mission: to develop and administer comparative energy and related rating programs that serve the public and satisfy the needs of its private sector partners by providing fair, accurate and credible, and user-friendly information on fenestration product performance.

It has been a privilege and a pleasure to serve as Chair of this wonderful organization. Thank you to everyone who has helped to smooth my transition into the role. I look forward to working with you in the years to come as we navigate the Dynamic Changes that lie ahead.

Marcia Falke  
*NFRC Chair*

### *Message from the EXECUTIVE DIRECTOR*



*“Dynamic changes in 2005 brought big challenges – but also huge strides in the way that the organization is managed and operated.”*

The membership of NFRC can be very proud. Dynamic changes in 2005 brought big challenges – but also huge strides in the way that the organization is managed and operated.

What I’m most proud of is our wonderful staff, the best NFRC has ever had. We re-organized along program lines to provide stronger oversight of our programs and to allow better accessibility for our members. We’ve streamlined operations across the board, with a greater emphasis on Web-based system management and an eye towards efficiency and cost-effectiveness. The certified products database improved dramatically last year.

On behalf of our members, we reached out to our various stakeholders in a number of innovative ways in 2005: We conducted a survey of building officials in four key states; we focused our media outreach efforts on placing articles in publications that reach consumers and building officials; and we boosted our advertising buy in *Building Safety Journal* and *Building Safety Bulletin*.

I’m also proud of the fact that we closed 2005 in great fiscal health. NFRC remains a financially sound organization with a strong balance sheet and substantial reserves. As we look ahead, we can rest assured that we will have the resources to serve our customers for many years to come.

Congratulations to everyone who helped to make 2005 such a success. To learn more about what we accomplished together, please read the following pages – and let us know what you think. We look forward to another terrific year in 2006.

Jim Benney  
*Executive Director*



### NFRC at a GLANCE

Number of NFRC Members:  
**232**

Number of Participating Manufacturers:  
**525**

Number of Certified Products:  
**1,245,112**

#### VISION STATEMENT

*NFRC is the recognized global leader in delivering energy and related performance ratings and certification for fenestration products and systems.*

#### CORE VALUES

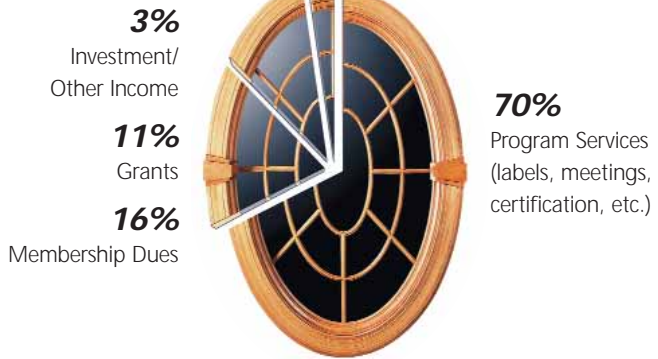
NFRC's core values include a commitment to the public interest, using a consensus-driven process to craft a balanced approach to the work, recognizing and respecting the creative tension that comes from diverse input, protecting and preserving the integrity of the NFRC brand, and stressing an inclusive attitude in serving all segments of the fenestration marketplace.

#### STRATEGIC GOALS

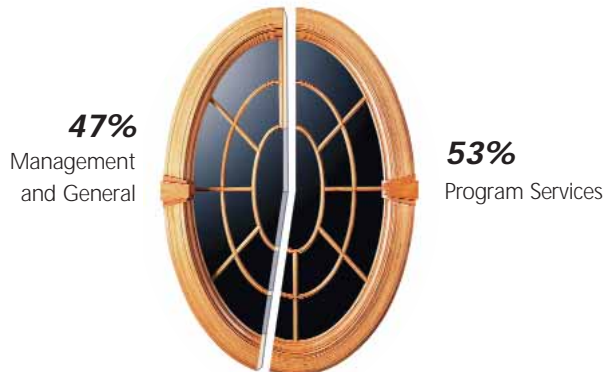
- Strengthen the organization's ability to achieve its mission
- Continually evaluate and improve existing NFRC programs
- Build new programs as needed
- Maintain a long-term global focus



#### SOURCES OF NFRC INCOME



#### NFRC EXPENDITURES



*"My wife and I used the ratings provided by NFRC to make a smart choice about our new windows. We're thrilled with their performance; our home has never been more comfortable."*





## NFRC Activities - PROGRAMS

### TWO NEW LABELS

To meet the needs of an exciting new technology, the membership and Board approved a new label for dynamic glazing products such as electrochromics, photochromics, and between-the-panes attachments. These new labels feature two ratings that represent these products in the fully on/open and fully off/closed positions. We also developed a new bilingual label in English and Spanish, in response to a new requirement for labeled products sold in Lowe's home stories.


 <b>World's Best Window Co.</b> Millennium 2000+ Vinyl-Clad Wood Frame Double Glazing • Dynamic Glazing • Low E Product Type: Vertical Slider CERTIFIED	
<b>ENERGY PERFORMANCE RATINGS</b>	
U-Factor (U.S./I-P) <b>0.30</b> ↔ <b>0.40</b>	Solar Heat Gain Coefficient <b>0.10</b> ↔ <b>0.50</b>
<b>ADDITIONAL PERFORMANCE RATINGS</b>	
—	
<small>Manufacturer stipulates that these ratings conform to applicable NFRC procedures for determining whole product performance. NFRC ratings are determined for a fixed set of environmental conditions and a specific product size. NFRC does not recommend 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</small>	


 <b>World's Best Window Co.</b> Millennium 2000+ Vinyl-Clad Wood Frame Double Glazing • Dynamic Glazing • Low E Product Type: Vertical Slider CERTIFIED	
<b>ENERGY PERFORMANCE RATINGS</b>	
U-Factor (U.S./I-P) <b>0.32</b> ↔ <b>0.32</b>	Solar Heat Gain Coefficient <b>0.10</b> ↔ <b>0.50</b>
<b>ADDITIONAL PERFORMANCE RATINGS</b>	
Visible Transmittance <b>0.03</b> ↔ <b>0.65</b>	—
<small>Manufacturer stipulates that these ratings conform to applicable NFRC procedures for determining whole product performance. NFRC ratings are determined for a fixed set of environmental conditions and a specific product size. NFRC does not recommend 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</small>	

NFRC's Dynamic Glazing Labels

### RATINGS FOR WINDOW FILMS

One big success in 2005 involved completion of a procedure for rating window film. Following the Board's approval of both the procedures and a new label last spring, NFRC's staff has been diligently working to bring all of the pieces together so that window film manufacturers can take advantage of the program. Those pieces include modifying NFRC's software and its *Certified Products Directory*. NFRC expects to make the rating available to window film manufacturers in the fall of 2006.

 <b>NFRC ATTACHMENT RATINGS</b> XYZ Applied Film Company • Deluxe Green Film CP1000 • 4000 (Infrared) <small>This rating uses reference window energy performance - actual product performance may vary.</small>			
<b>ENERGY PERFORMANCE RATINGS - Solar Heat Gain Coefficient &amp; Visible Transmittance Only</b>			
Reference Product	Solar Heat Gain Coefficient	Visible Transmittance	Visible Transmittance
Type	With Film	With Film	With Film
Residential	Single Glazed Clear	0.64	0.67
	Double Glazed Clear	0.56	0.60
	Single Glazed Clear	0.68	0.69
Non-Residential	Single Glazed Grey	0.46	0.33
	Double Glazed Clear	0.58	0.64
	Double Glazed Grey	0.35	0.29
<small>Manufacturer stipulates that these ratings conform to applicable NFRC procedures for determining whole product performance. NFRC ratings are determined for a fixed set of environmental conditions and a specific product size. NFRC does not recommend 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</small>			

 <b>World's Best Window Co.</b> Millennium 2000+ Vinyl-Clad Wood Frame • Double Glazing • Argon Fill • Low E Product Type: Vertical Slider CERTIFIED	
<b>ENERGY PERFORMANCE RATINGS</b>	
U-Factor (U.S./I-P) <b>0.35</b> ↔ <b>2.0</b>	Solar Heat Gain Coefficient <b>0.32</b>
<b>ADDITIONAL PERFORMANCE RATINGS</b>	
Visible Transmittance <b>0.51</b>	Air Leakage <b>0.2</b> ↔ <b>1.0</b>
Condensation Resistance <b>51</b>	—
<small>Manufacturer stipulates that these ratings conform to applicable NFRC procedures for determining whole product performance. NFRC ratings are determined for a fixed set of environmental conditions and a specific product size. NFRC does not recommend 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</small>	
<small>Este fabricante estipula que estos valores cumplen con los procedimientos aplicables de NFRC para determinar el rendimiento total del producto. Los valores usados por NFRC son determinados por un conjunto fijo de condiciones ambientales y un tamaño de producto específico. NFRC no recomienda ningún producto y no garantiza que el producto sea adecuado para un uso específico. Consulte con el fabricante para el uso apropiado de este producto. www.nfrc.org</small>	

English/Spanish Bilingual Label



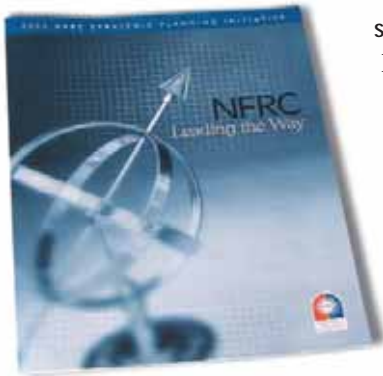
### COMPONENT MODELING

Feedback from manufacturers and building officials seeking improvements to the NFRC Site-Built Program prompted NFRC to launch an initiative in 2005 to develop a "component modeling" approach to rating and labeling nonresidential fenestration systems. NFRC held a series of meetings and conference calls and reached out to a number of stakeholders to solicit input. This prep work led to significant progress in 2006 as NFRC seeks to meet a 2008 completion deadline set by California.



*"As a long-time participant in the rating and labeling system, we appreciate what NFRC has done to make the system simpler to use, easier to understand, and less expensive."*

## NFRC Activities - SIMPLIFICATION



*NFRC is the recognized global leader in delivering energy and related performance ratings and certification for fenestration products and systems.*

### STRATEGIC PLANNING

In 2005, the NFRC Board of Directors completed an intense strategic planning process that resulted in a new mission, vision, and goals for the organization. This living document, entitled "Leading the Way," will change and evolve as the approved goals form into objectives and then into specific achievable, measurable, and noticeable action items. Simplification is one of those primary goals, and each decision the organization makes, priority it assigns, and projects it undertakes should reflect the intentions of this strategic plan.

### WEB-BASED BUSINESS

A key aspect of our simplification plan is to move more of our business onto the Web, so we can save our members time, energy, and costs. Members can now register for NFRC meetings, participate in task groups, edit and discuss documents, and vote for members of the Board online. Staff is streamlining the certified products database to make it easier to flow data in and out. Look for more Web-based business in the years to come.



### STREAMLINED OPERATIONS

NFRC successfully instituted a new on-line balloting system for Board elections, and hired a technical editor to review all existing and future documents. Staff began to review every procedure and piece of paper involved in our LAP, CAP, and PCP programs to determine how to make them more user-friendly and cost-effective. Even the decision to cut the number of annual NFRC meetings from four to three can be traced to a commitment to streamline, since it saves everyone involved time, energy, and travel costs.

*“Building officials welcome any tool that helps them determine whether or not building components or systems meet code. The NFRC label is very helpful in that regard, because we can go into a home or a trailer on a job site and quickly, accurately, and credibly determine if fenestration products meet code.”*



## NFRC Activities - COMMUNICATIONS AND OUTREACH

*"In addition to providing consumer and industry professionals with easy-to-read labels for comparing product performance, NFRC performance ratings and certification are necessary for windows, doors, and skylights to meet the criteria for becoming an ENERGY STAR® product."*

*Builder and Developer, July 2005*

### FROM THE BOARD TO MEMBERS

In response to concerns expressed by the membership, the Board committed itself in 2005 to communicating more openly and frequently. Board meeting minutes are now posted within 30 days of meetings, and the Board has directed staff to issue "communiqués" immediately following all Board meetings in which significant decisions are made. The staff also began to use the Web site more effectively last year, posting meeting minutes and updating the "What's New" section on the home page. We still have progress to make in this area, and the Board is committed to working with members to make other appropriate changes in the future.

### FROM MEMBERS TO THE BOARD

As part of its efforts to become more open and responsible to the membership, NFRC's Board strengthened the position of Ombudsman and scheduled "Open Forums" at every NFRC meeting. The Ombudsman's job - currently Jim Krahn - is to serve as an official conduit from the membership to the Board and to represent the membership's interests generally. During the Open Forums, the NFRC chair and executive director make presentations on the meeting's relevant issues and topics and then open the floor for discussion. The Board continues to look for new ways to communicate and welcomes all suggestions.

NFRC MEDIA IMPRESSIONS



### FROM NFRC TO ITS CUSTOMERS

*NFRC Update* went electronic in 2005, in a bid to communicate more effectively and efficiently with all NFRC stakeholders. E-mail distribution allows NFRC to be more flexible in terms of content, and eliminates expenses associated with printing and mailing hard copies. (We reinvested these savings into a more frequent product, and beginning in 2006 *NFRC Update* will be published every six-to-eight weeks rather than five times per year.) NFRC conducted a survey of building officials in four states in 2005, to learn more about how this crucial customer thinks about, perceives, and benefits from NFRC's certified ratings.

Toward the end of the year, NFRC engaged Gary Curtis and his West Wall Group to help reach out to architects through 2006 and perhaps beyond.

*"For fifteen years, NFRC has been at the forefront of fenestration energy performance research. As a result, the overall performance of the nation's window stock has improved dramatically."*

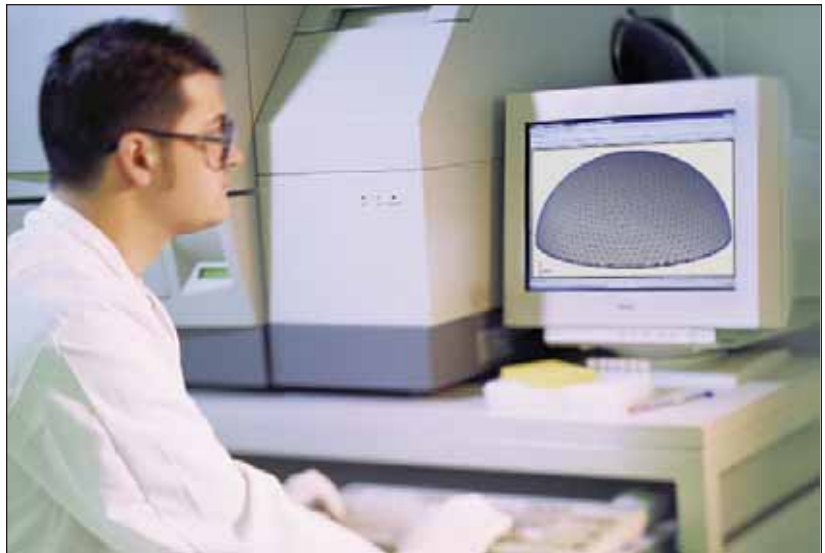


*NFRC committed more than \$500,000 to fund research activities for three years beginning in 2003, including more than \$113,000 spent in 2005. That's expected to rise to more than \$164,000 in 2006.*

## **NFRC Activities - RESEARCH**

### **A PART OF NFRC'S MISSION**

Research is a fundamental part of NFRC's mission to administer a uniform, independent system for rating and labeling the energy performance of fenestration products. In funding research, NFRC follows a rigorous process that involves open bidding and careful oversight. Since its inception in 1989, NFRC has spent more than \$2 million on research activities.



### **SIX PROJECTS IN 2005**

In 2005, NFRC pursued six research projects on the following topics:

- A thermal comfort rating
- The effect of surface heat transfer coefficients on U-factors for projecting and highly conducting fenestration products
- Three-dimensional heat transfer effects in fenestration systems
- The development of a procedure for U-factor rating of domed skylights
- An investigation of heat transfer effects of sloped and ventilated internal cavities of framing systems
- Solar heat gain research projects involving interior window attachment products and glass block

### **PUBLISHED PAPERS**

When NFRC funds research, it requires researchers to publish their findings. In 2005, NFRC-sponsored researchers published two papers on solar heat gain coefficient issues involving attachments and glass block. These papers were published in ASHRAE journals.



**BALANCE SHEET**

December 31, 2005 (With Comparative Totals For 2004)

<b>ASSETS</b>	<b>2005</b>	<b>2004</b>
Cash and Cash Equivalents	\$ 562,242	\$ 864,857
Investments	2,967,422	2,132,487
Accounts Receivable, net	234,291	608,628
Prepaid Expenses	23,815	34,308
Property and Equipment, net	34,619	43,604
Deposits	6,409	6,409
	\$ 3,828,798	\$ 3,690,293
 <b>LIABILITIES AND NET ASSETS</b>		
<hr/>		
Liabilities		
Accounts payable and accrued expenses	\$ 170,125	\$ 109,059
Deferred membership dues	173,859	78,930
	\$ 343,984	\$ 187,989
<b>Total liabilities</b>	<b>\$ 343,984</b>	<b>\$ 187,989</b>
 Commitments and Contingencies ( <i>Note 6 and 7</i> )		
Net Assets – Unrestricted	3,484,81	3,502,304
	\$ 3,828,798	\$ 3,690,293

*Note 6. Operating Lease*

The Association has an operating lease for office space ending May 31, 2007. The lease contains annual rent increases as well as annual escalation clauses for both increase in property taxes and general operating and maintenance costs of the landlord. Total rent expense for the year ended December 31, 2005 is \$94,024.

*Note 7. Contingencies*

The Association participates in a federally assisted grant program which is subject to a financial and compliance audit by federal agencies or their representatives. Management does not anticipate any significant adjustments as a result of such an audit.

Executive severance – The Association has an employment contract with the Executive Director. The contract provides for a severance payment for termination without cause, which equals three weeks times the number of full years that the Executive Director was continuously employed by the Association through the date of termination, up to a maximum of fifty-two weeks.



## STATEMENT OF ACTIVITIES

Year Ended December 31, 2005 (With Comparative Totals For 2004)

SUPPORT AND REVENUE	2005	2004
Program Services		
Labels and publications	\$ 1,569,770	\$ 1,749,180
Accreditation	192,075	157,350
Meetings and workshops	115,803	92,960
Certification	34,888	32,800
Compliance	-	16,017
Membership dues	437,796	568,979
Grants	301,032	291,680
Investment income	77,485	4,461
Other income	1,490	475
Contracts	-	3,524
<b>Total support and revenue</b>	<b>\$ 2,730,339</b>	<b>\$ 2,917,426</b>
Expense		
Program services	1,468,284	1,360,902
Management and general	1,279,545	932,809
<b>Total expense</b>	<b>\$ 2,747,829</b>	<b>\$ 2,293,711</b>
<b>Change in net assets</b>	<b>(17,490)</b>	<b>623,715</b>
Net Assets		
Beginning	3,502,304	2,878,589
Ending	<b>\$ 3,484,814</b>	<b>\$ 3,502,304</b>

## NFRC BOARD OF DIRECTORS

Marcia Falke, *Chair*  
Keystone Certifications, Inc.

Alecia Ward, *Vice-Chair*  
Midwest Energy Efficiency Alliance

Gary Curtis, *Secretary*  
The Westwall Group, LLC

Chuck Anderson  
Simonton Windows

Elaine Hebert  
California Energy Commission

James Larsen  
Cardinal Glass Industries, Inc.

Mike Manteghi  
TRACO

Steve Selkowitz  
Lawrence Berkeley National Laboratory

Garrett A. Stone  
Brickfield, Burchette, Ritts & Stone, P.C.

Michael J. Thoman  
Architectural Testing, Inc. – PA

Jeff Baker, *ex officio*  
WESTLab

Jim Benney, *ex officio*  
National Fenestration Rating Council

Joe Hayden, *ex officio*  
Pella Corporation

John Hogan, *ex officio*  
Seattle Dept. of Planning and Development

Richard Karney, *ex officio*  
U.S. Department of Energy

James C. Krahn, Ombudsman, *ex officio*  
Marvin Windows & Doors

A. William Lingnell, *ex officio*  
Lingnell Consulting Services

R. Christopher Mathis, *ex officio*  
MC SQUARED

Scott Meza, *ex officio*  
Greenberg Taurig, LLC

Tony Rygg, *ex officio*  
California Energy Commission

Steve Strawn, *ex officio*  
Jeld-Wen, Inc.

## NFRC STAFF

Jim Benney  
Executive Director

Deborah Callahan  
Deputy Executive Director

Zina Bulbuc  
Director of Education

Scott Hanlon  
Laboratory Accreditation Program Manager

Jessica Ferris  
Certification Program Manager

Cheryl Gendron  
Membership & Meeting Manager

Ray McGowan  
Manager, Technical Services

Robin Atkins  
Staff Accountant

Hardik Jani  
Programs Analyst

Andrea Hansborough  
Accounting Assistant

Jacque McCracken  
Certification Program Coordinator

LINDAL BUILDING PRODUCTS  
 LINDSAY WINDOW & DOOR  
 LINFORD GLASS CO.  
 LOCKHEED WINDOW CORP.  
 MADICO, INC.  
 MALTA WOOD WINDOWS, INC.  
 MARVIN WINDOWS & DOORS  
 MATTHEWS MILLWORK, INC. DBA THERMABUILT  
 MC SQUARED  
 MERCER INDUSTRIES, INC.  
 METAL WINDOW CORPORATION  
 METALS USA BUILDING PRODUCTS L.P.  
 MI WINDOWS AND DOORS  
 MIDWEST ENERGY EFFICIENCY ALLIANCE  
 MIKRON INDUSTRIES, INC.  
 MILGARD MANUFACTURING, INC.  
 MINNKOTA WINDOWS  
 MULIA, INC.  
 MURRAY MILLWORK, INC.  
 NATIONAL ACCREDITATION & MANAGEMENT INSTITUTE  
 (NAMI)  
 NATIONAL RENEWABLE ENERGY LABORATORY (NREL)  
 NATIONAL SUNROOM ASSOCIATION  
 NATIONAL VINYL PRODUCTS, INC.  
 NEW MORNING WINDOWS  
 NORTH AMERICAN PROFILES GROUP  
 NORTH EAST WINDOWS  
 NORTHERN BUILDING PRODUCTS, INC.  
 NOVATECH GLASS, INC.  
 ODL INCORPORATED  
 OLDCASTLE GLASS, INC.  
 PACIFIC GAS & ELECTRIC COMPANY (PG&E)  
 PARADIGM WINDOW SOLUTIONS  
 PARAGON DOOR DESIGNS, INC.  
 PELLA CORPORATION  
 PETER LYONS & ASSOCIATES  
 PGT INDUSTRIES  
 PILKINGTON NORTH AMERICA, INC.  
 PITTSBURGH CORNING CORPORATION  
 POLAR SEAL WINDOW CORP.  
 PREMIERE MILLWORKS INC.  
 PRIMA PRODUCTS  
 PUBLIC SUPPLY COMPANY  
 QUALITY TESTING, INC.  
 QUALITY WINDOW MANUFACTURING, INCORPORATED  
 QUANTUM WINDOWS & DOORS, INC.  
 R&S VINYL PRODUCTS GROUP, LLC  
 RAM INDUSTRIES, INC.  
 RELIANCE WINDOWS LIMITED  
 RESEARCH FRONTIERS INCORPORATED  
 ROBERT BOWDEN, INC.  
 ROETZEL & ANDRESS  
 ROYAL MOULDINGS LIMITED  
 ROYAL WINDOWS MANUFACTURING CORP.  
 RUSSELL MILLWORKS, INC.  
 SAGE ELECTROCHROMICS, INC.  
 SEATTLE DEPT. OF PLANNING AND DEVELOPMENT  
 SEMLING-MENKE COMPANY, INC.  
 SEVEN D INDUSTRIES, INC.  
 SHAWNEE VINYL, LLC  
 SHELTER SUPERSTORE CORP.  
 SHWINCO INDUSTRIES, INC.  
 SIERRA PACIFIC WINDOWS  
 SIMONTON WINDOWS  
 SOLARIS INTERNATIONAL INC.  
 SOLATUBE INTERNATIONAL, INC.  
 SOLUTIA, INC.  
 SOUTHLAND WINDOWS, INC.  
 SOUTHWALL TECHNOLOGIES  
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