

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK
CITY OF PORTLAND

Please Read
Application And
Notes, If Any,
Attached

BUILDING INSPECTION

PERMIT

Permit Number: 080658

PERMIT ISSUED

JUN 24 2008

CITY OF PORTLAND

This is to certify that MICHAUD MICHAEL P & JAY E MICHAUD ITS/Mike Michaud

has permission to ammendment to permit #06-13 change footprint style of house

AT 38 KINEG ST 160 E021001

provided that the person or persons firm or corporation accepting this permit shall comply with all of the provisions of the Statutes of the State and of the Ordinances of the City of Portland regulating the construction, maintenance and use of buildings and structures, and of the application on file in this department.

Apply to Public Works for street line and grade if nature of work requires such information.

Notification of inspection must be given and when permission procured before this building or part thereof is loaded or closed-in. 4 HOUR NOTICE IS REQUIRED.

A certificate of occupancy must be procured by owner before this building or part thereof is occupied.

OTHER REQUIRED APPROVALS

Fire Dept. _____
 Health Dept. _____
 Appeal Board _____
 Other _____
Department Name

Cheryl M. - 6/23/08
 Director - Building & Inspection Services

PENALTY FOR REMOVING THIS CARD

City of Portland, Maine - Building or Use Permit Application

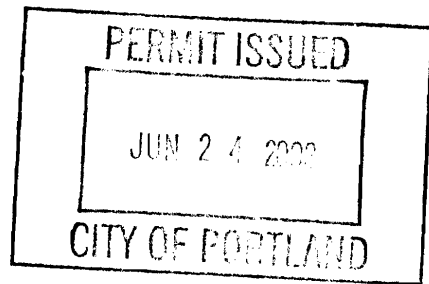
389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No: 08-0658	Issue Date: <i>6/23/08</i>	CBL: 160 E021001
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Location of Construction: 38 KINEO ST	Owner Name: MICHAUD MICHAEL P & JOY E	Owner Address: 8 FERNALD TER	Phone:
Business Name:	Contractor Name: Mike Michaud	Contractor Address: 8 Fernald Terrace Portland	Phone: 2078317427
Lessee/Buyer's Name	Phone:	Permit Type: Amendment to Single Family	Zone: R-3
Past Use: Vacant Land / Single Family Home - see permit#06183	Proposed Use: Vacant Land / Single Family Home - see permit#06183 - ammendment to permit #061583 change footprint & style of house	Permit Fee: \$30.00	Cost of Work: \$30.00
Proposed Project Description: ammendment to permit #061583 change footprint & style of house		FIRE DEPT: <input type="checkbox"/> Approved <input type="checkbox"/> Denied	INSPECTION: Use Group: <i>R-3</i> Type: <i>5B</i> <i>IDL - 2007</i>
		Signature:	Signature: <i>6/23/08 CM</i>
PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)			
Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied			
		Signature:	Date:

Permit Taken By: Idobson	Date Applied For: 06/12/2008
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Zoning Approval		
Special Zone or Reviews	Zoning Appeal	Historic Preservation
<input type="checkbox"/> Shoreland <i>N/A</i>	<input type="checkbox"/> Variance	<input checked="" type="checkbox"/> Not in District or Landmark
<input type="checkbox"/> Wetland <i>N/A</i>	<input type="checkbox"/> Miscellaneous	<input type="checkbox"/> Does Not Require Review
<input type="checkbox"/> Flood Zone <i>panel 7 - zone X</i>	<input type="checkbox"/> Conditional Use	<input type="checkbox"/> Requires Review
<input type="checkbox"/> Subdivision	<input type="checkbox"/> Interpretation	<input type="checkbox"/> Approved
<input type="checkbox"/> Site Plan <i>2006-0211</i>	<input type="checkbox"/> Approved	<input type="checkbox"/> Approved w/Conditions
Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input checked="" type="checkbox"/>	<input type="checkbox"/> Denied	<input type="checkbox"/> Denied
<i>OK w/ conditions</i> Date: <i>6/19/08</i> <i>ABM</i>	Date:	Date: <i>ABM</i>



CERTIFICATION

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT	ADDRESS	DATE	PHONE
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE		DATE	PHONE

BUILDING PERMIT INSPECTION PROCEDURES

Please call 874-8703 or 874-8693 (ONLY)

to schedule your inspections as agreed upon

Permits expire in 6 months, if the project is not started or ceases for 6 months.

The Owner or their designee is required to notify the inspections office for the following inspections and provide adequate notice. Notice must be called in 48-72 hours in advance in order to schedule an inspection:

By initializing at each inspection time, you are agreeing that you understand the inspection procedure and additional fees from a "Stop Work Order" and "Stop Work Order Release" will be incurred if the procedure is not followed as stated below.

A Pre-construction Meeting will take place upon receipt of your building permit.

 X **Footing/Building Location Inspection: Prior to pouring concrete or setting precast piers**

 X **Foundation Inspection: Prior to placing ANY backfill for below grade occupiable space**


 X **Framing/Rough Plumbing/Electrical: Prior to Any Insulating or drywalling**

 X **Final/Certificate of Occupancy: Prior to any occupancy of the structure or use.**
NOTE: There is a \$75.00 fee per inspection at this point.

Certificate of Occupancy is not required for certain projects. Your inspector can advise you if your project requires a Certificate of Occupancy. All projects DO require a final inspection.


If any of the inspections do not occur, the project cannot go on to the next phase, REGARDLESS OF THE NOTICE OR CIRCUMSTANCES.

CERIFICATE OF OCCUPANICES MUST BE ISSUED AND PAID FOR, BEFORE THE SPACE MAY BE OCCUPIED.



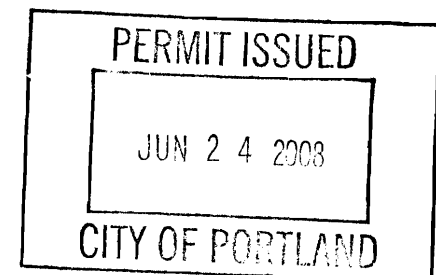
Signature of Applicant/Designee

6/24/08
Date



Signature of Inspections Official

6-24-08
Date





General Building Permit Application

If you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

Location/Address of Construction: <u>38 Kineo St.</u>		
Total Square Footage of Proposed Structure/Area <u>2484 Living area finished</u>		Square Footage of Lot <u>22,079</u>
Tax Assessor's Chart, Block & Lot Chart# <u>160</u>	Block# <u>G</u> <u>E</u>	Lot# <u>1-6</u> <u>21-27</u>
Applicant * must be owner, Lessee or Buyer * Name <u>Mike Michaud</u> Address <u>8 Fernald Terr</u> City, State & Zip <u>Portland ME 04103</u>		Telephone: <u>207 831-7427</u>
Lessee/DBA (If Applicable)	Owner (if different from Applicant) Name <u>SAME</u> Address <u>SAME</u> City, State & Zip	Cost Of Work: \$ _____ C of O Fee: \$ _____ Total Fee: \$ _____
Current legal use (i.e. single family) <u>Vacant Land</u> If vacant, what was the previous use? _____ Proposed Specific use: <u>Single Family home</u> Is property part of a subdivision? <u>yes</u> If yes, please name <u>wellwood</u> <u>3 Bedrooms</u> Project description: <u>1500's</u> <u>one single family home with two car garage</u> <u>Contemporary Cape style - Amendment from original permit app.</u> <u>Changed footprint & style of home</u>		
Contractor's name: <u>Mike Michaud</u>		
Address: <u>8 Fernald Terr</u>		
City, State & Zip: <u>Portland ME 04103</u>		Telephone: <u>207 831-7427</u>
Who should we contact when the permit is ready: <u>Mike Michaud</u>		Telephone: <u>207 831-7427</u>
Mailing address: <u>8 Fernald Terr Portland ME 04103</u>		

Please submit all of the information outlined on the applicable Checklist. Failure to do so will result in the automatic denial of your permit.

In order to be sure the City fully understands the full scope of the project, the Planning and Development Department may request additional information prior to the issuance of a permit. For further information or to download copies of this form and other applications visit the Inspections Division on-line at www.portlandmaine.gov, or stop by the Inspections Division office, room 315 City Hall or call 874-8703.

I hereby certify that I am the Owner of record of the named property, or that the owner of record authorizes the proposed work and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.

Signature: [Signature] Date: 6/6/08

This is not a permit; you may not commence ANY work until the permit is issue

City of Portland, Maine - Building or Use Permit

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No: 08-0658	Date Applied For: 06/12/2008	CBL: 160 E021001
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Location of Construction: 38 KINEO ST	Owner Name: MICHAUD MICHAEL P & JOY E	Owner Address: 8 FERNALD TER	Phone:
Business Name:	Contractor Name: Mike Michaud	Contractor Address: 8 Fernald Terrace Portland	Phone: (207) 831-7427
Lessee/Buyer's Name	Phone:	Permit Type: Amendment to Single Family	

Proposed Use: Vacant Land / Single Family Home - ammendment to permit #061583 change footprint & style of house	Proposed Project Description: ammendment to permit #061583 change footprint & style of house
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Dept: Zoning **Status:** Approved with Conditions **Reviewer:** Ann Machado **Approval Date:** 06/19/2008

Note: **Ok to Issue:**

- 1) As discussed during the review process, the property must be clearly identified prior to pouring concrete and compliance with the required setbacks must be established. Due to the proximity of the setbacks of the proposed structure, it may be required to be located by a surveyor.
- 2) With the issuance of this permit and the certificate of occupancy, this property shall remain a single family dwelling. Any change of use shall require a separate permit application for review and approval.
- 3) This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that work.

Dept: Building **Status:** Approved with Conditions **Reviewer:** Chris Hanson **Approval Date:**

Note: **Ok to Issue:**

- 1) There must be a 2" clearance maintained between the chimney and any combustible material, with draft stopping per code at each level
- 2) As discussed during the review process, ballusters must be spaced with less than a 4" opening between each.
- 3) Hardwired interconnected battery backup smoke detectors shall be installed in all bedrooms, protecting the bedrooms, and on every level.
- 4) The design load spec sheets for any engineered beam(s) / Trusses must be submitted to this office.
- 5) A copy of the enclosed chimney or fireplace disclosure must be submitted to this office upon completion of the permitted work or for the Certificate of Occupancy.
- 6) Permit approved based on the plans submitted and reviewed w/owner/contractor, with additional information as agreed on and as noted on plans.
- 7) Separate permits are required for any electrical, plumbing, or HVAC systems. Separate plans may need to be submitted for approval as a part of this process.

Dept: DRC **Status:** Approved with Conditions **Reviewer:** Philip DiPierro **Approval Date:** 03/06/2008

Note: **Ok to Issue:**

- 1) Erosion and Sedimentation control shall be established and inspected by the Development Review Coordinator prior to soil disturbance, and shall be done in accordance with Best Management Practices, Maine Department of Environmental Protection Technical and Design Standards and Guidelines. All Erosion and Sedimentation control measures must be inspected and maintained daily.
- 2) The Development Review Coordinator reserves the right to require additional lot grading or other drainage improvements as necessary due to field conditions.
- 3) As-built record information for sewer and stormwater service connections must be submitted to Public Works Engineering Section (55 Portland Street) and approved prior to issuance of a Certificate of Occupancy.
- 4) A street opening permit(s) is required for your site. Please contact Carol Merritt ay 874-8300, ext. 8822. (Only excavators licensed by the City of Portland are eligible.)

Location of Construction: 38 KINEO ST	Owner Name: MICHAUD MICHAEL P & JOY E	Owner Address: 8 FERNALD TER	Phone:
Business Name:	Contractor Name: Mike Michaud	Contractor Address: 8 Fernald Terrace Portland	Phone (207) 831-7427
Lessee/Buyer's Name	Phone:	Permit Type: Amendment to Single Family	

- 5) A sewer permit is required for your project. Please contact Carol Merritt at 874-8300, ext . 8822. The Wastewater and Drainage section of Public Works must be notified five (5) working days prior to sewer connection to schedule an inspector for your site.
- 6) All damage to sidewalk, curb, street, or public utilities shall be repaired to City of Portland standards prior to issuance of a certificate of occupancy.
- 7) Two (2) City of Portland approved species and size trees must be planted on your street frontage prior to issuance of a Certificate of Occupancy.
- 8) All Site work (final grading, landscaping, loam and seed) must be completed prior to issuance of a certificate of occupancy.

Dept: Planning **Status:** Approved with Conditions **Reviewer:** Jean Fraser **Approval Date:** 03/07/2008
Note: **Ok to Issue:**

Location of Construction: 38 KINEO ST	Owner Name: MICHAUD MICHAEL P & JOY E	Owner Address: 8 FERNALD TER	Phone:
Business Name:	Contractor Name: Mike Michaud	Contractor Address: 8 Fernald Terrace Portland	Phone (207) 831-7427
Lessee/Buyer's Name	Phone:	Permit Type: Amendment to Single Family	

1)

March 12, 2008

Mike Michaud
Caterins MacLean Group
Keller Williams Realty
49 Dartmouth St
Portland, ME 04101 Michael and Joy Michaud
8 Fernald Terrace
Portland, ME 04103

RE: Petition for layout and dedication of an extension of Kineo Street
 Section 25 Street Layout, Acceptance Authorization and Acceptance of Land
 and
Single Family House Application # 2006-0211 vicinity Dudley Street

CBL: 160 E 021 001

Dear Michael and Joy Michaud,

On February 25, 2008, the City Council approved (9-0) the layout and dedication of land for the purpose of extending Kineo Street 84 feet towards Dudley Street as shown on the approved plans dated January 28, 2008. The approval also included the street acceptance authorization and acceptance of the land, as described in the Council Order 151-07/08 attached.

The street extension approval comprised (based on the report to the Council):

- 1) The City Council accepts the dedication of the Kineo Street extension, to a point, while accepting the remainder of the land in fee (without dedicating it as a street at this time); and
- 2) The City Council authorizes the acceptance of a warranty deed to the dedicated portion of street, and an acceptance of the land as a City Street, once it has been installed to City standards and the satisfaction of the Public Works Department; and
- 3) The City Council accepts the remainder of the land, by warranty deed, and in fee interest so that a) a public pedestrian easement may be built thereon by the Michauds and b) the City would own the land in the event the City decides to have the street connected through to Dudley in the future.

On March 7, 2008 the Portland Planning Authority approved the associated minor site plan for a single family house on Lot 1 (the northernmost of the two lots created by the street extension that also front the paper street known as Dudley Street).

The approvals relate to the approved plans prepared by Back Bay Boundary Sheets 1-6 Revision 7 and are subject to the following conditions:

Location of Construction: 38 KINEO ST	Owner Name: MICHAUD MICHAEL P & JOY E	Owner Address: 8 FERNALD TER	Phone:
Business Name:	Contractor Name: Mike Michaud	Contractor Address: 8 Fernald Terrace Portland	Phone (207) 831-7427
Lessee/Buyer's Name	Phone:	Permit Type: Amendment to Single Family	

1. All Site work (final grading, landscaping, loam and seed) must be completed prior to issuance of a Certificate of Occupancy.
2. Two (2) City of Portland approved species and size trees must be planted on your street frontage prior to issuance of a Certificate of Occupancy.
3. All damage to sidewalk, curb, street, or public utilities shall be repaired to City of Portland standards prior to issuance of a Certificate of Occupancy.
4. As-built record information for sewer and stormwater service connections must be submitted to Public Works Engineering Section (55 Portland Street) and approved prior to issuance of a Certificate of Occupancy.
5. The Development Review Coordinator reserves the right to require additional lot grading or other drainage improvements as necessary due to field conditions.
6. Erosion and Sedimentation control shall be established and inspected by the Development Review Coordinator prior to soil disturbance, and shall be done in accordance with Best Management Practices, Maine Department of Environmental Protection Technical and Design Standards and Guidelines. All Erosion and Sedimentation control measures must be inspected and maintained daily.
7. A sewer permit is required for your project. Please contact Carol Merritt at 874-8300, ext . 8822. The Wastewater and Drainage section of Public Works must be notified five (5) working days prior to sewer connection to schedule an inspector for your site.
8. A street opening permit(s) is required for your site. Please contact Carol Merritt ay 874-8300, ext. 8822. (Only excavators licensed by the City of Portland are eligible.)

The approvals are based on the submitted plans. If you need to make any modifications to the approved plans, you must submit a revised plan for staff review and approval.

Please note the following provisions and requirements for all site plan approvals:

1. The above approvals do not constitute approval of building plans, which must be reviewed and approved by the City of Portland's Inspection Division
2. Final sets of plans shall be submitted digitally to the Planning Division, on a CD or DVD, in AutoCAD format (*.dwg), release AutoCAD 2005 or greater.
3. A performance guarantee covering the site improvements as well as an inspection fee payment of 2.0% of the guarantee amount and 7 final sets of plans must be submitted to and approved by the Planning Division and Public Works prior to the release of the building permit. If you need to make any modifications to the approved site plan, you must submit a revised site plan for staff review and approval.
4. The site plan approval will be deemed to have expired unless work in the development has commenced within one (1) year of the approval or within a time period agreed upon in writing by the City and the applicant. Requests to extend approvals must be received before the expiration date.
5. A defect guarantee, consisting of 10% of the performance guarantee, must be posted before the performance guarantee will be released.
6. Prior to construction, a pre-construction meeting shall be held at the project site with the contractor, development review coordinator, Public Work's representative and owner to review the construction schedule and critical aspects of the site work. At that time, the site/building contractor shall provide three (3) copies of a detailed construction schedule to the attending City representatives. It shall be the contractor's responsibility to arrange a mutually agreeable time for the pre-construction meeting.

The Development Review Coordinator must be notified five (5) working days prior to date required for final site inspection. The

Location of Construction: 38 KINEO ST	Owner Name: MICHAUD MICHAEL P & JOY E	Owner Address: 8 FERNALD TER	Phone:
Business Name:	Contractor Name: Mike Michaud	Contractor Address: 8 Fernald Terrace Portland	Phone (207) 831-7427
Lessee/Buyer's Name	Phone:	Permit Type: Amendment to Single Family	

Development Review Coordinator can be reached at the Planning Division at 874-8632. Please make allowances for completion of site plan requirements determined to be incomplete or defective during the inspection. This is essential as all site plan requirements must be completed and approved by the Development Review Coordinator prior to issuance of a Certificate of Occupancy. Please schedule any property closing with these requirements in mind.

If there are any questions, please contact Jean Fraser at 874 8728 or jf@portlandmaine.gov. or Phil DiPierro at 874 8632 or PD@portlandmaine.gov.

Sincerely,

Alexander Jaegerman
Planning Division Director

Attachment: Council Order 151-07/08

Electronic Distribution:

Lee D. Urban, Planning & Development Dept. Director
 Alexander Jaegerman, Planning Division Director
 Barbara Barhydt, Development Review Services Manager
 Jean Fraser, Planner
 Philip DiPierro, Development Review Coordinator
 Marge Schmuckal, Zoning Administrator
 Jeanie Bourke, Inspections Division
 Lisa Danforth, Administrative Assistant
 Michael Bobinsky, Public Works Director
 Kathi Earley, Public Works
 Mike Farmer, Public Works
 Bill Clark, Public Works
 Jim Carmody, City Transportation Engineer
 Captain Greg Cass, Fire Prevention
 Jeff Tarling, City Arborist
 Assessor's Office
 Approval Letter File

Hard Copy: Project File

Comments:

6/18/2008-jmb: An additional \$300 will be charged for staff review as this is a new building footprint and design.

6/18/2008-amachado: Spoke to Michael Michaud. Told him about the \$300 fee. Told him that the rear of the house did not meet the 20' side setback on a side street. Told him that the size of the deck and the bulkhead on the plot plan don't match the size of the two on the building plans.

6/19/2008-amachado: Received revised siteplan.

38 Kines
160-E-021 801

ONE AND TWO FAMILY	PLAN REVIEW	CHECKLIST
Soil type/Presumptive Load Value (Table R401.4.1)		
Component	Submitted Plan	Findings/Revisions/Dates
STRUCTURAL		
Footing Dimensions/Depth (Table R403.1 & R403.1(1), (Section R403.1 & R403.1.4.1)	12'x24'	
Foundation Drainage, Fabric, Damp proofing (Section R405 & R406)	✓ O.K. Typ.	
Ventilation/Access (Section R408.1 & R408.3) Crawls Space ONLY	N/A.	
Anchor Bolts/Straps, spacing (Section R403.1.6)	40 C 12" from Corners.	
Lally Column Type (Section R407)	3 1/2" Steel	
Girder & Header Spans (Table R 502.5(2))	3 (2x12) ✓	
Built-Up Wood Center Girder Dimension/Type	3 (2x12) 6"	
Sill/Band Joist Type & Dimensions	2x12	
First Floor Joist Species Dimensions and Spacing (Table R502.3.1(1) & Table R502.3.1(2))	2x12 16 O.C.	
Second Floor Joist Species Dimensions and Spacing (Table R502.3.1(1) & Table R502.3.1(2))	2x12 16 O.C.	
Attic or additional Floor Joist Species Dimensions and Spacing (Table R802.4(1) and	2x10 collar tie. 16 O.C.	

Factor Fenestration	.32	
Type of Heating System	U/W	
Means of Egress (Sec R311 & R312)		
Basement	1 stair w/ Bulkhead OK ✓	
Number of Stairways	✓	
Interior	✓	
Exterior	N/A	
Treads and Risers (Section R311.5.3)	7 3/4" max 10 min. ✓	
Width (Section R311.5.1)	36" ✓	
Headroom (Section R311.5.2)	6-8 ✓	
Guardrails and Handrails (Section R312 & R311.5.6 - R311.5.6.3)	Deck 42" ✓	
Smoke Detectors (Section R313) Location and type/Interconnected		
Dwelling Unit Separation (Section R317) and IBC - 2003 (Section 1207)		
Deck Construction (Section R502.2.1)	OK. per Deck frame detail	

2x10 wood deck

R802.4(2))		
Pitch, Span, Spacing & Dimension (Table R802.5.1(1) - R 802.5.1(8)) Roof Rafter; Framing & Connections (Section R802.3 & R802.3.1)	12/12 2x12 16. o. c.	
Sheathing; Floor, Wall and roof (Table R503.2.1.1(1))	✓	
Fastener Schedule (Table R602.3(1) & (2))	✓	
Private Garage (Section R309) Living Space ? <i>Yes</i> (Above or beside)	1 hr. walls + ceiling.	✓
Fire separation (Section R309.2)		
Opening Protection (Section R309.1)		
Emergency Escape and Rescue Openings (Section R310)	egress windows in	Bedroom ✓
Roof Covering (Chapter 9)		
Safety Glazing (Section R308)	W05 - Bathroom	
Attic Access (Section R807)	22x30	
Chimney Clearances/Fire Blocking (Chap. 10)	2"	
Header Schedule (Section 502.5(1) & (2))	✓	
Energy Efficiency (N1101.2.1) R-Factors of Walls, Floors, Ceilings, Building Envelope, U-	✓	

Applicant: Michael Michael

Date: 6/17/08

Address: 38 Kline St.

C-B-L: 160-E-021
permit 08-0657 (amend permit 06-1583)

CHECK-LIST AGAINST ZONING ORDINANCE

Date - new single family home

Zone Location - ~~B-2~~ R-3

Interior or corner lot

Proposed Use/Work - ~~new~~ build new 2 story single family 32' x 30' w/ attached garage 24' x 26'

Sevage Disposal - city

Lot Street Frontage - 50' min - 79.00' given

Front Yard - 25' min - ~~58' scaled~~ - 61' scaled

Rear Yard - 25' min - 69' scaled - 86' scaled

* Side Yard - 2 stories 14' min - ~~17' scaled~~ 18' scaled
< side yard on side street - 20' - ~~17' scaled~~ 21' scaled

Projections - deck 14 x 12, bulkhead 5 x 8

Width of Lot - 65' min - 95' scaled

Height - 35' max - 24.5'

Lot Area - 6,500 sq ft min - 22,079.7 sq ft given

Lot Coverage Impervious Surface - 35% = 7727.9 sq ft

$$\begin{aligned} 32 \times 30 &= 960 \\ 24 \times 26 &= 624 \\ 14 \times 12 & \\ 5 \times 8 &= 40 \end{aligned}$$

Area per Family - 6,500 sq ft

Off-street Parking - 2 spaces required - 2 car garage. OK!

Loading Bays - N/A

Site Plan - minor/minor 2006 - 0211

Shoreland Zoning/ Stream Protection - N/A

Flood Plains - panel 7 - zone X

**CITY OF PORTLAND, MAINE
DEVELOPMENT REVIEW APPLICATION
PLANNING DEPARTMENT PROCESSING FORM
Zoning Copy**

2006-0211

Application I. D. Number

Michaud Michael P &

Applicant

8 Fernald Ter , Portland , ME 04103

Applicant's Mailing Address

Mike Michaud

Consultant/Agent

Agent Ph: (207)831-7427

Agent Fax:

Applicant or Agent Daytime Telephone, Fax

Marge Schmuckal

10/30/2006

Application Date

Lefever Michaud /Kineo St

Project Name/Description

Dudley St, Portland, Maine 38 Kineo St,

Address of Proposed Site

160 E021001

Assessor's Reference: Chart-Block-Lot

Proposed Development (check all that apply): New Building Building Addition Change Of Use Residential Office Retail
 Manufacturing Warehouse/Distribution Parking Lot Apt 0 Condo 0 Other (specify) _____

Proposed Building square Feet or # of Units

Acreage of Site

Zoning

Check Review Required:

- Site Plan (major/minor) Zoning Conditional - PB Subdivision # of lots _____
 Amendment to Plan - Board Review Zoning Conditional - ZBA Shoreland Historic Preservation DEP Local Certification
 Amendment to Plan - Staff Review Zoning Variance Flood Hazard Site Location
 After the Fact - Major Stormwater Traffic Movement Other _____
 After the Fact - Minor PAD Review 14-403 Streets Review

Fees Paid: Site Plan \$50.00 Subdivision _____ Engineer Review \$250.00 Date 10/30/2006

Zoning Approval Status:

Reviewer _____

- Approved** **Approved w/Conditions** **Denied**
 See Attached

Approval Date _____ Approval Expiration _____ Extension to _____ Additional Sheets Attached

Condition Corripliance _____
 signature _____ date _____

Performance Guarantee **Required*** **Not Required**

* No building permit may be issued until a performance guarantee has been submitted as indicated below

- Performance Guarantee Accepted _____
 date _____ amount _____ expiration date _____
- Inspection Fee Paid _____
 date _____ amount _____
- Building Permit Issue _____
 date _____
- Performance Guarantee Reduced _____
 date _____ remaining balance _____ signature _____
- Temporary Certificate of Occupancy _____
 date _____ Conditions (See Attached) _____ expiration date _____
- Final Inspection _____
 date _____ signature _____
- Certificate Of Occupancy _____
 date _____
- Performance Guarantee Released _____
 date _____ signature _____
- Defect Guarantee Submitted _____
 submitted date _____ amount _____ expiration date _____
- Defect Guarantee Released _____
 date _____ signature _____

Location of Construction: 38 Kineo St	Owner Name: MICHAUD MICHAEL P & JOY E	Owner Address: 8 FERNALD TER	Phone:
Business Name:	Contractor Name: Lefever Michaud	Contractor Address: 200 Riverside Industrial Parkw Portlan	Phone (207) 831-7427
Lessee/Buyer's Name	Phone:	Permit Type: Single Family	

- 7) Two (2) City of Portland approved species and size trees must be planted on your street frontage prior to issuance of a Certificate of Occupancy.
- 8) All Site work (final grading, landscaping, loam and seed) must be completed prior to issuance of a certificate of occupancy.

Dept: Planning **Status:** Approved with Conditions **Reviewer:** Jean Fraser **Approval Date:** 03/07/2008
Note: **Ok to Issue:**

Location of Construction: 38 Kineo St	Owner Name: MICHAUD MICHAEL P & JOY E	Owner Address: 8 FERNALD TER	Phone:
Business Name:	Contractor Name: Lefever Michaud	Contractor Address: 200 Riverside Industrial Parkw Portlan	Phone (207) 831-7427
Lessee/Buyer's Name	Phone:	Permit Type: Single Family	

1)

March 12, 2008

Mike Michaud
Caterins MacLean Group
Keller Williams Realty
49 Dartmouth St
Portland, ME 04101 Michael and Joy Michaud
8 Fernald Terrace
Portland, ME 04103

RE: Petition for layout and dedication of an extension of Kineo Street
 Section 25 Street Layout, Acceptance Authorization and Acceptance of Land
 and
Single Family House Application # 2006-0211 vicinity Dudley Street

CBL: 160 E 021 001

Dear Michael and Joy Michaud,

On February 25, 2008, the City Council approved (9-0) the layout and dedication of land for the purpose of extending Kineo Street 84 feet towards Dudley Street as shown on the approved plans dated January 28, 2008. The approval also included the street acceptance authorization and acceptance of the land, as described in the Council Order 151-07/08 attached.

The street extension approval comprised (based on the report to the Council):

- 1) The City Council accepts the dedication of the Kineo Street extension, to a point, while accepting the remainder of the land in fee (without dedicating it as a street at this time); and
- 2) The City Council authorizes the acceptance of a warranty deed to the dedicated portion of street, and an acceptance of the land as a City Street, once it has been installed to City standards and the satisfaction of the Public Works Department; and
- 3) The City Council accepts the remainder of the land, by warranty deed, and in fee interest so that a) a public pedestrian easement may be built thereon by the Michauds and b) the City would own the land in the event the City decides to have the street connected through to Dudley in the future.

On March 7, 2008 the Portland Planning Authority approved the associated minor site plan for a single family house on Lot 1 (the northernmost of the two lots created by the street extension that also front the paper street known as Dudley Street).

The approvals relate to the approved plans prepared by Back Bay Boundary Sheets 1-6 Revision 7 and are subject to the following conditions:

Location of Construction: 38 Kineo St	Owner Name: MICHAUD MICHAEL P & JOY E	Owner Address: 8 FERNALD TER	Phone:
Business Name:	Contractor Name: Lefever Michaud	Contractor Address: 200 Riverside Industrial Parkw Portlan	Phone (207) 831-7427
Lessee/Buyer's Name	Phone:	Permit Type: Single Family	

1. All Site work (final grading, landscaping, loam and seed) must be completed prior to issuance of a Certificate of Occupancy.
2. Two (2) City of Portland approved species and size trees must be planted on your street frontage prior to issuance of a Certificate of Occupancy.
3. All damage to sidewalk, curb, street, or public utilities shall be repaired to City of Portland standards prior to issuance of a Certificate of Occupancy.
4. As-built record information for sewer and stormwater service connections must be submitted to Public Works Engineering Section (55 Portland Street) and approved prior to issuance of a Certificate of Occupancy.
5. The Development Review Coordinator reserves the right to require additional lot grading or other drainage improvements as necessary due to field conditions.
6. Erosion and Sedimentation control shall be established and inspected by the Development Review Coordinator prior to soil disturbance, and shall be done in accordance with Best Management Practices, Maine Department of Environmental Protection Technical and Design Standards and Guidelines. All Erosion and Sedimentation control measures must be inspected and maintained daily.
7. A sewer permit is required for your project. Please contact Carol Merritt at 874-8300, ext . 8822. The Wastewater and Drainage section of Public Works must be notified five (5) working days prior to sewer connection to schedule an inspector for your site.
8. A street opening permit(s) is required for your site. Please contact Carol Merritt ay 874-8300, ext. 8822. (Only excavators licensed by the City of Portland are eligible.)

The approvals are based on the submitted plans. If you need to make any modifications to the approved plans, you must submit a revised plan for staff review and approval.

Please note the following provisions and requirements for all site plan approvals:

1. The above approvals do not constitute approval of building plans, which must be reviewed and approved by the City of Portland's Inspection Division
2. Final sets of plans shall be submitted digitally to the Planning Division, on a CD or DVD, in AutoCAD format (*.dwg), release AutoCAD 2005 or greater.
3. A performance guarantee covering the site improvements as well as an inspection fee payment of 2.0% of the guarantee amount and 7 final sets of plans must be submitted to and approved by the Planning Division and Public Works prior to the release of the building permit. If you need to make any modifications to the approved site plan, you must submit a revised site plan for staff review and approval.
4. The site plan approval will be deemed to have expired unless work in the development has commenced within one (1) year of the approval or within a time period agreed upon in writing by the City and the applicant. Requests to extend approvals must be received before the expiration date.
5. A defect guarantee, consisting of 10% of the performance guarantee, must be posted before the performance guarantee will be released.
6. Prior to construction, a pre-construction meeting shall be held at the project site with the contractor, development review coordinator, Public Work's representative and owner to review the construction schedule and critical aspects of the site work. At that time, the site/building contractor shall provide three (3) copies of a detailed construction schedule to the attending City representatives. It shall be the contractor's responsibility to arrange a mutually agreeable time for the pre-construction meeting.

The Development Review Coordinator must be notified five (5) working days prior to date required for final site inspection. The

Location of Construction: 38 Kineo St	Owner Name: MICHAUD MICHAEL P & JOY E	Owner Address: 8 FERNALD TER	Phone:
Business Name:	Contractor Name: Lefever Michaud	Contractor Address: 200 Riverside Industrial Parkw Portlan	Phone (207) 831-7427
Lessee/Buyer's Name	Phone:	Permit Type: Single Family	

Development Review Coordinator can be reached at the Planning Division at 874-8632. Please make allowances for completion of site plan requirements determined to be incomplete or defective during the inspection. This is essential as all site plan requirements must be completed and approved by the Development Review Coordinator prior to issuance of a Certificate of Occupancy. Please schedule any property closing with these requirements in mind.

If there are any questions, please contact Jean Fraser at 874 8728 or jf@portlandmaine.gov. or Phil DiPierro at 874 8632 or PD@portlandmaine.gov.

Sincerely,

Alexander Jaegerman
Planning Division Director

Attachment: Council Order 151-07/08

Electronic Distribution:

Lee D. Urban, Planning & Development Dept. Director
Alexander Jaegerman, Planning Division Director
Barbara Barhydt, Development Review Services Manager
Jean Fraser, Planner
Philip DiPierro, Development Review Coordinator
Marge Schmuckal, Zoning Administrator
Jeanie Bourke, Inspections Division
Lisa Danforth, Administrative Assistant
Michael Bobinsky, Public Works Director
Kathi Earley, Public Works
Mike Farmer, Public Works
Bill Clark, Public Works
Jim Carmody, City Transportation Engineer
Captain Greg Cass, Fire Prevention
Jeff Tarling, City Arborist
Assessor's Office
Approval Letter File

Hard Copy: Project File

Comments:

11/2/2006-amachado: Spoke to Mike Michaud. Need full size set of building plans. Need deed description of the separation of the lot into two lots.

11/2/2006-amachado: Received full set of plans.

11/3/2006-amachado: Permit is on hold until planning department approval & Public Works approval to extend Kineo St.

2/2/2007-mes: I received a copy of the Holiday retirement contract zone map from planning. Our zoning maps wrong in this area. It is not an ROS zone, it is still an R-3 zone. Leslie Kaynor was to be notified by planning.

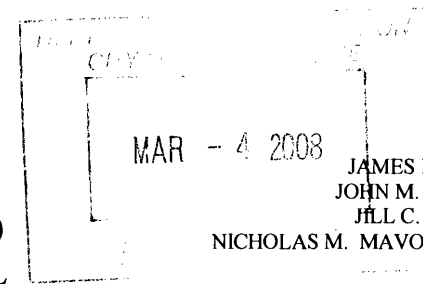
3/4/2008-amachado: Received copy of order that went to City Council for street dedication of Kineo street extention from planning.

3/5/2008-amachado: Spoke to Mike Michaud. He will email copy of description of Lot 1.

3/7/2008-tm: put in hold basket until approval from Planning obtained.

EDWARD J. SUSLOVIC (MAYOR)
KEVIN J. DONOGHUE (1)
DAVID A. MARSHALL (2)
DANIEL S. SKOLNIK (3)
CHERYL A. LEEMAN (4)

**CITY OF
PORTLAND**
IN THE CITY COUNCIL



JAMES I. COHEN (5)
JOHN M. ANTON (A/L)
JILL C. DUSON (A/L)
NICHOLAS M. MAVODONES (A/L)

**ORDER REGARDING LAND IN THE VICINITY OF
KINEO STREET
(LAY OUT, STREET ACCEPTANCE AUTHORIZATION, AND ACCEPTANCE
OF LAND)**

ORDERED, that pursuant to 23 M.R.S.A. §§3022 and by acceptance of the dedication of land by Michael and Joy Michaud for street purposes, the City hereby lays out a town way in the location more fully described below (which town way is an extension of the presently accepted Kineo Street):

Beginning at a capped rebar found 5.13 feet and North 65°-40'-28" East, from the northeasterly end of said Kineo Street, said capped rebar found with a plastic cap inscribed with "PLS #2075", said rebar marking the common property corner of land now or formerly of Diva Aceto as described in a deed recorded in the Cumberland County Registry of Deeds in Deed Book 4969, Page 140 and the land of the herein grantors, Michael P. Michaud and Joy E. Michaud, as described in a deed recorded in said Registry of Deeds in Deed Book 23138, Page 243, said rebar also marking the contemplated side line of a proposed extension of said Kineo Street; Thence, by and along said proposed side line of Kineo Street, following a magnetic bearing of, North 65°-40'-28" East, a distance of 79.02 feet; Thence, continuing along the proposed end of Kineo Street, South 24°-19'-32" East, 50.00 feet; Thence, by and along the proposed southerly side line of Kineo Street, South 65°-40' -28" West, a distance of 67.71 feet to the land now or formerly of Henry A. Caiazzo Jr. as described in a deed recorded in the Cumberland County Registry of Deeds in Deed Book 14527, Page 061; Thence, by and along the land of said Caiazzo, South 65°-40'-28" West, a distance of 5.13 feet; Thence, North 37°-04' -20" West, a distance of 51.26 feet to the side line of said Kineo Street and the land now or formerly of said Diva Aceto; Thence, by and along the land of said Diva Aceto, North 65°-40' -28" East, a distance of 5.13 feet to the Point of Beginning.

The above described parcel of land contains 3924.1 square feet of area; and

Be it further Ordered, the City authorizes the acceptance of a warranty deed to the laid out portion of Kineo Street (as described above) and an acceptance of the land as a City Street, once it has been installed to City standards and to the satisfaction of the Public Works Department. The City further authorizes the acceptance of any associated required turn around easement; and

Be it further Ordered, the City hereby accepts a warranty deed to the fee interest in the following described land for potential future street purposes (without dedicating it as a street at this time):

Beginning on the northerly side of the proposed Kineo Street extension, at the proposed end of the said extension, said point of beginning being North 65°-40'-28" East, a distance of 79.02 feet from the common property corner of land now or formally of Diva Aceto as described in a deed recorded in the Cumberland County Registry of Deeds in Deed Book 4969, Page 140 and the land of the herein grantors, Michael P. Michaud and Joy E. Michaud, as described in a deed recorded in said Registry of Deeds in Deed Book 23138, Page 243; Thence, continuing along the proposed end of Kineo Street, South 24°-19'-32" East, a distance of 50.00 feet; Thence, through the land of the aforesaid grantors, North 65°-40'-28" East, a distance of 33.08 feet to the westerly side line of an unaccepted unimproved Street known as Dudley Street, as shown on a subdivision entitled "Forest Hills, Portland, Maine owned by A.H. Chapman Land Company Portland, Maine dated April 1923, revised July 1923 and recorded in the aforesaid Registry of Deeds in Plan Book 15, Page 34; Thence, by and along said westerly side line of said Dudley Street, North 37°-22'-17" West, a distance of 51.33 feet; Thence, through the land of the aforesaid grantors, South 65°-40'-28" West, a distance of 21.49 feet to the Point of Beginning.



Hammond Lumber Co.
Auburn, Bangor, Belgrade, Fairfield, Farmington
Greenville, Portland, Skowhegan
1-866-HAMMOND



QUOTE: 000450 QUOTE DATE: 05/23/2008 PRINT DATE: 06/11/2008

CUSTOMER: A-Tuttie
CELL:
PO#:
SALESREP: CEG
PROJECT: m. Michaud
TERMS:
PICKUP/DELIVERY: Delivery
CSR Name:

Billing Information

CONTACT: Mike Michaud
PHONE: 207-831-7427
FAX:
ADDRESS: 8 Fernald Terrace

Portland, Maine 04103

Shipping Information

CONTACT:
PHONE:
FAX:
ADDRESS:

COMMENTS:

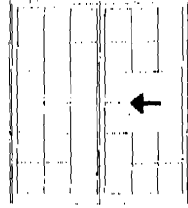
06/11/2008

160221

Line Item #: 0015 Line Item Qty: 1 Initial:

Location:

RO Size = 6' 0" W x 6' 8" H Unit Size = 5' 11 1/4" W x 6' 7 1/2" H



200 Series, NLGD Double-wide Units
 Unit Code/Item Size: NLGD6068
 Operation/Handing: SR
 Exterior Color: White
 Interior Color: Clear Pine
 Glass Type: Low E Tempered Glass, Finelight Grilles-Between-the-Glass, Colonial, White/White, 1"
 Grille Construction: Finelight Grilles-Between-the-Glass
 Insect Screens: Gliding Insect Screen, White
 Extension Jamb: White - Painted, 6 9/16", Job Site Applied, Complete Unit Extension Jamb
 Trimset Finish: Tribeca - White
 Sill Support: Yes

U-Factor = .31

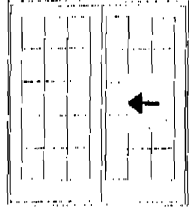
Comments:

Qty	Part Num	Item Size	Description	Total Price	Extended Price
1	2400333	NLGD6068SR	Frame, White/Clear Pine	\$ 331.20	\$ 331.20
1	2400173	NLGD3068	Stationary Panel, White/Clear Pine, Low E Tempered Glass, Finelight Grilles-Between-the-Glass, Colonial, 3W6H, White/White, 1"	\$ 428.00	\$ 428.00
1	2400163	NLGD3068	Operating Panel, White/Clear Pine, Low E Tempered Glass, Finelight Grilles-Between-the-Glass, Colonial, 3W6H, White/White, 1"	\$ 428.00	\$ 428.00
1	2565694	-----	Hardware Trim Set, GD, 2 Panel, Tribeca - White	\$ 42.40	\$ 42.40
1	2565308	PD3068	Insect Screen, Gliding, White	\$ 109.44	\$ 109.44
1	2567335	GD60	Extension Jamb, Head Member, Interior, White - Painted, 6 9/16"	\$ 24.32	\$ 24.32
1	2567376	GD68	Extension Jamb, Side Members, Interior, White - Painted, 6 9/16"	\$ 53.12	\$ 53.12
1	1997057	PD60	Support, Sill, Aluminum (Neutral Gray)	\$ 17.44	\$ 17.44
				\$ 1,433.92	\$ 1,433.92

Line Item #: 0009 Line Item Qty: 1 Initial:

Location:

RO Size = 6' 0" W x 6' 8" H Unit Size = 5' 11 1/4" W x 6' 7 1/2" H



400 Series, FWG Double-wide Units
Unit Code/Item Size: FWG6068
Operation/Handing: SR
Exterior Color: White
Interior Color: Pre-finished White
Glass Type: High Performance Low-E4 Tempered Glass, Finelight
Grilles-Between-the-Glass, Colonial, White/White, 3/4"
Grille Construction: Finelight Grilles-Between-the-Glass
Insect Screens: Gliding Insect Screen, White
Trimset Finish: Tribeca - White
Auxiliary Lock Finish: White
Sill Support: Yes

J-Factor
= .33

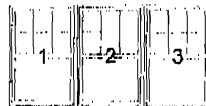
Comments:

Qty	Part Num	Item Size	Description	Total Price	Extended Price
1	0000000	FWG6068	Unit, SR Handing, White/PI White, High Performance Low-E4 Tempered Glass, Finelight Grilles-Between-the-Glass, Colonial, 3W5H, White/White, 3/4"	\$ 1608.00	\$ 1608.00
1	2565308	PD3068	Gliding Insect Screen, White	\$ 109.44	\$ 109.44
1	2565694	-----	Hardware Trim Set, GD, 2 Panel, Tribeca - White	\$ 42.40	\$ 42.40
1	1997301	-----	Lock, Auxiliary, GD, White	\$ 16.00	\$ 16.00
1	1997057	PD60	Support, Sill, Aluminum (Neutral Gray)	\$ 17.44	\$ 17.44
				\$ 1,793.28	\$ 1,793.28

Line Item #: 0008 Line Item Qty: 1 Initial:

Location: w04-, floor-1

RO Size = 9' 0" W x 4' 6" H Unit Size = 8' 11 1/2" W x 4' 5 1/2" H



Composite Unit
Part Number: 0000000
Mulling Location: Factory (Direct)
Mull Priority: Vertical
Mulling Material: Narrow Mull
Unit Code/Item Size: 244DH3046-3
Operation/Handing: AA-AA-AA

Comments:

Qty	Part Num	Item Size	Description	Total Price	Extended Price
			Total: (includes Mull Charges of \$ 82.64)	\$ 82.64	\$ 82.64

200 Series Tilt-Wash, Single Units
 Unit Code/Item Size: 244DH3046
 Operation/Handing: AA
 Frame Depth: 3 1/4"
 Exterior Color: White
 Interior Color: Pre-finished White
 Glass Type (Top): Low E Glass, Finelight Grilles-Between-the-Glass, Colonial, White/White, 3/4"
 Glass Type (Bottom): Low E Glass
 Grille Construction (Top): Finelight Grilles-Between-the-Glass
 Insect Screens: Insect Screen, White
 Hardware: Andersen 200 Series - White
 Group 1: (1-2-3) - Unit 1

U-Factor = .33

Comments:

Qty	Part Num	Item Size	Description	Total Price	Extended Price
1	0000000	244DH3046	Unit, 3 1/4" Frame Depth, White/PI White, (Top Sash) Low E Glass, Finelight Grilles-Between-the-Glass, Colonial, 3W2H, White/White, 3/4" (Bottom Sash) Low E Glass	\$ 230.40	\$ 230.40
1	0833330	244DH3046	Insect Screen, White	\$ 23.68	\$ 23.68
				\$ 254.08	\$ 254.08

200 Series Tilt-Wash, Single Units
 Unit Code/Item Size: 244DH3046
 Operation/Handing: AA
 Frame Depth: 3 1/4"
 Exterior Color: White
 Interior Color: Pre-finished White
 Glass Type (Top): Low E Glass, Finelight Grilles-Between-the-Glass, Colonial, White/White, 3/4"
 Glass Type (Bottom): Low E Glass
 Grille Construction (Top): Finelight Grilles-Between-the-Glass
 Insect Screens: Insect Screen, White
 Hardware: Andersen 200 Series - White
 Group 1: (1-2-3) - Unit 2

U-Factor = .33

Comments:

Qty	Part Num	Item Size	Description	Total Price	Extended Price
1	0000000	244DH3046	Unit, 3 1/4" Frame Depth, White/PI White, (Top Sash) Low E Glass, Finelight Grilles-Between-the-Glass, Colonial, 3W2H, White/White, 3/4" (Bottom Sash) Low E Glass	\$ 230.40	\$ 230.40
1	0833330	244DH3046	Insect Screen, White	\$ 23.68	\$ 23.68
				\$ 254.08	\$ 254.08

200 Series Tilt-Wash, Single Units
 Unit Code/Item Size: 244DH3046
 Operation/Handing: AA
 Frame Depth: 3 1/4"
 Exterior Color: White
 Interior Color: Pre-finished White
 Glass Type (Top): Low E Glass, Finelight Grilles-Between-the-Glass, Colonial,
 White/White, 3/4"
 Glass Type (Bottom): Low E Glass
 Grille Construction (Top): Finelight Grilles-Between-the-Glass
 Insect Screens: Insect Screen, White
 Hardware: Andersen 200 Series - White
 Group 1: (1-2-3) - Unit 3

U-Factor = .33

Comments:

Qty	Part Num	Item Size	Description	Total Price	Extended Price
1	0000000	244DH3046	Unit, 3 1/4" Frame Depth, White/PI White, (Top Sash) Low E Glass, Finelight Grilles-Between-the-Glass, Colonial, 3W2H, White/White, 3/4" (Bottom Sash) Low E Glass	\$ 230.40	\$ 230.40
1	0833330	244DH3046	Insect Screen, White	\$ 23.68	\$ 23.68
				\$ 254.08	\$ 254.08
					\$ 844.88

Line Item #: 0006 Line Item Qty: 1 Initial:

Location: w03-, floor-1

RO Size = 3' 0" W x 4' 6" H Unit Size = 2' 11 1/2" W x 4' 5 1/2" H



200 Series Tilt-Wash, Single Units
 Unit Code/Item Size: 244DH3046
 Operation/Handing: AA
 Frame Depth: 3 1/4"
 Exterior Color: White
 Interior Color: Pre-finished White
 Glass Type (Top): Low E Glass, Finelight Grilles-Between-the-Glass, Colonial,
 White/White, 3/4"
 Glass Type (Bottom): Low E Glass
 Grille Construction (Top): Finelight Grilles-Between-the-Glass
 Insect Screens: Insect Screen, White
 Hardware: Andersen 200 Series - White

U-Factor = .33

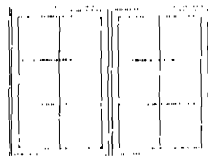
Comments:

Qty	Part Num	Item Size	Description	Total Price	Extended Price
1	0000000	244DH3046	Unit, 3 1/4" Frame Depth, White/PI White, (Top Sash) Low E Glass, Finelight Grilles-Between-the-Glass, Colonial, 3W2H, White/White, 3/4" (Bottom Sash) Low E Glass	\$ 230.40	\$ 230.40
1	0833330	244DH3046	Insect Screen, White	\$ 23.68	\$ 23.68
				\$ 254.08	\$ 254.08

Line Item #: 0001 Line Item Qty: 1 Initial:

Location: w01-,floor-1-

RO Size = 4' 0 1/2" W x 3' 0 1/2" H Unit Size = 4' 0" W x 2' 11 15/16" H



400 Series, PSC Double-wide Units
Unit Code/Item Size: C23
Operation/Handing: LR
Clear Opening Size: 14 Inch
Exterior Color: White
Interior Color: White - Factory Painted
Glass Type (Left Sash): High Performance Low-E4 Glass, Finelight
Grilles-Between-the-Glass, Colonial, White/White, 3/4"
Glass Type (Right Sash): High Performance Low-E4 Glass, Finelight
Grilles-Between-the-Glass, Colonial, White/White, 3/4"
Grille Construction (Left Sash): Finelight Grilles-Between-the-Glass
Grille Construction (Right Sash): Finelight Grilles-Between-the-Glass
Insect Screens: White
Hardware Color: Andersen Classic Series - White

U-Factor .30

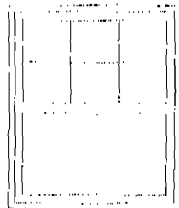
Comments:

Qty	Part Num	Item Size	Description	Total Price	Extended Price
1	0000000	C23	Unit, White/White - Factory Painted, LR Handing, (All Sash) High Performance Low-E4 Glass Finelight Grilles-Between-the-Glass, Colonial, 2W3H, White/White, 3/4"	\$ 517.60	\$ 517.60
2	1345008	C3	Insect Screen, White	\$ 32.48	\$ 32.48
2	1361536	-----	Hardware Pack, PSC, Andersen Classic Series - White	\$ 9.60	\$ 9.60
				\$ 559.68	\$ 559.68

Line Item #: 0014 Line Item Qty: 2 Initial:

Location: W05-flr.-2

RO Size = 3' 0" W x 3' 6" H Unit Size = 2' 11 1/2" W x 3' 5 1/2" H



200 Series Tilt-Wash, Single Units
Unit Code/Item Size: 244DH3036
Operation/Handing: AA
Frame Depth: 3 1/4"
Exterior Color: White
Interior Color: Pre-finished White
Glass Type (Top): Low E Glass, Finelight Grilles-Between-the-Glass, Colonial,
White/White, 3/4"
Glass Type (Bottom): Low E Glass
Grille Construction (Top): Finelight Grilles-Between-the-Glass
Insect Screens: Insect Screen, White
Hardware: Andersen 200 Series - White

U-Factor .33

Comments:

Qty	Part Num	Item Size	Description	Total Price	Extended Price
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QUOTE: 000450

Print Date: 06/11/2008

Page 6 Of 10

IQ Version:8.0

1	0000000	244DH3036	Unit, 3 1/4" Frame Depth, White/Pl White, (Top Sash) Low E Glass, Finelight Grilles-Between-the-Glass, Colonial, 3W2H, White/White, 3/4" (Bottom Sash) Low E Glass	\$	200.00	\$	400.00
1	0833328	244DH3036	Insect Screen, White	\$	20.48	\$	40.96
				\$	220.48	\$	440.96

Line Item #: 0004 Line Item Qty: 2 Initial: _____

Location: w06-, floor-2

RO Size = 3' 0" W x 4' 6" H Unit Size = 2' 11 1/2" W x 4' 5 1/2" H



200 Series Tilt-Wash, Single Units
Unit Code/Item Size: 244DH3046
Operation/Handing: AA
Frame Depth: 3 1/4"
Exterior Color: White
Interior Color: Pre-finished White
Glass Type (Top): Low E Glass, Finelight Grilles-Between-the-Glass, Colonial, White/White, 3/4"
Glass Type (Bottom): Low E Glass
Grille Construction (Top): Finelight Grilles-Between-the-Glass
Insect Screens: Insect Screen, White
Hardware: Andersen 200 Series - White

U-Factor .33

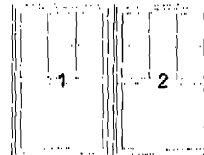
Comments:

Qty	Part Num	Item Size	Description	Total Price	Extended Price
1	0000000	244DH3046	Unit, 3 1/4" Frame Depth, White/Pl White, (Top Sash) Low E Glass, Finelight Grilles-Between-the-Glass, Colonial, 3W2H, White/White, 3/4" (Bottom Sash) Low E Glass	\$ 230.40	\$ 460.80
1	0833330	244DH3046	Insect Screen, White	\$ 23.68	\$ 47.36
				\$ 254.08	\$ 508.16

Line Item #: 0007 Line Item Qty: 3 Initial: _____

Location: w09-, floor-2

RO Size = 6' 0" W x 4' 6" H Unit Size = 5' 11 1/2" W x 4' 5 1/2" H



Composite Unit
Part Number: 0883966
Mulling Location: Factory (Direct)
Mull Priority: Vertical
Mulling Material: Narrow Mull
Unit Code/Item Size: 244DH3046-2
Operation/Handing: AA-AA

Comments:

Qty	Part Num	Item Size	Description	Total Price	Extended Price
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QUOTE: 000450 Print Date: 06/11/2008 Page 7 Of 10 iQ Version:8.0

Total: (includes Mull Charges of \$ 125.28) \$ 41.76 \$ 125.28

200 Series Tilt-Wash, Single Units
 Unit Code/Item Size: 244DH3046
 Operation/Handing: AA
 Frame Depth: 3 1/4"
 Exterior Color: White
 Interior Color: Pre-finished White
 Glass Type (Top): Low E Glass, Finelight Grilles-Between-the-Glass, Colonial, White/White, 3/4"
 Glass Type (Bottom): Low E Glass
 Grille Construction (Top): Finelight Grilles-Between-the-Glass
 Insect Screens: Insect Screen, White
 Hardware: Andersen 200 Series - White
 Group 1: (1-2) - Unit 1

U-Factor .33

Comments:

Qty	Part Num	Item Size	Description	Total Price	Extended Price
1	0000000	244DH3046	Unit, 3 1/4" Frame Depth, White/PI White, (Top Sash) Low E Glass, Finelight Grilles-Between-the-Glass, Colonial, 3W2H, White/White, 3/4" (Bottom Sash) Low E Glass	\$ 230.40	\$ 691.20
1	0833330	244DH3046	Insect Screen, White	\$ 23.68	\$ 71.04
				\$ 254.08	\$ 762.24

200 Series Tilt-Wash, Single Units
 Unit Code/Item Size: 244DH3046
 Operation/Handing: AA
 Frame Depth: 3 1/4"
 Exterior Color: White
 Interior Color: Pre-finished White
 Glass Type (Top): Low E Glass, Finelight Grilles-Between-the-Glass, Colonial, White/White, 3/4"
 Glass Type (Bottom): Low E Glass
 Grille Construction (Top): Finelight Grilles-Between-the-Glass
 Insect Screens: Insect Screen, White
 Hardware: Andersen 200 Series - White
 Group 1: (1-2) - Unit 2

U-Factor .33

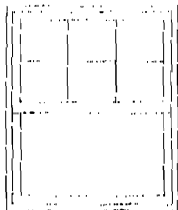
Comments:

Qty	Part Num	Item Size	Description	Total Price	Extended Price
1	0000000	244DH3046	Unit, 3 1/4" Frame Depth, White/PI White, (Top Sash) Low E Glass, Finelight Grilles-Between-the-Glass, Colonial, 3W2H, White/White, 3/4" (Bottom Sash) Low E Glass	\$ 230.40	\$ 691.20
1	0833330	244DH3046	Insect Screen, White	\$ 23.68	\$ 71.04
				\$ 254.08	\$ 762.24
					\$ 1,649.76

Line Item #: 0002 Line Item Qty: 3 Initial: _____

Location: w02-, floor-1

RO Size = 3' 0" W x 3' 6" H Unit Size = 2' 11 1/2" W x 3' 5 1/2" H



200 Series Tilt-Wash, Single Units
Unit Code/Item Size: 244DH3036
Operation/Handing: AA
Frame Depth: 3 1/4"
Exterior Color: White
Interior Color: Pre-finished White
Glass Type (Top): Low E Glass, Finelight Grilles-Between-the-Glass, Colonial, White/White, 3/4"
Glass Type (Bottom): Low E Glass
Grille Construction (Top): Finelight Grilles-Between-the-Glass
Insect Screens: Insect Screen, White
Hardware: Andersen 200 Series - White

U-Factor .33

Comments:

Qty	Part Num	Item Size	Description	Total Price	Extended Price
1	0000000	244DH3036	Unit, 3 1/4" Frame Depth, White/PI White, (Top Sash) Low E Glass, Finelight Grilles-Between-the-Glass, Colonial, 3W2H, White/White, 3/4" (Bottom Sash) Low E Glass	\$ 200.00	\$ 600.00
1	0833328	244DH3036	Insect Screen, White	\$ 20.48	\$ 61.44
				\$ 220.48	\$ 661.44

Line Item #: 0005 Line Item Qty: 5 Initial: _____

Location: w07-, floor-2

RO Size = 2' 0" W x 4' 6" H Unit Size = 1' 11 1/2" W x 4' 5 1/2" H



200 Series Tilt-Wash, Single Units
Unit Code/Item Size: 244DH2046
Operation/Handing: AA
Frame Depth: 3 1/4"
Exterior Color: White
Interior Color: Pre-finished White
Glass Type (Top): Low E Glass, Finelight Grilles-Between-the-Glass, Colonial, White/White, 3/4"
Glass Type (Bottom): Low E Glass
Grille Construction (Top): Finelight Grilles-Between-the-Glass
Insect Screens: Insect Screen, White
Hardware: Andersen 200 Series - White

U-Factor .33

Comments:

Qty	Part Num	Item Size	Description	Total Price	Extended Price
1	0000000	244DH2046	Unit, 3 1/4" Frame Depth, White/PI White, (Top Sash) Low E Glass, Finelight Grilles-Between-the-Glass, Colonial, 2W2H, White/White, 3/4" (Bottom Sash) Low E Glass	\$ 195.20	\$ 976.00

1	0833306	244DH2046	Insect Screen, White	\$	20.48	\$	102.40
				\$	215.68	\$	1,078.40

SUBMITTED BY: _____	SUBTOTAL	\$	9,224.56
ACCEPTED BY: _____	TAXES(0.000 %)	\$	0.00
DATE: _____	GRAND TOTAL	\$	9,224.56

**** All graphics as viewed from the exterior.**

Performance Data

Canadian Product Performance Ratings

Tested to: CAN/CSA A440-M90. The mullion was tested and the deflection was within the maximum allowable of L/175 at positive and negative loads of 2600 Pa.

Units Tested	Air Tightness	Water Tightness	Wind Load Resistance and blow-out	Resistance to forced entry
CX16	A-3	B-7	C-4	Pass
P6050	Fixed	B-7	C-4	Not Applicable
A41	A-3	B-3	C-5	Pass
AXW51	A-2	B-2	C-2	Pass
TW3862	A-3	B-2	C-2	Pass
NL3862	A-3	B-3	C-3	Pass
DHP5652	Fixed	B-3	C-3	Not Applicable
G65	A-3	B-2	C-3	Pass
Cir/Oval 3048	Fixed	B-7	C-5	Not Applicable
ET8	Fixed	B-7	C-5	Not Applicable

	Air Tightness	Water Tightness	Wind Load Resistance and blow-out	Resistance to forced entry
	Fixed	B-7	C-5	Not Applicable
	Fixed	B-7	C-5	Not Applicable
	Fixed	B-7	C-5	Not Applicable
	A-3	B-2	C-3	Pass
	A-3	B-2	C-3	Pass
	A-3	B-4	C-3	Not Applicable
	A-3	B-4	C-3	Not Applicable
	A-3	B-3	C-1	Pass
	A-3	B-2	C-1	Pass
	A-3	B-2	C-1	Pass

Andersen NFRC Certified Total Unit Performance

Andersen® windows and patio doors meet or exceed the following standards: WDMA, I.S. 2, W.D.M.A. I.S. 4 (WDMA license No. 129), Hallmark certified. Independent testing laboratories have performed all required tests on selected sizes. Compliance with these standards is confirmed by ongoing testing in Andersen laboratories. These products are covered by one or more of the following patents: 4,999,950; 5,595,409; 5,775,749; 6,055,786; 5,544,450; 5,566,507; 5,582,445; 5,097,629; 5,740,632; 5,199,234; D312,565; 0397,604; and D417,831. Other patents pending.

Andersen® 400 Series Product Type		Without Grilles		With Grilles	
		HP Low-E4*	HP Low-E4 Sun	HP Low-E4	HP Low-E4 Sun
Casement 24" x 48" size	U-Factor ¹	0.30	0.31	0.31	0.32
	SHGC ²	0.34	0.20	0.31	0.18
	VT ³	0.55	0.30	0.50	0.27
Awning 48" x 24" size	U-Factor ¹	0.30	0.31	0.31	0.31
	SHGC ²	0.33	0.20	0.30	0.18
	VT ³	0.54	0.30	0.49	0.27
Casement/Awning Picture Window 48" x 48" size	U-Factor ¹	0.29	0.29	0.31	0.31
	SHGC ²	0.36	0.21	0.33	0.19
	VT ³	0.60	0.33	0.54	0.30
Woodwright® Full-Frame Double-Hung 36" x 60" size	U-Factor ¹	0.31	0.32	0.33	0.34
	SHGC ²	0.32	0.19	0.29	0.17
	VT ³	0.53	0.29	0.47	0.26
Woodwright® Full-Frame Picture Window 48" x 48" size	U-Factor ¹	0.30	0.30	0.31	0.32
	SHGC ²	0.34	0.20	0.30	0.18
	VT ³	0.56	0.31	0.50	0.27
Woodwright® Full-Frame Transom 48" x 48" size	U-Factor ¹	0.30	0.30	0.30	0.30
	SHGC ²	0.35	0.20	0.31	0.19
	VT ³	0.58	0.32	0.52	0.29
Woodwright Insert Double-Hung 36" x 60" size	U-Factor ¹	0.33	0.33	0.34	0.34
	SHGC ²	0.33	0.19	0.29	0.18
	VT ³	0.54	0.30	0.48	0.26
Woodwright Insert Picture Window 48" x 48" size	U-Factor ¹	0.31	0.31	0.32	0.32
	SHGC ²	0.34	0.20	0.30	0.18
	VT ³	0.56	0.31	0.50	0.27
Woodwright Insert Transom 48" x 48" size	U-Factor ¹	0.31	0.32	0.32	0.33
	SHGC ²	0.34	0.20	0.31	0.18
	VT ³	0.57	0.31	0.51	0.18
Tilt-Wash Double-Hung 36" x 60" size	U-Factor ¹	0.32	0.32	0.33	0.33
	SHGC ²	0.33	0.20	0.29	0.18
	VT ³	0.54	0.30	0.48	0.26
Tilt-Wash Double-Hung Picture 48" x 48" size	U-Factor ¹	0.32	0.32	0.33	0.34
	SHGC ²	0.35	0.20	0.31	0.19
	VT ³	0.58	0.32	0.51	0.28
Tilt-Wash Double-Hung Transom 48" x 48" size	U-Factor ¹	0.28	0.29	0.30	0.30
	SHGC ²	0.33	0.20	0.30	0.18
	VT ³	0.56	0.31	0.49	0.27
Gliding Window 60" x 36" size	U-Factor ¹	0.33	0.33	0.34	0.34
	SHGC ²	0.30	0.18	0.27	0.16
	VT ³	0.50	0.28	0.44	0.24

Andersen® 400 Series Product Type		Without Grilles		With Grilles	
		HP Low-E4	HP Low-E4 Sun	HP Low-E4	HP Low-E4 Sun
Elliptical Window 48" x 48" size	U-Factor ¹	0.30	0.30	0.31	0.32
	SHGC ²	0.36	0.21	0.32	0.19
	VT ³	0.60	0.33	0.53	0.29
Circle Top™ Casement 48" x 48" size	U-Factor ¹	0.29	0.29	0.31	0.31
	SHGC ²	0.36	0.21	0.33	0.19
	VT ³	0.60	0.33	0.54	0.30
Circle/Oval 48" x 48" size	U-Factor ¹	0.29	0.29	0.31	0.31
	SHGC ²	0.36	0.21	0.33	0.19
	VT ³	0.60	0.33	0.54	0.30
Arch Window 48" x 48" size	U-Factor ¹	0.30	0.30	0.31	0.32
	SHGC ²	0.35	0.20	0.31	0.19
	VT ³	0.58	0.31	0.52	0.28
Flexiframe™ 48" x 48" size	U-Factor ¹	0.29	0.30	0.31	0.31
	SHGC ²	0.35	0.20	0.31	0.19
	VT ³	0.58	0.31	0.52	0.28
Springline™ Window 48" x 48" size	U-Factor ¹	0.29	0.30	0.31	0.31
	SHGC ²	0.35	0.20	0.31	0.19
	VT ³	0.58	0.31	0.52	0.28
Skylight 48" x 48" size		Tempered		Tempered Laminated	
	U-Factor ¹	0.56	0.56	0.55	0.56
Venting Roof Window 48" x 48" size	SHGC ²	0.41	0.25	0.40	0.24
	VT ³	0.68	0.38	0.66	0.37
	U-Factor ¹	0.53	0.54	0.53	0.53
Stationary Roof Window 48" x 48" size	SHGC ²	0.38	0.23	0.37	0.22
	VT ³	0.62	0.34	0.61	0.33
	U-Factor ¹	0.53	0.53	0.53	0.53
	SHGC ²	0.39	0.24	0.38	0.23
	VT ³	0.64	0.35	0.62	0.34

Please contact your Andersen supplier for performance values on products that include patterned glass, tempered glass other than skylights or roof windows and products ordered with capillary breather tubes.

Skylight and roof window values are based upon NFRC 2001 procedures rated at a 20 degree angle.

Grilles=Finelight or Full Divided light.

High-Performance Low-E4 (HP Low-E4) and *High-Performance Low-E4 Sun* (HP Low-E4 Sun) are Andersen trademarks for "Low-E" glass.

- U-Factor defines the amount of heat loss through the total unit in BTU/hr sq. ft. °F. The lower the value, the less heat is lost through the entire product.
- Solar Heat Gain Coefficient (SHGC) defines the fraction of solar radiation admitted through the glass both directly transmitted and absorbed and subsequently released inward. The lower the value, the less heat is transmitted through the product.
- Visible Transmittance (VT) measures how much light comes through a product (glass and frame). The higher the value, from 0 to 1, the more daylight the product lets in over the product's total unit area. Visible Transmittance is measured over the 380 to 760 nanometer portion of the solar spectrum.

This data is accurate as of October 17, 2007. Due to ongoing product changes, updated test results or new industry standards, this data may change over time.

Andersen NFRC Certified Total Unit Performance

Andersen windows and patio doors meet or exceed the following standards: WDMA 1.S-2, W.D.M.A. 1.S. 4 (WDMA license No. 129), Hailmark certified. Independent testing laboratories have performed all required tests on selected sizes. Compliance with these standards is confirmed by ongoing testing in Andersen Laboratories. These products are covered by one or more of the following patents: 4,999,950; 5,595,409; 5,775,749; 6,055,786; 5,544,450; 5,566,507; 5,582,445; 5,097,629; 5,740,632; 5,199,234; D312,565; D397,604; and D417,831. Other patents pending.

Andersen 400 Series Product Type		Tempered w/o Grilles		Tempered w/ Grilles	
		HP Low-E4 ¹	HP Low-E4 Sun	HP Low-E4	HP Low-E4 Sun
Frenchwood Gliding Patio Door <i>72" x 82" size</i>	U-Factor ¹	0.32	0.32	0.33	0.33
	SHGC ²	0.28	0.17	0.24	0.15
	VT ³	0.45	0.25	0.39	0.22
Frenchwood Hinged Patio Door - Inswing <i>36" x 82" size</i>	U-Factor ¹	0.32	0.32	0.33	0.33
	SHGC ²	0.25	0.15	0.22	0.13
	VT ³	0.41	0.23	0.35	0.19
Frenchwood Hinged Patio Door - Outswing <i>38" x 82" size</i>	U-Factor ¹	0.32	0.32	0.33	0.33
	SHGC ²	0.26	0.16	0.22	0.14
	VT ³	0.41	0.23	0.35	0.19
Frenchwood Patio Door Sidelight <i>16" x 82" size</i>	U-Factor ¹	0.33	0.33	0.33	0.33
	SHGC ²	0.23	0.14	0.21	0.13
	VT ³	0.37	0.21	0.33	0.18
Frenchwood Patio Door Transom <i>38" x 14" size</i>	U-Factor ¹	0.31	0.32	0.32	0.32
	SHGC ²	0.25	0.15	0.22	0.14
	VT ³	0.40	0.22	0.36	0.20

Andersen Architectural Products		Without Grilles		With Grilles	
		HP Low-E4	HP Low-E4 Sun	HP Low-E4	HP Low-E4 Sun
Casement Windows Operating <i>(24 1/8" x 48")</i>	U-Factor ¹	0.32	0.32	0.32	0.32
	SHGC ²	0.28	0.17	0.25	0.16
	VT ³	0.47	0.26	0.42	0.23
French Casement Windows Operating <i>(56 1/2" x 71 7/8")</i>	U-Factor ¹	0.32	0.32	0.32	0.32
	SHGC ²	0.28	0.17	0.25	0.16
	VT ³	0.47	0.26	0.42	0.23
Awning Windows Operating <i>(48" x 24 1/8")</i>	U-Factor ¹	0.31	0.32	0.31	0.32
	SHGC ²	0.27	0.17	0.25	0.16
	VT ³	0.47	0.26	0.42	0.23
Casement/Awning Picture Windows <i>(up to 17 sq/ft.)</i>	U-Factor ¹	0.31	0.31	0.31	0.31
	SHGC ²	0.32	0.20	0.29	0.18
	VT ³	0.55	0.31	0.49	0.28
Monumental Double-Hung Windows Aluminum Clad	U-Factor ¹				
	SHGC ²				
	VT ³				
Specialty Windows Aluminum Clad <i>(units up to 17 sq/ft.)</i>	U-Factor ¹	0.30	0.31	0.30	0.31
	SHGC ²	0.37	0.32	0.33	0.20
	VT ³	0.64	0.36	0.57	0.32
Hinged Door-Inswing	U-Factor ¹	0.32	0.33	0.33	0.34
	SHGC ²	0.22	0.14	0.20	0.13
	VT ³	0.37	0.21	0.33	0.18
Hinged Door-Outswing	U-Factor ¹	0.32	0.32	0.33	0.33
	SHGC ²	0.22	0.14	0.20	0.13
	VT ³	0.37	0.21	0.33	0.18
Fixed Doors & Sidelights-Inswing	U-Factor ¹	0.35	0.35	0.35	0.35
	SHGC ²	0.15	0.10	0.16	0.10
	VT ³	0.24	0.14	0.25	0.14
Fixed Doors & Sidelights-Outswing	U-Factor ¹	0.34	0.34	0.34	0.34
	SHGC ²	0.15	0.10	0.16	0.10
	VT ³	0.18	0.14	0.25	0.14
Commercial Outswing Door	U-Factor ¹	0.32	0.32	0.33	0.33
	SHGC ²	0.22	0.14	0.20	0.13
	VT ³	0.37	0.21	0.33	0.18

Andersen 200 Series Product Type		Without Grilles		With Grilles	
		Clear Dual-Pane	Low-E	Clear Dual-Pane	Low-E
Casement <i>24" x 48" size</i>	U-Factor ¹	0.45	--	0.45	--
	SHGC ²	0.60	--	0.55	--
	VT ³	0.62	--	0.57	--
Awning <i>48" x 24" size</i>	U-Factor ¹	0.45	--	0.45	--
	SHGC ²	0.59	--	0.53	--
	VT ³	0.61	--	0.55	--
Tilt-Wash Double-Hung <i>36" x 60" size</i>	U-Factor ¹	0.47	0.33	0.49	0.34
	SHGC ²	0.60	0.34	0.54	0.30
	VT ³	0.63	0.55	0.56	0.49
Narroline [®] Double-Hung <i>36" x 60" size</i>	U-Factor ¹	0.47	0.32	0.48	0.34
	SHGC ²	0.60	0.34	0.53	0.30
	VT ³	0.63	0.56	0.56	0.50
Narroline [®] Transom <i>48" x 48" size</i>	U-Factor ¹	0.43	0.30	0.46	0.32
	SHGC ²	0.63	0.35	0.57	0.32
	VT ³	0.66	0.58	0.59	0.52
Gliding Window <i>60" x 36" size</i>	U-Factor ¹	0.46	0.33	0.46	0.34
	SHGC ²	0.54	0.30	0.49	0.27
	VT ³	0.57	0.50	0.50	0.44
Fixed, Transom, Circle Top [®] <i>48" x 48" size</i>	U-Factor ¹	0.45	0.30	0.47	0.32
	SHGC ²	0.61	0.34	0.55	0.31
	VT ³	0.65	0.57	0.58	0.51

Andersen Architectural Products		Tempered w/o Grilles		Tempered w/ Grilles	
		HP Low-E4	HP Low-E4 Sun	HP Low-E4	HP Low-E4 Sun
Narroline [®] Gliding Patio Door <i>72" x 82" size</i>	U-Factor ¹	0.46	0.31	0.47	0.33
	SHGC ²	0.61	0.34	0.53	0.30
	VT ³	0.64	0.56	0.56	0.49
Perma-Shield [®] Gliding Patio Door <i>72" x 82" size</i>	U-Factor ¹	0.45	0.31	0.46	0.32
	SHGC ²	0.61	0.34	0.54	0.30
	VT ³	0.64	0.57	0.56	0.50
Hinged Patio Door <i>72" x 82" size</i>	U-Factor ¹	0.44	0.33	0.45	0.35
	SHGC ²	0.45	0.26	0.39	0.22
	VT ³	0.47	0.41	0.40	0.35

Please contact your Andersen supplier for performance values on products that include patterned glass, tempered glass other than skylights or roof windows and products ordered with capillary breather tubes.

|| = Information not available at time of printing. Contact your Andersen supplier for more information.

Grilles = Finelight or Full Divided light.

¹High-Performance Low-E4[®] (HP Low-E4) and ²High-Performance Low-E4 Sun[®] (HP Low-E4 Sun) are Andersen trademarks for "Low-E" glass.

- U-Factor defines the amount of heat loss through the total unit in BTU/hr sq. ft. °F. The lower the value, the less heat is lost through the entire product.
- Solar Heat Gain Coefficient (SHGC) defines the fraction of solar radiation admitted through the glass both directly transmitted and absorbed and subsequently released inward. The lower the value, the less heat is transmitted through the product.
- Visible Transmittance (VT) measures how much light comes through a product (glass and frame). The higher the value, from 0 to 1, the more daylight the product lets in over the product's total unit area. Visible Transmittance is measured over the 380 to 760 nanometer portion of the solar spectrum.

This data is accurate as of October 17, 2007. Due to ongoing product changes, updated test results, or new industry standards, this data may change over time.

Performance Data

Energy Efficiency: Why should it be important to you?

Comfort

An energy efficient product will make your home more comfortable. Whether lowering your heating costs or lowering your cooling costs, being able to sit next to your window in the winter or the summer, energy-efficient windows offer many advantages.

Lower Heating Costs

One of the best ways to lower your heating costs is to select an energy-efficient product. The amount of heat loss through a product is defined by its U-Factor. The lower the U-Factor, the less heat is lost through the product. The less heat that is lost through the product, the lower your heating costs.

Lower Cooling Costs

Looking to lower your cooling costs? Look at the product's Solar Heat Gain Coefficient (SHGC). This rating, on a scale of 0 to 1, tells you how much heat gain enters through the product. The lower the value, the less heat gain through the product into the room. The less heat gain, the lower your cooling costs.

Visible Light

Looking to maximize the amount of light that comes through the window, patio door or skylight? Look at the product's Visible Transmittance rating. The higher the rating, on a scale of 0 to 1, the more light enters the room through the whole product. This rating takes into account the non-glass portion of the product as well. Given the same type of glass, a product with a higher visible transmittance will let more light in through the window or door.

Where do you find these ratings? The NFRC label.

When comparing the energy efficiency of one product to the next, look for the NFRC label. The energy performance label, developed by the National Fenestration Rating Council (NFRC), improves the ability to make product-to-product comparisons of energy performance. Traditionally there were numerous methods of testing for energy performance, leading to confusion and inconsistency when comparing product energy performance. NFRC certification and labeling simplifies this process.

Importance of Whole Product Performance

Traditionally, energy performance information has focused on just the glass. The NFRC certification and labeling program tests, certifies and labels the performance of the entire product: glass, sash or panel and frame. While glass information can be helpful, always look for the NFRC label when comparing product-to-product energy performance.

Want simplicity in selecting an energy-efficient product in your area?



Look for products that bear the ENERGY STAR® logo. Products that are ENERGY STAR® compliant must meet stringent performance requirements in various regions of the country. ENERGY STAR® products save you money and help protect the environment.



Andersen is the first window and patio door manufacturer to be certified by Green Seal, the independent, nonprofit organization dedicated to protecting the environment by promoting the manufacture and sale of environmentally preferable consumer products.

Please visit andersenwindows.com for specific product line qualifications.

About the NFRC.


The National Fenestration Rating Council (NFRC) is a nonpartisan coalition of professionals whose purpose is to provide fair, accurate and credible energy performance ratings for fenestration products. NFRC's membership includes manufacturers, suppliers, designers, specifiers, utility companies, government agencies and other building industry representatives.

The Andersen Corporation is a founding member of the NFRC and continues to support its work to provide fair, accurate and credible energy performance ratings to consumers and the building industry. If you have any questions about the NFRC, its program or energy performance ratings, write them at: NFRC, 1300 Spring Street, Suite 500, Silver Spring, MD 20910, Tel: (301) 589-6372 Website: www.nfrc.org

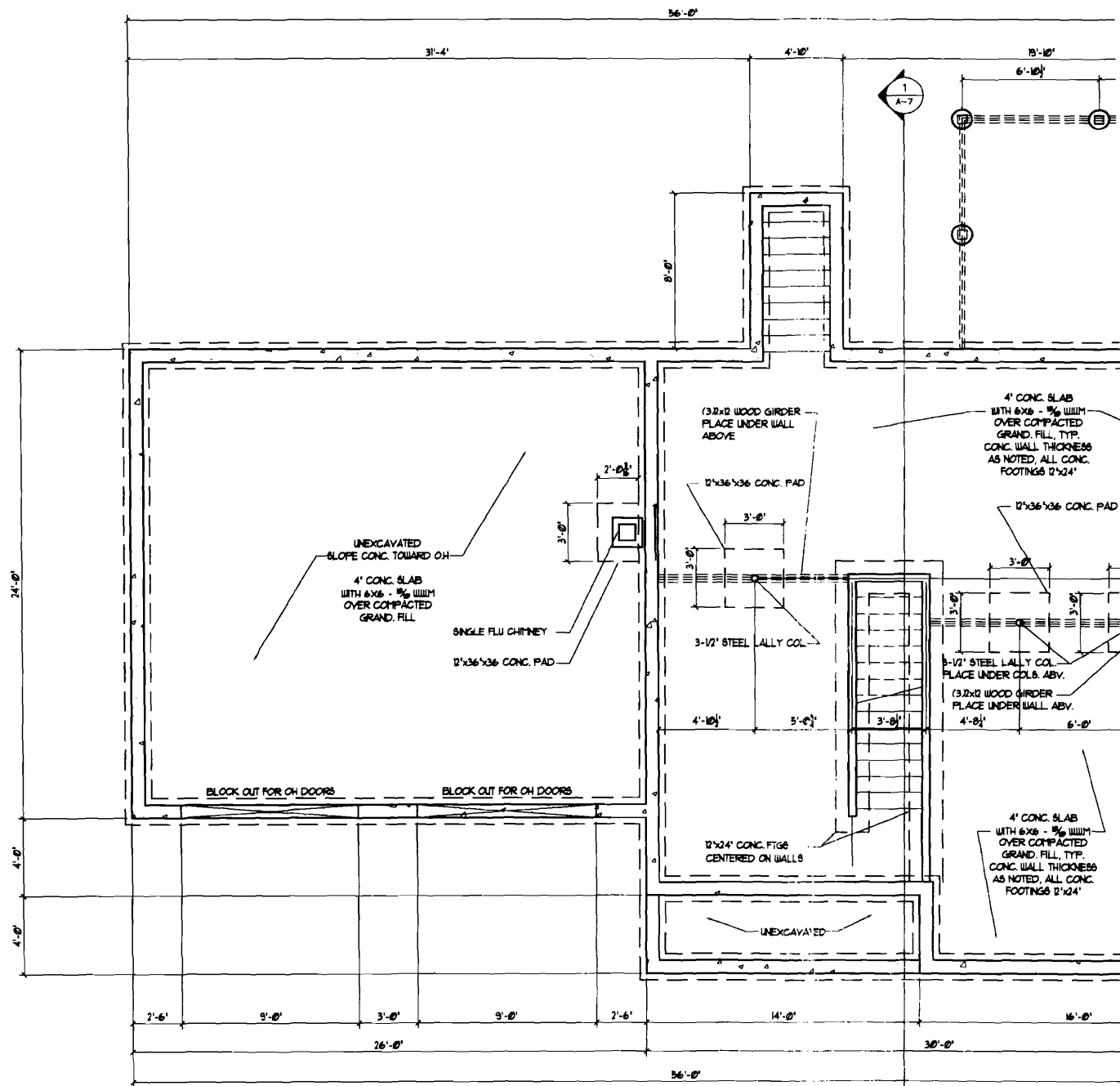
Want to better understand energy performance ratings?

Compare estimated annual energy costs from one product type to the next in your climate area? Or just get information on the right type of product to look for in your area?

Visit the Efficient Windows Collaborative (EWC) website at: www.efficientwindows.org or call them at: (202) 857-0666.

 Andersen <small>WINDOWS • DOORS</small> 	
PS Casement Vinyl-Clad Wood Frame, Dual-Pane Low-E Glazing with Argon Gas Blend Product Type: Casement	
ENERGY PERFORMANCE RATINGS	
U-Factor (U.S.)/I-P 0.30	Solar Heat Gain Coefficient 0.34
ADDITIONAL PERFORMANCE RATINGS	
Visible Transmittance 0.55	-
<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.</small> www.nfrc.org	
ENERGY STAR® Qualified in the Highlighted Regions Qualified in All 50 States  	
DP +50/ -50 <small>(U-50) 36" x 72"</small>	WDM <small>WINDOW AND DOOR MANUFACTURERS ASSOCIATION</small> HALLMARK CERTIFIED www.wdma.com
<small>Tested to ANSI/AAMA/NWDA 101/1.S 2-97 or NAFS-02 or AAMA/NWDA/CSA 101/1.S./AA40-05</small>	PS Casement <small>Manufacturer stipulates and agrees to the applicable standards.</small>
Complies with HUD UM Bulletin No. 111 700353881PKU-1	 <small>This product meets Green Seal's environmental standards governing energy efficiency, heavy metals in the frame and sash materials packaging and consumer education materials.</small>

Meets or exceeds N.E.C., C.E.C., & I.E.C.C. Air Infiltration Requirements. WDMA Hallmark Certification Program



NOTE:

THE CONTRACTOR/OWNER ASSUMES ALL RESPONSIBILITY FOR LOCAL CODE COMPLIANCE. ALL DRAWINGS, PLANS, SKETCHES ETC. ARE PROVIDED TO OUR CLIENTS BASED UPON INFORMATION PROVIDED BY THE CLIENT AND DRAIN IN ACCORDANCE WITH COMMON BUILDING PRACTICES AND LOCAL CODES. NONE OF THE EMPLOYEES OF CDT ARE REGISTERED ARCHITECTS, ENGINEERS OR LAND SURVEYORS. ALL DIMENSIONS AND SPECIFICATIONS SHALL BE VERIFIED.

1. Contractor/owner responsible for securing all necessary permits.