II F
Corr

37/3-UU 7204 Spruce Avenue
(Takoma Park Historic District)

Windows — Historic?
(2nd) Nichole Strumfelder
Match @ in kind —
or are you changing anything
Why are you replacing
Condition
Cell: (443) 857-9539

historic

DEPARTMENT OF PERMITTING SERVICES

Douglas M. Duncan
County Executive

Robert C. Hubbard
Director

HISTORIC AREA WORK PERMIT

IssueDate: 11/21/2002

Permit No: 290369
Expires:
X Ref:
Rev. No:

Approved With Conditions

THIS IS TO CERTIFY THAT: COLIN NORMAN
7204 SPRUCE AVE
TAKOMA PARK MD 20912

HAS PERMISSION TO: ALTER

PERMIT CONDITIONS: Replace the proposed windows with simulated true divided lites with an exterior wood grill; 2/2 windows will be ont he second story with 6/1 on the first story, except for the 1 lite casement window located in the kitchen.

PREMISE ADDRESS 7204 SPRUCE AVE
TAKOMA PARK MD 20912-0000

LOT P1	BLOCK 8	PARCEL	ZONE R-60
LIBER	ELECTION DISTRICT	PLATE	GRID
FOLIO	SUBDIVISION		
PERMIT FEE: $0.00	TAX ACCOUNT NO.:		

HISTORIC MASTER: Y
HISTORIC ATLAS: Y

HISTORIC APPROVAL ONLY
BUILDING PERMIT REQUIRED

Robert C. Hubbard

Director, Department of Permitting Services

THE MARYLAND-NATIONAL CAPITAL PARK AND PLANNING COMMISSION
8787 Georgia Avenue • Silver Spring, Maryland 20910-3760

Date: 11/13/02

MEMORANDUM

HAWP # 37/3-02UU
DPS 290369

TO: Historic Area Work Permit Applicants

FROM: Gwen Wright, Coordinator
Historic Preservation Section

SUBJECT: Historic Area Work Permit Application - Approval of Application/Release of Other Required Permits

---

Enclosed is a copy of your Historic Area Work Permit application, approved by the Historic Preservation Commission at its recent meeting, and a transmittal memorandum stating conditions (if any) of approval.

You may now apply for a county building permit from the Department of Permitting Services (DPS) at 255 Rockville Pike, second floor, in Rockville. Please note that although your work has been approved by the Historic Preservation Commission, it must also be approved by DPS before work can begin.

When you file for your building permit at DPS, you must take with you the enclosed forms, as well as the Historic Area Work Permit that will be mailed to you directly from DPS. These forms are proof that the Historic Preservation Commission has reviewed your project. For further information about filing procedures or materials for your county building permit review, please call DPS at 240-777-6370.

If your project changes in any way from the approved plans, either before you apply for your building permit or even after the work has begun, please contact the Historic Preservation Commission staff at 301-563-3400.

Please also note that you must arrange for a field inspection for conformance with your approved HAWP plans. Please inform DPS/Field Services at 240-777-6210 or online @ **permits.emontgomery.org** of your anticipated work schedule.

Thank you very much for your patience and good luck with your project!

C:\hawpapr.wpd

THE MARYLAND-NATIONAL CAPITAL PARK AND PLANNING COMMISSION
8787 Georgia Avenue • Silver Spring, Maryland 20910-3760

Date: 11/13/02

MEMORANDUM

TO: Robert Hubbard, Director
Department of Permitting Services

FROM: Gwen Wright, Coordinator
Historic Preservation

SUBJECT: Historic Area Work Permit

HAWP # 37/3-02VV
DPS# 290369

The Montgomery County Historic Preservation Commission has reviewed the attached application for an Historic Area Work Permit. This application was:

_____ Approved

__✓__ Approved with Conditions: Replace the proposed windows with simulated true divided lites with an exterior wood sill; 2/2 windows will be on the second story with 6/1 on the first story, except for the 1-lite casement window located in the kitchen.

and HPC Staff will review and stamp the construction drawings prior to the applicant's applying for a building permit with DPS; and

THE BUILDING PERMIT FOR THIS PROJECT SHALL BE ISSUED CONDITIONAL UPON ADHERENCE TO THE APPROVED HISTORIC AREA WORK PERMIT (HAWP).

Applicant: Colin & Anne Norman

Address: 7204 Spruce Avenue, Takoma Park

and subject to the general condition that, after issuance of the Montgomery County Department of Permitting Services (DPS) permit, the applicant arrange for a field inspection by calling the Montgomery County DPS Field Services Office at 240-777-6210 or online @ **permits.emontgomery.org** prior to commencement of work and not more than two weeks following completion of work.

RETURN TO: DEPARTMENT OF PERMITTING SERVICES
255 ROCKVILLE PIKE, 2nd FLOOR, ROCKVILLE, MD 20850
240/777-6370

DPS - #8

HISTORIC PRESERVATION COMMISSION
301/563-3400

APPLICATION FOR HISTORIC AREA WORK PERMIT

Contact Person: ANNE NORMAN
Daytime Phone No.: (202) 939 3399

Tax Account No.: _____

Name of Property Owner: COLIN & ANNE NORMAN Daytime Phone No.: (202) 939 3399

Address: 7204 SPRUCE AVE. TAKOMA PARK 20912
Street Number / City / State / Zip Code

Contractor: RENEWAL BY ANDERSEN Phone No.: 301 913 0100

Contractor Registration No.: _____

Agent for Owner: _____ Daytime Phone No.: _____

Address: _____

LOCATION OF BUILDING/PREMISE

House Number: 7204 Street: SPRUCE AVENUE

Town/City: TAKOMA PARK Nearest Cross Street: TULIP AVENUE

Lot: Pt. 1 & 2 Block: 8 Subdivision: LIPSCOMB AND EARNEST TRUSTEES' ADDITION TO TAKOMA PARK

Liber: _____ Folio: _____ Parcel: _____

PART ONE: TYPE OF PERMIT ACTION AND USE

1A. CHECK ALL APPLICABLE:

☐ Construct ☐ Extend ☑ Alter/Renovate ☐ A/C ☐ Slab ☐ Room Addition ☐ Porch ☐ Deck ☐ Shed

☐ Move ☐ Install ☐ Wreck/Raze ☐ Solar ☐ Fireplace ☐ Woodburning Stove ☐ Single Family

☐ Revision ☐ Repair ☐ Revocable ☐ Fence/Wall (complete Section 4) ☐ Other: WINDOW REPLACEMENT

1B. Construction cost estimate: $ 5,201

1C. If this is a revision of a previously approved active permit, see Permit # _____

PART TWO: COMPLETE FOR NEW CONSTRUCTION AND EXTEND/ADDITIONS

2A. Type of sewage disposal: 01 ☐ WSSC 02 ☐ Septic 03 ☐ Other: _____

2B. Type of water supply: 01 ☐ WSSC 02 ☐ Well 03 ☐ Other: _____

PART THREE: COMPLETE ONLY FOR FENCE/RETAINING WALL

3A. Height _____ feet _____ inches

3B. Indicate whether the fence or retaining wall is to be constructed on one of the following locations:

☐ On party line/property line ☐ Entirely on land of owner ☐ On public right of way/easement

I hereby certify that I have the authority to make the foregoing application, that the application is correct, and that the construction will comply with plans approved by all agencies listed and I hereby acknowledge and accept this to be a condition for the issuance of this permit.

C.T. Norman. 13 October 2002
Signature of owner or authorized agent / Date

Approved: ✓CJ For Chairperson, Historic Preservation Commission

Disapproved: _____ Signature: _____ Date: 11/13/02

Application/Permit No.: 290369 Date Filed: 10/18/02 Date Issued: _____

Edit 6/21/99

SEE REVERSE SIDE FOR INSTRUCTIONS

THE FOLLOWING ITEMS MUST BE COMPLETED AND THE REQUIRED DOCUMENTS MUST ACCOMPANY THIS APPLICATION.

1. **WRITTEN DESCRIPTION OF PROJECT**

   a. Description of existing structure(s) and environmental setting, including their historical features and significance:

   TWO DOUBLE-HUNG ORIGINAL KITCHEN WINDOWS FACING PATIO AT REAR OF HOUSE
   FOUR DOUBLE-HUNG WINDOWS IN UPSTAIRS (2nd STORY) REAR-FACING ROOM ORIGINALLY SLEEPING PORCH ENCLOSED CA. 1940s
   HOUSE IS CLASSIFIED AS A CONTRIBUTING RESOURCE

   b. General description of project and its effect on the historic resource(s), the environmental setting, and, where applicable, the historic district:

   REPLACEMENT OF ABOVE WITH DOUBLE-HUNG ANDERSEN WINDOWS OF SIMILAR DESIGN, CONSTRUCTED OF FIBREX WITH WOOD FACING. NOT VISIBLE FROM STREET. ALL REPLACEMENTS ARE SAME DIMENSIONS AS EXISTING WINDOWS

2. **SITE PLAN**

   Site and environmental setting, drawn to scale. You may use your plat. Your site plan must include:

   a. the scale, north arrow, and date;

   b. dimensions of all existing and proposed structures; and

   c. site features such as walkways, driveways, fences, ponds, streams, trash dumpsters, mechanical equipment, and landscaping.

3. **PLANS AND ELEVATIONS**

   You must submit 2 copies of plans and elevations in a format no larger than 11" x 17". Plans on 8 1/2" x 11" pages are preferred.

   a. ***Schematic construction plans***, with marked dimensions, indicating location, size and general type of walls, window and door openings, and other fixed features of both the existing resource(s) and the proposed work.

   b. Elevations (facades), with marked dimensions, clearly indicating proposed work in relation to existing construction and, when appropriate, context. All materials and fixtures proposed for the exterior must be noted on the elevations drawings. An existing and a proposed elevation drawing of each facade affected by the proposed work is required.

4. **MATERIALS SPECIFICATIONS**

   General description of materials and manufactured items proposed for incorporation in the work of the project. This information may be included on your design drawings.

5. **PHOTOGRAPHS**

   a. Clearly labeled photographic prints of each facade of existing resource, including details of the affected portions. All labels should be placed on the front of photographs.

   b. Clearly label photographic prints of the resource as viewed from the public right-of-way and of the adjoining properties. All labels should be placed on the front of photographs.

6. **TREE SURVEY**

   If you are proposing construction adjacent to or within the dripline of any tree 6" or larger in diameter (at approximately 4 feet above the ground), you must file an accurate tree survey identifying the size, location, and species of each tree of at least that dimension.

7. **ADDRESSES OF ADJACENT AND CONFRONTING PROPERTY OWNERS**

   For ALL projects, provide an accurate list of adjacent and confronting property owners (not tenants), including names, addresses, and zip codes. This list should include the owners of all lots or parcels which adjoin the parcel in question, as well as the owner(s) of lot(s) or parcel(s) which lie directly across the street/highway from the parcel in question. You can obtain this information from the Department of Assessments and Taxation, 51 Monroe Street, Rockville, (301/279-1355).

PLEASE PRINT (IN BLUE OR BLACK INK) OR TYPE THIS INFORMATION ON THE FOLLOWING PAGE.
PLEASE STAY WITHIN THE GUIDES OF THE TEMPLATE, AS THIS WILL BE PHOTOCOPIED DIRECTLY ONTO MAILING LABELS.

HAWP APPLICATION: MAILING ADDRESSES FOR NOTICING

[Owner, Owner's Agent, Adjacent and Confronting Property Owners]

Owner's mailing address	Owner's Agent's mailing address
7204 SPRUCE AVENUE TAKOMA PARK, MD 20912	

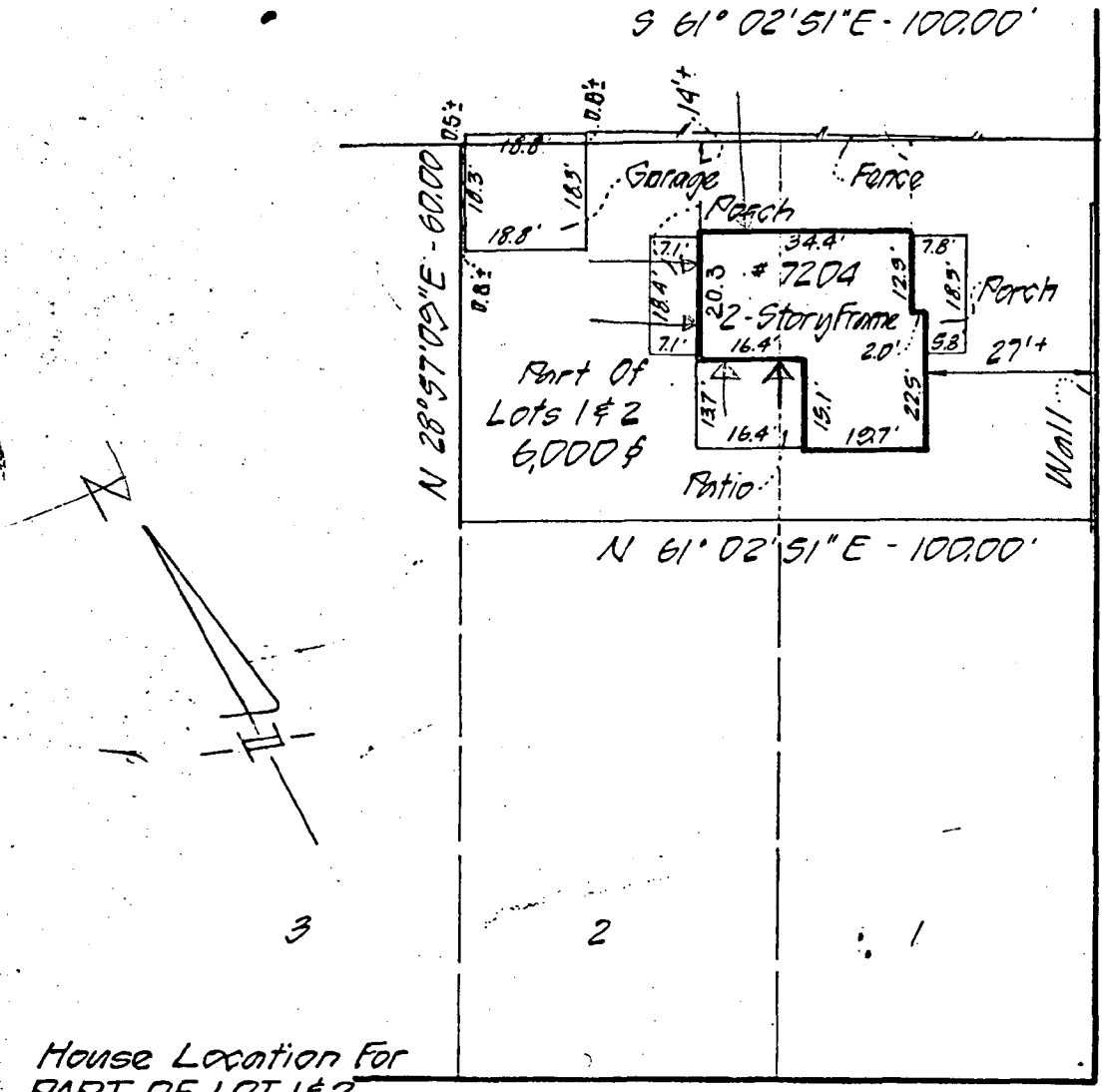
Adjacent and confronting Property Owners mailing addresses

JAMES RETTBERG 408 TULIP AVE TAKOMA PARK, MD 20912	IRIS GORMAN 7206 SPRUCE AVENUE TAKOMA PARK, MD 20912

g addresses' noticing table

NOTE: This survey for titl(poses only – not to be used for determining property lines. Property corner Marke(ot guaranteed by this survey.

LOCATION OF WINDOWS TO BE REPLACED
MARKED BY ARROWS



SPRUCE AVENUE
50'
FORMERLY POPLAR AVENUE

TULIP AVENUE
50'

House Location For
PART OF LOT 1 & 2
BLOCK 8
LIPSCOMB & EARNEST, TRUSTEES
ADDITION TO TAKOMA PARK
MONTGOMERY CO., MD

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THE POSITION OF ALL THE EXISTING IMPROVEMENTS ON THE ABOVE DESCRIBED PROPERTY HAS BEEN CAREFULLY ESTABLISHED BY A TRANSIT-TAPE SURVEY AND THAT UNLESS OTHERWISE SHOWN. THERE ARE NO ENCROACHMENTS.

Jefferson D. Lawrence

JEFFERSON D. LAWRENCE
PROFESSIONAL LAND SURVEYOR
REGISTERED LAND SURVEYOR MARYLAND #5216

REFERENCES	
PLAT BK.	A
PLAT NO.	46
LIBER	
FOLIO	

ANDJON ASSOCIATES
PROFESSIONAL LAND SURVEYOR
LAND PLANNING CONSULTANTS
11748 ASHWORTH COURT
(301) 428-0481 GERMANTOWN, MARYLAND 20767

DATE OF SURVEYS	
WALL CHECK:	
HSE. LOC.:	8-4-76
BOUNDARY:	

SCALE:	1" = 30'
DRAWN BY:	B.A.
JOB NO.:	9117A

HISTORIC PRESERVATION COMMISSION STAFF REPORT

Address:	7204 Spruce Avenue	**Meeting Date:**	11/13/02
Applicant:	Colin & Anne Norman	**Report Date:**	11/06/02
Resource:	Takoma Park Historic District	**Public Notice:**	10/30/02
Review:	HAWP	**Tax Credit:**	Yes
Case Number:	37/3-02UU	**Staff:**	Corri Jimenez
PROPOSAL:	Window Replacement		
RECOMMEND:	Approve with conditions		

CONDITION

1. Replace the proposed windows with simulated true divided lites with an exterior wood grill; 2/2 windows will be on the second story with 6/1 on the first story, except for the 1-lite casement window located in the kitchen.

PROJECT DESCRIPTION

SIGNIFICANCE: Contributing Resource
STYLE: Colonial Revival
DATE: 1915-25

PROPOSAL

The applicant proposes to:

1. Replacing six true divided lite, double hung windows on the rear and side of an enclosed 2-story sleeping porch. One Andersen 2/2 simulated true divided lite window will be installed on the 2nd story on the north side. Three Andersen 2/2 non-simulated true divided lites windows will be added to the rest of the story, which will not be visible from the street. On the first story, one 6/1 Andersen non-simulated true divided lite window, which will not be visible to the public right-of-way, will be installed adjacent to a 1-lite casement window. The building materials of all the windows are a composite wood-vinyl composite called "Fibbrex," which has a wood facing (see Circle 15-20).

STAFF DISCUSSION

7204 Spruce Avenue is a Contributing resource to the Takoma Park Historic District as a 2-story Colonial Revival farmhouse. The house has been altered with the enclosure of a sleeping porch on the west, as well as adding smaller additions on many of the rear and side elevations.

The applicant proposes to replace six windows on the south and west elevations. According to the applicant, these windows are in bad condition, although staff did not get the opportunity to review them. All of the windows in the house appear to have been replaced at a later time, and may have been originally 2/2 double hung wood windows. Older windows are visible on the second story of the house (see Circle 10). It is unclear if the visible 2/2 windows are original or reused, but appear to match the house's architectural style and other properties in the historic district. The rear west elevation of the house was once a 2-story sleeping porch, which was enclosed in the 1940s and it was at that time when these windows were added. 2/2 double hung windows are being proposed for the second story with 6/1 double hung windows on the first story and the window material is known as "Fibbrex," a wood/vinyl composite (see Circle 15-20). One window facing the street is proposed to be a 2/2 simulated true divided lite, which overlooks the driveway on the north side. The rest of the windows are proposed to be non-simulated with encapsulated muntins. A casement 1-lite window will be added over the kitchen on the first floor and is smaller than the other 6/1 double hung windows (see Circle 11).

Staff approves the project overall with the condition that all the windows be simulated true divided lites with an exterior wood grill. Non-simulated true divided lite windows are not approved by the HPC as replacements, and Staff concurs with this because the windows will not be visually compatible with the rest of the elevation. In regards to the use of "Fibbrex" as a chosen window material, Staff does not have an opinion and is unfamiliar with the building material as a whole. The Takoma Park Historic District Guideline accepts new building materials "on a case-by-case basis" for contributing resources, particularly if not visual from the public right-of-way.

STAFF RECOMMENDATION

Staff recommends that the Commission ***approve with conditions*** the HAWP application as being consistent with Chapter 25A-8(b) 1:

> The proposal will not substantially alter the exterior features of an historic site or historic resource within an historic district.

and with the Secretary of the Interior's *Standards* #7:

> New additions, exterior alterations, or related new construction shall not destroy historic materials that characterize the property. The new work shall be differentiated from the old and shall be compatible with the massing, size, scale, and architectural features to protect the historic integrity of the property and its environment.

with conditions:

> Replace the proposed windows with simulated true divided lites with an exterior wood grill; 2/2 windows will be on the second story with 6/1 on the first story, except for the 1-lite casement window located in the kitchen.

with the general conditions applicable to all Historic Area Work Permits that the applicant shall also present any permit sets of drawings to HPC staff for review and stamping prior to submission for permits and shall arrange for a field inspection by the Montgomery County Department of Permitting Services (DPS), Field Services Office, five days prior to commencement of work, and within two weeks following completion of work.

RETURN TO: DEPARTMENT OF PERMITTING SERVICES
255 ROCKVILLE PIKE, 2nd FLOOR, ROCKVILLE, MD 20850
240/777-6370

DPS - #8

HISTORIC PRESERVATION COMMISSION
301/563-3400

APPLICATION FOR HISTORIC AREA WORK PERMIT

Contact Person: ANNE NORMAN
Daytime Phone No.: (202) 939 3399

Tax Account No.: _____

Name of Property Owner: COLIN & ANNE NORMAN Daytime Phone No.: (202) 939 3399

Address: 7204 SPRUCE AVE. TAKOMA PARK 20912
Street Number / City / State / Zip Code

Contractor: RENEWAL BY ANDERSEN Phone No.: 301 913 0100

Contractor Registration No.: _____

Agent for Owner: _____ Daytime Phone No.: _____

Address: _____

LOCATION OF BUILDING/PREMISE

House Number: 7204 Street: SPRUCE AVENUE

Town/City: TAKOMA PARK Nearest Cross Street: TULIP AVENUE

Lot: Pt. 1 & 2 Block: 8 Subdivision: LIPSCOMB AND EARNEST TRUSTEES' ADDITION TO TAKOMA PARK

Liber: _____ Folio: _____ Parcel: _____

PART ONE: TYPE OF PERMIT ACTION AND USE

1A. CHECK ALL APPLICABLE:

☐ Construct ☐ Extend ☑ Alter/Renovate ☐ A/C ☐ Slab ☐ Room Addition ☐ Porch ☐ Deck ☐ Shed

☐ Move ☐ Install ☐ Wreck/Raze ☐ Solar ☐ Fireplace ☐ Woodburning Stove ☐ Single Family

☐ Revision ☐ Repair ☐ Revocable ☐ Fence/Wall (complete Section 4) ☐ Other: WINDOW REPLACEMENT

1B. Construction cost estimate: $ 5,201

1C. If this is a revision of a previously approved active permit, see Permit # _____

PART TWO: COMPLETE FOR NEW CONSTRUCTION AND EXTEND/ADDITIONS

2A. Type of sewage disposal: 01 ☐ WSSC 02 ☐ Septic 03 ☐ Other: _____

2B. Type of water supply: 01 ☐ WSSC 02 ☐ Well 03 ☐ Other: _____

PART THREE: COMPLETE ONLY FOR FENCE/RETAINING WALL

3A. Height _____ feet _____ inches

3B. Indicate whether the fence or retaining wall is to be constructed on one of the following locations:

☐ On party line/property line ☐ Entirely on land of owner ☐ On public right of way/easement

I hereby certify that I have the authority to make the foregoing application, that the application is correct, and that the construction will comply with plans approved by all agencies listed and I hereby acknowledge and accept this to be a condition for the issuance of this permit.

C.V. Norman. 13 October 2002
Signature of owner or authorized agent / Date

Approved: _____ For Chairperson, Historic Preservation Commission

Disapproved: _____ Signature: _____ Date: _____

Application/Permit No.: 2903369 Date Filed: 10/18/02 Date Issued: _____

Edit 6/21/99

SEE REVERSE SIDE FOR INSTRUCTIONS

(4)

THE FOLLOWING ITEMS MUST BE COMPLETED AND THE REQUIRED DOCUMENTS MUST ACCOMPANY THIS APPLICATION.

1. **WRITTEN DESCRIPTION OF PROJECT**

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   Site and environmental setting, drawn to scale. You may use your plat. Your site plan must include:

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PLEASE STAY WITHIN THE GUIDES OF THE TEMPLATE, AS THIS WILL BE PHOTOCOPIED DIRECTLY ONTO MAILING LABELS.

HAWP APPLICATION: MAILING ADDRESSES FOR NOTICING

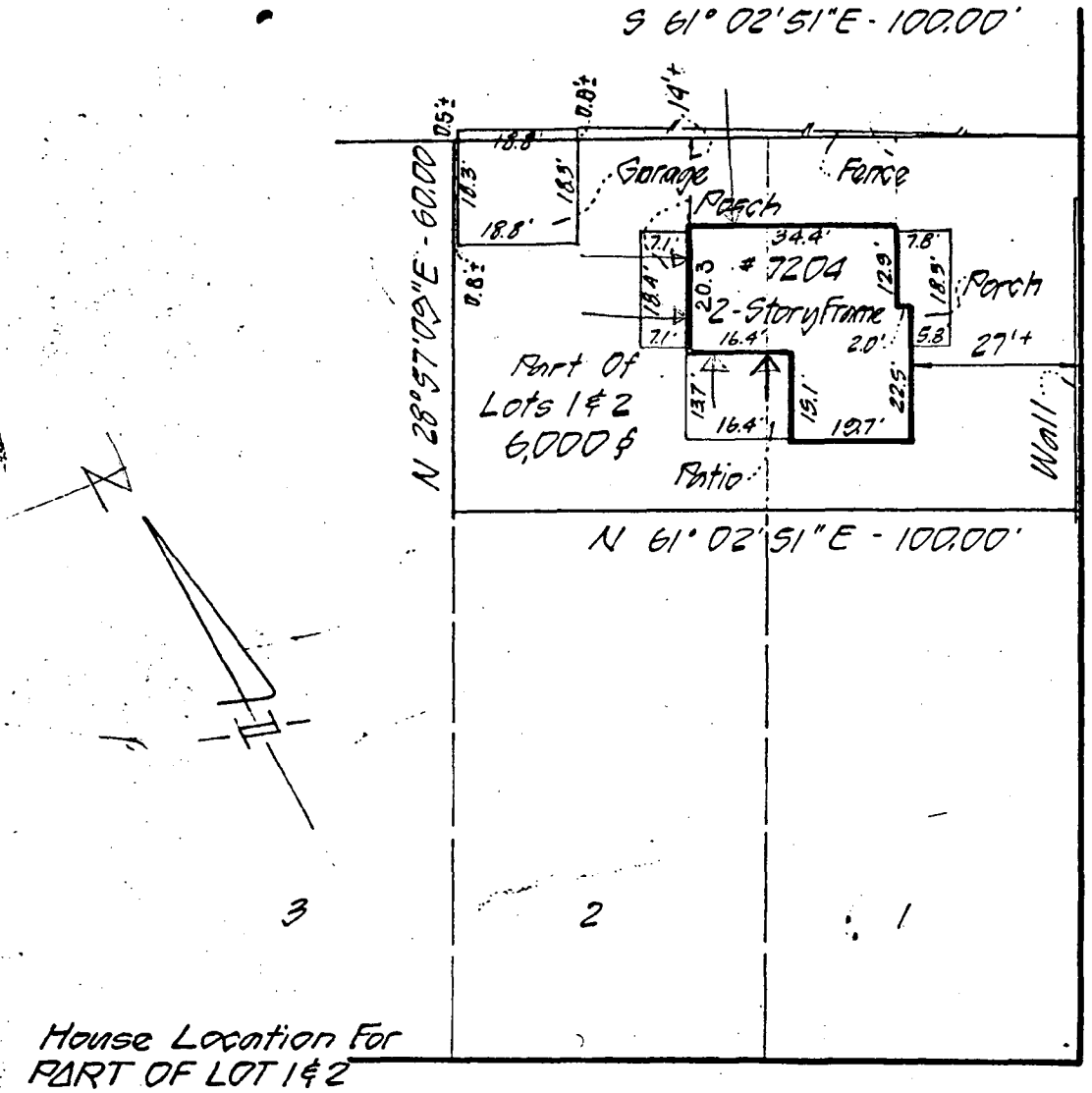
[Owner, Owner's Agent, Adjacent and Confronting Property Owners]

Owner's mailing address	Owner's Agent's mailing address
7204 SPRUCE AVENUE TAKOMA PARK, MD 20912	
Adjacent and confronting Property Owners mailing addresses	
JAMES RETTBERG 408 TULIP AVE TAKOMA PARK, MD 20912	IRIS GORMAN 7206 SPRUCE AVENUE TAKOMA PARK, MD 20912

9 addresses noticing table

NOTE: This survey for titl(poses only – not to be used for determining property lines. Property corner Mark(ot guaranteed by this survey.

LOCATION OF WINDOWS TO BE REPLACED MARKED BY ARROWS



House Location For
PART OF LOT 1 & 2
BLOCK 8
LIPSCOMB & EARNEST, TRUSTEES
ADDITION TO TAKOMA PARK
MONTGOMERY CO., MD

TULIP AVENUE
50'

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THE POSITION OF ALL THE EXISTING IMPROVEMENTS ON THE ABOVE DESCRIBED PROPERTY HAS BEEN CAREFULLY ESTABLISHED BY A TRANSIT-TAPE SURVEY AND THAT UNLESS OTHERWISE SHOWN, THERE ARE NO ENCROACHMENTS.

Jefferson D. Lawrence

JEFFERSON D. LAWRENCE
PROFESSIONAL LAND SURVEYOR
REGISTERED LAND SURVEYOR MARYLAND #5216

REFERENCES	
PLAT BK.	1
PLAT NO.	46
LIBER	
FOLIO	

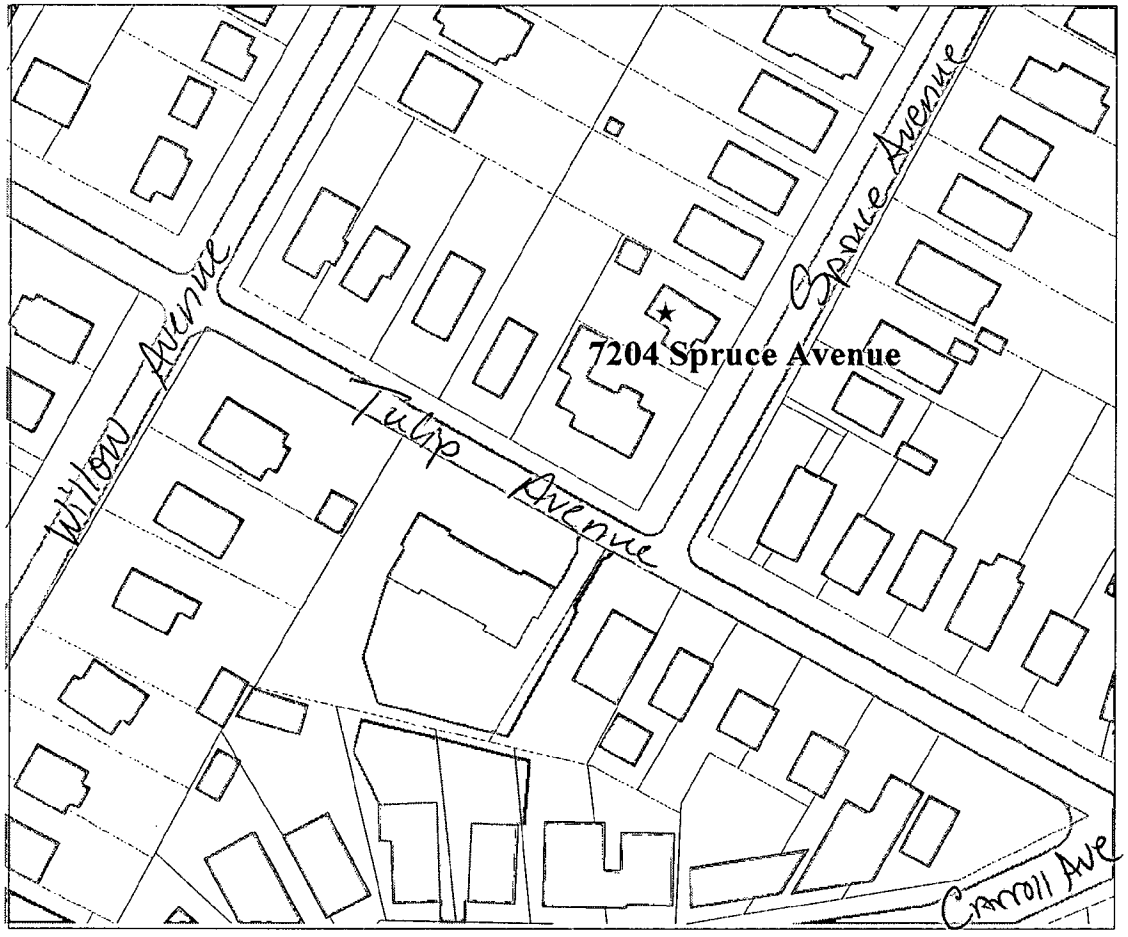
ANDJON ASSOCIATES
PROFESSIONAL LAND SURVEYOR
LAND PLANNING CONSULTANTS
11748 ASHWORTH COURT
(301) 428-0481 GERMANTOWN, MARYLAND 20767

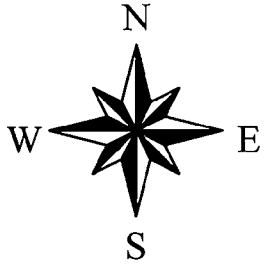
DATE OF SURVEYS	
WALL CHECK:	
HSE. LOC.:	8-4-76
BOUNDARY:	

SCALE: 1" = 30'
DRAWN BY: B.A.
JOB NO.: 01176

(7)

Takoma Park Historic District

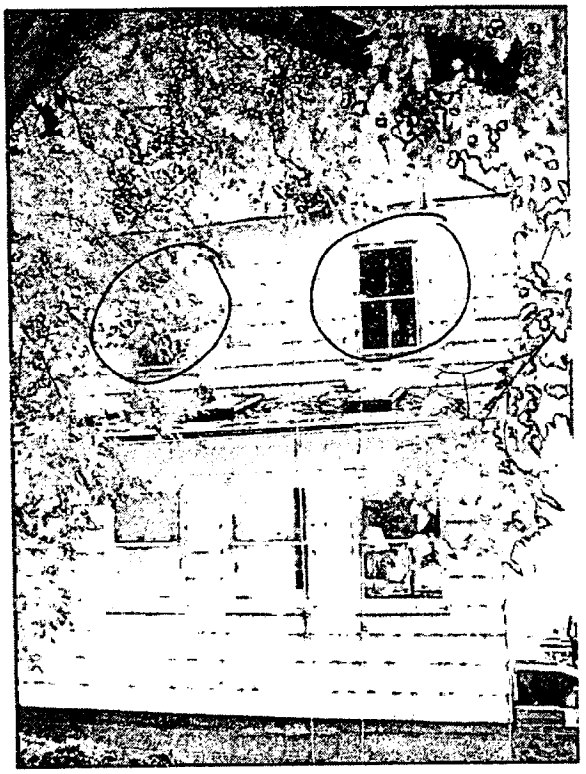




8

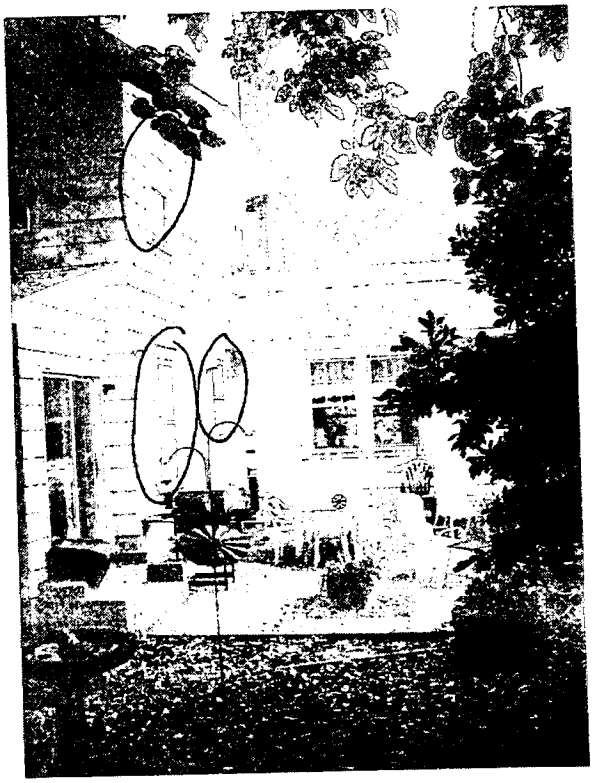
FRONT VIEW

(No replacements planned)



REAR VIEW
(WEST)

NORTH
SIDE
VIEW



SIDE VIEW

(SOUTH)

WINDOWS TO BE REPLACED ARE CIRCLED

SIDE VIEW

(SOUTH)

KITCHEN WINDOWS (both to be replaced) 1 will be a 6/1, ~~non~~ simulated true divided lite with a smaller 1 lite casement window.

Renewal by Andersen®

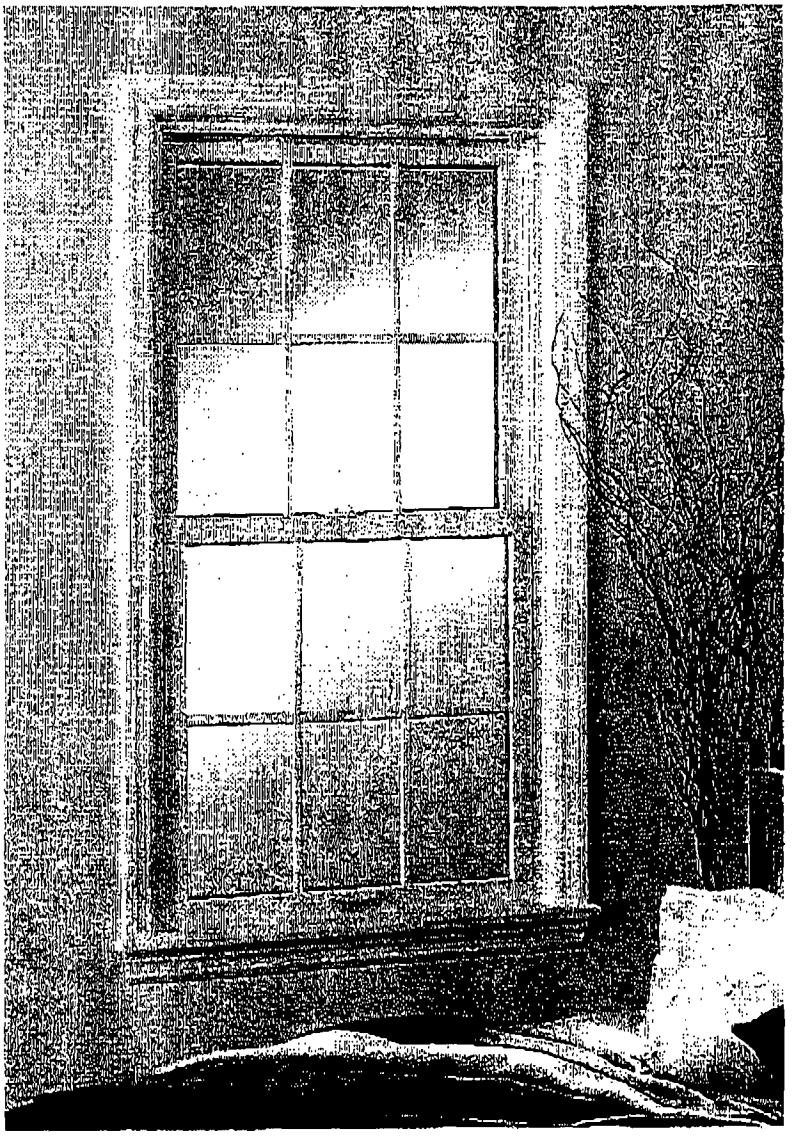
Window and Patio Door Replacement

renewal BY ANDERSEN®

7402 Spruce Avenue, Takoma Park (extra photos)

Double-Hung Replacement Windows

A double-hung window consists of two vertically sliding sash in a single frame. Both sash are counterbalanced by a spring-powered bloc t-and-tackle balance concealed behind side jamb covers. Tilt latches for each ash allow inward tilting for easy cleaning. Upper and lower sash are securely clos d by use of a cam-type sash lock. A full insect screen is installed into the outsid track.



ADVANTAGES

- Both sash can be op rated for ventilation at top and bottom of indow.
- Both sash can be tilte inward for easy cleaning.
- Patented Fibrex™ co posite material is stronger than vinyl, llowing more glass area.
- Fibrex material witl low-maintenance capstock gives a ricl low-luster finish to sash and frame, sim lar to painted wood.
- Smooth radius surfa es on frame and sash are pleasing to the eye nd easier to clean.
- Mortise-and-tenon a pearance on interior sash corners gives a hand crafted traditional look.
- Full-perimeter bulb veatherstrip provides superior weathertig itness while still allowing easy sash operation
- Sash are counterbal nced by a spring-powered block-and tackle balance concealed inside the side jamt and matched to the weight of every sas .

APPLICATIONS

- Excellent choice for l omes and condominiums where traditional sty ng is important; appropriate for man restoration projects.
- Suitable in areas fr ing walkways, decks and other traffic a eas because sash do not project outward.
- Convenient in area where the sash need to be cleaned from th interior.
- Visually compatible with other Renewal by Andersen® product .

renewal BY ANDERSEN

How Windows and Window Componen s are Tested

Several professional, nonpartisan national associations have established test standards to accurately and consistently measure the relatio ıship of products and materials to performance. They include the following:

AAMA/WDMA—American Architectural Manufacturing . ıssociation / Window and Door Manufacturing Association

ANSI—American National Standards Institute

ASTM—American Society of Testing Materials

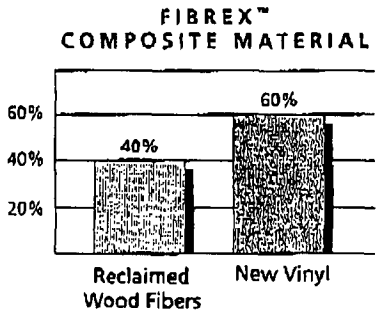
NFRC—National Fenestration Rating Council

CAN / CSA—Canadian Standards Association

CONSUMER

Keep in mind that window manufacturers voluntarily test their products for performance and durability. It's important for customers to look for and ask for specific compliance to established test standards to make sure they are getting accurate, reliable information.
Renewal by Andersen® products are tested thoroughly, and the results are referenced throughout this manual.

Fibrex™ Composite Material



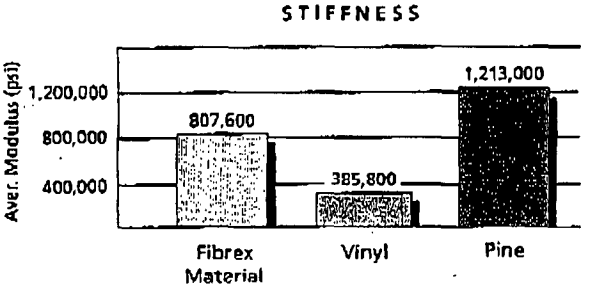
Renewal by Andersen windows are made of our exclusive I brex material. Developed by Andersen, it is a composite blend of reclaim d (not recycled) and new vinyl and wood that provides excellent strength, dural ility and low maintenance.

Window materials are exposed to many atmospheric elem nts such as wind stress, moisture, and temperature extremes. The following lata demonstrates how Fibrex material performs under these elements.

STIFFNESS

Modulus is the scientific term for a material's stiffness. Th higher the number, the stiffer the material. The average modulus for Fibrex m terial is twice the average for vinyl, making it a far more stable and rigid ma erial for windows. And though wood's average stiffness is higher, it is far less ıredictable than Fibrex material since wood possesses natural variations su h as grain, knots, pitch pockets, and moisture content. All of which means e can make our window frames and sash narrower than competitive windo ws gaining more glass area and light from the same size opening.

The graph below demonstrates the superiority of Fibrex mater al over other materials.



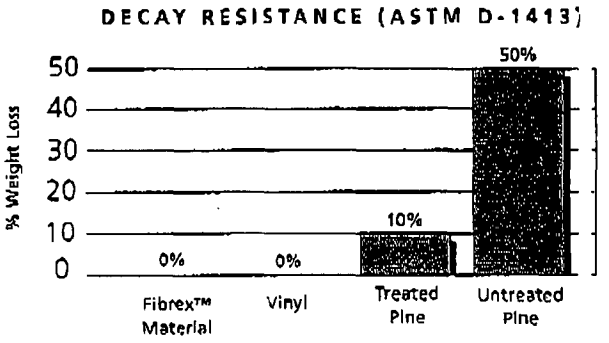
Material Strength. Fibrex material offers excellent long-term stability and durability. The Modulus far surpasses vinyl and approaches that of pine.

DECAY RESISTANCE

Eventually, without maintenance, even treated wood c n be subject to decay. Fortunately, Fibrex™ composite material is not. Our sp cial composite formulation surrounds and coats each wood fiber in th : manufacturing process, providing resistance to rot. And windows made of Fibr x material are warranted not to flake, rust, blister, peel, crack, pit or corrode.*

*See the Limited Warranty for Renewal by Andersen® Products and S vices.

The change in the mass of material is measured accordin to ASTM D-1413, which demonstrates that Fibrex material is comparable to vinyl i resistance to decay.

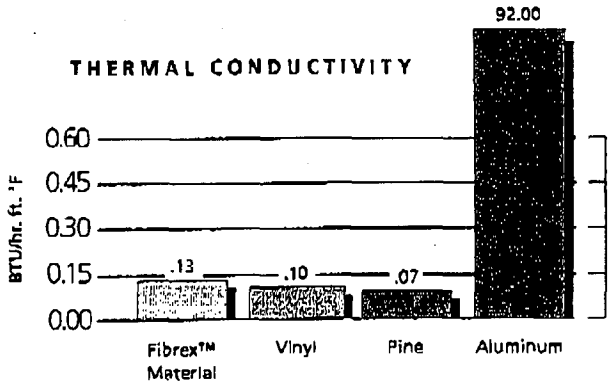


Decay Resistance. Our special polymer formulation surrounds and coats each wood fiber in our Fibrex manufacturing process providing long term resistance to rotting, chipping, peeling, or blistering.

THERMAL CONDUCTIVITY

Fibrex composite material has a very low thermal con uctivity ratio—or in other words, excellent insulating properties—that put it on a par with pine or vinyl. Unlike aluminum, windows made of Fibrex material w ill resist the effects of cold and heat.

Insulating efficiency is measured by the amount of he t transferred or conducted through a material. A lower value means le s transfer and greater insulating efficiency.



Thermal Conductivity. Fibrex material has a very low thermal conductivity ratio - or in other words excellent insulating properties - that put it on par with pine or vinyl.

(16)

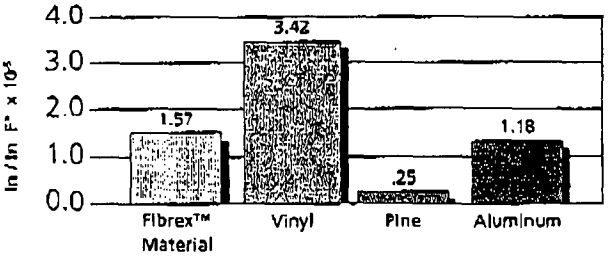
renewal BY ANDERSEN

THERMAL EXPANSION

Thermal expansion is the degree to which a given material expands and contracts with changes in temperature. Pine has a very low thermal expansion rate. With a rate of 1.57, Fibrex™ material, like aluminum expands and contracts very little. Vinyl, however, with a thermal expansion rate of 3.42, may expand and contract markedly, resulting over time in bowing, cracks and, possibly, leakage of air and water. Darkening the color of a material can also increase its surface temperature and make the material more likely to expand. This color change greatly affects vinyl, but does not affect Fibrex material.

In testing expansion rates, the smaller value indicates the least change to the material.

COEFFICIENT OF THERMAL EXPANSION (CTE)



Thermal Expansion. Fibrex material has a very low rate of expansion due to temperature (1.57 x 10^{-5} in/in F°) similar to that of aluminum (1.18 x 10^{-5} in/in F°). Hollow vinyl, however, (3.42 x 10^{-5} in/in F°) expands and contracts markedly, which, over time can result in bowing, cracks, and eventually, leakage of air and water.

Fibrex™ Material

A better alternative, a better window

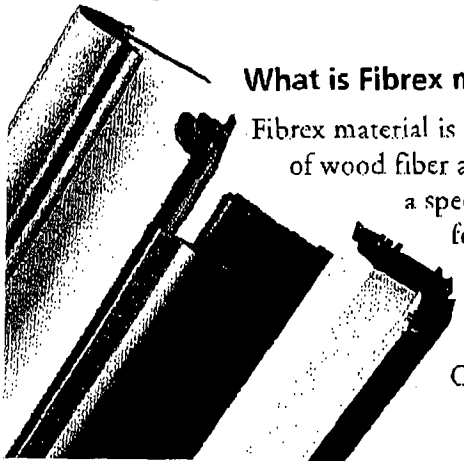
renewal BY ANDERSEN window replacement

Reinventing the window

It used to be that all windows were made of wood. Beautiful, durable, and a great insulator, wood was the material of choice for homeowners. But over the decades, changes in consumer needs led Andersen Corporation to search for new materials with which to make windows. Andersen pioneered the use of vinyl in windows in the 1960s when we introduced our low-maintenance Perma-Shield® cladding for wood windows. Andersen's experience in working with vinyl and in designing windows has led us to recognize the limitations of vinyl.

Introducing Fibrex™ material

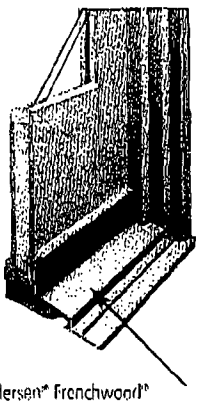
After years of intensive research and development that include over two dozen patents, Andersen introduces Fibrex™ material—a revolutionary composite that combines the strength and stability of wood with the low-maintenance features of vinyl. Revolutionary in every sense of the word, Fibrex material not only consistently performs to exacting specifications, but saves raw materials by utilizing reclaimed wood fiber from our 65-acre Andersen Corporation manufacturing operations in Bayport, Minnesota.



What is Fibrex material?

Fibrex material is a blend of wood fiber and a specially formulated thermoplastic polymer. Over seven years in development, Fibrex material is a whole family of materials—each formulation customized to meet the unique needs of many window products and components. For Renewal by Andersen windows, we incorporate over 40% reclaimed materials from our other window manufacturing operations into the formulation.

The first Fibrex material part used in an Andersen product was the sill support for our Frenchwood® hinged patio door. This part, shown in the photo at right, makes use of 100% reclaimed materials. Incorporated into the patio door in 1993, the Fibrex material sill support has performed exceptionally well in this demanding role.



Andersen® Frenchwood® Hinged Patio Door cross section with a Fibrex material sill support.

The "material" difference

Renewal by Andersen® replacement windows made of Fibrex material offer several clear advantages.

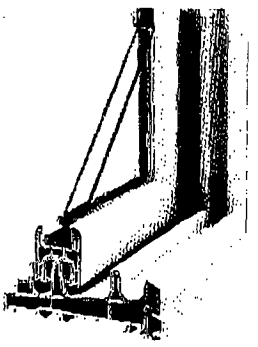
Strength - Because Fibrex material is strong we can make our sash and frames narrower and allow up to 20% more glass area than many competitor's windows.

Insulation - Fibrex material has superior thermal insulating properties which, combined with Andersen High Performance™ glass, help keep your home warmer in winter and cooler in summer.

Low Maintenance - Since Fibrex material never needs scraping or painting, your windows will continue to look beautiful for years to come.

This "material" difference makes Renewal by Andersen windows the best replacement windows you can buy.

"Fibrex™ material is revolutionary in every sense of the word"



Renewal by Andersen Fibrex material Gliding Window corner section.

Engineered Wood

Seeing Increased Industry Demand

Advances in adhesives technology, manufacturing processes, and wood science have led to some significant performance enhancements

By E.L. (Pete) Walker, J.M. Huber Engineered Woods

Advances in materials, designs, and manufacturing have produced a generation of fenestration products that substantially outperform those that were produced as little as 10 years ago. Products are more energy efficient, more durable, more weathertight, more secure, and easier to operate than ever. And, they deliver all of this while requiring less maintenance from the consumer than ever before.

Substantial advances in the materials used in nearly every component of a window, door, or skylight have provided manufacturers the ability to produce this generation of better performing products. Material advances have been made in glass, metals, and plastics. Perhaps nowhere have the changes been more pronounced than in one of the oldest materials used in the industry—wood.

Manufacturers have expanded into a wide variety of species utilized in the production of wood windows and doors. This has been driven by a variety of factors, including the need to maintain quality of supply in the face of greater reliance on new-growth timber, the need to control escalating wood costs, and the desire to produce better-performing, more durable wood window and door products.

Better growing and harvesting methods, combined with improved milling, drying, and treating techniques, have produced some improvements in solid lumber components. Improvements in finger-jointing and adhesives technology have helped improve yields in wood component usage. But perhaps the greatest advances in wood components have been made in the area of engineered wood products.

The idea of somehow improving on wood has been around a long time, perhaps as long as wood itself. Coatings, treatments, and other methods have been employed in a variety of unique ways over the years to accomplish that objective. What is new are the advances made in the last few years in engineered wood products technology.

The concept is simple. Take a piece of wood and "reconfigure" it to deliver a specific set of properties that enhance its performance in one, or several, desi nated areas. Over the years, a variety of methods have be n employed to accomplish this. Everything from simp y gluing two pieces of wood together to enhance strength r achieve a larger dimensional piece to more sophisticat d, multi-layered laminating (plywood, laminated lumber, e :) to increase strength and stiffness, achieve greater : ze, support greater loads, or achieve other specific objecti es.

Today's engineered wood products i enefit from significant advances in adhesives technology, wood forming, content utilization and control, advances i manufacturing techniques and capabilities, and an eve greater understanding in wood science that have pr duced some remarkable performance enhancements. Sign ficant research and development within the industry has c lminated in a wide variety of new products being available not only to window and door manufacturers, but to the fur iture, cabinet, transportation, and construction industries s well.

WHAT ARE ENGINEERED WOOD PRODU CTS?

The term "engineered wood produc s" refers to wood-based products that are combined with various resins, glues, and adhesives to produce solid ood substitutes. "Engineered" implies being designed t meet a specific task. The product is engineered within specific strength and durability parameters to achieve optim im efficiency for a specific end use.

> ➢ An engineered wood prod ict can be manufactured to provide th specific properties you are lookir g for.

Engineered wood products are com osites. They combine a variety of different materials with wood fiber to pro-

duce a product that is as strong or stronger than the traditional material being replaced. Just as different species of wood are recognized as more desirable than others for given jobs, different engineered wood products are designed for specific types of applications.

Engineered wood products encompass a number of product types. One of the larger and better known categories is laminated veneer lumber (LVL). This type of product is used for everything from headers and long laminated wood beams in construction to window jamb parts, door stiles, and other fenestration components. Other engineered wood categories include laminated-strand lumber and oriented-strand lumber, which encompass everything from oriented-strand board (OSB) building panels to structural composite lumber (SCL) products utilized throughout the millwork industry.

This last category of product is finding ever-increasing use in the residential construction industry and industrial markets (including millwork applications), where it has become the product of choice, largely replacing plywood in many applications.

What distinguishes an engineered wood product from other manufactured wood products such as MDF (medium density fiberboard) and particle board is that engineered wood products are designed/engineered/produced to provide certain structural properties, while the basic manufactured wood products have little or no true structural characteristics. They [redacted] merely woo fibers pressed together with resins to form a board or ther shaped product. While these types of manufactured w od products have applications in the fenestration indus y, their lack of strength limits their utility as a solid wood eplacement.

BENEFITS FOR MANUFACTURE IS

Why would a manufacturer se an engineered wood product? What benefits do the provide? An engineered wood product can be produce l (engineered) to deliver a specific set of properties. Say ou wanted greater stiffness, enhanced screw-holding capal ilities, greater water resistance, enhanced dimensional s ability, more flexibility, or other specific properties. An gineered wood product can be manufactured to provide th specific properties you are looking for in your componen and finished product.

Because engineered wood p roducts are a manufactured product, they can be made to pecific sizes, densities, etc. They also can provide consist ot product quality and uniformity with no low-density pock ts, core voids, or defects common to conventional lum er and plywood products. This provides the manufactur r with improved yields and greatly reduced waste, as virtu lly 100 percent of the product is usable.

Depending on the product nd the manufacturer, engineered wood can deliver the l est of wood's qualities, such as easy machining, strength, a d screw-holding capability.

FRONT VIEW

(No replacements planned)

SIDE VIEW

(SOUTH)

WINDOWS TO BE REPLACED ARE CIRCLED

SIDE VIEW

(SOUTH)

KITCHEN WINDOWS (both to be replaced)

REAR VIEW
(WEST)

NORTH
SIDE
VIEW