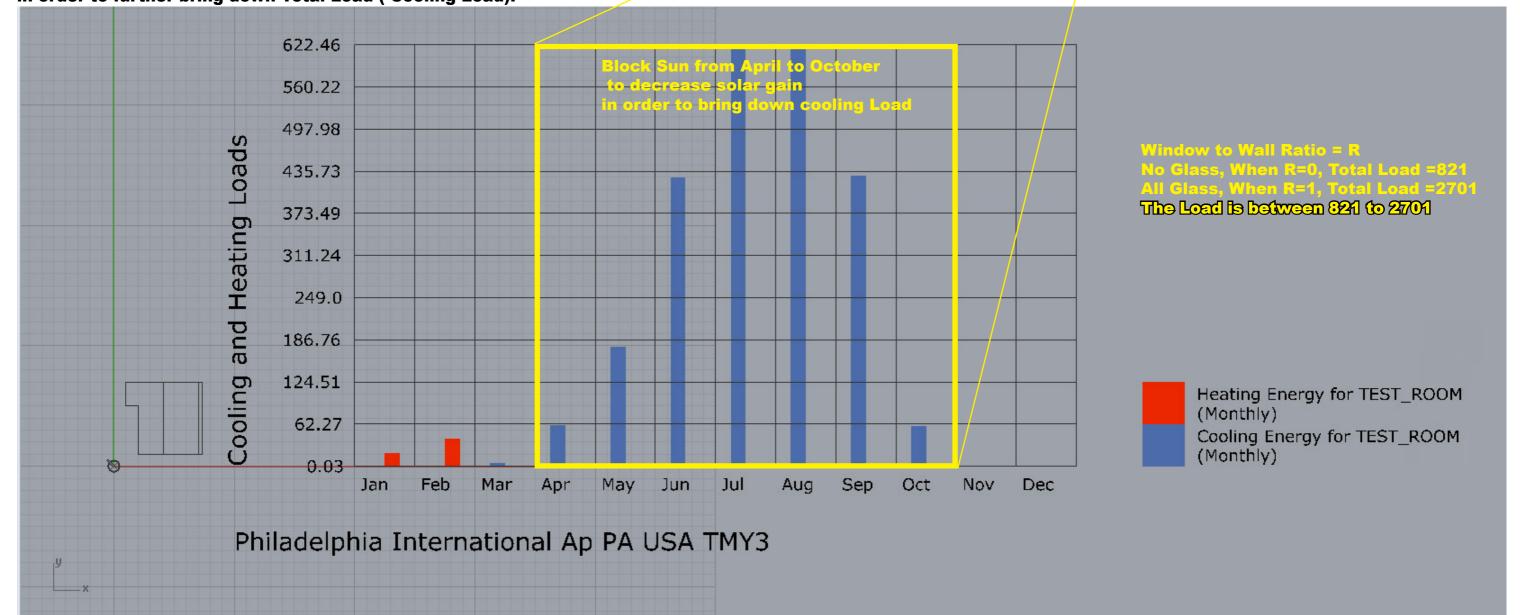
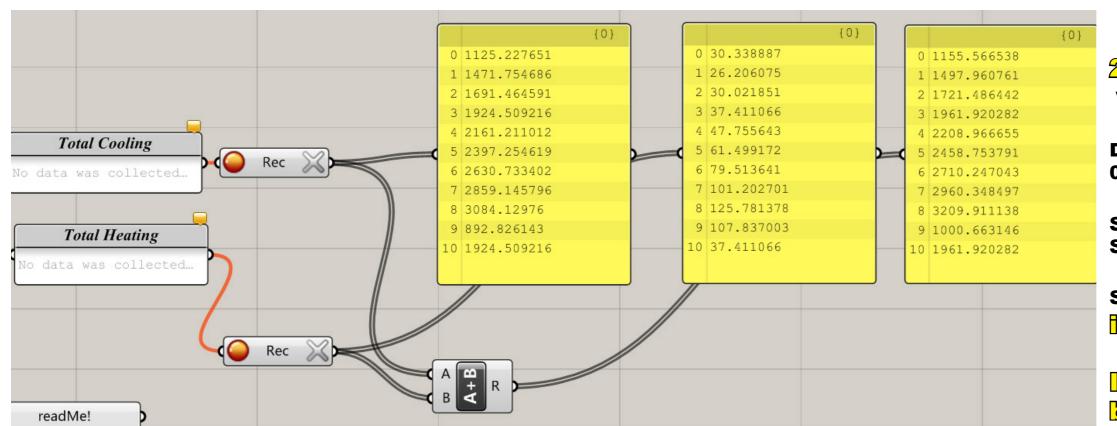


## 1 OVERALL STRATEGY

First, Select the Class Surface Area with Smallest Total Load, then design shading for this area to decrease harmful solar gain in order to further bring down Total Load (Cooling Load).





## 2 Select the Class Surface Area with Smallest Total Load:

Do simulation for 9 different Ratio from 0.1-0.9,

Select 0.2, 0.3 senario for further Study,

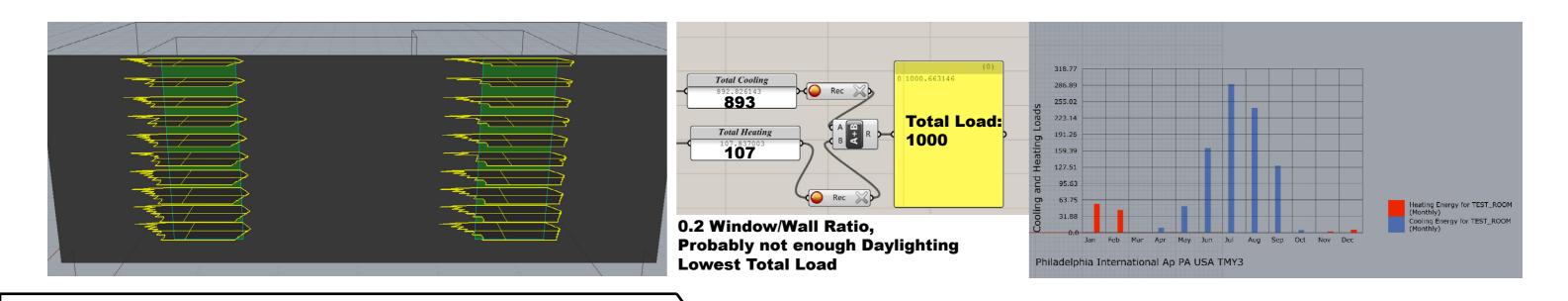
Since They have the Smallest Heathing Load,

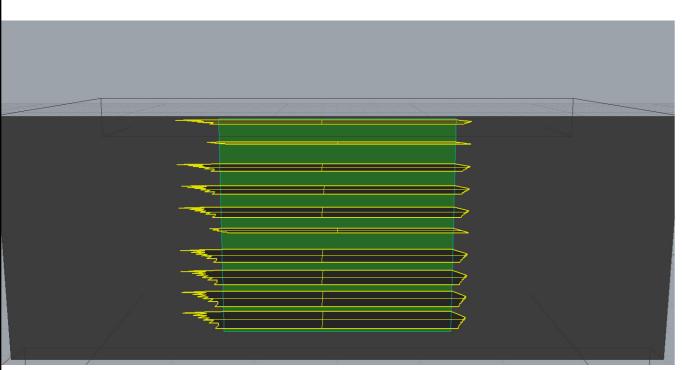
In the next Step, just need to bring down the cooling load

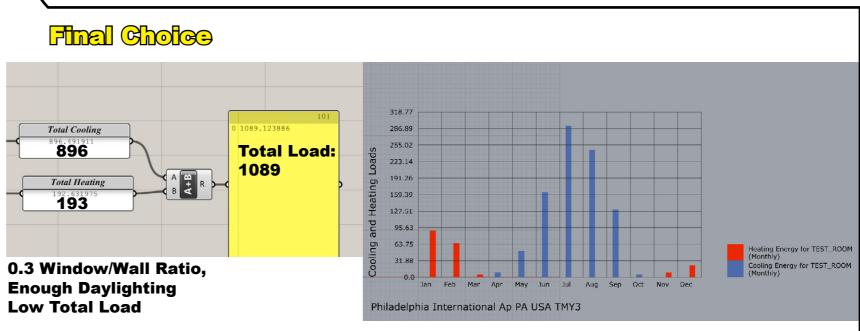
R	Total Cooling	{0}	Total Heating	{0}	Total Load	{0}
0.1	1125.227651	1125	30.338887	30	1155.566538	1155
0.2	1471.754686	1471	26.206075	26	1497.960761	1497
0.3	1691.464591	1691	30.021851	30	1721.486442	1721
0.4	1924.509216	1924	37.411066	37	1961.920282	1961
0.5	2161.211012	2161	47.755643	47	2208.966655	2208
0.6	2397.254619	2397	61.499172	61	2458.753791	2458
0.7	2630.733402	2630	79.513641	79	2710.247043	2710
0.8	2859.145796	2859	101,202701	101	2960.348497	2960
0.9	3084.12976	3084	125.781378	125	3209.911138	3209

\*R=0.1 has the lowest Total Load. However, the glass area is too small for Apartment( Not Enough Daylighting).

Based on my experience in my own apartment which R value=0.25, I thought 0.2-0.3 is fine for Daylighting.







## Compartson

