Northeast Sustainable Energy Association
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A Commercial Building Retrofit With Passive Detailing: A Case Study
Course Number

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Take an in-depth look at a commercial case study: a retrofit of an industrial office space in NYC. See new challenges and solutions as Passive House moves from residential to commercial construction.
FABRICATION SHOP
12,000 SF
+/- 30 people

OFFICE
2,500 SF
+/- 15 people
The Shop

- Can be loud
- Produces fumes & therefore requires lots of ventilation
- Is kept at a cooler temp in Winter (60 deg)
- Is not cooled in summer
The Office

• Should be quiet
• Requires much less ventilation
• Should be warm in the winter
• cool in summer
BOX WITHIN A BOX
PHPP + RHINO 3D + GRASSHOPPER
1. GLAZING
2. WALLS
3. ROOF
4. FLOOR
5. MECHANICAL