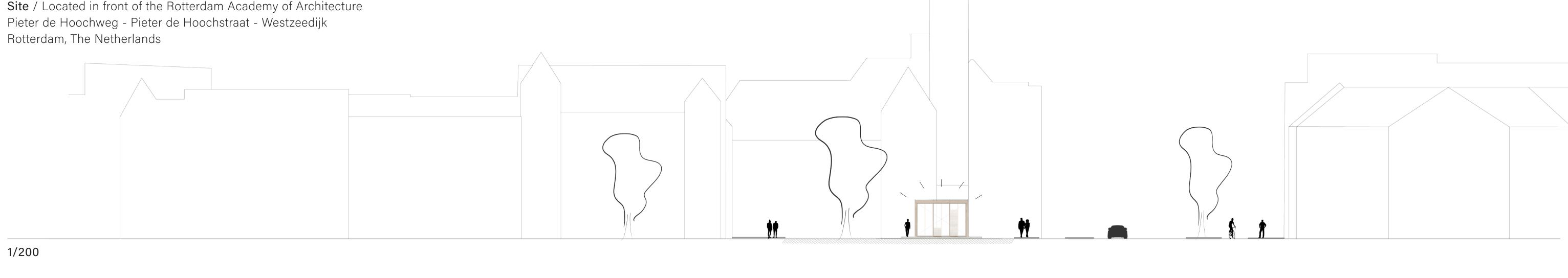
EARTH CORE PAVILION - A PUBLIC ROOM

SOPHIE DE RIDDER

Studio Grounded Matter // Rotterdam Academy of Architecture // 22 12 21

Site / Located in front of the Rotterdam Academy of Architecture

Pieter de Hoochweg - Pieter de Hoochstraat - Westzeedijk





MEET

Have lunch and have drinks during the day or after school and work

EXHIBIT

Exhibit your creations

EDUCATE

Educate Rotterdam (about rammed earth)

LANDMARK

functions

A lantern with diffused light, creating a safe haven in the dark

BLEND IN THE NEIGHBOURHOOD

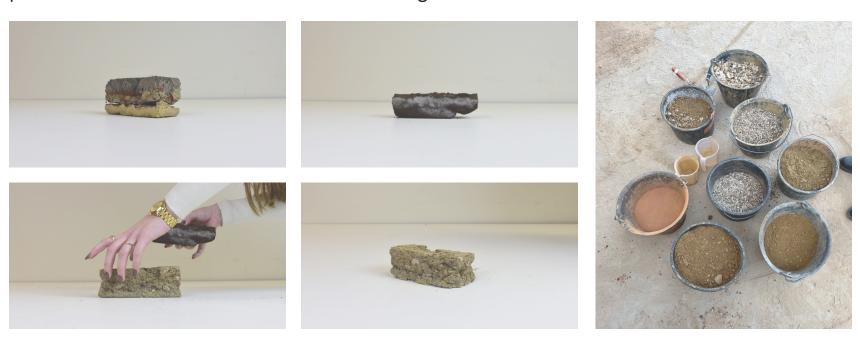
Connected and aligned with the surrounding buildings

1/500 Rammed earth is a technique for using local earth as building material. A formwork is used where different layers of earth can

be rammed on top of each other. It allows for free, continues shapes with gradients in color, which creates a natural, warm look

Rammed Earth is mostly associated with building practices in developing countries, where earth is widely available, locally sourced and locally used. But now, in more industrialized developing countries, rammed earth has been rediscovered as a building material with surprisingly good sustainable characteristics, which makes it a serious alternative to more traditional building materials and techniques.

In the Netherlands, rammed earth is not the most obvious construction method because of the climate. Rammed earth is sensitive to, and has to be protected against moist and wind. Besides being able to build structures with earth, you can do more with it, like using it for interior walls, floors, bars, benches, etc. In this Public Room, Rotterdammers are introduced to the possibilities of rammed earth while using it.

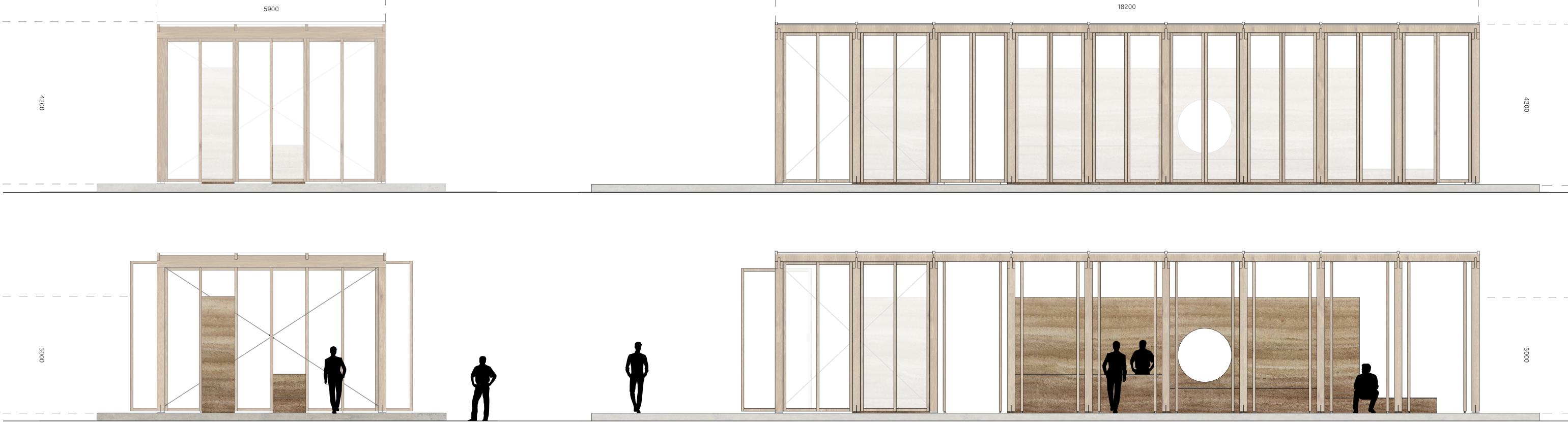


and feel. The construction is sustainable and fully recyclable.

From least to most material, the basic recipe of rammed earth consists of clay, gravel, sand and silt. After these materials are mixed, a sticky substance is made from them by adding a small amount of water. Depending on the local materials, the percentages per mix will just vary a

Rammed Earth as centrepiece

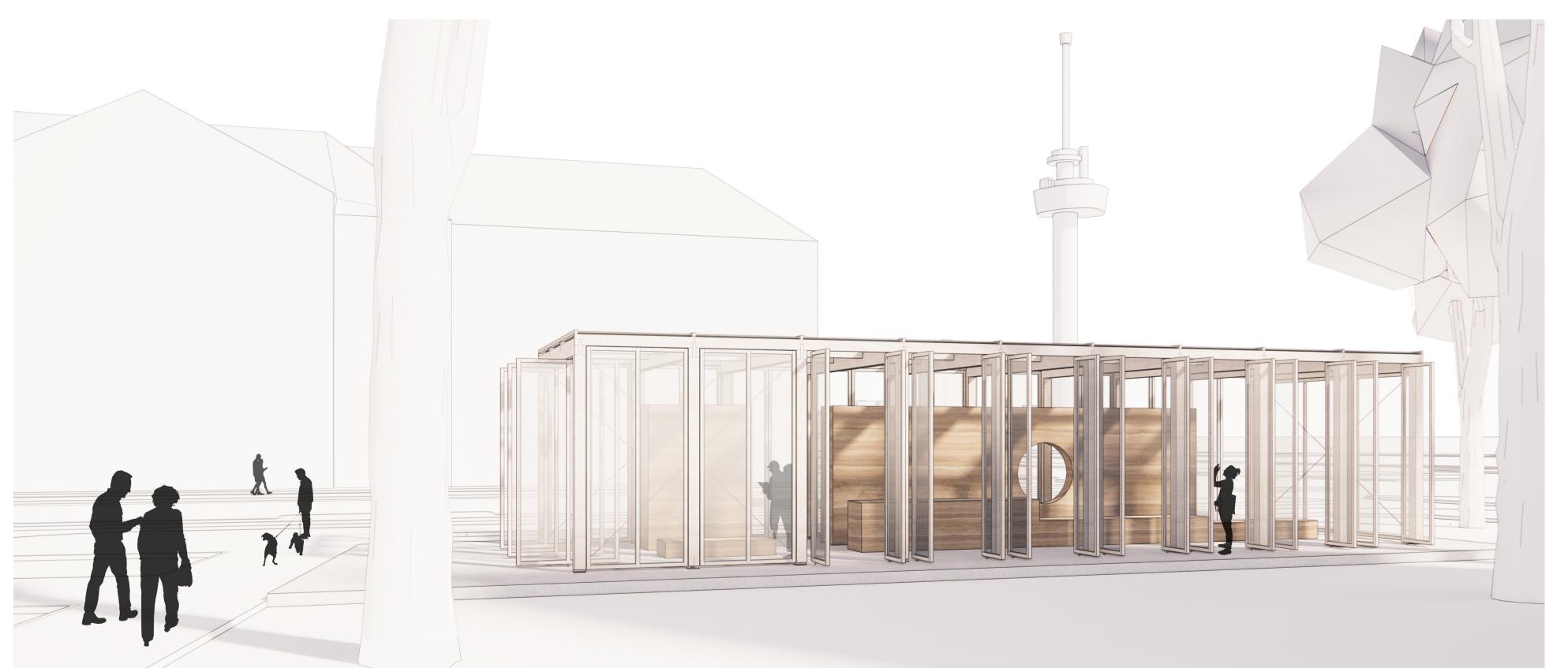
1/200



1/50 view north - entrance

samples

1/50 view west



WELCOMING ENTRANCE

The entrance aligned with the entrance of the Academy

The entrance accentuated by the pivot doors and the extended base plate to the pavement

TRANSPARANCY

Desired transparency created by the openings along and through the Rammed Earth components See through with opposite placed patio doors - the park invited into the building Recycled polycarbonate as semi-transparent façade panels to create diffused light

MATERIALS

The Rammed Earth as the core protected by a wooden casing Experience and feel sustainable building with rammed earth

UNIQUE

A unique building with unique materials in a unique surrounding





1/50 maquette

SOPHIE DE RIDDER

