

## Technical Data Sheet: Poly Separator Sheets

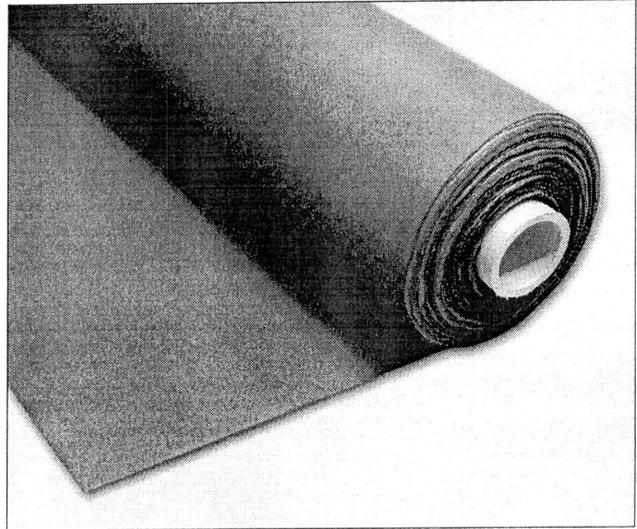
**Product Description:** IB Poly Separator Sheet is a polyester based woven fiber sheet that is used as a separating layer on garden , recover, and new roofing assemblies. Poly Separation Sheet can also be used as a protection layer between over burden (i.e. wood decking, insulated pavers, etc.) and as a divorcing layer between IB Single-Ply and incompatible materials and comes in 4 oz. and 16 oz. weights.

**Packaging:** 4 oz. Poly Separator Sheet is shrink wrapped and packaged in 7'6" wide by 360' long rolls (2,700 sq. ft) that weight 110 lbs. 16 oz. Poly Separator Sheet is shrink wrapped and packaged in 7'6" wide by 150' long rolls (1,125 sq. ft) that weight 135 lbs.

**Applications:**

- Installed between layers of roofing membrane and component

**Use:** For use as a separation layer between compatible and non-compatible roofing components. Contact IB Technical Department for more details.



## Technical Data Sheet: Vapor Barrier

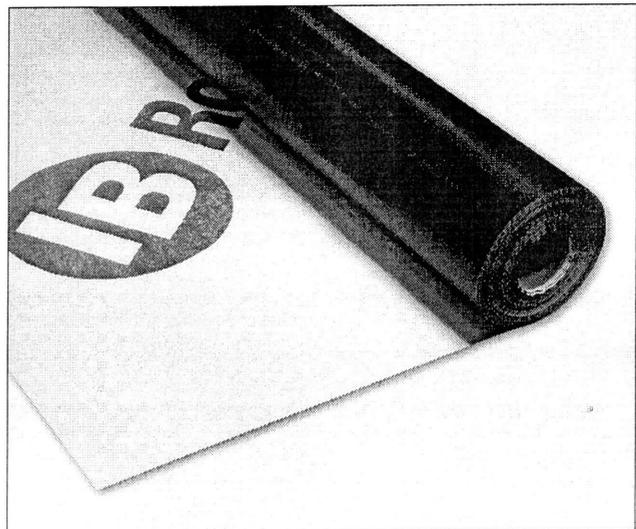
**Description:** IB Vapor Barrier is woven, multi-directional High Density Polyethylene (HDPE) taped fabric that is top coated with a Low Density Polyethylene (LDPE) coating that provides excellent sheet strength. In addition, its LDPE coating provides excellent resistance to vapor and moisture transmission through its core.

**Packaging:** IB Vapor Barrier is individually packaged in 6 mi. plastic wrappers and shrink wrapped and palletized with other roofing system components. It comes in a 70" wide by 515' long roll, weighs 75.0 lbs, and covers 3000 sq. feet.

**Advantages:**

- Helps prevent air and moisture movement from the surface of the roof deck to the roofing system
- Light weight roll allows for easy transporting and positioning
- White surfacing help reduce heat during installation

**Installation:** contact IB technical services department for installation recommendations.



City of Portland  
 REVIEWED FOR CODE  
 COMPLIANCE  
 JAN 15 2013  
 Permit Number

13-104756 00

North Side



South Side



City of  
 REVIEWED  
 COMPLIANCE  
 JAN 13 2010  
 Permit Number

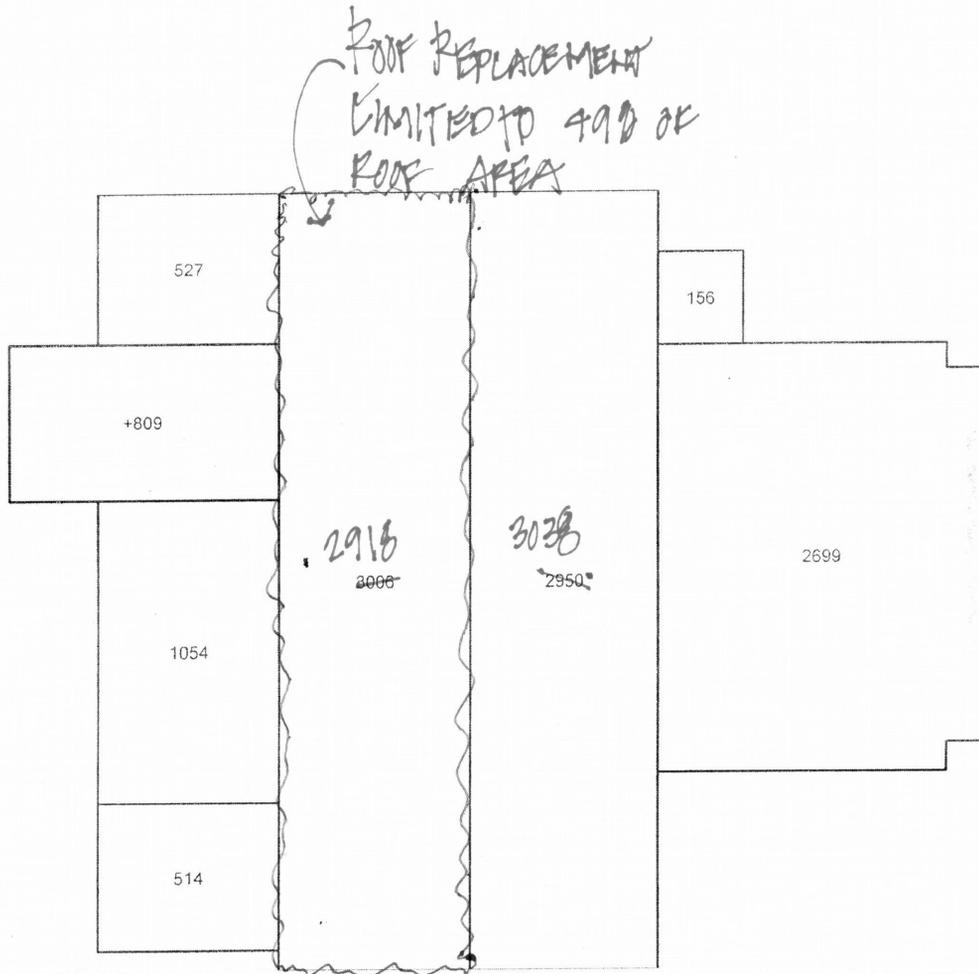
Report: 345433

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### Area Diagram

Total Area = 11,714 sq ft, with 8 facets. There are 5,758 sq ft of roof with a pitch below 3/12 (see gray facets on Pitch Diagram).



Note: This diagram shows the square feet of each roof facet (rounded to the nearest foot). The total area in square feet, at the top of this page, is based on the non-rounded values of each roof facet (rounded to the nearest square foot after being totaled).

City of Portland  
 REVIEWED FOR CODE COMPLIANCE  
 Report: 345433  
 JAN 13 2010  
 Keith Green Construction, Inc.  
 Permit Number

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## Technical Data Sheet: IB 50 mil Single-Ply

**Product Description:** IB 50 mil Single-Ply is an ASTM D 4434-04, Type III polyester-scrim fabric reinforced, compounded resin based sheet with plasticizers, stabilizers, fillers, pigments and other proprietary materials, manufactured in a nominal 50 mil thickness, in 72" wide-by-90-foot (540 sq.ft.) rolls and 36" wide-by-90-foot (270 sq.ft.) rolls. IB 50 mil Single-Ply uses an anti-wicking polyester scrim for added strength and tear resistance that minimizes moisture intrusion between the sheet's top film and bottom film layers.

**Packaging:** 540 sq. ft. rolls, 180 lbs./roll, 270 sq. ft. rolls, 90 lbs./roll

### Advantages:

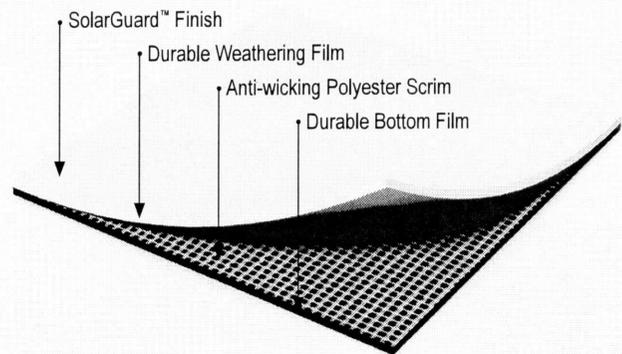
- IB 50 mil. Single-Ply is an ASTM D 4434-04, Type III Thermoplastic Membrane
- 15-Year Material Warranty
- Excellent flexibility in all climates
- The highly reflective IB White Single-Ply with SolarGuard™ finish helps to reduce temperatures of a building's interior (when used with a well designed roofing system)
- 56% thicker top film (above the scrim) layer versus other single-ply membranes
- Thermally welded seams provide superior seam strength
- Exceeds Energy Star™ and California Title 24 requirements for Solar Reflectance and Emissivity

**Use:** IB 50 mil Single-Ply can be installed in new, recover, and re-roof constructions as the primary field membrane, as a stripping ply for flashings, and as a base flashing reinforcement at all roof to wall transitions. IB 50 mil Single-Ply can be fully adhered to a properly prepared substrate (insulation, cover-board, or other pre-approved materials) with approved membrane adhesive or mechanically attached with approved fasteners and membrane plates. Optional attachments are available but need to be pre-approved by IB Technical Services Department. All laps side and end laps are to be thermally welded using a hot air welder with a minimum weld width of 1-1/2".

**Approvals and Listings:** IB 50 mil Single-Ply is listed with various component assemblies at UL and Factory Mutual (F.M. Global) for fire, wind uplift, impact, and chemical resistance. Visit our website for links to these agencies and listings at: [www.ibroof.com](http://www.ibroof.com)

**Warranties:** IB 50 mil Single-Ply has a 15-Year Material Warranty and is available for 'Warranty Plus' and 'Total System' warranties for qualified IB Roof Systems applicators. Contact IB Roof Systems at (800) 426-1626, or visit our website at: [www.ibroof.com](http://www.ibroof.com)

**Available Colors:** White, tan, gray and brown. Call your local IB Sales Representative for colored product availability.



Solar Reflectance / Thermal Emittance / Calculated SRI Values					
Membrane Color	Solar Reflectance	Thermal Emittance	SRI Value (Low Wind)	SRI Value (Medium Wind)	SRI Value (High Wind)
White	0.870	0.88	108.9	109.0	109.1
Tan	0.366	0.87	39.1	39.9	40.7
Gray	0.163	0.88	12.4	13.5	14.5
Brown	0.079	0.87	0.8	2.3	3.6

Property	Method	Requirement	50 Mil
Overall thickness of PVC sheet, min. mm (in.)	ASTM D751	1.14 (0.045)	1.27 (0.05)
Thickness over the scrim, min. mm (in.)		0.40 (0.016)	0.635 (0.025)
Breaking strength, min. kN/m (lbf/in.)	ASTM D751	35 (200)	65 (370)
Elongation at the break, min. %:	ASTM D751		
Machine direction		15 <sup>A</sup>	40
Cross-machine direction		15 <sup>A</sup>	38
Retention of properties after heat aging:			
Breaking strength, min. % of original		90	90
Elongation, min. % of original		90	90
Tearing strength, min. N (lbf)	ASTM D751	200 (45.0)	320 (72.0)
Low temperature bend	ASTM D2136	Pass	Pass
Accelerated weathering test:	ASTM G53		
Cracking (7x magnification)		None	None
Crazing (7x magnification)		None	None
Linear dimension change, max %	ASTM D1204	0.5	0.5
Change in weight after immersion in water, max %	ASTM D570	+/- 3.0	1.5
Static puncture resistance	ASTM D5602	Pass	Pass
Dynamic puncture resistance	ASTM 5636	Pass <sup>C</sup>	Pass

A: Above the cross points of any fabric or fiber and the surface exposed to the weather.  
 B: For reinforcing fabric only; elongation of PVC material shall be the same as Type II, Grade 1.  
 C: For Type II, Grade 1 products, dynamic puncture shall be evaluated at an energy level of 10 J min. For Type II, Grade 2 and Type III products, dynamic puncture shall be evaluated at an energy level of 20 J min.



**Insulation:** — Any UL Classified insulation, any thickness:

**Barrier Board:** — 1/4 in. min G-P Gypsum DensDeck®, DensDeck Prime®, USG SECUROCK Glass-Mat Roof Board, CertainTeed Gypsum GlasRoc or 1/2-in Gypsum Board with all joints staggered 6 in. from the plywood joints, mechanically attached or adhered.

**Membrane:** — "IB Single Ply®", adhered with TACC "LA 432" adhesive at 1 gal/60 sq ft or "FA 636" adhesive at 1 gal/140 sq ft.

7. Deck: NC

Incline: 1-1/2

**Insulation:** — One of the following, any thickness:

1. Atlas Roofing "ACFoam II"
2. Atlas Roofing "ACFoam III"
3. "IB Energy Board II"
4. "IB Energy Board III"

**Membrane:** — "IB Single Ply®", adhered with TACC "LA 432", "LA432M" or Ashland "7008" adhesive at 1 gal/60 sq ft.



#### Class A - Mechanically Fastened

1. Deck: NC

Incline: 2

**Insulation:** — Glass fiber, Johns Manville "Fesco-Foam", perlite or HD Wood fiber Board, 3/4 to 4 in.

**Membrane:** — "IB" (CPA).

2. Deck: NC

Incline: 2

**Insulating Concretes:** — Cellular, gypsum vermiculite, perlite or structural, poured in place over deck.

**Membrane:** — "IB" (CPA).

3. Deck: NC

Incline: 2

**Insulation:** — Any UL Classified polystyrene, any thickness.

**Slip Sheet:** — Atlas Roofing "FR-50" or "IB Fire Sheet 50".

**Membrane:** — "IB" (CPA).

4. Deck: NC

Incline: 2

**Slip Sheet (Optional):** — Atlas Roofing "FR-10" or "IB Fire Sheet 10".

**Insulation:** — "IB Energy Board II", Atlas Roofing "ACFoam II" or "ACFoam Supreme", any thickness, hot mopped in place or mechanically fastened.

**Membrane:** — "IB" (CPA).

5. Deck: NC

Incline: 1

**Insulation:** — Any UL Classified polystyrene, any thickness.

**Slip Sheet:** — Atlas Roofing "FR-10" or "IB Fire Sheet 10".

**Membrane:** — "IB" (CPA).

6. Deck: NC

Incline: 3

**Insulation:** — Atlas Roofing "ACFoam II" or "ACF III", "IB Energy Board II", "IB Energy Board III", Firestone Building Products "ISO 95+GL" or "ISO 95+GW", Johns Manville "ENRGY 2A", Rmax "Multi-Max", any thickness.

**Membrane:** — "IB" (CPA).

7. Deck: C-15/32

Incline: 3

**Barrier Board:** — 1/4 in. (min) G-P Gypsum DensDeck®, DensDeck Prime®, USG SECUROCK Glass-Mat Roof Board, CertainTeed Gypsum GlasRoc or 1/2 in. (min) gypsum board with all joints staggered a min of 6 in. from the plywood joints.

**Insulation:** — Atlas Roofing "ACFoam II" or "ACF III", "IB Energy Board II", "IB Energy Board III", Firestone Building Products "ISO 95+GL" or "ISO 95+GW", Johns Manville "ENRGY 2A", Rmax "Multi-Max", or "Therमारoor Plus", any thickness.

**Membrane:** — "IB" (CPA).

8. Deck: C-15/32

Incline: Unlimited

**Insulation (Optional):** — Any UL Classified, any thickness

**Barrier Board:** — 1/4 in. (min) G-P Gypsum DensDeck®, DensDeck Prime®, USG SECUROCK Glass-Mat Roof Board, CertainTeed Gypsum GlasRoc or 1/2-in Gypsum Board with all joints staggered a min of 6 in. from the plywood joints.

**Membrane:** — "IB" (CPA) or "IB Single Ply".

9. Deck: C-15/32

Incline: 1/2

**Slip Sheet:** — Two layers Atlas Roofing "FR-50" or "IB Single Ply".

**Membrane:** — "IB" (CPA) or "IB Single Ply".

10. Deck: NC

Incline: 1

**Insulation:** — Owens Corning Specialty Products "Foamular", any thickness.

**Slip Sheet:** — Atlas Roofing "FR-10" or "FR-50", "IB Fire Sheet 10" or "IB Fire Sheet 50".

**Membrane:** — "IB" (CPA).

11. Deck: C-15/32

Incline: 1/2

**Slip Sheet:** — One layer Atlas Roofing "FR-10", or "FR-50", "IB Fire Sheet 10" or "IB Fire Sheet 50".

**Insulation:** — "IB Energy Board III" or Atlas Roofing "ACFoam III", 1.5 in. min thickness with all joints staggered 6 in. min. from plywood joints.

**Membrane:** — "IB" (CPA).

12. Deck: NC

Incline: 3

**Insulation:** —

1. Firestone Building Products "ISO 95+GL"
2. Johns Manville "ENRGY 2"
3. Rmax "Multi-Max FA"
4. Atlas Roofing "ACFoam II"
5. Atlas Roofing "ACFoam III"
6. Johns Manville "ISO 1"



7. "IB Energy Board II"

8. "IB Energy Board III"

**Membrane:** — "IB" (CPA).

13. **Deck:** C-15/32 **Incline:** 1/2

**Slip Sheet:** — Two layers Atlas Roofing "FR 50".

**Insulation:** — 1.5 in. min with all joints staggered 6 in. (min) from the plywood joints.

1. Firestone Building Products "ISO 95+GL"

2. Johns Manville "ENRGY-2"

3. Rmax "Multi-Max FA"

4. Atlas Roofing "ACFoam II"

5. Atlas Roofing "ACFoam III"

6. Johns Manville "ISO 1"

7. "IB Energy Board II"

8. "IB Energy Board III"

**Membrane:** — "IB" (CPA).

14. **Deck:** C-15/32 **Incline:** 1/2

**Slip Sheet:** — Two layers Atlas Roofing "FR-50" or "IB Fire Sheet 50".

**Membrane:** — "IB" (CPA).

15. **Deck:** C-15/32 **Incline:** 1/2

**Slip Sheet:** — One layer Atlas Roofing "FR-10" or "FR 50".

**Insulation:** — "ACFoam III" or "IB Energy Board III", 1.5 in. min thickness with all joints staggered 6 in. min from the plywood joints.

**Membrane:** — "IB" (CPA) or "IB Single Ply".

16. **Deck:** C-15/32 **Incline:** 3/4, See Note

**Slip Sheet:** — Two layers "FR-10," IB Fire Sheet 10 mechanically fastened.

**Insulation (Optional):** — Any UL Classified, any thickness (except EPS and wood fiberboard).

**Membrane:** — Any UL Classified PVC, CPE, CSM, CSPE, EPDM, NBP, PIB, TPO, EIP or TRE membrane. (Note: Membrane must be currently Classified for use over the insulation used. Actual incline is determined by the maximum existing membrane/insulation Classification incline.)

17. **Deck:** C-15/32 **Incline:** 1-1/2

**Slip Sheet:** — Two layers GAF "VersaShield Underlayment" or "IB Fire Sheet - 2".

**Membrane:** — "IB" (CPA).

18. **Deck:** C-15/32 **Incline:** 2

**Slip Sheet:** — Two layers GAF "VersaShield Underlayment".

**Insulation:** — Firestone Building Products "ISO 95+GL" or "ISO 95+GW", Johns Manville "ENRGY 2A", Rmax "Multi-Max", any thickness.

**Membrane:** — "IB" (CPA).

19. **Deck:** C-15/32 **Incline:** 2

**Slip Sheet:** — Two layers GAF "VersaShield Underlayment".

**Insulation (Optional):** —

1. Firestone Building Products "ISO 95+GL"

2. Johns Manville "ENRGY 2"

3. Rmax "Multi-Max FA"

4. Atlas Roofing "ACFoam II"

5. Atlas Roofing "ACFoam III"

6. Johns Manville "ISO 1"

7. "IB Energy Board II"

8. "IB Energy Board III"

**Membrane:** — "IB" (CPA).

20. **Deck:** C-15/32 **Incline:** 1/2

**Slip Sheet:** — Two layers Atlas Roofing "FR 50" or "IB Fire Sheet 50".

**Insulation:** — 1.5 in. min. with all joints staggered 6 in. (min.) from the plywood joints.

1. Firestone Building Products "ISO 95+GL"

2. Johns Manville "ENRGY 2"

3. Rmax "Multi-Max FA"

4. Atlas Roofing "ACFoam II"



**Building Permit Application**  
**City of Portland, Oregon - Bureau of Development Services**  
 1900 SW 4th Avenue, Portland, Oregon 97201 • 503-823-7310 • TTY 503-823-6868 • www.portlandoregon.gov/bds

**Type of work**

New construction       Addition/alteration/replacement

Demolition       Other:

**Category of construction**

1 & 2 family dwelling       Commercial/industrial       Accessory building

Multifamily       Master builder       Other:

**Job site information and location**

Job no.:      Job address: 6524 N. Albina Ave

City/State/ZIP: Portland OR 97217

Suite/bldg./apt. no.:      Project name: Delia

Cross street/directions to job site:  
(Plat) LATHOMA

Subdivision:      Lot no.      Tax map/parcel no.

**Description of work**

Tear off Re-Roof

Provide RS Permit no.

**Property owner**       **Tenant**

Name: Steve Pollitt      E-mail:

Address: 321 Panther Ct

City/State/ZIP: Woodland Park CO 80863

Phone:      FAX:

**Owner installation:** This installation is being made on property that I own, which is not intended for sale, lease, rent, or exchange.

Owner signature:      Date:

**Contractor**

Business name: Keith Green Const      E-mail:

Address: PO Box 5369

City/State/ZIP: Aloha OR 97006

Phone: 503 681-7912      FAX: 503 693-0468

CCB lic. no. 109148

Authorized signature: Keith E. Green President

Print name: Keith Green      Date: 1-15-13

**Applicant**       **Contact Person**

Business name: Keith Green Construction, Inc

Contact name: Keith Green

Address: PO Box 5369

City/State/ZIP: Aloha OR 97006

Phone: 503 681-7912      FAX: 503 693-0468

E-mail: Info @ Keith green construction, com

Authorized signature: Keith E. Green President

Print name: Keith Green      Date: 1-15-13

This permit application expires if a permit is not obtained within 180 days after it has been accepted as complete.

**Office Use Only**

Permit no:

Date received:

By:

**Required Data: One and Two Family Dwelling**

Permit fees\* are based on the value of the work performed. Indicate the value (rounded to the nearest dollar) of all equipment, materials, labor, overhead, and the profit for the work indicated on this application.

Valuation:	
Number of bedrooms:	
Number of bathrooms:	
Total number of floors:	
New dwelling area:	square feet
Garage/carport area:	square feet
Covered porch area:	square feet
Deck area:	square feet
Other structure area:	square feet

**Required Data: Commercial Use**

Permit fees\* are based on the value of the work performed. Indicate the value (rounded to the nearest dollar) of all equipment, materials, labor, overhead, and the profit for the work indicated on this application.

Valuation:	<u>\$9,550.00</u>
Existing building area:	<u>8,860</u> square feet
New building area:	square feet
Number of stories:	<u>2 / 1</u>
Type of construction:	<u>Tear off - Re-Roof</u>

Occupancy groups

Existing:	
New:	

**Notice**

All contractors and subcontractors are required to be licensed with the Oregon Construction Contractors Board under ORS 701 and may be required to be licensed in the jurisdiction in which work is being performed.

**Statement of Fact:** I certify that the facts and information set forth in this application are true and complete to the best of my knowledge. I understand that any falsification, misrepresentation or omission of fact (whether intentional or not) in this application or any other required document, as well as any misleading statement or omission, may be cause for revocation of permit and/or certificate of occupancy, regardless of how or when discovered.

I acknowledge that work related to this Building Permit Application may be subject to regulations governing the handling, removal and/or disposal of asbestos and/or lead-based paint. \_\_\_\_\_ (initials)

**Building Permit Fees\***

Please refer to fee schedule

Fees due upon application	
Amount received	
Date received	

Residential Combo permit subcontractor submittals only can be faxed to 503-823-7693 or e-mailed to bdscombinspec@portlandoregon.gov.