WEATHER DATA: Philadelphia International Ap,PA,USA,TMY3,

LATITUDE: 39.87

LONGITUDE: -75.23

CDD: 1235

HDD: 4759

CLIMATE ZONE: 4A

CHARACTERISTIC: MIXED-HUMID

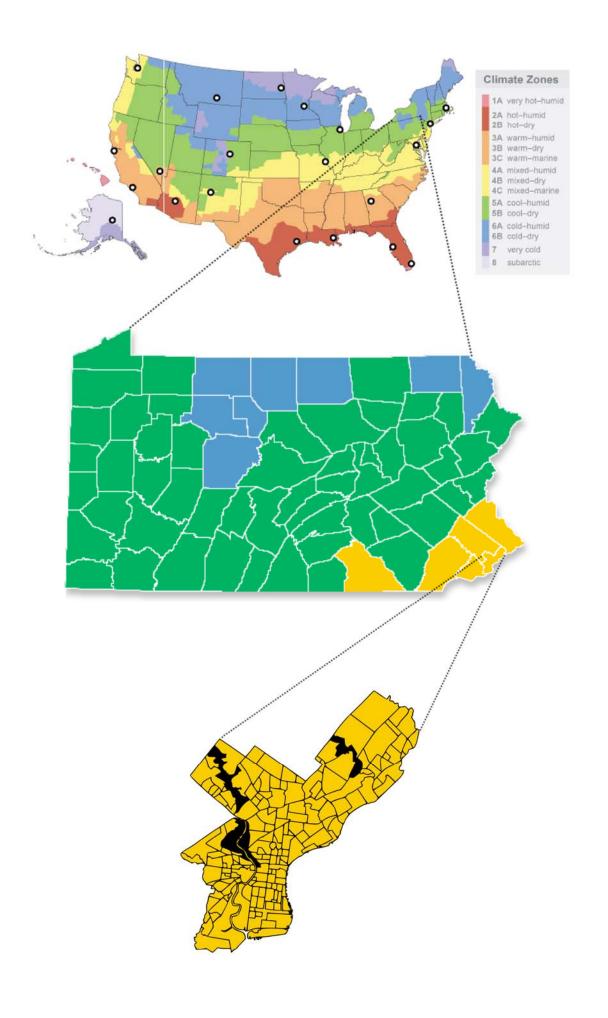
From the climate classification, The heat dregree days of philly is as much as four times than cool dregree days.

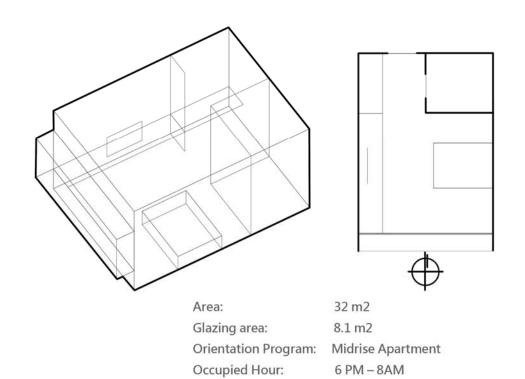
The design strategy should foucs on the heating efficience and thermal insulation.

Residential Prescriptive Requirements for Zone 1 (2009 IECC)

Ceiling R-value	38
Wood Frame Wall R-value	13
Mass Wall R-value i	5/10
Floor R-value	19
Basement Wall R-value ^c	10/13
Slab R-value ^d , Depth	10, 2 ft
Crawlspace Wall R-value ^c	10/13
Fenestration U-Factor ^b	0.35
Skylight U-Factor ^b	0.60
Glazed fenestration SHGC b, e	NR

https://energycode.pnl.gov/EnergyCodeReqs/?state=Pennsylvania





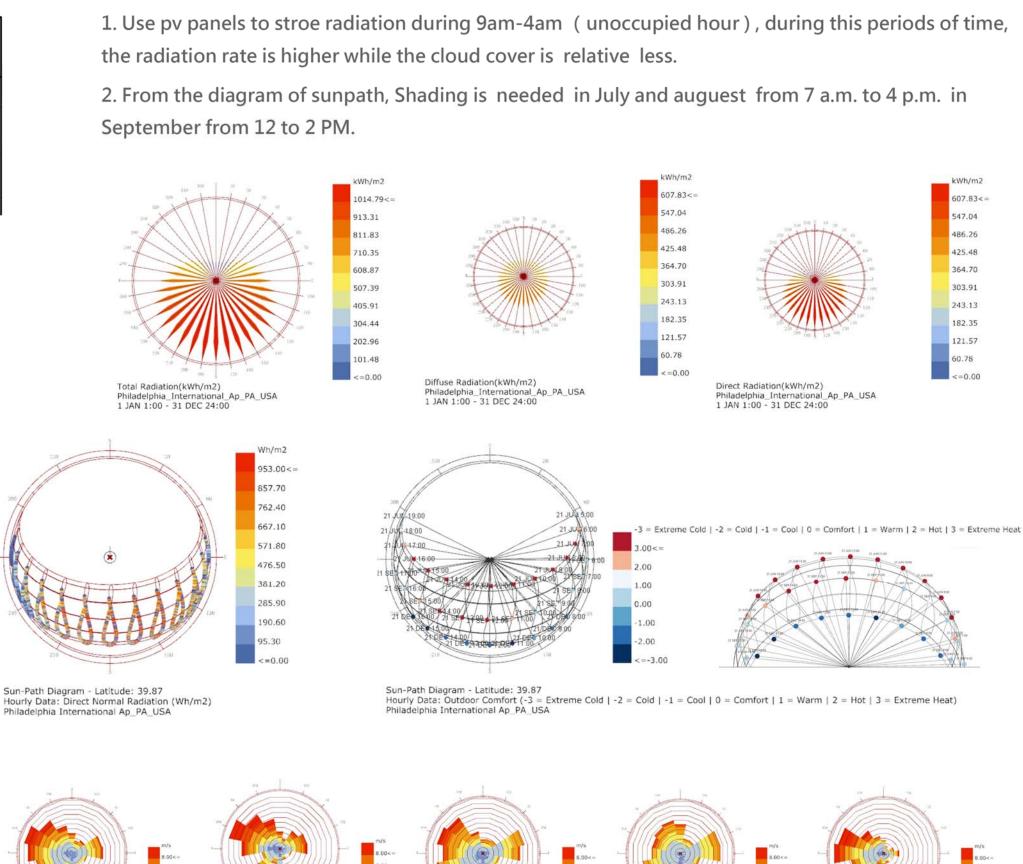
Sun-Path Diagram - Latitude: 39.87

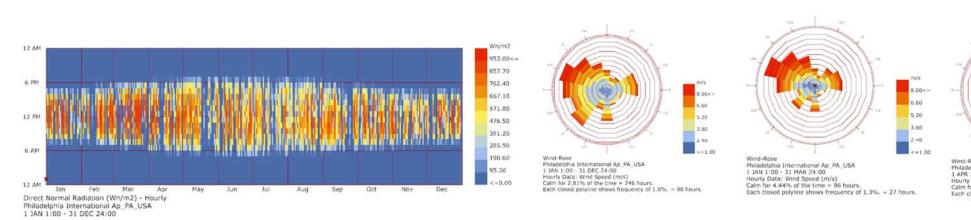
Hourly Data: Total Cloud Cover (tenth)

Total Cloud Cover < 6 54.0 hours of total 146.0 sun up hours(36.99%).

Philadelphia International Ap PA USA

Conditional Selection Applied:





10.00<=

9.00

8.00

7.00

6.00 5.00

4.00

3.00

2.00

1.00

<=0.00

