

City of Portland, Maine - Building or Use Permit Application

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

Permit No: 09-1238	Issue Date:	CBL: 087 E005001
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Location of Construction: 100 LEDGEWOOD ST Peaks Islan	Owner Name: SIMPSON DAVID C & CAROL I E	Owner Address: 99 LUTHER ST	Phone:
Business Name:	Contractor Name: Revision Energy LLC	Contractor Address: 142 Presumpscot street Portland	Phone 2073231805
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	Zone: IR-7

Past Use: Single Family Home	Proposed Use: Single Family Home - install Solar Hot water w/ Solar collectors on south side of roof	Permit Fee: \$400.00	Cost of Work: \$37,923.00	CEO District: 1
Proposed Project Description: install Solar Hot water w/ Solar collectors on south side of roof <i>single fam home permit # 09-0546</i>		FIRE DEPT: <input type="checkbox"/> Approved <input type="checkbox"/> Denied	INSPECTION: Use Group: R3 Type SB IRC 2003	
		Signature: _____		Signature: <i>dm 11/13/09</i>
PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)				
Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied				
Signature: _____ Date: _____				

Permit Taken By: Ldobson	Date Applied For: 11/02/2009	Zoning Approval		
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1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules. 2. Building permits do not include plumbing, septic or electrical work. 3. Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work..	Special Zone or Reviews <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/>	Zoning Appeal <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied	Historic Preservation <input checked="" type="checkbox"/> Not in District or Landmark <input type="checkbox"/> Does Not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied
	Date: <i>11/4/09</i>	Date: _____	Date: _____

PERMIT ISSUED

NOV 17 2009

City of Portland

CERTIFICATION

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

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

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Permit No: 09-1238	Date Applied For: 11/02/2009	CBL: 087 E005001
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Location of Construction: 100 LEDGEWOOD ST Peaks Islan	Owner Name: SIMPSON DAVID C & CAROL I E	Owner Address: 99 LUTHER ST	Phone:
Business Name:	Contractor Name: Revision Energy LLC	Contractor Address: 142 Presumpscot street Portland	Phone (207) 323-1805
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	

Proposed Use: Single Family Home - install Solar Hot water w/ Solar collectors on south side of roof	Proposed Project Description: install Solar Hot water w/ Solar collectors on south side of roof
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Dept: Zoning	Status: Approved	Reviewer: Marge Schmuckal	Approval Date: 11/04/2009	Ok to Issue: <input checked="" type="checkbox"/>
Note:				
Dept: Building	Status: Approved with Conditions	Reviewer: Tom Markley	Approval Date: 11/13/2009	Ok to Issue: <input checked="" type="checkbox"/>
Note:				
1) Separate permits are required for any electrical, plumbing, sprinkler, fire alarm or HVAC or exhaust systems. Separate plans may need to be submitted for approval as a part of this process.				
2) Application approval based upon information provided by applicant. Any deviation from approved plans requires separate review and approval prior to work.				

BUILDING PERMIT INSPECTION PROCEDURES

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

**to schedule your inspections as agreed upon
Permits expire in 6 months, if the project is not started or ceases for 6 months.**

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

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

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

 X **Final inspection required at completion of work.**

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

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

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

Signature of Applicant/Designee

Thomas M. Mahoney

Signature of Inspections Official

Date

11/13/09

Date



General Building Permit Application

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

Location/Address of Construction: 100 Ledge wood ROAD Peaks Island		
Total Square Footage of Proposed Structure/Area		Square Footage of Lot
Tax Assessor's Chart, Block & Lot Chart# 87 Block# E Lot# S		Applicant * must be owner, Lessee or Buyer * Name Revision Energy Address 142 Presumpscot St City, State & Zip PORTLAND, ME 04103
Lessee/DBA (If Applicable)		Owner (if different from Applicant) Name David Simpson Address 99 Luther St City, State & Zip Peaks Island, ME 04108
		Telephone: Cost Of Work: \$ 37,923 C of O Fee: \$ Total Fee: \$ 400
Current legal use (i.e. single family) _____ If vacant, what was the previous use? _____ Proposed Specific use: _____ Is property part of a subdivision? _____ If yes, please name _____ Project description: SOLAR HOT WATER COLLECTORS ON ROOF OF HOUSE SOLAR ELECTRIC COLLECTORS ON ROOF ON THE SOUTH SIDE OF THE BUILDING - SOUTH FACING ROOF.		
Contractor's name: REVISION ENERGY Address: 142 Presumpscot St City, State & Zip PORTLAND, ME 04103 Telephone: 221-6342 Who should we contact when the permit is ready: (mail it) Telephone: _____ Mailing address: same		

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

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

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

Signature: *J. Baxter* Date: 11/2/2009

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

RECEIVED
NOV - 2 2009
Dept. of Building Inspections
City of Portland Maine



Professional design, installation and service of renewable energy systems

October 29, 2009

Fortunat Mueller
ReVision Energy
142 Presumpscot Street
Portland, ME 04103

RE: ReVision Energy Solar Installation
Address: 100 Ledgewood Road Peaks Island

To Whom It May Concern:

I have reviewed the condition of the roof structure at the project site, and the installation method described in the attachment and find them to be sufficient and in accordance with applicable codes and standards.

Respectfully,

Fortunat Mueller
Maine PE # 11246

Bangor
207-570-4222

Liberty
207-589-4171

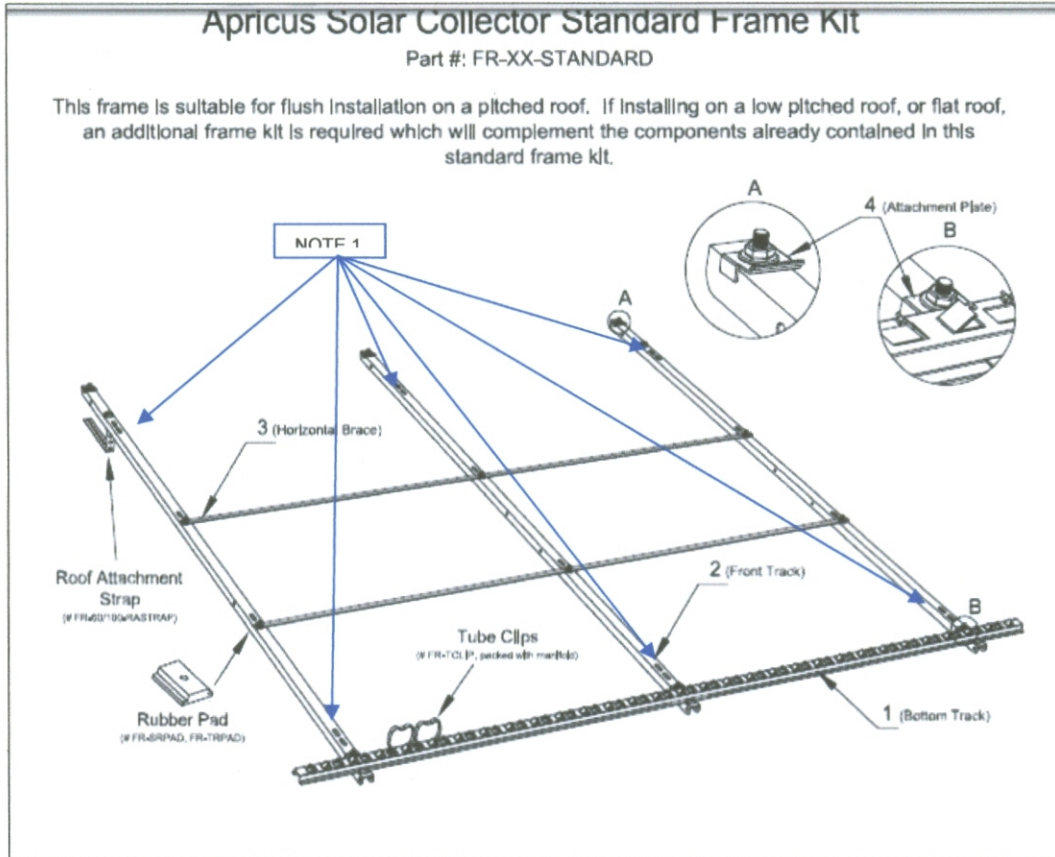
Portland
207-221-6342

Portsmouth
603-486-7170

www.revisionenergy.com



Apricus structural mounting detail:



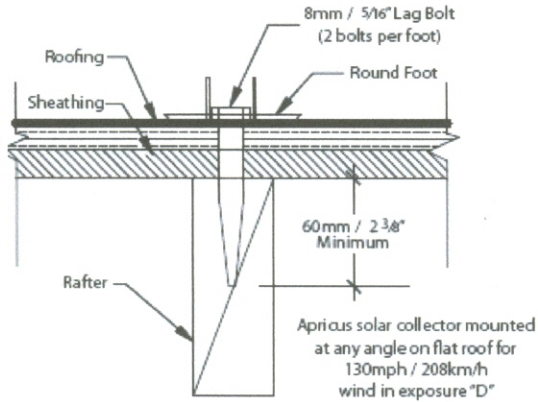
Notes:

1. Fasten to roof framing using (6) 5/16" stainless steel Lag Bolt.
2. Drill pilot hole for lag bolt 60-75% of lag shank diameter.
3. Seal all penetrations using manufacturer supplied Rubber pad and Geocell 2300 tripolymer sealant or equivalent

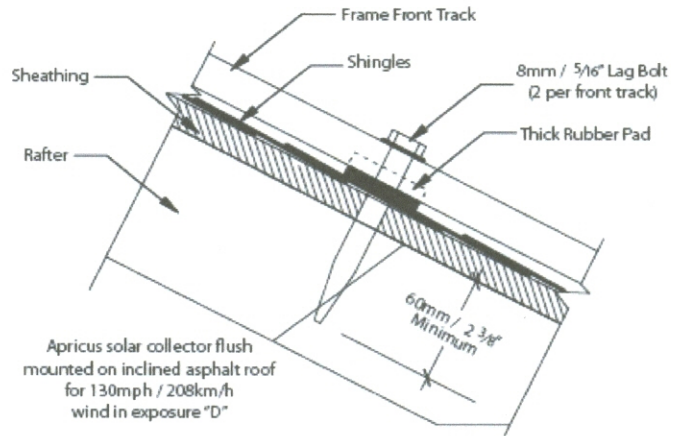


Lag bolt details:

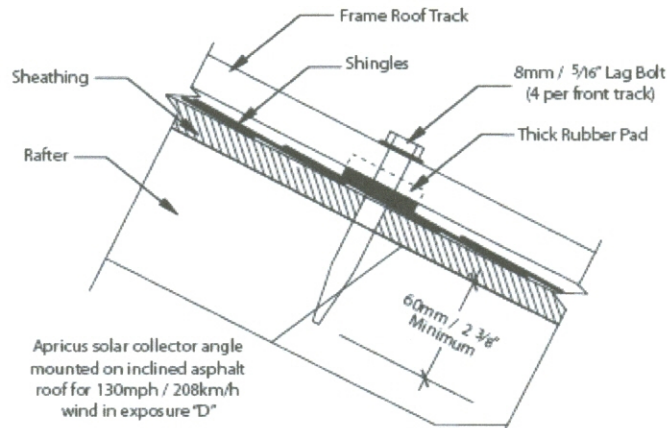
Mount on Flat Roof using Round Feet



Flush Mount on Pitched Asphalt Shingle Roof



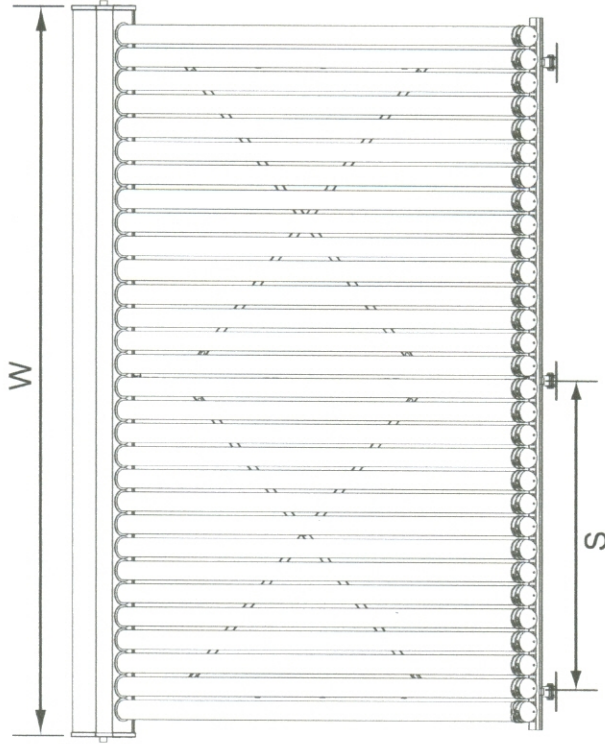
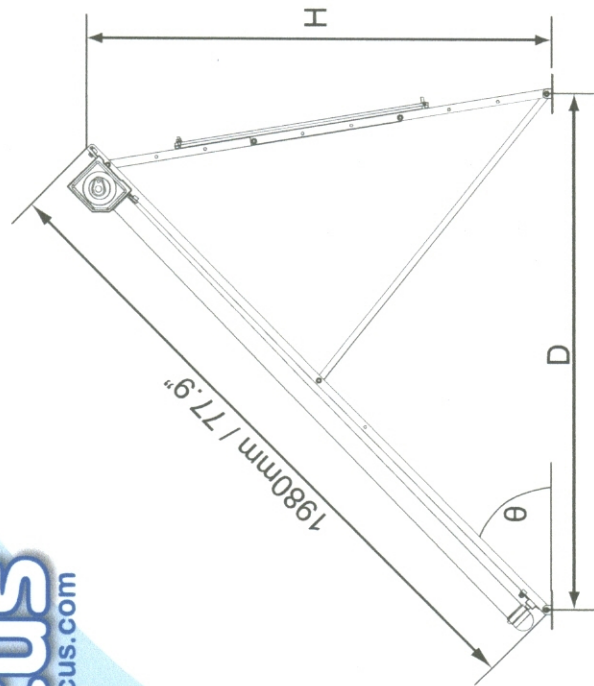
Angle Mount on Pitched Asphalt Shingle Roof



Notes:

1. Lag Bolt and washer should be stainless steel
2. Drill pilot hole for lag bolt 60-75% of lag shank diameter.
3. Seal all penetrations using manufacturer supplied Rubber pad and Geocell 2300 tripolymer sealant or equivalent

Apricus Solar Collector Gross Dimensions



Angle	Type	D	H
52°		1406mm / 55.4"	1539mm / 60.6"
45°	High Angle (Round Foot)	1565mm / 61.6"	1389mm / 54.7"
38°		1688mm / 66.5"	1231mm / 48.5"
33°		1792mm / 70.6"	1074mm / 42.3"
46°		1900mm / 74.8"	1436mm / 56.5"
42°	High Angle (Roof Track)	1900mm / 74.8"	1315mm / 51.8"
37°		1900mm / 74.8"	1186mm / 46.7"
33°		1900mm / 74.8"	1051mm / 41.4"
27°	Mid Angle (Round Feet) *	Variable	~ 911mm / 35.9"
27°	Mid Angle (Roof Track)	1900mm / 74.8"	911mm / 35.9"
13°	Low Angle (Round Feet) *	Variable	~ 447mm / 17.6"
13°	Low Angle (Roof Track)	1900mm / 74.8"	447mm / 17.6"

* Low and Mid angle frame kits do not have a diagonal brace. When using round feet the rear legs can be freely positioned, and therefore the angle and height are slightly variable.

Size	S	W
10 tubes*	490mm / 19.29"	796mm / 31.3"
20 tubes*	1190mm / 46.85"	1496mm / 58.8"
22 tubes	665mm / 26.18"	1636mm / 64.4"
30 tubes	945mm / 37.2"	2196mm / 86.4"

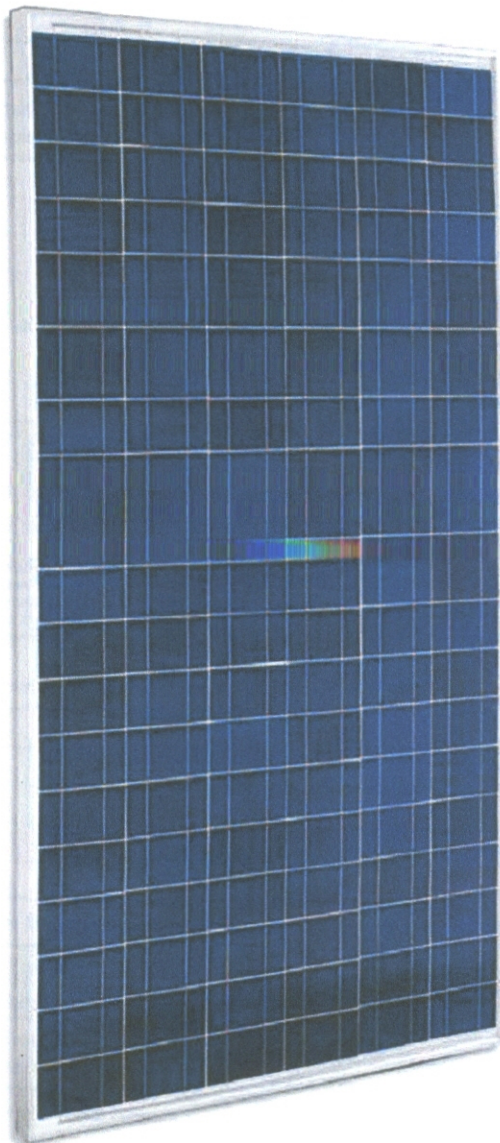
* 10 & 20 tube collectors only have 2 sets of legs

Notes:

1. The frame should be aligned with the roof rafters where possible.
2. The front tracks can be adjusted left and right slightly to match roof structure
3. When possible position the front tracks behind tubes so they are hidden
4. Always refer the the installation manual regarding mounting guidelines, in particular regarding mounting strength and wind loading issues.
5. Seek engineer approval for non standard installations, or if at all in doubt of mounting strength or safety.

NEW

ES-B SERIES photovoltaic panels



Provisional datasheet.
Data subject to change. Certifications pending.

180, 190 & 195 W

A range of high quality String Ribbon™ solar panels offering exceptional performance, cost effective installation and industry-leading environmental credentials made with our revolutionary wafer technology.

- **High field performance ratings**
PTC/STC rating up to 88.8%
- **Tight power tolerances**
98% of rated power guaranteed for 180, 190W panels; 100% guaranteed for 195W panels
- **Industry's lowest voltage per watt rating**
Delivers the most cost-effective installs
- **UL4703 certified cables**
For use with highest efficiency transformer-less inverters (ES-B "fa1" type only)
- **New extended length cables**
Eliminates home-run wiring
- **New lockable MC® Type 4 connectors***
Complies with the latest codes for accessible arrays
- **Most extensive range of mounting options**
Allows installs virtually anywhere and anyhow
- **Smallest carbon footprint of any manufacturer**
Delivers the biggest offset to global warming and climate change
- **Quickest energy payback**
15 month payback that maximizes energy conservation
- **100% cardboard-free packaging**
Minimizes job site waste and disposal costs
- **5 year workmanship and 25 year power warranty****