

## **ARCH125: Introduction to Environmental Design**

### **Project #3S: LIGHT ACCESS AND THE RESIDENTIAL DEVELOPMENT 20%**

#### **Type 6: Tower Housing**

Note: Everyone doing block and tower housing is to construct their models at 1:200. Rather than having you replicate your own model many times to create a “neighbourhood”, we will be putting them all together to see what it looks/works like.

Hoogbouw Towers  
Amsterdam, 1927  
Johannes Duiker and J.G. Wiebenga

(Sherwood: Modern Housing Prototypes, p. 142)

#### ***Special Notes:***

Make two towers, one detailed, one just for massing.

***THIS PROJECT IS TO BE DONE IN A GROUP OF 4 STUDENTS.***

The purpose of the project is to understand the effect building spacing, orientation and placement as they affect natural lighting and access to light. This also changes the quality of life in the residential environment/neighbourhood. Residential neighbourhoods of varying building types (single family, multi family, apartments, etc.) all have a need for a certain quantity as well as quality of light. The closeness of buildings also impacts aspects of community, greenspace, privacy and general issues of sustainable design.

The parameters of the project require that you *document* in plan and section, then *construct* a simple model of a neighbourhood of specified size, of specified materials at a specific scale; bring the model to the class seminar where it will be “tested” and compared with other strategies.