



Comparing design options

Glazing improvements

With the ideal project layout determined, 4240 used a modular approach to optimize individual wings of multiple buildings. A single L shape within a building set was tested to determine the most energy efficient window-to-wall ratios.

4240 had used a 30% glazing ratio on previous projects for the university – but this would not suffice for the contemporary, light filled interior expected within this scheme. With Sefaira they were able to quickly explore the cost/benefit for three different window-to-wall ratios and present the findings back to the client.

Once the optimum ratio was determined, the team carried out more detailed analysis to explore how different shaped windows would perform and what the impact on energy usage would be.

Adjusting one variable at a time in Sefaira, they were able to examine the: