

SPH-DATA



SCRANTON PASSIVE HOUSE

THE SCRANTON PASSIVE HOUSE IS NORTHEASTERN PENNSYLVANIA'S FIRST CERTIFIED PASSIVE HOUSE AND THE 112TH PHIUS+ CERTIFIED PASSIVE HOUSE IN NORTH AMERICA.



PROJECT INFORMATION

LOCATION SCRANTON, PA
SIZE 2,153 SQFT
CLIMATE ZONE 5 / 6 COLD

HERS 28

CONSTRUCTION COMPLETE 2015

COST \$165/SQFT

MODELING TOOLS PHPP / REMRATE

MONITORING RPA PHIOT

PASSIVE HOUSE ENERGY CRITERIA

ANNUAL HEAT DEMAND 4.52 KBTU/(FT2YR)
HEAT LOAD 2.75 BTU/(FT2HR)
PRIMARY ENERGY 31.5 KBTU/(FT2YR)
AIR TIGHTNESS 0.47ACH@50Pa
TREATED FLOOR AREA 1,750 SQFT

CONSTRUCTION SPECIFICATIONS

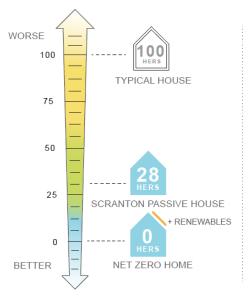
FLOOR R=76 SLAB ON GRADE
WALLS R=61 2X4 WALL PLUS TJI
ROOF R=85 ENERGY TRUSS
WINDOWS R=7 INTUS EFORTE

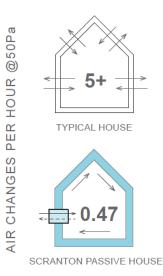
MECHANICAL SYSTEMS

VENTILATION RENEWAIRE ERV
HEATING AND COOLING MITSUBISHI ASHP
DOMENSTIC HOT WATER GE HWHP

RPA PASSIVE HOUSE MORPHOLOGY

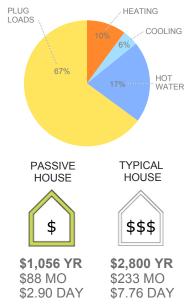
ENVELOPE AREA TO TFA 3
SURFACE AREA TO VOLUME 32
ENVELOPE AREA TO GLAZING 14%
SOUTH GLAZING 47%
ENCLOSURE R VALUE 36.2





HERS RATING AND AIR TIGHTNESS





OPERATING EXPENSE

