PASSIVE HOUSE AND NET ZERO IN URBAN CONTEXT

LESSONS FROM THE FIELD
2000 WATT SOCIETY
Net Zero Passive House 3-family rowhouse in Brooklyn • R-951.com

12 KW solar - high performance envelop - great windows advanced systems – no fossil fuels onsite

Paul A Castrucci, Architect
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Earth Day
Building Science
Open House

R-951 Residence
Thurs April 22
5 to 8 pm
951 Pacific, Brooklyn

RSVP via
meetup.com/NYPassiveHouse-NYC/
or email furtherinc1@gmail.com

Urban Green Council  Sailan Foundation  Green Map


The award-winning R-951 will be open Sunday afternoon, Nov 15 from 2 to 5PM to share information and insights. Talks by the design and development team start at 2:30. Solar roof open 3 to 4 pm. Several buildings are open this weekend, organized by NYPassiveHouse.org. To see this building in the international database, please click here.

R-951 was part of Open House New York, in the building tour series curated by Curbed, as seen in this article. We hosted two tours of Unit 1 of this Passive House on Sunday October 18th with talks at 2pm and 4pm. The ONYX tours were completely booked! Because the discussion was focused on applying energy efficiency to both existing and new buildings, we made this handout.

Passive House + Net Zero: R-951 Residence & Climate Neutral Buildings
ClimateWeekNYC
September 28, 2015 at BEEEX

This overview with Wendy Brawer of Further, Inc., Grayson Jordan, Architect and Paul A. Castrucci, Architect was sponsored by NY Passive House.

Two Certifications! Technical Tour of a First in NYC
Wednesday, August 5, 2015  6:30 to 8:00 pm

Press Release
PASSIVE HOUSE
BKLYN ROWHOUSE
RETROFIT
Solarize LES
Shared solar
Virtual net metering
Power Purchase Agmt

Co-buying program – elevate roof panels to meet FDNY code
Solar Canopy Wins Interior Design Magazine Best of 2016 Award

December 8, 2016

BROOKLYN SOLAR WORKS
SolSpherica to Charge-up in East River Park

- bit.ly/SolSpherica
With Demolition Looming, Final Shows at Existing ABC No Rio Announced

Posted on: June 8th, 2016 at 5:13 am by Elie

ABC No Rio to close by the end of June, new location will be “one of the most energy-efficient buildings in the city”
1. SUPER INSULATION AND PASSIVE HOUSE WINDOWS = DRASTIC ENERGY SAVINGS
   Energy Savings (Annual) = 75% Energy Use Reduction (Over Current Energy Code, Annual)
   Carbon Footprint: CO2 Reduction by
   Year 2030 = 590 Metric Tons
   Savings (Annual) = 50% ($8,094 PER YEAR)

2. SOLAR PV
   System Size = 4 kW
   Annual Output (estimate) = 3,014 kw/hours
   Carbon Footprint: CO2 Reduction by
   Year 2030 = 32 Metric Tons

3. GREEN FACADE PLANTERS AND GREEN ROOF
   As part of the necessary expansion of the facilities, the group lost its backyard. To compensate, we brought the backyard to the roof - and the façade. Besides creating pleasant outdoor spaces, the green roof and planters help reduce rain run-off and sewer overflow into the city’s rivers.

4. CONTROLLED SOUTHERN SOLAR GAIN
   Large southern windows take advantage of passive solar gain, while external screens shade the building from summer sun.

5. NATURAL VENTILATION AND LIGHT
   Natural ventilation and lighting helps reduce cooling and lighting loads.

6. CONTINUOUS AIR BARRIER
   Extremely Air Tight Construction (0.6 ACH/50) = High Energy Savings

7. VENTILATION WITH HEAT RECOVERY (HRV)
   Constant Volume Fresh Air Ventilation ensures the highest possible occupant health and comfort. The Heat Recovery Ventilation recovers 95% of the heat being exhausted from the building back in to the supply air stream.