



Permitting and Inspections Department
Michael A. Russell, MS, Director

Reviewed for Code Compliance
Permitting and Inspections Department
Approved with Conditions

General Building Permit Application

Project Address: 257 Deering Ave

06/26/2018

Tax Assessor's CBL: _____ Cost of Work: \$ 18,500.00
Chart # _____ Block # _____ Lot # _____

Proposed use (e.g., single-family, retail, restaurant, etc.): commercial offices

Current use: _____ Past use, if currently vacant: _____

Commercial Multi-Family Residential One/Two Family Residential

Type of work (check all that apply):

- | | | |
|---|--|---|
| <input type="checkbox"/> New Structure | <input type="checkbox"/> Fence | <input type="checkbox"/> Change of Ownership - Condo Conversion |
| <input type="checkbox"/> Addition | <input type="checkbox"/> Pool - Above Ground | <input type="checkbox"/> Change of Use |
| <input type="checkbox"/> Alteration | <input type="checkbox"/> Pool - In Ground | <input type="checkbox"/> Change of Use - Home Occupation |
| <input type="checkbox"/> Amendment | <input type="checkbox"/> Retaining Wall | <input type="checkbox"/> Radio/Telecommunications Equipment |
| <input type="checkbox"/> Shed | <input type="checkbox"/> Replacement Windows | <input type="checkbox"/> Radio/Telecommunications Tower |
| <input type="checkbox"/> Demolition - Structure | <input type="checkbox"/> Commercial Hood System | <input type="checkbox"/> Tent/Stage |
| <input type="checkbox"/> Demolition - Interior | <input type="checkbox"/> Tank Installation/Replacement | <input type="checkbox"/> Wind Tower |
| <input type="checkbox"/> Garage - Attached | <input type="checkbox"/> Tank Removal | <input checked="" type="checkbox"/> Solar Energy Installation |
| <input type="checkbox"/> Garage - Detached | | <input type="checkbox"/> Site Alteration |

Project description/scope of work (attach additional pages if needed):

Installation of 21 solar panels onto the roof of the building

Applicant Name: ReVision Energy - Allison Gehrlich Phone: (207) 221 - 6342

Address: 142 Presumpscot St Portland, ME 04103 Email: allison@revisionenergy.com

Lessee/Owner Name (if different): 257 Deering LLC Phone: (207) 939 - 4806

Address: 257 Deering Ave Email: ops@257deering.com

Contractor Name (if different): _____ Phone: (_____) _____ - _____

Address: _____ Email: _____

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: Allison Gehrlich Date: 5/9/2018

This is a legal document and your electronic signature is considered a legal signature per Maine state law.

Review of this application will not begin until the permit payment is received. This is not a permit. Work may not commence until the permit is issued.



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Electronic Signature and Fee Payment Confirmation

06/26/2018

This is a legal document and your electronic signature is considered a legal signature per Maine state law. You will receive an e-mailed invoice from our office which signifies that your electronic permit application has been received and is ready for payment. Please pay by one of the following:

- Electronic check or credit card: portlandmaine.gov/payyourpermit
- Over the phone at (207) 874-8703
- Drop off to Room 315, City Hall
- Mail to:

**City of Portland
Permitting and Inspections Department
389 Congress Street, Room 315
Portland, Maine 04101**

By signing below, I understand the review process starts once my payment has been received. After all approvals have been completed, my permit will be issued via e-mail. Work may not commence until permit is issued.

Applicant Signature: Allison Gehrlich Digitally signed by Allison Gehrlich
DN: cn=Allison Gehrlich, gn=Allison Gehrlich, c=United States, ou=Revision Energy, e=allison@revisionenergy.com
Reason: I am the author of this document
Location:
Date: 2018-03-09 15:12:05.00 Date: 5/9/2018

I have provided electronic copies and sent them on: _____ Date: 5/9/2018

NOTE: All electronic paperwork must be delivered to permitting@portlandmaine.gov or with a thumb drive to the office.

If you or the property owner owes taxes or user charges on property within the City, payment arrangements must be made before a permit application is accepted.



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City of Portland
389 Congress St
Portland, ME 04101

RE: ReVision Energy Solar Installation at 257 Deering Ave, Portland, ME

Dear Code Enforcement,

ReVision Energy has been contracted to design and install a solar electric system at the above address in Portland. This letter is to confirm that all work will be performed by licensed and qualified installers, expert in the field and in compliance with both manufacturer's recommendations and all applicable local and state codes and standards.

ReVision Energy employs licensed engineers, plumbers, and electricians and carries the solar industries highest certifications (NABCEP) in both solar thermal and photovoltaic installation. We're committed to high quality, code compliant work and look forward to working together with the city and the CEO to ensure that all your requirements and needs are met and that our customer ends up with a system that is beautiful, functional and safe.

Structural: Photovoltaic modules are relatively light weight and add less than 3 psf to the roof dead load, less than a typical layer of asphalt shingles. When installed flush or parallel to the existing roof plane and consistent with manufacturers instructions, the installation of a solar array does not add snow or wind loading compared to the existing roof surface. For this reason, when an existing roof structure is sufficient to handle an additional layer of shingles with dead load < 3 psf as allowed by IEBC 2012 Section 706.2 Exc 3, it is also sufficient for the installation of a flush mounted rooftop solar array.

Electrical and grounding: All electrical work to be performed by a licensed ME electrician and will conform to NABCEP and OSHA work standards, manufacturer's recommendations as well as to NEC 2014, including specifically the Rapid Shutdown requirements in Article 690.12.

If you have any questions or concerns, we'd like to address them as quickly and completely as possible. Please don't hesitate to call or e mail anytime.

Respectfully,

Fortunat Mueller, P.E.
fortunat@revisionenergy.com
(207) 752-6358



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solar**edge**

SolarEdge Single Phase Inverters

SE2200H, SE3000H, SE3500H, SE3680H
SE4000H, SE5000H, SE6000H



INVERTERS

Optimized installation with HD-Wave technology

- Specifically designed to work with power optimizers
- Record-breaking efficiency
- Extremely small, lightweight and easy to install
- High reliability without any electrolytic capacitors
- Built-in module-level monitoring
- Outdoor and indoor installation
- Compatible with the StorEdge Interface for Smart Energy Management StorEdge™ applications





Single Phase Inverters

SE2200H, SE3000H, SE3500H, SE3680H
SE4000H, SE5000H, SE6000H

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	SE2200H	SE3000H	SE3500H	SE3680H	SE4000H	SE5000H	SE6000H	
OUTPUT								
Rated AC Power Output	2200	3000	3500	3680	4000	5000 ⁽¹⁾	6000	VA
Maximum AC Power Output	2200	3000	3500	3680	4000	5000 ⁽¹⁾	6000	VA
AC Output Voltage (nominal)	220 / 230							Vac
AC Output Voltage Range	184 - 264.5							Vac
AC Frequency (nominal)	50 / 60 ± 5							Hz
Maximum Continuous Output Current	10	14	16	16	18.5	23	27.5	A
Residual Current Detector / Residual Current Step Detector	300 / 30							mA
Utility Monitoring, Islanding Protection, Country Configurable Thresholds	Yes							
INPUT								
Maximum DC Power	3400	4650	5425	5700	6200	7750	9300	W
Transformer-less, Ungrounded	Yes							
Maximum Input Voltage	480							Vdc
Nominal DC Input Voltage	380							Vdc
Maximum Input Current	6.5	9	10	10.5	11.5	13.5	16.5	Adc
Reverse-Polarity Protection	Yes							
Ground-Fault Isolation Detection	600kΩ Sensitivity							
Maximum Inverter Efficiency	99.2							%
European Weighted Efficiency	98.3	98.8				99		%
Nighttime Power Consumption	< 2.5							W
ADDITIONAL FEATURES								
Supported Communication Interfaces	RS485, Ethernet, ZigBee (optional), WiFi (optional), Cellular (optional)							
Smart Energy Management	Export Limitation, StorEdge applications							
STANDARD COMPLIANCE								
Safety	IEC-62109-1/2, AS-3100							
Grid Connection Standards	AS-4777, VDE-AR-N-4105, VDE 0126-1-1, UTE C15-712, G83/2, G59/3, CEI-021, EN 50438, IEC61727, IEC62116, ÖNORM, TF3.2.1, C10-11, NRS 097-2-1							
Emissions	IEC61000-6-2, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12, FCC Part 15 Class B							
INSTALLATION SPECIFICATIONS								
AC Output - Supported Cable Diameter	9 - 16							mm
AC - Supported Wire Cross Section	1 - 16							mm ²
DC Input	1 x MC4			2 x MC4 pair				
Dimensions (H x W x D)	280 x 370 x 142							mm
Noise	< 25							dBA
Weight	9.5							kg
Cooling	Natural Convection							
Operating Temperature Range	-20 to +60 ⁽²⁾ (-40°C option)							°C
Protection Rating	IP65 - Outdoor and Indoor							

⁽¹⁾ 4600VA in Germany
⁽²⁾ De-rating from 50°C



RoHS