## DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



# CITY OF PORTLAND BUILDING PERMIT



This is to certify that CHAD THOMPSON

Located At 93 WESTLAND AVE

Job ID: 2011-07-1652-ALTR

CBL: 197- L-004-001

has permission to Amend Permit #2011-07-1652 with Structural Framing Modifications, ½ bath not approved provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of the Statues of Maine and of the Ordinances of the City of Portland regulating the construction, maintenance and use of the buildings and structures, and of the application on file in the department.

Notification of inspection and written permission procured before this building or part thereof is lathed or otherwise closed-in. 48 HOUR NOTICE IS REQUIRED.

A final inspection must be completed by owner before this building or part thereof is occupied. If a cartificate of occupancy is required, it must be

Fire Prevention Officer

Code Enforcement Officer / Plan Reviewer

THIS CARD MUST BE POSTED ON THE STREET SIDE OF THE PROPERTY
PENALTY FOR REMOVING THIS CARD

# City of Portland, Maine - Building or Use Permit Application

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

Job No: 2011-07-1652-ALTR 2011-12859-AMEND	Date Applied: 11/07/2011		CBL: 197- L-004-001				
Location of Construction: 93 WESTLAND AVE	Owner Name: CHAD THOMPSON		Owner Address: 93 WESTLAND AN PORTLAND, ME (	Phone: 207-749-7778			
Business Name:	Contractor Name: Paul White		Contractor Addr Verrill St., Portla			Phone: 207-650-4817	
Lessee/Buyer's Name:	Phone:		Permit Type: BLDG - Building-a	mendment		Zone:	
Past Use: Single family		ne – Single family – amend mit #2011-07-1652- adding		Cost of Work:  5000.00  Fire Dept:  Approved Denied N/A  Signature:			
Proposed Project Description 12' x 14' addition & extnsion od 2s Permit Taken By:			Scenature B				
<ol> <li>This permit application d Applicant(s) from meetin Federal Rules.</li> <li>Building Permits do not is septic or electrial work.</li> <li>Building permits are void within six (6) months of the False informatin may invested permit and stop all work.</li> </ol>	include plumbing,  I if work is not started the date of issuance.  ralidate a building	Shorelar Shorelar Settlered Subdivis	sion MinMM	Zoning Appeal  Variance  Miscellaneous  Conditional Use  Interpretation  Approved  Denied  Date:	Does not I	et or Landmark Require Review Review	

SIGNATURE OF APPLICANT ADDRESS DATE PHONE

to enforce the provision of the code(s) applicable to such permit.

DWM FOOTINGS/Serbacks, No one There. Sooting has been poured

10-28-11 DWM Close-in full: Strap topplates, Provide: 1) revised plan + framms plan showms bathroom on 2nd Stoor including ceiling height + all Staming details + beams, 2) Postms regularments (LVI)

3) LVL specifications

4) outlets as needed

3-21-13 DWM/BKL Chad Final Provide. Cap gas I'me in basement.

PE SDS, Tamper resistant GFJs, Junction box for range circuit

3-29-12 Dwm Chad Fmal OK

12-29-11 DWM Chad 749-7778 Close-in OK

## **BUILDING PERMIT INSPECTION PROCEDURES**

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

or email: buildinginspections@portlandmaine.gov

With the issuance of this permit, the owner, builder or their designee is required to provide adequate notice to the city of Portland Inspections Services for the following inspections. Appointments must be requested 48 to 72 hours in advance of the required inspection. The inspection date will need to be confirmed by this office.

- Please read the conditions of approval that is attached to this permit!! Contact this office if you have any questions.
- Permits expire in 6 months. If the project is not started or ceases for 6 months.
- If the inspection requirements are not followed as stated below additional fees may be incurred due to the issuance of a "Stop Work Order" and subsequent release to continue.

Close In Elec/Plmb/Frame prior to insulate or gyp

Final Inspection

The project cannot move to the next phase prior to the required inspection and approval to continue, REGARDLESS OF THE NOTICE OF CIRCUMSTANCES.

IF THE PERMIT REQUIRES A CERTIFICATE OF OCCUPANCY, IT MUST BE PAID FOR AND ISSUED TO THE OWNER OR DESIGNEE BEFORE THE SPACE MAY BE OCCUPIED.

Strengthening a Remarkable City, Building a Community for Life . www.portlandmaine.gov

Director of Planning and Urban Development Penny St. Louis

Job ID: 2011-07-1652-ALTR

Located At: 93 WESTLAND AVE CBL: 197- L-004-001

## **Conditions of Approval:**

## Zoning

1. All conditions from previous permit (#2011-07-1652) are still in force with the issuance of this permit.

## Building

- 1. Application approval based upon information provided by applicant, including updated plans from the structural engineer. Any deviation from approved plans requires separate review and approval prior to work.
- 2. Separate permits are required for any electrical, plumbing, sprinkler, fire alarm, HVAC systems, heating appliances, including pellet/wood stoves, commercial hood exhaust systems and fuel tanks. Separate plans may need to be submitted for approval as a part of this process.
- 3. The 2<sup>nd</sup> floor half-bath is not approved due to noncompliance with 6'8" headroom requirements.
- 4. All previous approvals and inspections apply.

## Fire

- 1. All construction shall comply with City Code Chapter 10.
- 2. All smoke detectors and smoke alarms shall be photoelectric.
- 3. Hardwired Carbon Monoxide alarms with battery back up are required on each floor.

# Remit - 2011-07-1612 arendret -2011-1289

Location/Address of Construction:

# 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.

93 Westland Ave Portland, ME 04102

Total Square Footage of Proposed Structure/A	rea	Square F	ootage of Lot		Number of Stories
Tax Assessor's Chart, Block & Lot	Applicant *	must be ow	mer, Lessee or B	IVer*	Telephone:
Chart# Block# Lot#	Name (			_,	i deprione.
197 L Y					749-7778
///	Address 9	_			
	City, State &	k Zip Por	Hand, ME o	4102	
Lessee/DBA (If Applicable)	Owner (if d	ifferent fro	om Applicant)	Co	st Of
	Name	_		W	ork: \$ 10,000
	Address	Same		C	of O Fee: \$
	City, State 8	k Zip			tal Fee: \$
	•	•		10	tal Fee: \$
	<u> </u>	<del></del>			
Current legal use (i.e. single family)  If vacant, what was the previous use?  Society of the previous use?	tomily	N	fumber of Reside	ntial Un	nits
Proposed Specific use:	gme	· · · · · · · · · · · · · · · · · · ·	<del></del>	<del>-</del>	
Proposed Specific use:  Is property part of a subdivision?  N	• I	f yes, pleas	e name		
Project description: Addition of half					1
		,	4.0		4.4
Contractor's name: Paul White	7 17000	na um	e existing	perm	
Address: Vern'll St.			<del></del>		
City, State & Zip Portland, ME	<del></del>	· · · · · · · · · · · · · · · · · · ·			650-4817
	CII	7			none: <u>650-4817</u>
Who should we contact when the permit is read	y: Chad	Momp	Son	Teleph	none:
Mailing address: 93 Westland Ave.	Portland,	ME	04102	-	
Please submit all of the information	outlined o	n the ap	plicable Chec	klist.	Failure to
do so will result in the	automatic	denial c	of your permi	t.	
					_
n order to be sure the City fully understands the					
nay request additional information prior to the iss	uance or a pe	oline at way	rurtner intormatic	on or to	on by the Inspections
his form and other applications visit the Inspection Division office, room 315 City Hall or call 874-8703.  Thereby certify that I am the Owner of record of the make I have been authorized by the owner to make this away of this jurisdiction. In addition, if a permit for wor authorized representative shall have the authority to en	MIS IDIVISION O	II-IIIC at <u>ww</u>	w.portuariomanic.g	<u>,0 v</u> , 01 31	op by the inspections
hereby certify that I am the Owner of record of the na	amed property	, or that the	owner of record a	uthorize	s the proposed work and
hat I have been authorized by the owner to make this	application as l	his/her auth	orized agent. I ag	ree to con	form to all applicable
aws of this jurisdiction. In addition, it a permit for wor authorized representative shall have the authority to en	k described in ter all areas cov	unis applicativered by this	uon is issued, i cer s permit at anv reas	onable.	the Code Officials
provisions of the codes applicable to this permit.			1	- C	
	<del></del>	<del></del>	<del> </del>	<del></del>	8,0
Signature:	Dat	te: (1	2/11		\$\tilde{S}\t
This is not a permit; you may r	ot commen	ce ANY w	ork until the pe	rmit is	issued

## Jeanie Bourke - Re: 93 Westland

From: Chris Pirone

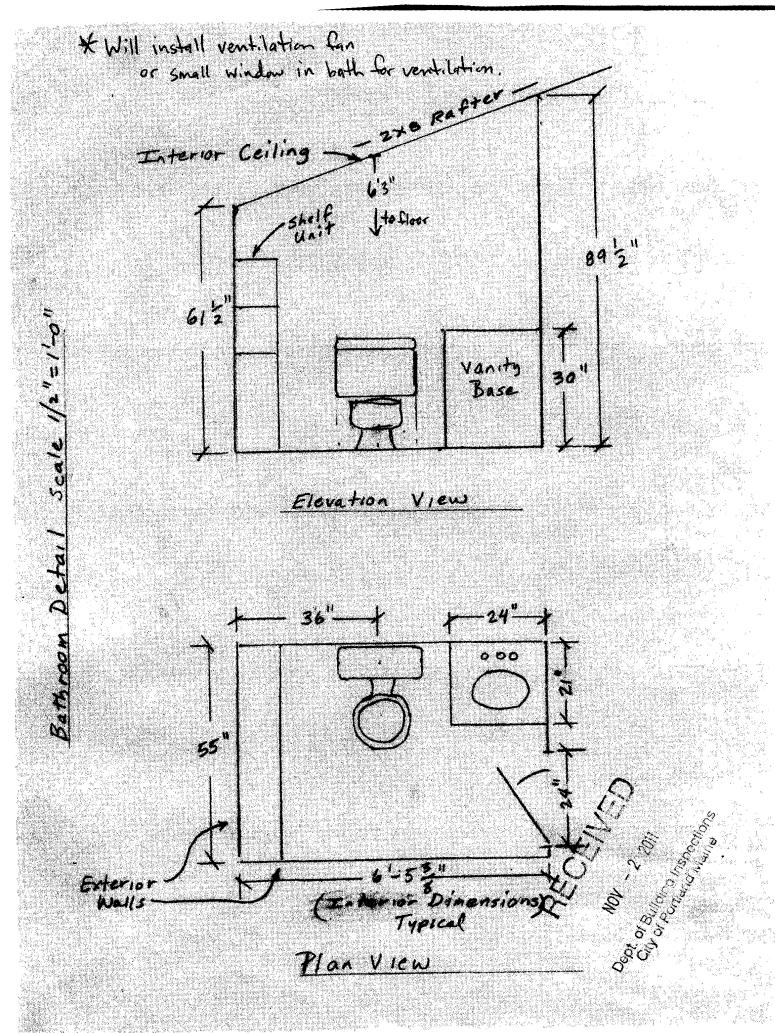
To: Jeanie Bourke Date: 11/6/2011 4:00 PM Subject: Re: 93 Westland

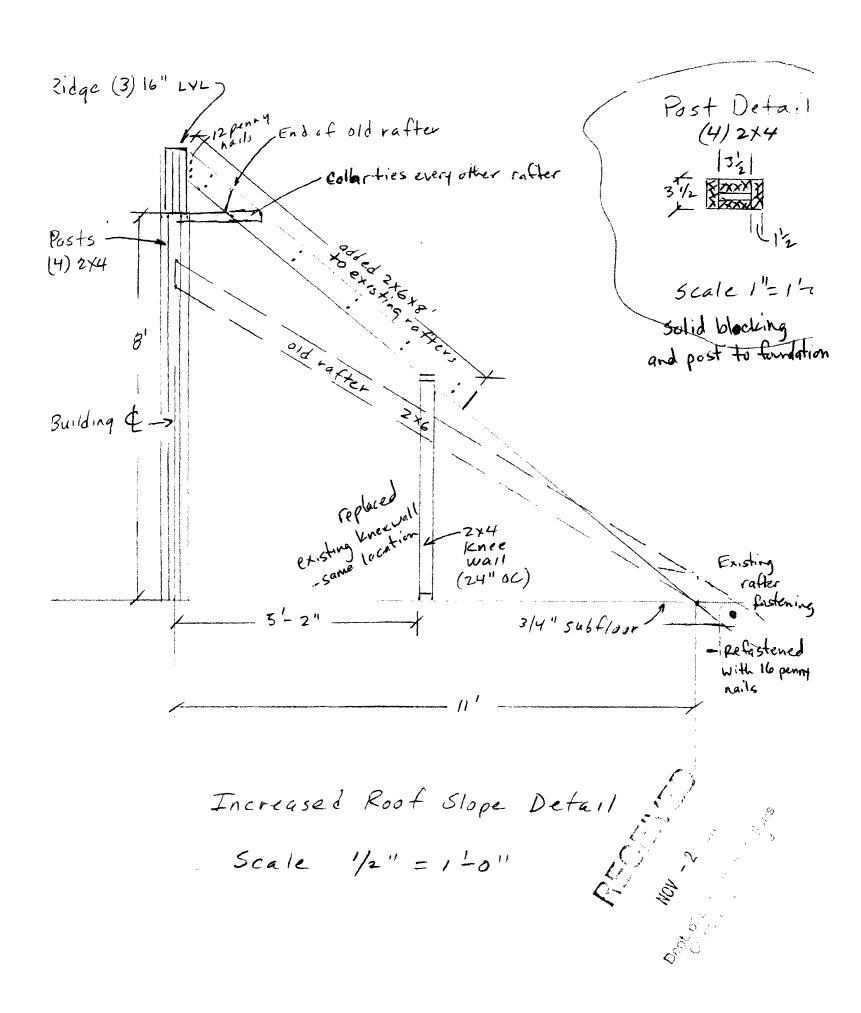
No sprinklers. Ben approved the permit and because of timing of changes in ordinances I could not require sprinklers.

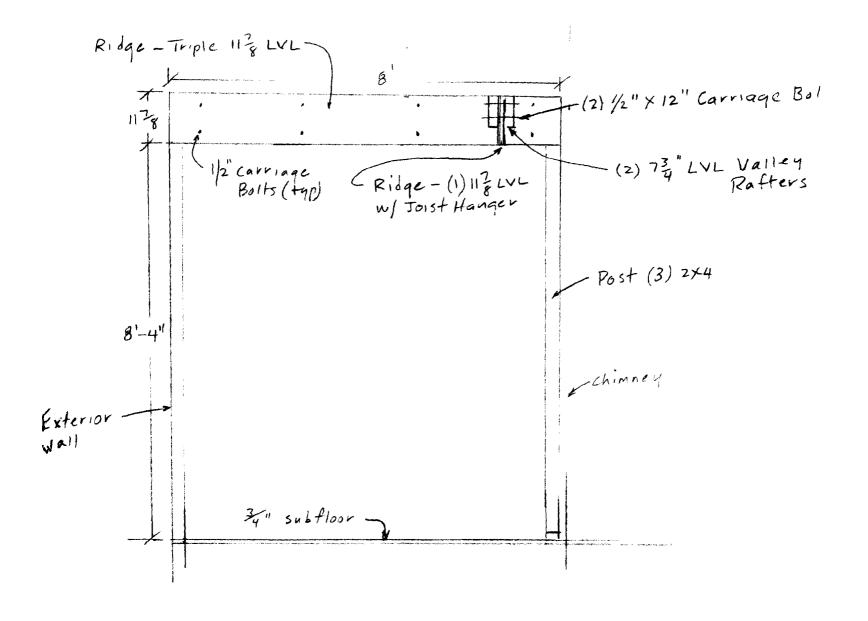
Captain Chris Pirone Portland Fire Department Fire Prevention Bureau 380 Congress Street Portland, ME 04101 (t) 207.874.8405 (f) 207.874.8410

>>> Jeanie Bourke 10/31/2011 11:14 AM >>> Did you inspect this property, if so, are you requiring sprinklers?

The owner Chad Thompson needs to amend the permit and I want to make sure we are on the same page. **Thanks** 



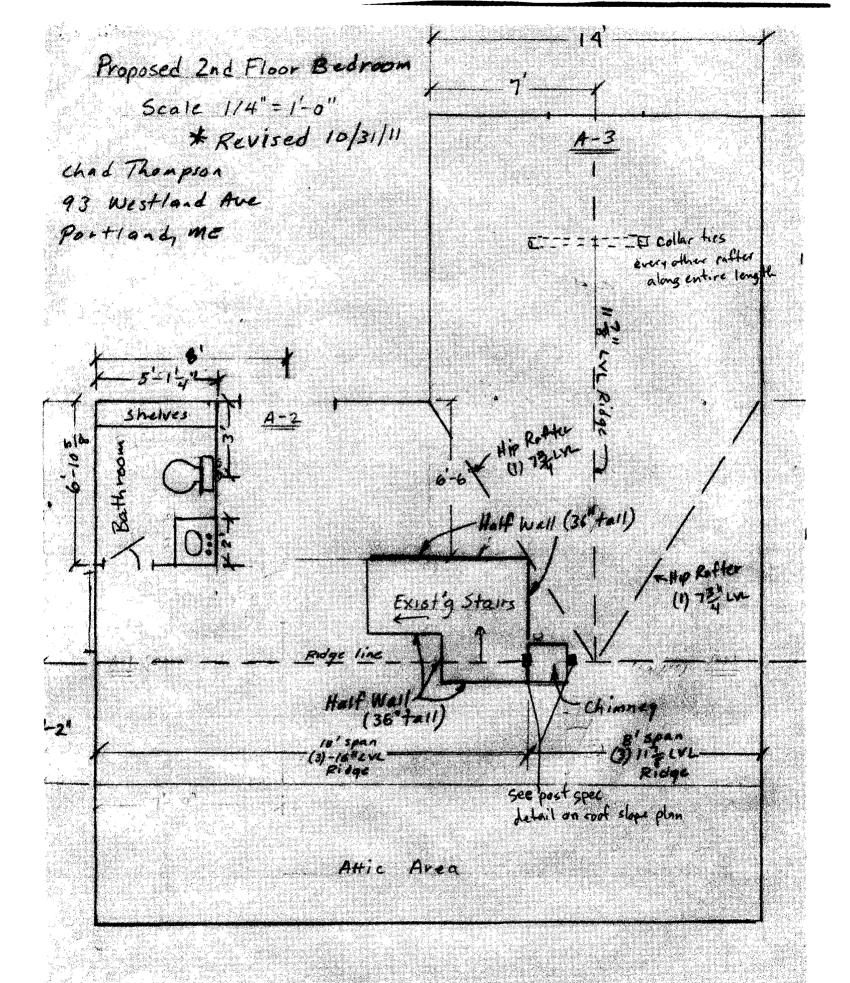




RIDGE and Valley Rafter Detail

Scale 1/2" = 1'-0"

Chad Thompson 93 Westland Ave Portland ME





## Triple 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP

## Roof Beam\RB02

BC CALC® 3.0 Design Report - US Build 440

1 span | No cantilevers | 0/12 slope

Monday, November 14, 2011

Job Name:

Address: City, State, Zip:, Customer:

Customer: Code reports: ESR-1040 File Name: BC CALC Project

Description: Ridge beam on right side of chimney

Specifier: Designer: Company: Misc:

12 0

08-00-00

B0 DL 1,170 lbs SL 4,675 lbs B1 DL 793 lbs SL 2,929 lbs

Total of Horizontal Design Spans = 08-00-00

						Live	Dead	Snow	Wind	Roof Live	Trib. (in.)
L	oad Summary										
	g Description	Load Type	Ref.	Start	End	100%	90%	115%	160%	125%	_
1	Standard Load	Unf. Area (psf)	L	00-00-00	08-00-00		15	60			11-00-00
2	Reaction from Designs\RB01.	Conc. Pt. (Îbs)	i_	01-00-00	01-00-00		502	2,324			n/a

<b>Controls Summary</b>	Value	% Allowable	Duration	Case	Span
Pos. Moment	8,220 ft-lbs	22.4%	115%	3	1 - Internal
End Shear	4,771 lbs	35.0%	115%	3	1 - Left
Total Load Defl.	L/1,454 (0.066")	12.4%		3	1
Live Load Defl.	L/1,839 (0.052")	13.1%		3	1
Max Defl.	0.066"	6.6%		3	1
Span / Depth	8.1	n/a			1

## **Cautions**

For roof members with slope (1/4)/12 or less final design must ensure that ponding instability will not occur.

For roof members with slope (1/2)/12 or less final design must account for Rain-on-Snow surcharge load.

### **Notes**

Design meets Code minimum (L/180) Total load deflection criteria.

Design meets Code minimum (L/240) Live load deflection criteria.

Design meets arbitrary (1") Maximum load deflection criteria.

Minimum bearing length for B0 is 1-1/2".

Minimum bearing length for B1 is 1-1/2".

Entered/Displayed Horizontal Span Length(s) = Clear Span + 1/2 min. end bearing +

1/2 intermediate bearing

Fastener Manufacturer: TrussLok (tm)

## Disclosure

Completeness and accuracy of input must be verified by anyone who would rely on output as evidence of suitability for particular application. Output here based on building code-accepted design properties and analysis methods. Installation of BOISE engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.

BC CALC®, BC FRAMER®, AJS™, ALLJOIST®, BC RIM BOARD™, BCI®, BOISE GLULAM™, SIMPLE FRAMING SYSTEM®, VERSA-RIM PLUS®, VERSA-RIM®, VERSA-STRAND®, VERSA-STUD® are trademarks of Boise Cascade, L.L.C.





## Triple 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP

## Roof Beam\RB02

BC CALC® 3.0 Design Report - US Build 440

1 span | No cantilevers | 0/12 slope

Monday, November 14, 2011

Job Name: Address:

City, State, Zip:, Customer:

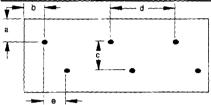
File Name: BC CALC Project

Description: Ridge beam on right side of chimney

Specifier: Designer: Company: Misc:

Code reports: ESR-1040

## **Connection Diagram**



a minimum = 2" b minimum = 4"

c = 7-7/8" d = 24"

e minimum = 1"

Connection design assumes point load is 'top-loaded'. For connection design of 'side-loaded' point loads, please consult a technical representative or professional of Record. All TrussLok screws may be installed from one side of multiple ply VERSA-LAM beams. All TrussLok screws may be installed from one side of multiply Versa-Lam beams. Member has no side loads.

Concentrated loads are not considered in side load analysis.

Connectors are: FMTSL005

### **Disclosure**

Completeness and accuracy of input must be verified by anyone who would rely on output as evidence of suitability for particular application. Output here based on building code-accepted design properties and analysis methods. Installation of BOISE engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.

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## Jeanie Bourke - FW: 93 Westland avenue

From: To:

"Chad Thompson" <cthompson@pwd.org>
"Jeanie Bourke" <JMB@portlandmaine.gov>

Date:

11/18/2011 1:55 PM FW: 93 Westland avenue

Subject: FW: 93 Westland avenue
Attachments: 93 Westland Street-Thompson Residence.pdf

Hello Jeanie.

Here is the technical review and remediation plans from my structural engineer. Please let me know if you have any questions. If at all possible, I would love to discuss any questions you have today so I can get started on making the improvements this weekend.

Thanks, Chad

From: Daniel Owril [mailto:mainehaole@gmail.com]

Sent: Friday, November 18, 2011 1:48 PM

To: Chad Thompson Cc: dan.owril@gmail.com Subject: 93 Westland avenue

Chad,

Attached are my recommendations regarding your residence at 93 Westland Avenue. Let me know if you need any aditional analysis or recommendations going forward. Thanks for considering me for this project, I appreciate it.

## DAN

# Chad Thompson Source Protection Coordinator

Portland Water District 225 Douglass Street, PO Box 3553

Portland, ME 04104 Phone: 774-5961 Ext. 3323

Fax: 207-892-0041

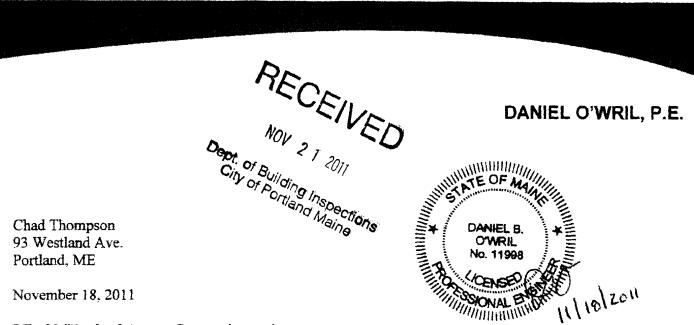
E-mail: cthompson@pwd.org

http://www.pwd.org



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RE: 93 Westland Avenue Renovation project

On November 3, 2011 we met at your property located at 93 Westland Avenue in Portland, Maine. The residence was under construction at the time of my visit. The exterior walls were sheathed, the roof was sheathed, and the shingles were in place on the roof. From the interior of the building, the roof and wall framing were visible as no interior wall finishes were applied.

You instructed me that a building inspector from the City of Portland had reviewed the roof framing during a routine inspection and had specific concerns regarding the structural integrity of the roof framing. I reviewed two specific framing issues per your request.

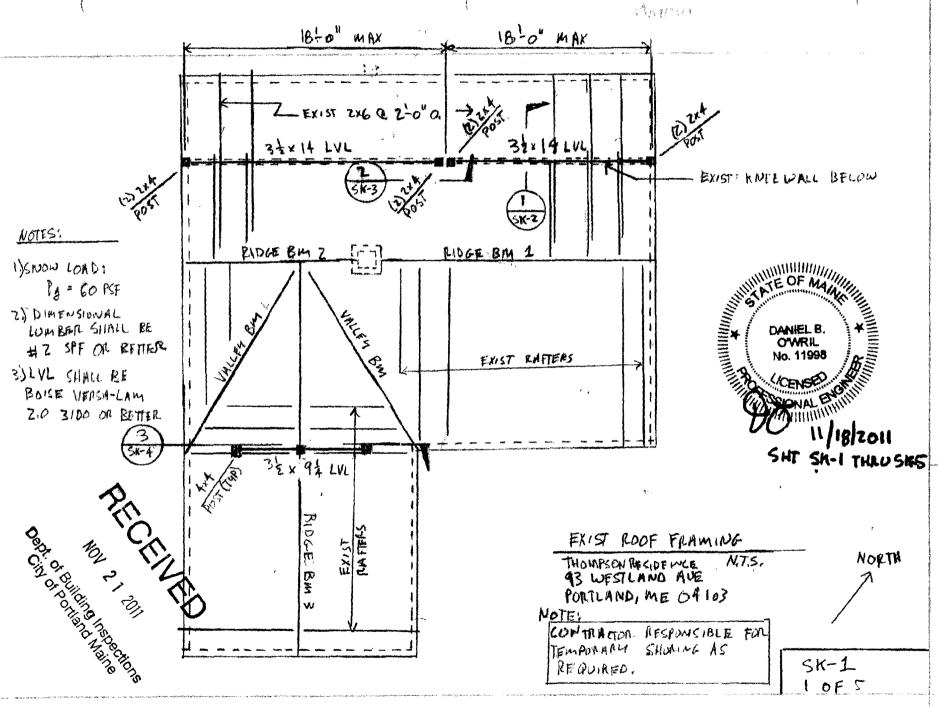
The first item I reviewed was a ridge beam running from the southwest side of the house (labeled Ridge Beam 3 on Sketch SK-1). The ridge beam is a 1 3/4"x 11 7/8"LVL, and spans approximately 23'-0". This existing ridge beam was found to be overstressed according to current building code requirements. It is recommended that the contractor install a vertical support to reduce the span of the ridge beam to meet current building code requirements. The installation of this support is detailed on the attached sketches.

The second issue I reviewed was the roof rafters on the North side of the building. The original roof was reportedly lifted at the ridgeline to allow for more living space on the second floor. The rafters currently bear on the exterior wall at one end, a new knee wall at center span, and a new ridge beam at the other end. The new knee wall at center span is supported by the second floor framing. New rafters were sistered alongside the existing rafters to span from the knee wall to the center ridgeline. Upon review of this framing for code compliance, I found that the floor below the knee wall lacked the structural capacity to carry the roof loads from above. I recommend removing the existing knee wall and installing two LVL beams to remove the roof load from the existing floor framing. Details of this recommended repair are shown on the attached sketches.

I trust this letter will and the attached sketches will meet your current needs. Please don't hesitate to contact me if you or your contractor has any questions regarding the recommended repairs.

Daniel B. O'Wril, P.E.

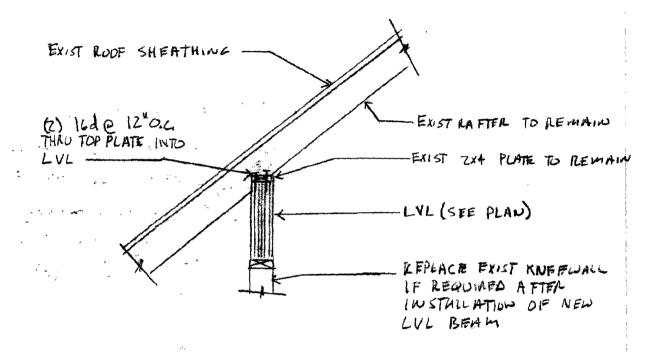
Attached: Sketches SK-1 thru SK-5



# RECEIVED

NOV 2 1 2011

Dept. of Building Inspections City of Portland Maine



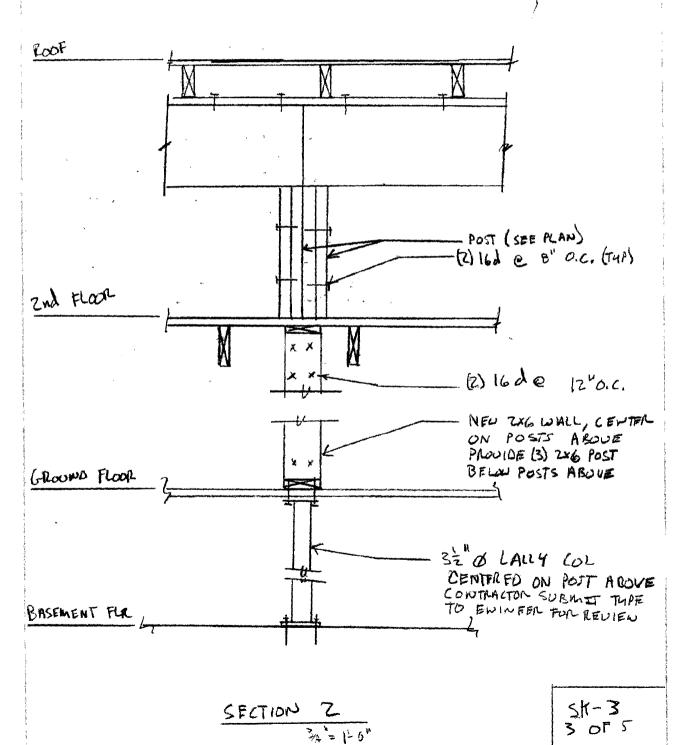
SECTION 1 REF 3K-1 3/4"= 110"

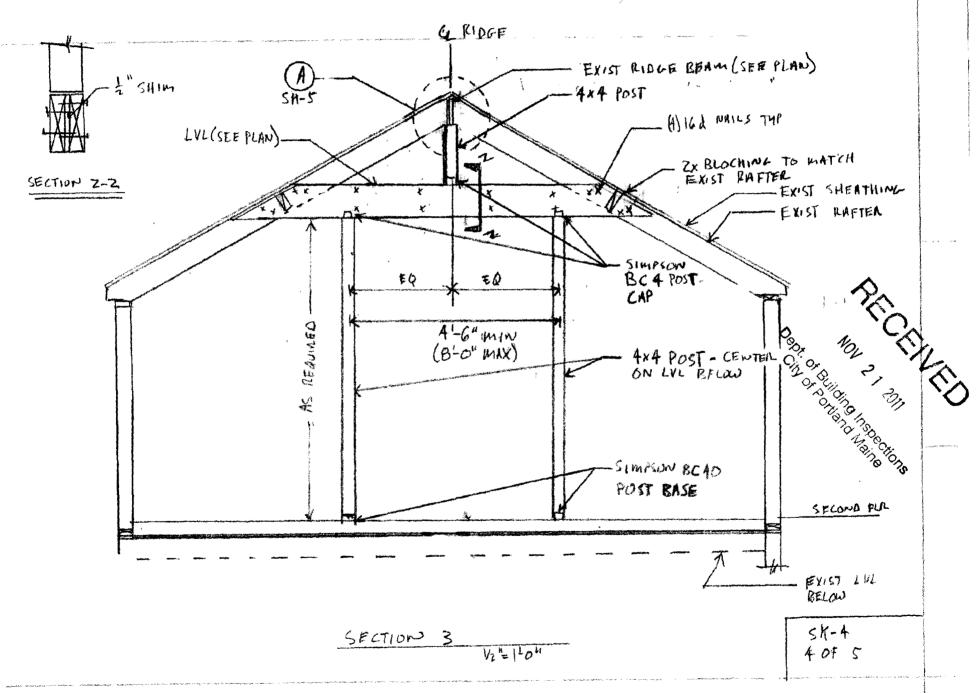
> \$K-Z Z OF \$

# **RECEIVED**

NOV 2 1 2011

Dept. of Building Inspections City of Portland Maine



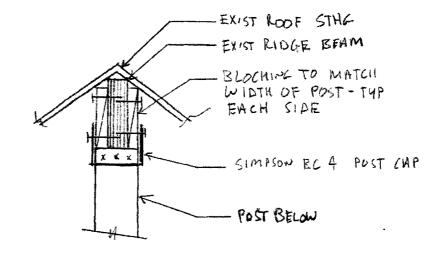


RECEIVED

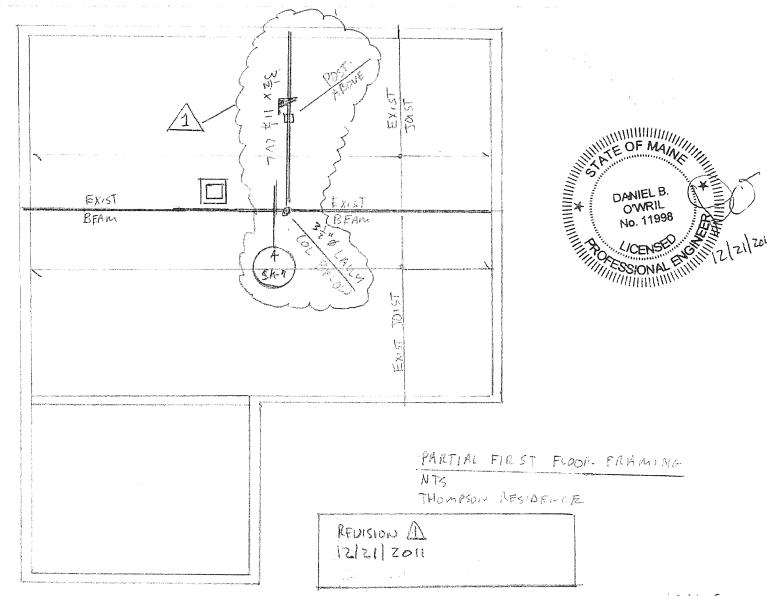
NOV 21 2011

Dept. of Building Inspections

Dept. of Portland Maine



DETAIL A 12"= 1-0"



SK-6

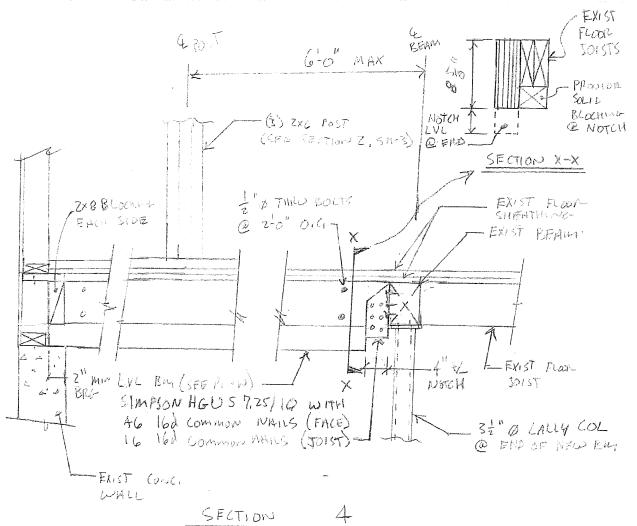
DANIEL B.
O'WRIL
No. 11998

CENSE A = REUISION 1, 12/21/2011 12/21/2011 ROOF - POST (SEE PLAN)
(2) 161 @ 8" O.C. (TUP) 2nd FLOOR (2) 16 de 12º0.c. (2) lb d NAILS NEW ZX6 WALL, CENTER PLATE INTO LVL -PROUIDE (3) ZX6 POST BELOW POSTS ABOVE GROUND FLOOR VL CENTER ON POST BROWE

SECTION Z

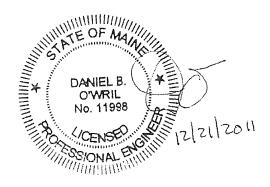
SK-3 3 of 5

BASEMENT FLR



SECTION 4

REVISION (1)
12/21/2011



## Jeanie Bourke - FW: 93 Westland Basement LVL

From:

"Chad Thompson" <cthompson@pwd.org>

To:

"Jeanie Bourke" < JMB@portlandmaine.gov>

Date:

12/22/2011 10:25 AM

Subject:

FW: 93 Westland Basement LVL Attachments: 93 Westland-REV 1 - 12-21-2011.pdf

Hello Jeanie,

Please find an engineer's drawing describing the posting of the LVL in the upstairs that was added to support the building's original roof at the kneewall. This modified drawing now includes an additional LVL and Simpson hanger in the basement that we decided to add so that the lolly column posting could be moved to the center-line of the building.

Please add the above document to my file. I believe it is a very straight forward and minor addition to the project, but please let me know if there are any procedural steps I need to take. Please also feel free to contact me with any questions.

Thanks, Chad 749-7778

**Chad Thompson Source Protection Coordinator** 

Portland Water District 225 Douglass Street, PO Box 3553 Portland, ME 04104

Phone: 774-5961 Ext. 3323

Fax: 207-892-0041

E-mail: cthompson@pwd.org

http://www.pwd.org

DEC 22 2011

Dept. of Building Inspections City of Portland Maine

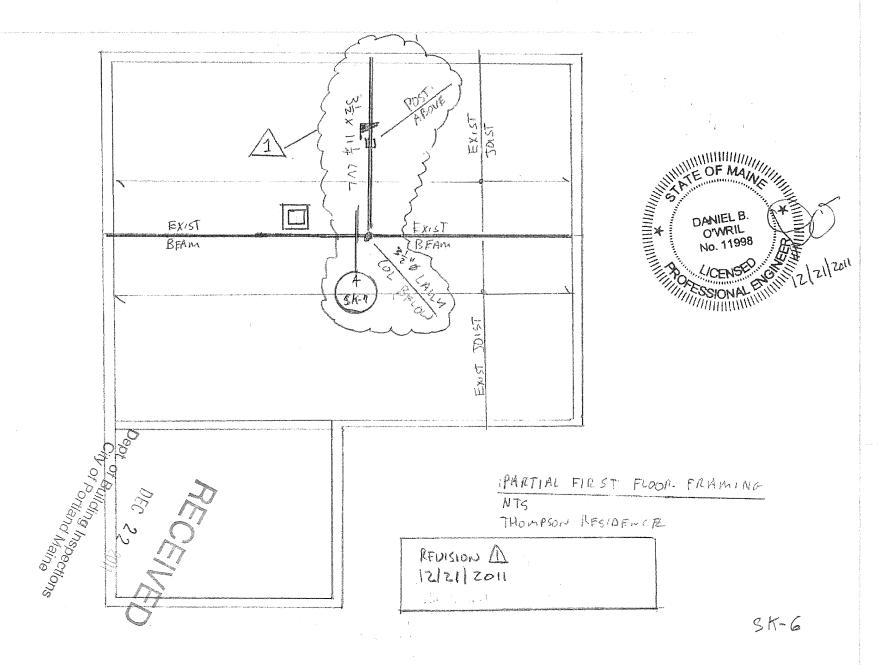


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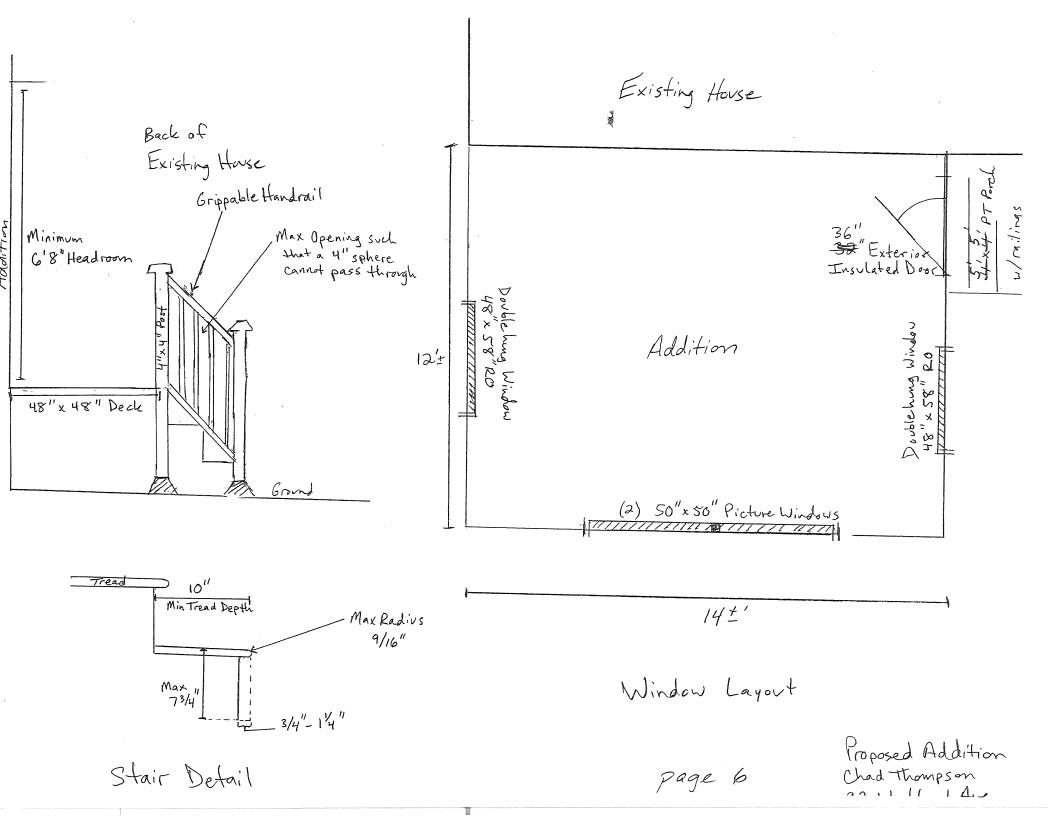
From: Daniel Owril [mailto:mainehaole@gmail.com] Sent: Thursday, December 22, 2011 12:03 AM

To: Chad Thompson



DANIEL B.
O'WRIL
No. 11998

CENSE A = REUISION 1, 12/21/2011 12/21/2011 ROOF - POST (SEE PLAN)
(2) 16d @ B" O.C. (TUP) znd Floor (2) 16 de 12º0.c. (2) lod NAILS @ Z'O" O,C, THRW PLATE INTO LYL NEW TXG WALL, CENTER PROVIDE (3) 2×6 POST BELOW POSTS ABOVE GROUND FLOOR LYL CENTER ON POST ABOUR A 54-7 BASEMENT FLAC DEC 22 2017 Dept. of Building Inspections SECTION Z 0/8% St-3 3 of 5



Plot Plan 93 Westland Ave Lot sin - 19,000 th - entry post 6'X6's not front 20' or averye - Magness 21.5 phovse measur Chad Thompson rear 20' - 41 g van bodd. Hon 60 Side - 2 spore - 12! - beten berow #9 given but borrowing from otherside 69 Losse 616 lot carenge - 400 = 4000 Sarge. 240 14x12=168 4×4 16 3×4 = 12 1952 a ok. 31 14±' Garage Dormer 49±1 Jaribou St. 100' westland Ave



## Triple 1-3/4" x 16" VERSA-LAM® 2.0 3100 SP

Roof Beam\RB01

BC CALC® 3.0 Design Report - US Build 440

1 span | No cantilevers | 0/12 slope

Thursday, June 30, 2011

Job Name:

Thompson

Address:

City, State, Zip: Portland, ME

Customer:

Code reports: ESR-1040

File Name: BC CALC Project

Description: RB01

Specifier: Designer: Company: Misc:

18-00-00

RΩ

DL 1,698 lbs SL 5,544 lbs

В1 DL 1,698 lbs SL 5,544 lbs

Total of Horizontal Design Spans = 18-00-00

					Live	Dead	Snow	Wind	Roof Live	Trib. (in.)
Load Summary										` ,
Tag Description	Load Type	Ref.	Start	End	100%	90%	115%	160%	125%	
1 Standard Load	Unf. Area (psf)	1 (	00-00-00	18-00-00		15	56			11-00-00

<b>Controls Summary</b>	Value	% Allowable	Duration	Case	Span
Pos. Moment	32,588 ft-lbs	50.6%	115%	3	1 - Internal
End Shear	6,110 lbs	33.3%	115%	3	1 - Left
Total Load Defl.	L/407 (0.53")	44.2%		3	1
Live Load Defl.	L/532 (0.406")	45.1%		3	1
Max Defl.	0.53" `	53.0%		3	1
Span / Depth	13.5	n/a			1

## Cautions

For roof members with slope (1/4)/12 or less final design must ensure that ponding instability

For roof members with slope (1/2)/12 or less final design must account for Rain-on-Snow surcharge load.

## **Notes**

Design meets Code minimum (L/180) Total load deflection criteria.

Design meets Code minimum (L/240) Live load deflection criteria.

Design meets arbitrary (1") Maximum load deflection criteria.

Minimum bearing length for B0 is 1-7/8".

Minimum bearing length for B1 is 1-7/8".

Entered/Displayed Horizontal Span Length(s) = Clear Span + 1/2 min. end bearing +

1/2 intermediate bearing

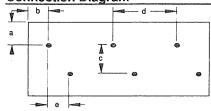
Fastener Manufacturer: TrussLok (tm)

## Disclosure

Completeness and accuracy of input must be verified by anyone who would rely on output as evidence of suitability for particular application. Output here based on building code-accepted design properties and analysis methods. Installation of BOISE engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.

BC CALC®, BC FRAMER®, AJS™ ALLJOIST®, BC RIM BOARD™, BCI®, BOISE GLULAM™, SIMPLE FRAMING SYSTEM®, VERSA-LAM®, VERSA-RIM PLUS®, VÉRSA-RIM®. VERSA-STRAND®, VERSA-STUD® are trademarks of Boise Cascade, L.L.C.

## **Connection Diagram**



a minimum = 2"

c = 12"

b minimum = 4"

d = 24"

e minimum = 1"

All TrussLok screws may be installed from one side of multiple ply VERSA-LAM beams. All TrussLok screws may be installed from one side of multiply Versa-Lam beams.

Member has no side loads. Connectors are: FMTSL005

Page 1 of 1

## Jonathan Rioux - RE: Thompson building permit

From:

"Chad Thompson" <cthompson@pwd.org>

To:

"Jonathan Rioux" <JRIOUX@portlandmaine.gov>

Date:

7/29/2011 9:45 AM

Subject:

RE: Thompson building permit

Thanks Jon.

I think you forgot to attach the crawl space ventilation/ access: window height, and minimal room area/ ceiling height requirements. Please go ahead and do that so I can make sure we do it right.

I believe the new roof pitch will only increase the head room for the existing stairs. Yes, the proposed crawl space is attached to the existing foundation.

Thanks again, Chad

From: Jonathan Rioux [mailto:JRIOUX@portlandmaine.gov]

**Sent:** Friday, July 29, 2011 9:25 AM

**To:** Paul White **Cc:** Chad Thompson

Subject: Re: Thompson building permit

Chad,

Your permit will be in the mail today. I've attached the crawl space ventilation/ access: window height, and minimal room area/ ceiling height requirements.

Is any part of the renovation(s) [roof pitch] affecting the existing stairwell minimal headroom requirements, and is the proposed crawl space connected to an existing foundation? JGR.

Jonathan Rioux

Code Enforcement Officer/ Plan Reviewer

City of Portland
Planning and Urban Development Department
Inspection Services Division
389 Congress St. Rm 315
Portland, ME 04101
Office: 207.874.8702
Support Staff: 207.874.8703
jrioux@portlandmaine.gov

>>> "Paul White" <pjwhite81@gmail.com> 7/29/2011 7:05 AM >>> Jonathan,

I will attempt to answer your questions below.

- 1. There is no drainage, fabric and damp proofing required, the code requires it for enclosed habitable or usable space only.
- 2. Yes this is crawl space only

- 3. The roof structure will use structural ridges for all locations. Please see attached engineer drawing for 12' span for the addition. All pitches are a 5 pitch. This will allow me to use (2) 2x10 valley rafters which will be hung from the LVL ridge shown on submitted plan #2, for plan view see submitted plan #5, they are supported by being posted to basement along the masonry chimney. I can amend drawing # 5 to show the valley rafters if you like. The addition ridge will tie into this point as well.
- 4. The addition will be used 1<sup>st</sup> floor for dining room, 2<sup>nd</sup> floor for bedroom. The bedroom will meet the code requirement for egress.
- 5. I have a copy of the energy code, chad does plan on meeting the code. He is very concerned about heat loss.
- 6. All framing will comply with the code. The headers will be 2x10 unless they are located under the structural ridges in which case they will be (2) LVLs as noted. Jack studs will be per code, I am using 2x4 framing and doubling jacks where necessary.
- 7. Floor sheathing is ¾" t&g Advantech, CO detectors will be installed per Maine law and headroom is noted on plan. Please note there are areas where the head room is 5 feet which is the minimum allowed in the code.

Please contact me with any question or concerns. 650-4817

Paul White Lone Tree Woodworkers

# Chad Thompson Source Protection Coordinator

Portland Water District 225 Douglass Street, PO Box 3553 Portland, ME 04104

Phone: 774-5961 Ext. 3323

Fax: 207-892-0041

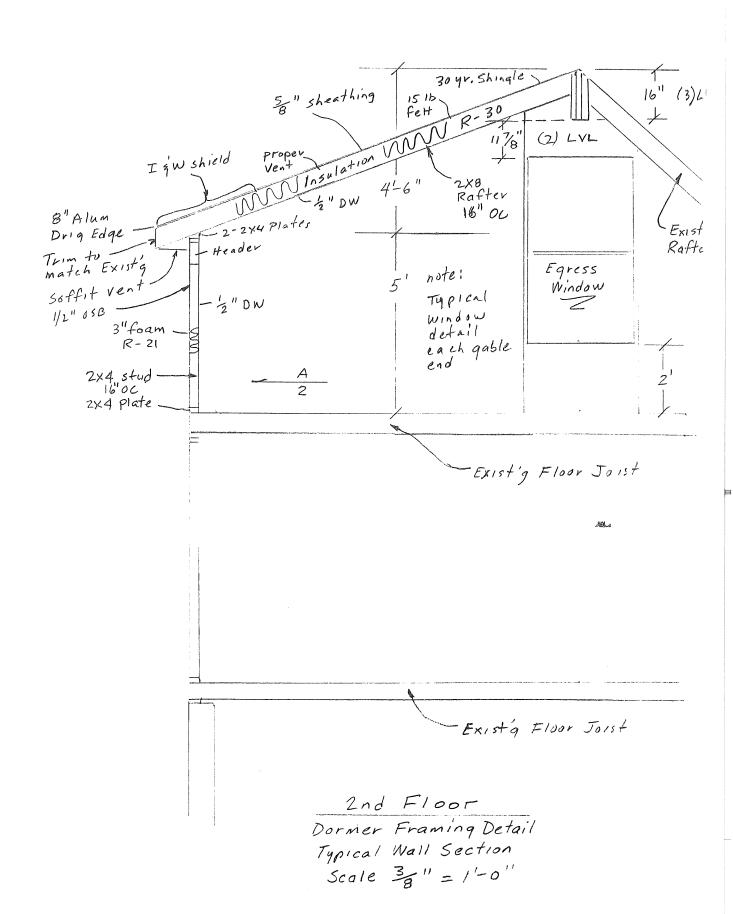
E-mail: cthompson@pwd.org

http://www.pwd.org

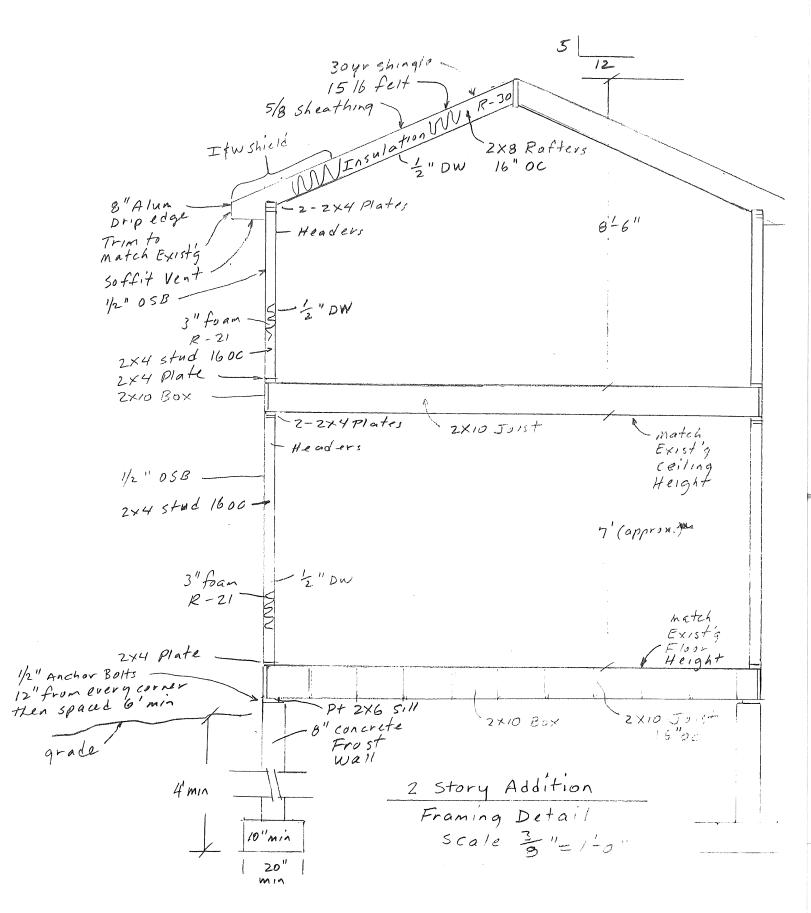


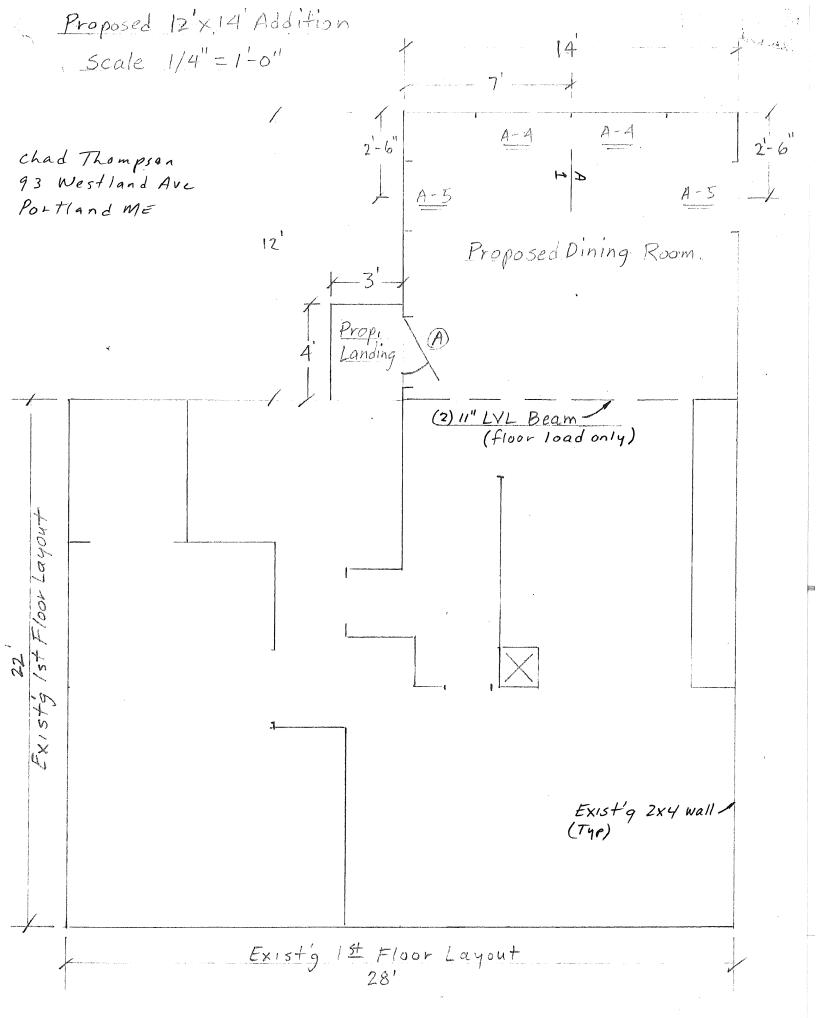
## The Portland Water District NOTICE & DISCLAIMER Confidentiality Notice:

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93 Westland Ave Portland, ME.





page 4



## Double 1-3/4" x 10-1/2" VERSA-LAM® 2.0 3100 SP\*

Floor Beam\FB01

BC CALC® 3.0 Design Report - US Build 440

1 span | No cantilevers | 0/12 slope

Thursday, June 30, 2011

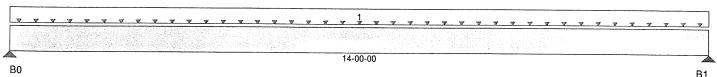
Job Name: Address:

Thompson

City, State, Zip: Portland, ME Customer: Code reports: ESR-1040

File Name: BC CALC Project Description: FB01

Specifier: Designer: Company: Misc:



LL 1,680 lbs DL 492 lbs

LL 1,680 lbs DL 492 lbs

Total of Horizontal Design Spans = 14-00-00										
					Live	Dead	Snow	Wind	Roof Live	Trib. (in.)
Load Summary										()
Tag Description	Load Type	Ref.	Start	End	100%	90%	115%	160%	125%	
<ol> <li>Standard Load</li> </ol>	Unf. Area (psf)	L	00-00-00	14-00-00	40	10				06-00-00

Controls Summary	Value	% Allowable	Duration	Case	Span
Pos. Moment	7,604 ft-lbs	45.1%	100%	1	1 - Internal
End Shear	1,878 lbs	26.9%	100%	1	1 - Left
Total Load Defl.	L/423 (0.397")	56.7%		1	1
Live Load Defl.	L/547 (0.307")	65.8%		1	1
Max Defl.	0.397"`	39.7%		1	1
Span / Depth	16.0	n/a			1

#### Notes

Design meets Code minimum (L/240) Total load deflection criteria. Design meets Code minimum (L/360) Live load deflection criteria. Design meets arbitrary (1") Maximum load deflection criteria.

Minimum bearing length for B0 is 1-1/2". Minimum bearing length for B1 is 1-1/2".

Entered/Displayed Horizontal Span Length(s) = Clear Span + 1/2 min. end bearing + 1/2 intermediate bearing

\* Cut from: 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP

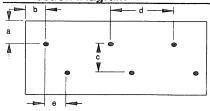
Fastener Manufacturer: TrussLok (tm)

## Disclosure

Completeness and accuracy of input must be verified by anyone who would rely on output as evidence of suitability for particular application. Output here based on building code-accepted design properties and analysis methods. Installation of BOISE engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.

BC CALC®, BC FRAMER® , AJS™, ALLJOIST® , BC RIM BOARD™, BCI® , BOISE GLULAMTM, SIMPLE FRAMING SYSTEM®, VERSA-LAM®, VERSA-RIM PLUS®, VERSA-RIM®, VERSA-STRAND®, VERSA-STUD® are trademarks of Boise Cascade, L.L.C.

## **Connection Diagram**

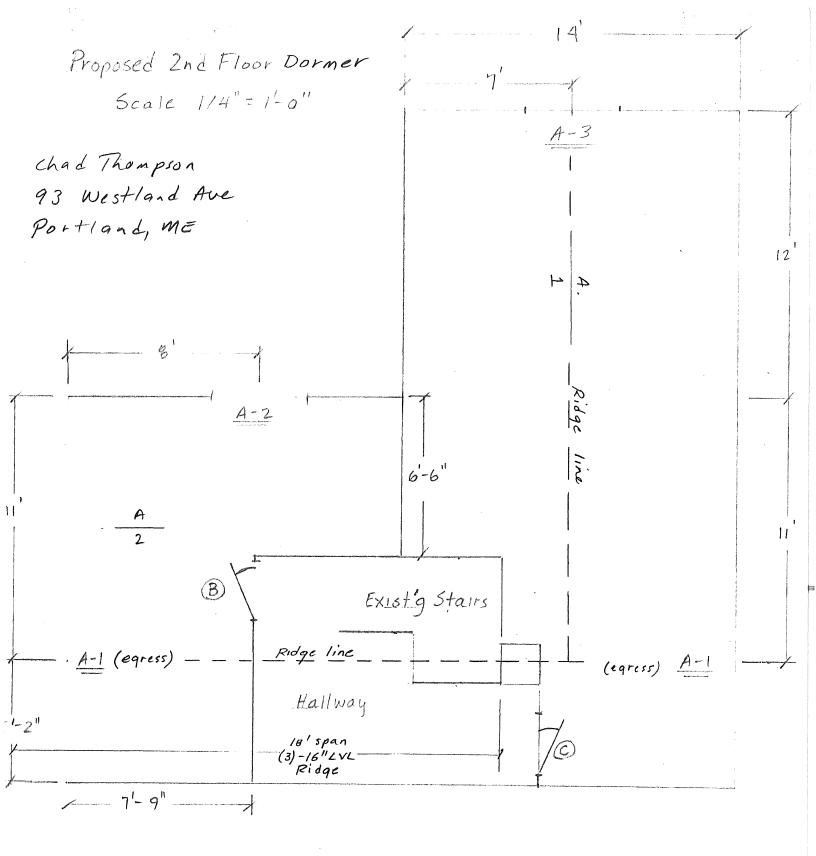


a minimum = 2" c = 6-1/2" d = 24"b minimum = 4"

e minimum = 1"

All TrussLok screws may be installed from one side of multiple ply VERSA-LAM beams. All TrussLok screws may be installed from one side of multiply Versa-Lam beams. Member has no side loads.

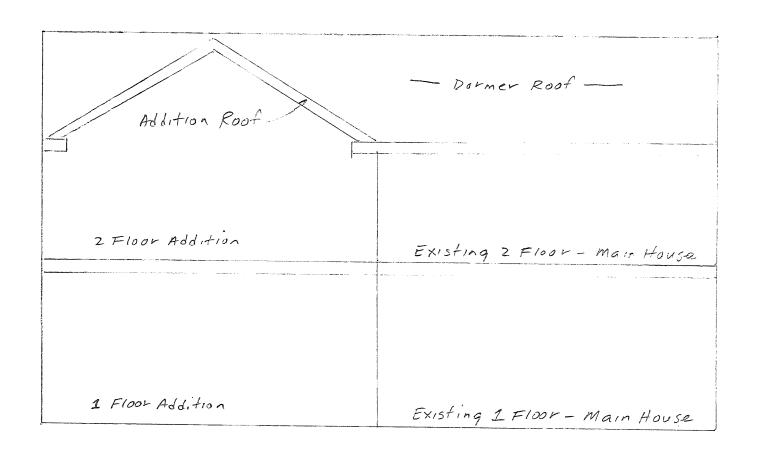
Connectors are: FMTSL338



Attic Area

Sketch showing elevations Scale 1/4" = 1'-0"

A STATE



- Exist'g Roof Addition Roof Dormer Roof 2 Floor Addition Existing 2 Floor - Main House 1 Floor Addition Existing 1 Floor - Main House



## **ICC-ES Evaluation Report**

**ESR-2072** 

Reissued September 1, 2010

This report is subject to re-examination in one year.

www.icc-es.org | (800) 423-6587 | (562) 699-0543

A Subsidiary of the International Code Council®

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION

Section: 07 21 00—Thermal Insulation

## **REPORT HOLDER:**

BAYER MATERIALSCIENCE, LLC 3010 WEST LINCOLN STREET PHOENIX, ARIZONA 85009 (602) 269-9711 www.BaySystemsSpray.com

### **EVALUATION SUBJECT:**

BAYSEAL™ CC AND BAYSEAL™ CC POLAR SPRAY-APPLIED POLYURETHANE FOAM INSULATIONS

### 1.0 EVALUATION SCOPE

#### Compliance with the following codes:

- 2009 International Building Code® (IBC)
- 2009 International Residential Code® (IRC)
- 2009 International Energy Conservation Code<sup>®</sup> (IECC)
- Other Codes (see Section 8)

## Properties evaluated:

- Surface-burning characteristics
- Physical properties
- Thermal resistance
- Attic and crawl space installation
- Air permeability
- Vapor permeance
- Exterior walls in Types I through IV construction

## **2.0 USES**

Bayseal™ CC and Bayseal™ CC Polar spray foam insulations are used as thermal insulating materials in Type I, II, III, IV and V construction under the IBC and dwellings under the IRC. See Section 4.5 for use in Type I, II, III and IV construction. The insulations are for use in wall cavities, floor assemblies or ceiling assemblies, or attics and crawl spaces when installed in accordance with Section 4.0. Use of the insulations in fire-resistance-rated construction is outside the scope of this report.

## 3.0 DESCRIPTION

# 3.1 Bayseal™ CC and Bayseal™ CC Polar Foam Plastic Insulation:

Bayseal™ CC and Bayseal™ CC Polar spray foam insulations are medium-density polyurethane foam plastics

intended to be installed as a component of floor/ceiling and wall assemblies. The materials are two-component, closed cell, one-to-one-by-volume spray foam insulations with a nominal in-place density of 1.9 pcf (30 kg/m³). The insulation is produced in the field by combining a polymeric isocyanate (A component) with a polymeric resin blend (B component). The insulation liquid components have a shelf life of six months, are supplied in nominally 55-gallon (208 L) drums and must be stored at temperatures between 65°F (18°C) and 85°F (29°C).

## 3.2 Surface-burning Characteristics:

The insulation at a maximum thickness of 4 inches (102 mm) and a nominal density of 1.9 pcf (30 kg/m³) has a flame-spread index of 25 or less and a smoke-developed index of 450 or less when tested in accordance with ASTM E 84. Greater thicknesses are recognized as described in Sections 4.3 and 4.4.

## 3.3 Thermal Resistance (R-values):

The insulation has thermal resistance (*R*-value) at a mean temperature of 75°F (24°C) as shown in Table 1.

## 3.4 Vapor Retarder:

The foam plastic has a vapor permeance of less than 1 perm (5.7x10<sup>-11</sup> kg/Pa-s-m<sup>2</sup>) when applied at a minimum thickness of 1 inch (25.4 mm) and qualifies as a vapor retarder.

#### 3.5 Air Permeability:

Bayseal™ CC and Bayseal™ CC Polar spray foam insulations are air-impermeable in accordance with Section R806.4 of the IRC, at a minimum thickness of 0.75-inches (19.1 mm), based on testing in accordance with ASTM E 283.

## 3.6 Bayseal™ IC Intumescent Coating:

Bayseal™ IC intumescent coating is a one-component, water-based polymer coating. Bayseal™ IC intumescent coating is supplied in 5-gallon (19 L) pails and 55-gallon (208 L) drums and has a shelf life of one year when stored in a factory-sealed container at temperatures of 50°F (10°C) or above.

## 3.7 Flame Seal® TB Intumescent Coating:

Flame Seal® TB, manufactured by Flame Seal Products Inc., is a two-component, four-to-one-by-volume, liquid-applied, water-based polymer intumescent coating. The coating is supplied in 5-gallon (19 L) pails and 55-gallon (208 L) drums and has a shelf life of six months when stored in a factory-sealed container at temperatures between 40°F and 90°F (4°C and 32°C).

### 4.0 INSTALLATION

#### 4.1 General:

Bayseal™ CC and Bayseal™ CC Polar spray foam insulations must be installed in accordance with the manufacturer's published installation instructions and this report. A copy of the manufacturer's published installation instructions must be available at all times on the jobsite during installation.

#### 4.2 Application:

The insulation is spray-applied on the jobsite using a volumetric positive displacement pump as identified in the Bayer MaterialScience application instructions. The maximum service temperature must not exceed that specified in the manufacturer's published installation instructions. The foam plastic must not be used in electrical outlet or junction boxes or in contact with water. The foam plastic must not be sprayed onto a substrate that is wet, or covered with frost or ice, loose scales, rust, oil, or grease.

The insulation may be applied at a maximum thickness of 3 inches (76 mm) per pass up to the maximum total thickness as specified in Sections 3.2, 4.3 and 4.4. Additional passes may be applied after ten minutes or more of curing time.

## 4.3 Thermal Barrier:

- 4.3.1 Application with a Prescriptive Thermal Barrier: Bayseal™ CC and Bayseal™ CC Polar spray foam insulation must be separated from the interior of the building by an approved thermal barrier of ¹/₂-inch-thick (12.7 mm) gypsum wallboard or an equivalent 15-minute thermal barrier complying with, and installed in accordance with, IBC Section 2603.4 or IRC Section R316.4, as applicable. Thicknesses of up to 8 inches (203 mm) for wall cavities and 12 inches (305 mm) for ceiling cavities are recognized, based on room corner fire testing in accordance with NFPA 286.
- 4.3.2 Application without a Prescriptive Thermal Barrier with Flame Seal® TB Intumescent Coating: The prescribed 15-minute thermal barrier may be omitted when installation is in accordance with this section. The Bayseal™ closed cell insulation and Flame Seal® TB system may be used in lieu of the prescribed 15-minute thermal barrier. The foam plastic insulation thickness must not exceed 6 inches (152 mm) in walls and ceilings, and the insulation must be covered with 18 dry mils (0.46 mm) of Flame Seal® TB intumescent coating applied at a minimum rate of 1.6 gallons (6 L) per 100 square feet (9.3 m²). The substrate must be dry, clean and free of dirt and loose debris or other substances that could interfere with the adhesion of the coating. Flame Seal® TB may be applied by airless sprayer at ambient temperatures between 50°F and 115°F (10°C and 46°C) and relative humidity of less than 70 percent.
- **4.3.3** Use as Interior Finish: The Bayseal™ closed cell insulation and Flame Seal<sup>®</sup> TB intumescent coating system, as described in Section 4.3.2, may be used as an interior finish in all construction types.

### 4.4 Attics and Crawl Spaces:

4.4.1 Application with a Prescriptive Ignition Barrier: When Bayseal™ CC and/or Bayseal™ CC Polar insulation is installed within attics or crawl spaces where entry is made only for service of utilities, an ignition barrier must be installed in accordance with IBC Section 2603.4.1.6 or IRC Sections R316.5.3 and R316.5.4, as applicable. The ignition barrier must be consistent with the requirements for the type of construction required by the applicable code, and must be installed in a manner so the foam

plastic insulation is not exposed. The insulation as described in this section may be installed in unvented attics in accordance with IRC Section R806.4.

## 4.4.2 Application without a Prescriptive Ignition

- **4.4.2.1 General:** Where Bayseal™ CC and/or Bayseal™ CC Polar insulation is installed without a prescriptive ignition barrier as described in Section 4.4.2.2 or 4.4.3, in attics and crawl spaces, the following conditions apply:
- Entry to the attic or crawl space is only to service utilities and no storage is permitted.
- There are no interconnected attic or crawl space areas.
- Air in the attic or crawl space is not circulated to other parts of the building.
- Under-floor (crawl space) ventilation is provided when required by IBC Section 1203.3 or IRC Section R408.1, as applicable.
- Attic ventilation is provided when required by IBC Section 1203.2 or IRC Section R806, except when air-impermeable insulation is permitted in unvented attics in accordance with Section R806.4 of the IRC.
- Combustion air must be provided in accordance with Section 701 of the 2009 International Mechanical Code<sup>®</sup> (IMC).

4.4.2.2 Use with Bayseal™ IC intumescent Coating: Bayseal™ CC or Bayseal™ CC Polar insulation may be spray-applied to the underside of roof sheathing and/or rafters, and the underside of wood floors and/or floor joists in crawl spaces as described in this section. The thickness of the foam plastic applied to the underside of the wood floor or roof sheathing must not exceed 12 inches (305 mm). The thickness of the spray foam insulation applied to vertical wall surfaces in attics and crawl spaces must not exceed 8 inches (203 mm). All foam plastic surfaces must be covered with 4 dry mils (0.1 mm) of Bayseal™ IC intumescent coating, applied at a rate of 0.5 gallon (1.9 L) per 100 square feet (9.3 m²). Bayseal™ IC intumescent coating may be applied by brush, roller or airless sprayer at ambient temperatures between 50°F and 115°F (10°C and 46°C) and relative humidity of less than 75 percent. Surfaces to be coated must be dry, clean, and free of dirt, loose debris and any other substances that could interfere with adhesion of the coating. Bayseal™ CC and Bayseal™ CC Polar insulation, as described in this section, may be installed in unvented attics in accordance with IRC Section R806.4.

### 4.4.3 Attic Floors:

Use on Attic Floors with Bayseal™ IC Intumescent Coating: Bayseal™ CC and Bayseal™ CC Polar insulation may be installed at a maximum thickness of 8 inches (203 mm) between and over the joists in attic floors. All foam plastic surfaces must be covered with 4 dry mils (0.1 mm) of Bayseal™ IC intumescent coating uniformly applied at a rate of 0.5 gallons (1.9 L) per 100 square feet (9.3 m<sup>2</sup>). Bayseal™ IC intumescent coating may be applied by brush, roller or airless sprayer at ambient temperatures between 50°F and 115°F (10°C and 46°C) and relative humidity of less than 75 percent, Surfaces to be coated must be dry, clean, and free of dirt, loose debris and any other substances that could interfere with adhesion of the coating. The insulation must be separated from the interior of the building (beneath the attic) by an approved thermal barrier. The ignition barrier in accordance with IBC Section 2603.4 and IRC Section R316.5.3 may be omitted.

# 4.5 Exterior Walls in Types I, II, III and IV Construction:

When used on walls of Type I, II, III and IV construction, the assembly in which the Bayseal™ CC or Bayseal™ CC Polar spray-applied polyurethane insulation is used must comply with Section 2603.5 of the IBC and must be installed at a maximum thickness of 3.25 inches (82.6 mm) in accordance with the manufacturer's published installation instructions and this report. The potential heat of the foam plastic in any portion of the walls or panels must not exceed the potential heat, expressed in Btu/ft² (MJ/m²), of the foam plastic insulation contained in the wall assembly tested in accordance with NFPA 285. The potential heat of the Bayseal™ CC or Bayseal™ CC Polar spray-applied polyurethane insulation is 1838 Btu/ft² (20.9 MJ/m²) per inch of thickness.

## 5.0 CONDITIONS OF USE

The Bayseal™ CC and Bayseal™ CC Polar spray-applied foam plastic insulations described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1 The products must be installed in accordance with the manufacturer's published installation instructions, this evaluation report and the applicable code. The instructions within this report govern if there are any conflicts between the manufacturers' published installation instructions and this report.
- 5.2 The insulation must be separated from the interior of the building by an approved 15-minute thermal barrier, except when installation is as described in Sections 4.3.2 and 4.4.
- 5.3 The insulation must not exceed the thicknesses noted in Sections 3.2, 4.3 and 4.4 of this report.
- 5.4 The insulation must be protected from prolonged exposure to weather during and after application.
- 5.5 The insulation must be applied by contractors certified by Bayer MaterialScience, LLC.
- 5.6 When use is on buildings of Types I, II, III and IV construction, documentation must be submitted to the code official verifying that the insulation has been qualified as a component of an assembly tested in accordance with IBC Sections 2603.5.1, 2603.5.5 and 2603.5.7. The maximum potential heat of the foam plastic used in the assembly must be no greater than that noted in Section 4.5.
- 5.7 Use of the insulation in areas where the probability of termite infestation is "very heavy" must be in accordance with IRC Section R318.4 or IBC Section 2603.8, as applicable.
- 5.8 Jobsite certification and labeling of the insulation must comply with IRC Sections N1101.4 and N1101.4.1 and IECC Sections 303.1.1 and 303.1.2, as applicable.
- **5.9** Use of the insulations in fire-resistance-rated construction is outside the scope of this report.
- 5.10 Bayseal™ CC and Bayseal™ CC Polar spray-applied foam insulations are produced by Bayer MaterialScience, LLC, in Phoenix, Arizona, and Spring, Texas, under a quality control program with inspections by Underwriters Laboratories Inc. (AA-668).

### **6.0 EVIDENCE SUBMITTED**

- 6.1 Data in accordance with the ICC-ES Acceptance Criteria for Spray-applied Foam Plastic Insulation (AC377), dated June 2010, including reports of tests in accordance with Appendix X.
- 6.2 Reports of room corner tests in accordance with NFPA 286 and UL 1715.
- 6.3 Reports of potential heat of foam plastics tests in accordance with NFPA 259.
- 6.4 Reports of air leakage tests in accordance with ASTM E 283.

## 7.0 IDENTIFICATION

Components for Bayseal™ CC and Bayseal™ CC Polar spray-applied foam plastic insulations are identified with the manufacturer's name (Bayer MaterialScience, LLC), address and telephone number; the product name (Bayseal™ CC or Bayseal™ CC Polar); mixing instructions; the density; the flame-spread and smokedevelopment indices; the evaluation report number (ESR-2072); and the name of the inspection agency (Underwriters Laboratories Inc.).

Each pail of Bayseal™ IC intumescent coating is labeled with the manufacturer's name (Bayer MaterialScience, LLC) and address; the product name (Bayseal™ IC); and use instructions.

Each pail of Flame Seal® TB intumescent coating is labeled with the manufacturer's name (Flame Seal Products Inc.) and address; the product name (Flame Seal® TB); and use instructions.

## 8.0 OTHER CODES

In addition to the codes referenced in Section 1.0, the products described in this report were evaluated for compliance with the requirements of the following codes:

- 2006 International Building Code® (2006 IBC)
- 2006 International Residential Code® (2006 IRC)
- 2006 International Energy Conservation Code® (2006 IECC)
- 2003 International Building Code® (2003 IBC)
- 2003 International Residential Code® (2003 IRC)
- 2003 International Energy Conservation Code<sup>®</sup> (2003 IECC)

The products comply with the above-mentioned codes as described in Sections 2.0 through 7.0 of this report, with the revisions noted below:

- Application with a Prescriptive Thermal Barrier: See Section 4.3.1, except the approved thermal barrier must be installed in accordance with Section R314.4 of the 2006 IRC or Section R314.1.2 of the 2003 IRC, as applicable.
- Application with a Prescriptive Ignition Barrier: See Section 4.4.1 except attics must be vented in accordance with Section 1203.2 of the 2006 and 2003 IBC or Section R806 of the 2003 IRC, and crawl space ventilation must be in accordance with IBC Section 1203.3 of the 2006 and 2003 IBC or IRC Section R408, as applicable. Additionally, an ignition barrier must be installed in accordance with Sections R314.5.3 or R314.5.4 of the 2006 IRC or Section R314.2.3 of the 2003 IRC, as applicable.

- Application without a Prescriptive Ignition Barrier: See Section 4.3.2, except attics must be vented in accordance with Section 1203.2 of the 2006 and 2003 IBC or Section R806 of the 2003 IRC, and crawl space ventilation must be in accordance with IBC Section 1203.3 of the 2006 and 2003 IBC or IRC Section R408, as applicable.
- Protection against Termites: See Section 5.7, except use of the insulation in areas where the probability of termite infestation is "very heavy" must be in
- accordance with Section R320.5 of the 2006 IRC or Section R320.4 of the 2003 IRC.
- Jobsite Certification and Labeling: See Section 5.9, except jobsite certification and labeling must comply with Sections 102.1.1 and 102.1.1.1, as applicable, of the 2006 IECC.

TABLE 1—THERMAL RESISTANCE (R-VALUES)1

THICKNESS (inches)	R-VALUE (°F.ft².h/Btu)
1	6.9
2	14
3	21
3.5	24
4	28
5	34
5.5	38
6	41
7	48
7.5	52
8	55
9	62
10	69
11	76
12	83

For SI: 1 inch = 25.5 mm; 1°F.ft².h/Btu = 0.176 110°K.m²W.

<sup>&</sup>lt;sup>1</sup>R-values are calculated based on tested K values at 1 and 3.5-inch thicknesses.



Bayer MaterialScience, LLC 2400 Spring Stuebner Road Spring, TX 77389

Phone: 281-350-9000

April 7, 2011

93 Westland 197-L-boy

To Whom It May Concern:

This letter will certify that the contractor listed below ("Contractor") is a Bayer MaterialScience LLC ("BMS") Certified Contractor approved to apply BMS products.

High Efficiency Foam 175 Halidon Road West Brook, ME 04092

This approval letter supersedes all previous communication verbal or written regarding BMS and Contractor. This letter shall be in effect for one year from the date of this letter unless cancelled prior to that date by written notification to Contractor at the address shown below.

Contractor is an independent contractor, and is not in a partnership relationship, pooling agreement, association, principal and agent relationship, or an employer and employee relationship. Application of materials supplied by BMS is under the control of Contractor. This approval letter does not bind BMS to any warranty obligation of any kind that is not specifically contained in a warranty supplied by BMS on any specific project.

If we may be of further service, please do not hesitate to contact us.

Sincerely,

Bob Creighton

Marketing Manager, Contractor and Warranty Programs