



E.H.107

Eerste Helmerstraat 107
Comparative Sunlight Study
May 2021



CURRENT PROPOSAL



ORIGINAL DESIGN



HEIGHT COMPARISON

Sunlight study

MORNING



9:00



13:00

AFTERNOON



15:30



17:00

In the morning, the daylight on 105 is not affected from the 107 extension. The extension casts shadow on 105 from **12:40 to 17:20** in the afternoon. After that, is the existing building itself to cast shadow in the gardens. By 17:45, the gardens are completely in shadow.

SPRING EQUINOX - 21 MARCH



SHADOW ON 105 - COMPARISON

Minor difference on the entrance porch due to the extension.
The shadow on 105's garden is caused mainly by the separation fence between the properties.

SPRING EQUINOX - 21 MARCH



SHADOW ON 105 - COMPARISON

The lower extension of the original design casts a smaller shadow in 105 garden throughout the afternoon. After 17:20, the sun moves behind the surrounding buildings and the gardens are in full shadow.

SPRING EQUINOX - 21 MARCH

MORNING



AFTERNOON



In the morning, the daylight on 105 is not affected from the 107 extension. The extension casts a moderate shadow on 105 from **13:00 to 16:30** in the afternoon. After that, is the existing building itself to cast shadow in the gardens. By 17:30, the gardens are completely in shadow.

SUMMER SOLSTICE - 21 JUNE





MORNING



AFTERNOON



Autumn and Spring have very similar sun patterns. In the morning, the daylight on 105 is not affected from the 107 extension. The extension casts shadow on 105 from **12:15 to 17:00** in the afternoon. After that, is the existing building itself to cast shadow in the gardens. By 17:35, the gardens are completely in shadow.

AUTUMN EQUINOX - 21 SEPTEMBER

MORNING



AFTERNOON



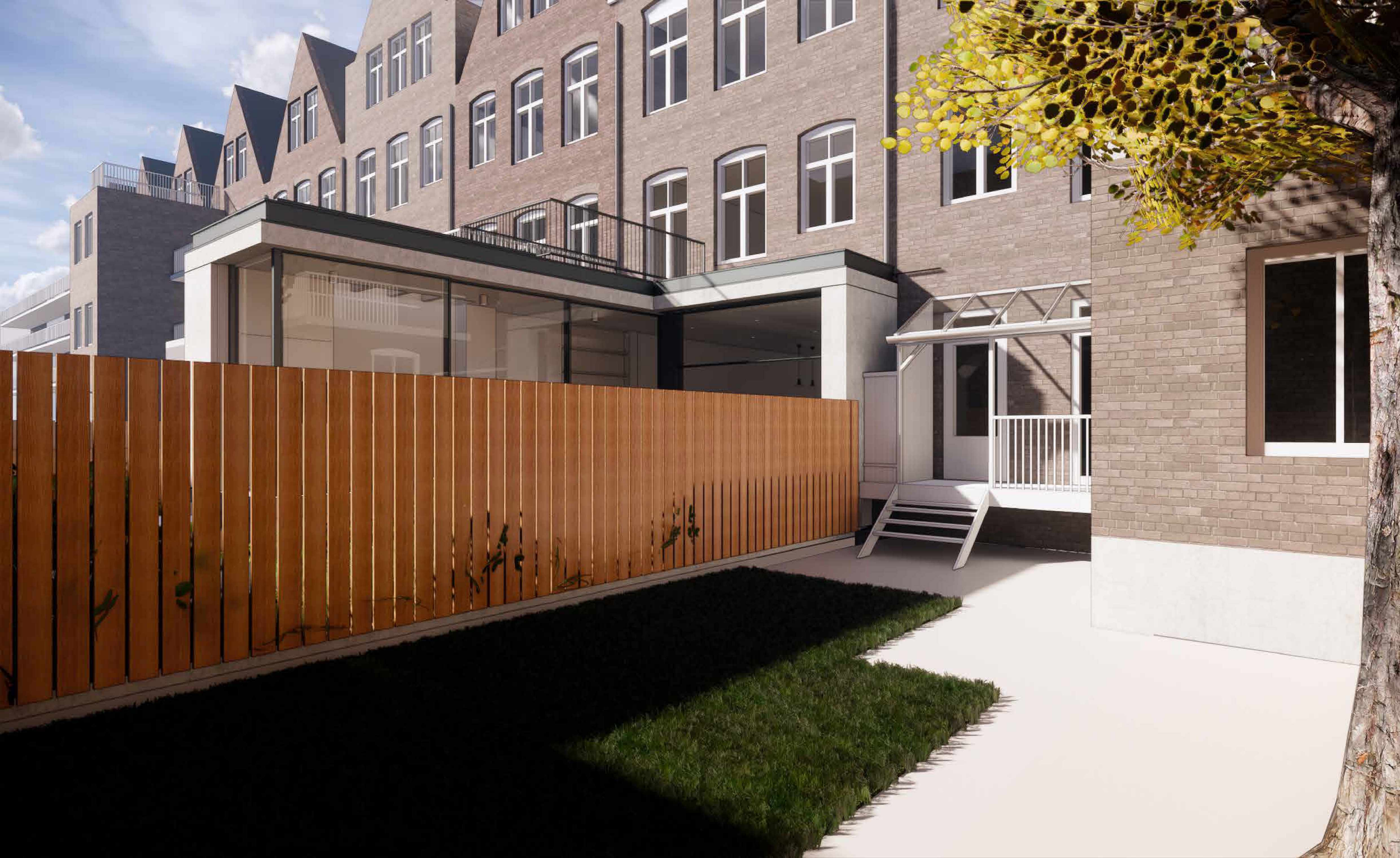
During the winter solstice, direct sunlight only reaches the upper floors of the building. The ground floor and gardens are in shadow throughout the day.

WINTER SOLSTICE - 21 DECEMBER



VISUAL IMPACT - COMPARISON

ORIGINAL DESIGN



VISUAL IMPACT - COMPARISON

CURRENT PROPOSAL



BLU Studio Ltd
16 Comeragh Road
W149HP London, UK

office@blustudio.uk
+44 (07) 7466595358