

# Single 3-1/2" x 14" BOISE GLULAM® 24F-V4/DF

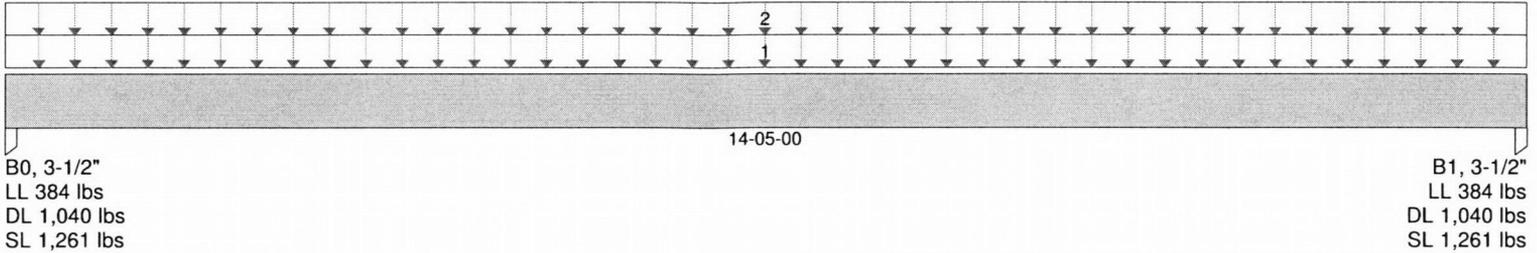
# Floor Beam\FB01

BC CALC® 3.0 Design Report - US  
Build 517

1 span | No cantilevers | 0/12 slope

Friday, November 02, 2012

Job Name: File Name: BC  
 Address: Description: FB01  
 City, State, Zip: , Specifier:  
 Customer: Designer:  
 Code reports: AITC 117-2004, LA - 01365 Company:  
 Misc:



Total Horizontal Product Length = 14-05-00

					Live	Dead	Snow	Wind	Roof Live	Trib.
Tag	Description	Load Type	Ref.	Start End	100%	90%	115%	133%	125%	
1	Standard Load	Unf. Area (psf)	L	00-00-00 14-05-00	40	10				01-04-00
2		Unf. Area (psf)	L	00-00-00 14-05-00		17	25			07-00-00

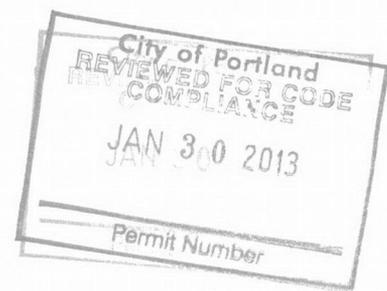
Controls Summary	Value	% Allowable	Duration	Case	Span
Pos. Moment	9,074 ft-lbs	34.5%	115%	13	1 - Internal
End Shear	2,142 lbs	21.5%	115%	2	1 - Left
Total Load Defl.	L/758 (0.221")	31.6%		2	1
Live Load Defl.	L/1,237 (0.135")	29.1%		2	1
Span / Depth	12.0	n/a			1

**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.

Bearing Supports	Dim. (L x W)	Value	% Allow Support	% Allow Member	Material
B0 Post	3-1/2" x 3-1/2"	2,686 lbs	n/a	33.7%	Unspecified
B1 Post	3-1/2" x 3-1/2"	2,686 lbs	n/a	33.7%	Unspecified

**Notes**  
 Design meets Code minimum (L/240) Total load deflection criteria.  
 Design meets Code minimum (L/360) Live load deflection criteria.

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





# Single 14" BCI® 6000-1.8 DF

# Upper Level Floor Joists U1(i263)

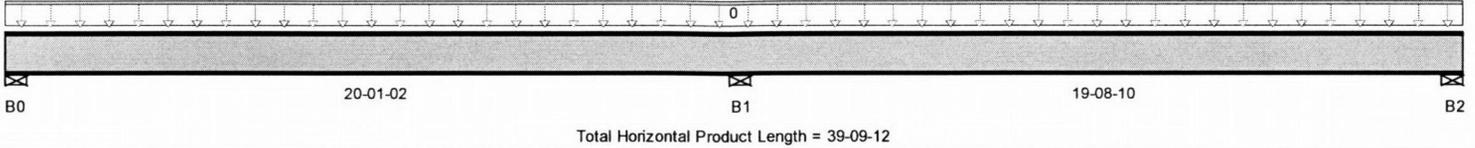
Friday, November 02, 2012

2 spans | No cantilevers | 0/12 slope  
16 OCS | Repetitive | Glued & nailed construction

BC CALC® Design Report - US

Build 1601  
Job Name: FIRENZE DEVELOPMENT  
Address: 3115 PLAN  
City, State, Zip: ,  
Customer: PROBUILD FOREST GROVE  
Code reports: ESR-1336

File Name: 12-892.mmdl  
Description: Designs\Upper Level Floor Joists U1(i263)  
Specifier: PDG  
Designer:  
Company: BOISE CASCADE BMD  
Misc:



### Reaction Summary (Down / Uplift) ( lbs )

Bearing	Live	Dead	Snow	Wind	Roof Live
B0, 4-3/8"	484 / 61	106 / 0			
B1, 5-1/2"	1,300 / 0	325 / 0			
B2, 4-3/8"	477 / 66	103 / 0			

Tag	Description	Load Type	Ref.	Start	End	100%	90%	115%	160%	125%	OCS
0	FC3 Floor Material	Unf. Lin. (lb/ft)	L	00-00-00	39-09-12	53	13				n/a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	2,382 ft-lbs	49.5%	100%	2	08-09-04
Neg. Moment	-3,112 ft-lbs	64.6%	100%	1	20-01-02
End Reaction	590 lbs	38.7%	100%	2	00-00-00
Int. Reaction	1,624 lbs	55.5%	100%	1	20-01-02
End Shear	559 lbs	29.1%	100%	2	00-04-06
Cont. Shear	802 lbs	41.6%	100%	1	19-10-06
Total Load Defl.	L/798 (0.297")	45.1%	n/a	2	09-07-04
Live Load Defl.	L/930 (0.255")	51.6%	n/a	5	09-08-11
Total Neg. Defl.	L/-3,758 (-0.062")	9.6%	n/a	2	26-05-09
Max Defl.	0.297"	29.7%	n/a	2	09-07-04
Span / Depth	17	n/a	n/a	0	00-00-00

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

Bearing Supports	Dim. (L x W)	Value	% Allow Support	% Allow Member	Material	
B0	Wall/Plate	4-3/8" x 2-5/16"	590 lbs	13.7%	38.7%	Unspecified
B1	Wall/Plate	5-1/2" x 2-5/16"	1,624 lbs	30.1%	55.5%	Unspecified
B2	Wall/Plate	4-3/8" x 2-5/16"	579 lbs	13.5%	38%	Unspecified

**Notes**  
 Composite EI value based on 3/4" thick Softwood plywood sheathing glued and nailed to member.





# Single 14" BC<sup>®</sup> 6000-1.8 DF

# Upper Level\Floor Joists\J5(i201)

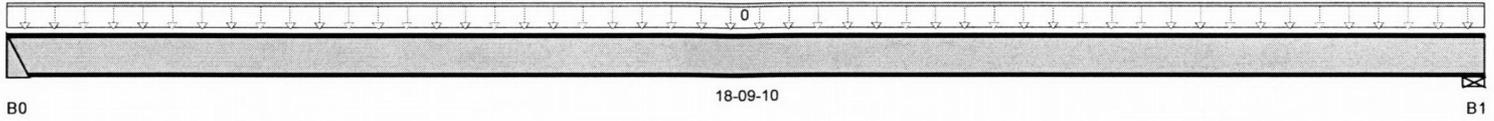
BC CALC<sup>®</sup> Design Report - US

1 span | No cantilevers | 0/12 slope  
16 OCS | Repetitive | Glued & nailed construction

Friday, November 02, 2012

Build 1601  
Job Name: FIRENZE DEVELOPMENT  
Address: 3115 PLAN  
City, State, Zip: ,  
Customer: PROBUID FOREST GROVE  
Code reports: ESR-1336

File Name: 12-892.mmdl  
Description: Designs\Upper Level\Floor Joists\J5(i201)  
Specifier: PDG  
Designer:  
Company: BOISE CASCADE BMD  
Misc:



Total Horizontal Product Length = 18-09-10

### Reaction Summary (Down / Uplift) ( lbs )

Bearing	Live	Dead	Snow	Wind	Roof Live
B0	504 / 0	126 / 0			
B1, 4-3/8"	512 / 0	128 / 0			

### Load Summary

Tag Description	Load Type	Ref. Start	End	100%	90%	115%	160%	125%	OCS
0 FC2 Floor Material	Unf. Lin. (lb/ft)	L 00-00-00	18-09-10	53	13				n/a

### Controls Summary

	Value	% Allowable	Duration	Case	Location
Pos. Moment	2,820 ft-lbs	58.6%	100%	1	09-03-10
End Reaction	630 lbs	49.9%	100%	1	00-00-00
End Shear	609 lbs	31.6%	100%	1	00-02-00
Total Load Defl.	L/670 (0.329")	53.7%	n/a	1	09-03-10
Live Load Defl.	L/838 (0.263")	57.3%	n/a	2	09-03-10
Max Defl.	0.329"	32.9%	n/a	1	09-03-10
Span / Depth	15.8	n/a	n/a	0	00-00-00

### Disclosure

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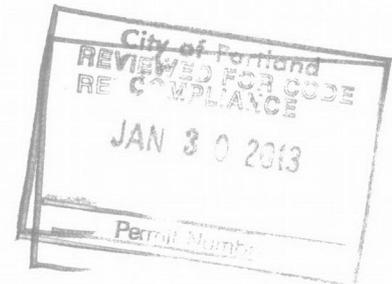
BC CALC<sup>®</sup>, BC FRAMER<sup>®</sup>, AJS<sup>™</sup>, ALLJOIST<sup>®</sup>, BC RIM BOARD<sup>™</sup>, BCI<sup>®</sup>, BOISE GLULAM<sup>™</sup>, SIMPLE FRAMING SYSTEM<sup>®</sup>, VERSA-LAM<sup>®</sup>, VERSA-RIM PLUS<sup>®</sup>, VERSA-RIM<sup>®</sup>, VERSA-STRAND<sup>®</sup>, VERSA-STUD<sup>®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

### Bearing Supports

	Dim. (L x W)	Value	% Allow Support	% Allow Member	Material
B0 Hanger	2" x 2-5/16"	630 lbs	33.6%	49.9%	ITS 2.37/14
B1 WallPlate	4-3/8" x 2-5/16"	640 lbs	14.9%	41.9%	Unspecified

### Notes

Hanger Manufacturer: Simpson Strong-Tie, Inc.  
Composite EI value based on 3/4" thick Softwood plywood sheathing glued and nailed to member.





Single 14" BC<sup>®</sup> 6000-1.8 DF

Upper Level\Floor Joists\J6(i234)

Friday, November 02, 2012

BC CALC<sup>®</sup> Design Report - US

1 span | No cantilevers | 0/12 slope  
16 OCS | Repetitive | Glued & nailed construction

Build 1601

File Name: 12-892.mmdl

Job Name: FIRENZE DEVELOPMENT

Description: Designs\Upper Level\Floor Joists\J6(i234)

Address: 3115 PLAN

Specifier: PDG

City, State, Zip: ,

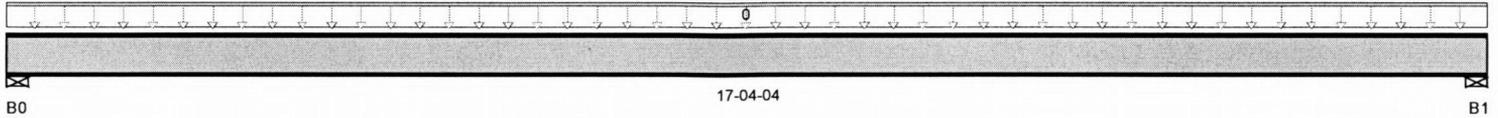
Designer:

Customer: PROBUILD FOREST GROVE

Company: BOISE CASCADE BMD

Code reports: ESR-1336

Misc:



Total Horizontal Product Length = 17-04-04

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B0, 4-3/8"	468 / 0	117 / 0			
B1, 4-3/8"	468 / 0	117 / 0			

Load Summary

Tag	Description	Load Type	Ref.	Start	End	100%	90%	115%	160%	125%	OCS
0	FC2 Floor Material	Unf. Lin. (lb/ft)	L	00-00-00	17-04-04	53	13				n/a

Controls Summary

	Value	% Allowable	Duration	Case	Location
Pos. Moment	2,338 ft-lbs	48.6%	100%	1	08-08-02
End Reaction	585 lbs	38.3%	100%	1	17-04-04
End Shear	554 lbs	28.8%	100%	1	00-04-06
Total Load Defl.	L/871 (0.231")	41.4%	n/a	1	08-08-02
Live Load Defl.	L/1,088 (0.185")	44.1%	n/a	2	08-08-02
Max Defl.	0.231"	23.1%	n/a	1	08-08-02
Span / Depth	14.4	n/a	n/a	0	00-00-00

Disclosure

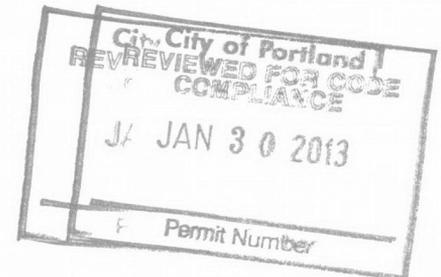
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Bearing Supports

	Dim. (L x W)	Value	% Allow Support	% Allow Member	Material	
B0	Wall/Plate	4-3/8" x 2-5/16"	585 lbs	13.6%	38.3%	Unspecified
B1	Wall/Plate	4-3/8" x 2-5/16"	585 lbs	13.6%	38.3%	Unspecified

Notes

Composite EI value based on 3/4" thick Softwood plywood sheathing glued and nailed to member.





# Simple Site Erosion Control Requirements Form

Project or Permit Number 12-246789-105  
 Project Address 4703 SW 47<sup>th</sup> AVE PORTLAND 97221  
 Name of Responsible Party (print) PETER KUSYK  
 Day Phone 503-381-4513 FAX \_\_\_\_\_ email PETER@PETERKUSYK

**Erosion control inspections are required and it is your responsibility to request these inspections.**

Erosion control measures are required on this site. Because of the size and slope, a drawn plan is not required. Erosion Control Measures and inspections are required prior to beginning foundation excavation. This form may only be used for simple sites:

1. Flat (less than 10% slope before development)
2. More than 50 feet from a wetland or waterbody
3. Outside an environmental or greenway zone
4. Less than 10,000 sq. ft. of ground disturbance
5. Not a land division of 10,000 sq. ft. or more

This is an agreement that the applicant and/or responsible parties will use erosion control during this project as required. The applicant and/or responsible party must sign this form to comply with Section 10.40.020 of the Code. Details for the measures outlined below are located in the City of Portland Erosion Control Manual, available at either the Development Services Center or on our Web site at [www.portlandonline.com/bds](http://www.portlandonline.com/bds)

	Minimum Erosion Control Requirements	Additional Requirements
1.	Temporary sediment control (silt fences, bio-filter bags or fiber rolls, storm drain inlet protection).	Prevent the transport of sediment from the site (Manual Sections 2-2 and 4-2) Call for #200 inspection. These items must be provided even with undisturbed vegetative buffers as allowed by manual.
2.	Stabilize access points by installing a gravel construction entrance. Do not use rock or dirt ramps in the gutter, use a wood ramp if needed to get over curb.	Limit construction vehicle access, whenever possible, to one route. Stabilize access points. Provide street cleaning by sweeping or shoveling any sediment that may have been tracked out. Place sediment in a suitable disposal area where it will not erode again. (Manual Sections 2-2 and 4-1)
3.	Stabilize all soils, including stockpiles that are temporarily exposed. Use one or more of the temporary soil stabilization Best Management Practices (BMP's): temporary grasses, mulch applications, erosion blankets, plastic sheeting, plus dust control measures.	Soil Stabilization (Manual Sections 2-2 and 4-4)
4.	Maintain erosion controls identified in requirements 1 through 3 above according to specifications prescribed in manual.	Inspect and maintain required erosion and sediment controls to ensure continued performance of their intended function. (Manual Chapters 4 and 5)
5.	Comply with the necessary development activity controls, including controls for fuel spill control, waste removal, concrete waste management or painting preparation.	During construction, prevent the introduction of pollutants in addition to sediment into stormwater. (Manual Section 5)
6.	Use one or more of the following to permanently stabilize soils before final building inspection: Permanent vegetative cover, mulch applications or application of sod.	After construction but before project completion, permanently stabilize all exposed soils that have been disturbed during construction. (Manual Sections 4-4)
7.	Prevent sediment from entering all storm drains, including ditches, which receive runoff from the disturbed area	Remove temporary drain inlet protection measures after final site clean-up. Call for #210 inspection.
8.	Post signage on-site that identifies the City's Erosion Control complaint number	The sign will be provided upon approval of the pre-construction inspection. It must be maintained on-site until the final inspection.

**You must request a preconstruction erosion control inspection prior to construction. Call 503-823-7000 and request a #200 inspection using your IVR number.**

I agree to meet each requirement and use appropriate erosion control measures as outlined above to prevent erosion and sedimentation from leaving the site of project/permit number referenced. I understand that all inspections are still required, and that failure to install or maintain adequate measures may result in a re-inspection fees or additional fines. A permanent erosion control inspection #210 will be required prior to a final building inspection.

Signature of Responsible Party D. Kroy FOR PETER KUSYK Date 11/13/12  
 Property Owner or Owner's Agent \_\_\_\_\_



# Residential Fixtures Worksheet

Please list the mechanical, electrical and plumbing fixtures you are planning to install for your new single family residential construction project.

Mechanical Fixture	Quantity
<b>Heating and Cooling</b>	
Air conditioner (site plan required)	
Furnace/burner including ductwork/vent/liner	
Heat pump (site plan required)	1
Air handling unit	
Hydronic hot water system	
Residential boiler (radiator or hydronic)	
Unit heaters (fuel type, not electric): in-wall, in-duct, suspended, etc.	
Vent for appliance other than furnace	
Gas fireplace	1
Flue vent for water heater or gas fireplace	2
Wood/pellet stove	
Chimney/liner/flue/vent	
Range hood/other kitchen equipment	1
Clothes dryer exhaust	1
Single duct exhaust fans (bathrooms, toilet compartments, utility rooms)	4
Attic/crawl space fans	
Other: _____	
<b>Gas Fuel Piping: indicate number of outlets</b>	
Furnace	1
Wall/suspended/unit heater	
Water heater/boiler	1
Fireplace	1
Range	
Barbecue	
Clothes dryer	
Other:	

Plumbing Fixture	Quantity
Bathrooms (full or partial)	3
Kitchens*	1
Laundry/utility sinks*	1
Bar sinks	0
Water heaters/boilers*	1
Clothes washers*	1
Rain drain: # of feet around perimeter of house	200 LF
Sanitary sewer: # of feet from house to property line	22 LF
Storm sewer: # of feet from house to property line or disposal system	10 LF MIN
Water line: # of feet from house to property line	22 LF
Fire sprinklers: # of sq. ft. of house to be sprinklered (include basement, exclude garage)	0
Other:	
* The first kitchen, water heater, clothes washer and laundry/utility sink are included in the basic plumbing package	
Electrical Fixture	Quantity
Area of house in sq. ft. to be wired (including basement and attached garage)	3566
Additional circuits for detached garage	
Limited energy electrical wiring (check yes if you are installing any of the following: telephone, cable TV, security systems, doorbell, computer network cables, thermostat, vacuum system)	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no
Temporary electrical service	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
Other:	

12-206789-RS



# CITY OF PORTLAND, OREGON - BUREAU OF DEVELOPMENT SERVICES

1900 SW Fourth Avenue • Portland, Oregon 97201 • 503-823-7300 • www.portlandoregon.gov/bds



## Application for New Single Family Residential Construction (One or Two Units)

SETUP 11/19

12/5 @ 1:45

### What type of home(s) are you building?

- Single family residence
- Duplex
- 2-unit rowhouse
- 2-unit townhouse
- Floating home
- Manufactured home on its own lot
- Detached accessory dwelling unit (ADU)
- Other: \_\_\_\_\_

If your project includes 3 or more structures built to the Oregon Residential Speciality Code or International Residential Code and are either located on a single tax lot or attached to each other, you will apply through the Batch Submittal and Review Process. Please contact Permitting Services at 503-823-7357 for more information.

### Applicant Information

Company Name FIRENZE DEV INC

Contact Person DONNA KEOUGH

Mailing Address 508 NW 44th ST.

City VANCOUVER State WA Zip Code 98660

Office Phone 360-696-9014 Cell Phone 360-213-8087 FAX OFFICE #

Email ATYPICALDESIGN@Q.COM

Lot Owner Name FIRENZE DEV INC - PETER KUSYK

Mailing Address 7110 SW OLD WILSONVILLE RD

City WILSONVILLE State OR Zip Code 97072

Contractor Name FIRENZE DEV INC CCB# 188088

### Project Information

Tax account number: R <u>160392</u>		If you do not know the tax account number, call Multnomah County at 503-988-3326	
Gross streets: <u>SW 47<sup>th</sup> AVE &amp; SW SEYMOUR CT</u>		Tax lot number: <u>5600</u>	
Plat name/number <u>FAIRVALE</u>	Block/lot: <u>6-LOT 1-3</u>	Qtr section #: <u>151E18AA</u>	
Living area: <u>3115</u> sq.ft.	Basement: <u>Ø</u> sq.ft.	Garage/carport: <u>451</u> sq.ft.	
Is there a detached garage/carport or other accessory structure being built?		<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
Is there an existing house on the lot that will be demolished?		<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
Land Use Review case numbers:			
Plan designer/architect name:		Plan #	
Has BDS permitted this design previously?		<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
Do you plan on building the same house plan again?		<input type="checkbox"/> yes	<input type="checkbox"/> no
Is this Master House Plan # _____		<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no

12-206789-RS



## 2011 Energy Efficiency Additional Measures Requirements

New dwellings shall meet the envelope requirements of ORSC Table N1101.1(1) and a minimum of 50% of permanently installed lighting fixtures shall have high efficacy lamps. Additionally, new heated buildings and additions of more than 600 SF or more than 40% of the original heated floor area shall have at least two of the Additional Measures from ORSC Table N1101.1(2), one from Envelope Enhancement and one from Conservation (see below). All Energy Efficiency components must be reflected on the plans.

### Envelope Enhancement Measure (Select One)

- 1 High efficiency walls & windows:**
  - Exterior walls – R-19+5 (insulation sheathing)/SIPS, and one of the following options:
  - Windows – Max 15% of conditioned area, **or**
  - Windows – U-0.30
- 2 High efficiency envelope:**
  - Exterior walls – R-21 Intermediate framing, **and**
  - Vaulted ceilings – R-30 Advanced framing, **and**
  - Flat ceilings – R-49, **and**
  - Framed floors – R-38, **and**
  - Windows – U-0.30; **and one of the following:**
    - Doors – All doors U-0.20, **or**
    - Additional 15% of permanently installed lighting fixtures as high-efficacy lamps or Conservation Measure D and E
- 3 High efficiency ceiling, windows and duct sealing:**  
(Cannot be used with Conservation Measure E)
  - Vaulted ceilings – R-30 Advanced framing (not more than 50% of the heated floor area), **and**
  - Flat ceilings – R-49, **and**
  - Windows – U-0.30, **and**
  - Performance tested duct systems (ODOE documentation to be submitted to building inspector prior to final inspection)
- 4 High efficiency thermal envelope UA:**
  - Proposed UA is 15% lower than the Code UA when calculated in Table N1104.1(1)
- 5 Building tightness testing, ventilation and duct sealing:**
  - Mechanical system providing whole-building ventilation per Table N1101.1(3), or ASHRAE 62.2, **and**
  - Performance tested duct systems (ODOE documentation to be submitted to building inspector prior to final inspection), **and**
  - Blower door test report submitted to building inspector prior to final inspection showing  $\leq 6.0$  air changes per hour, or  $\leq 5.0$  air changes per hour when used with Conservation Measure E
- 6 Ducted HVAC systems within conditioned space:**  
(Cannot be used with Conservation Measure B or C)
  - All ducts and air handler are contained within heated building envelope

(Continued on back)

## Conservation Measure (Select One)

**A High efficiency HVAC system:**

- Gas-fired furnace or boiler with 90% minimum AFUE (sealed combustion air ducted directly from outdoors if furnace or boiler is within conditioned space), **or**
- Air-source heat pump 8.5 minimum HSPF, **or**
- Closed-loop ground source heat pump with 3.0 minimum COP

**B Ducted HVAC systems within conditioned space:**

- All ducts and air handlers are within heated building envelope

**C Ductless heat pump:**

- Replace electric resistance heating in at least the primary zone with at least one ductless mini-split heat pump with 8.5 minimum HSPF

**D High efficiency water heating and lighting:**

- Natural gas/propane, on-demand water heating with 0.80 minimum EF, **and**
- Minimum 75% of permanently installed lighting fixtures as CFL or linear fluorescent or minimum 40 lumens per watt

**E Energy management device & duct sealing:**

- Whole building energy management device capable of monitoring or controlling energy consumption, **and**
- Performance tested duct systems (ODOE documentation to be submitted to building inspector prior to final inspection), **and**
- 75% of permanently installed lighting fixtures as high-efficacy lamps

**F Solar voltaic:**

- Minimum 1 watt per square foot of conditioned floor space with Total Solar Resource Fraction  $\leq$  75%

**G Solar water heating:**

- 40 square feet minimum gross collector area with Total Solar Resource Fraction  $\leq$  75%



## **Radon Control Methods 2011 Oregon Residential Specialty Code, Appendix F**

New habitable residential structures shall have radon gas mitigation. Indicate the method(s) of radon gas mitigation to be installed in the structure:

**Crawl space construction:**

- Mechanically ventilated (detailed on plans); or
- Passive sub-membrane depressurization; or
- Permanently open foundation ventilation per R408.1 and a blower-door building tightness test.  
Test results to be provided to the building inspector prior to final inspection approval.

**Slab-on-grade or basement construction:**

- Passive depressurization system, with 4" thick layer of gas-permeable aggregate below slab.

Memorandum

July 19, 2012

To: Donna Keough  
From: Corina Muntean, P.E.  
Re: Plan 3115 at 4703 SW 47<sup>th</sup> Ave, Portland, OR

I have reviewed the truss layout done by ProBuilt for Firenze Development  
Plan 3115.

It is the same layout as the one used to design the gravity loads.



Expires: 12-31-12

12-2010-789-125