7.5

We used a gaussian filter, as it doesn't produce significant artifacts, as eg. the pillbox filter could.

In our experiments, the sigma of 4 px gave the best results.

We used the formula

$$G(u) = e^{(-2\pi^2\sigma^2 d^2)}$$ where the d is the distance from central point.

We used this formulation, as it makes the value of 1 near the center - which results in no change of the lowest frequencies.

We performed the filtering only in the x direction, as the artifacts are vertical lines.

On both images, there were small artifacts on edges, caused by border discontinuities.

Filtering using a pillbox filter would show some artifacts on edges of the building on the second image