

An aerial photograph of the Frankfurt skyline at sunset. The Commerzbank Tower is the central focus, illuminated by the golden light of the setting sun. Other skyscrapers and city buildings are visible in the background and foreground. A large, semi-transparent white circle is overlaid on the right side of the image, containing the text.

Commerzbank Headquarters

MATERIAL DIDÁTICO

Térmica e Iluminação Natural

Prof.^a Dr.^a Erika De Figueiredo



Frankfurt am Main, Alemanha

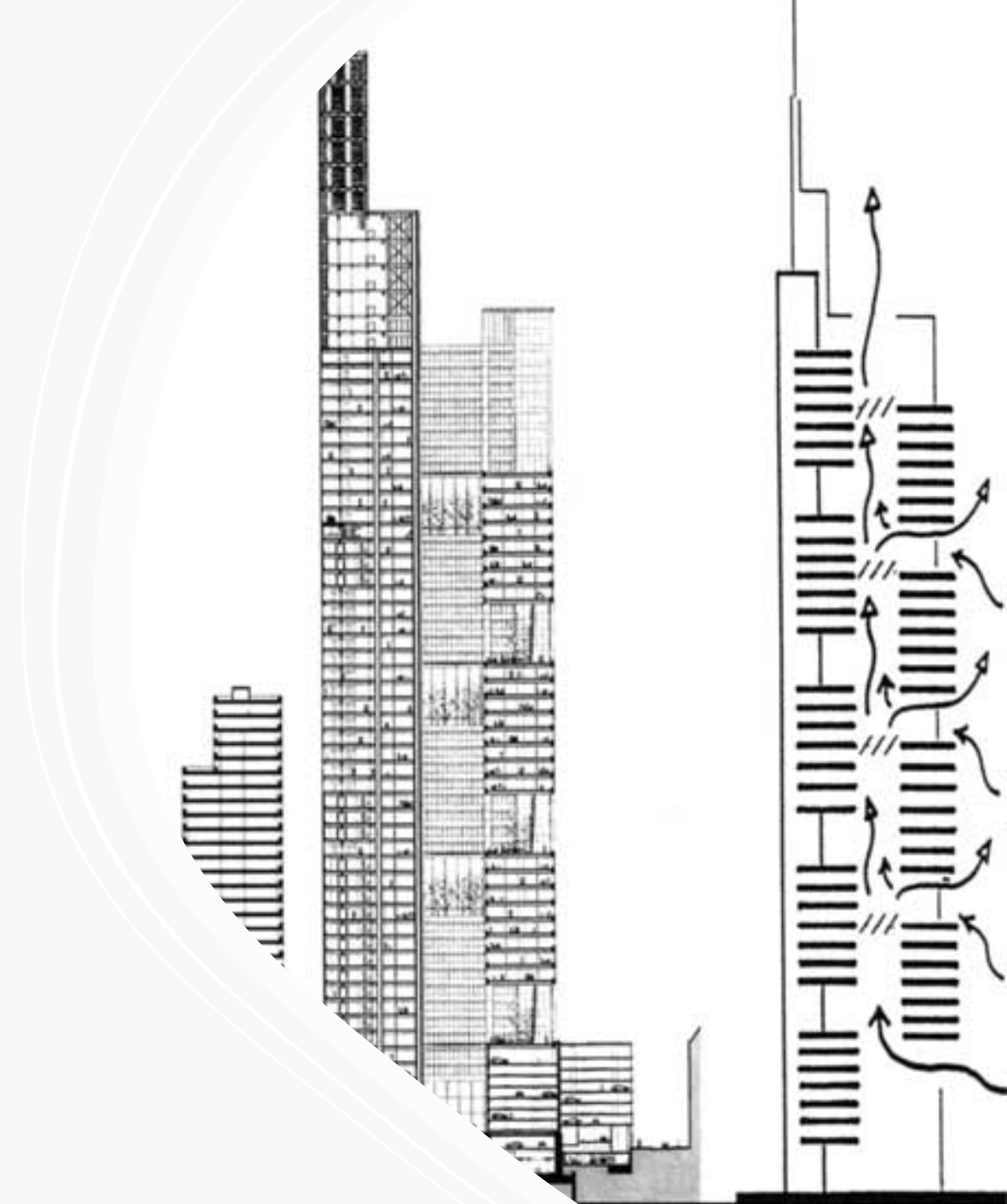
Construído em 1997.

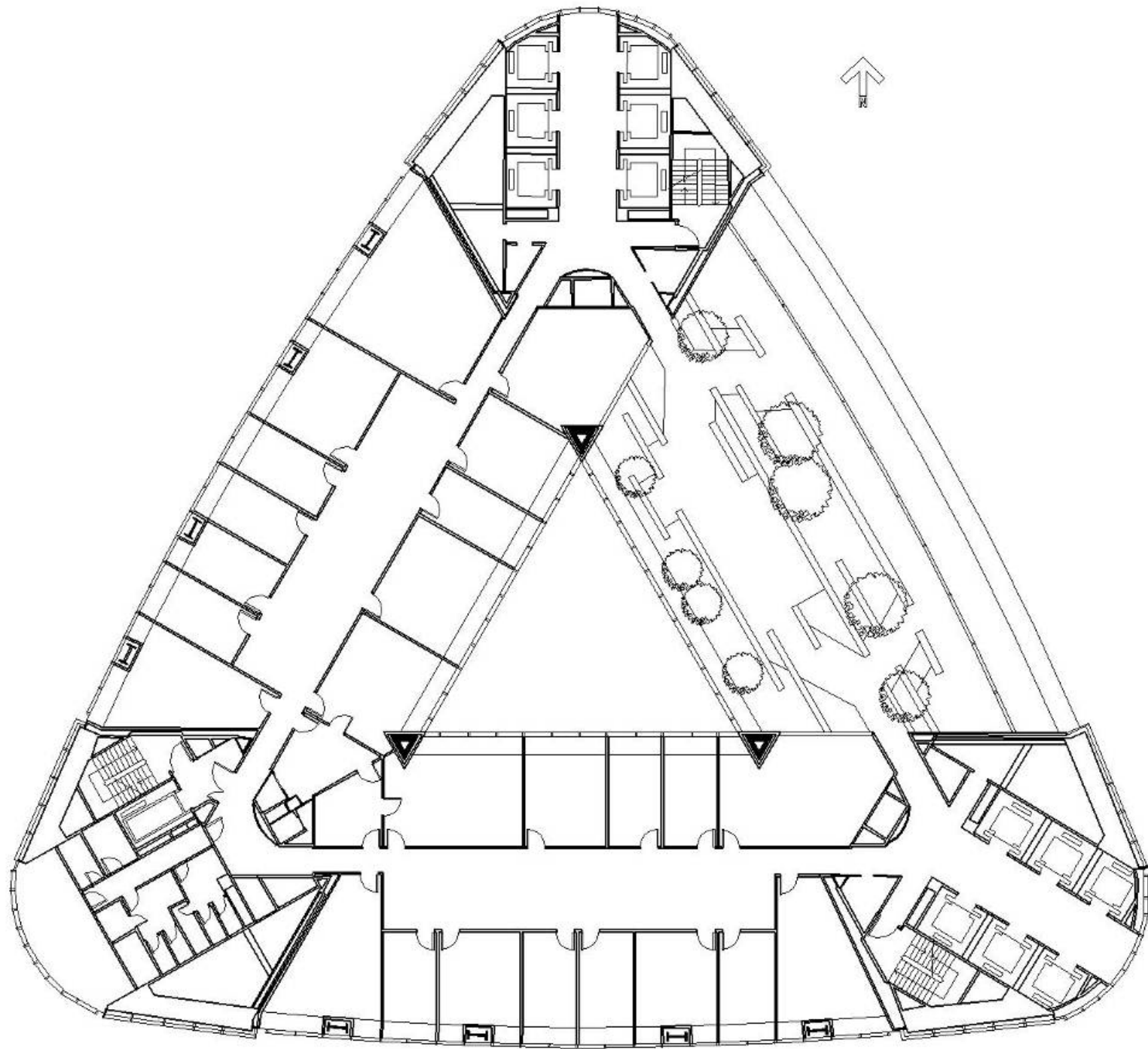
Norman Foster + Partners

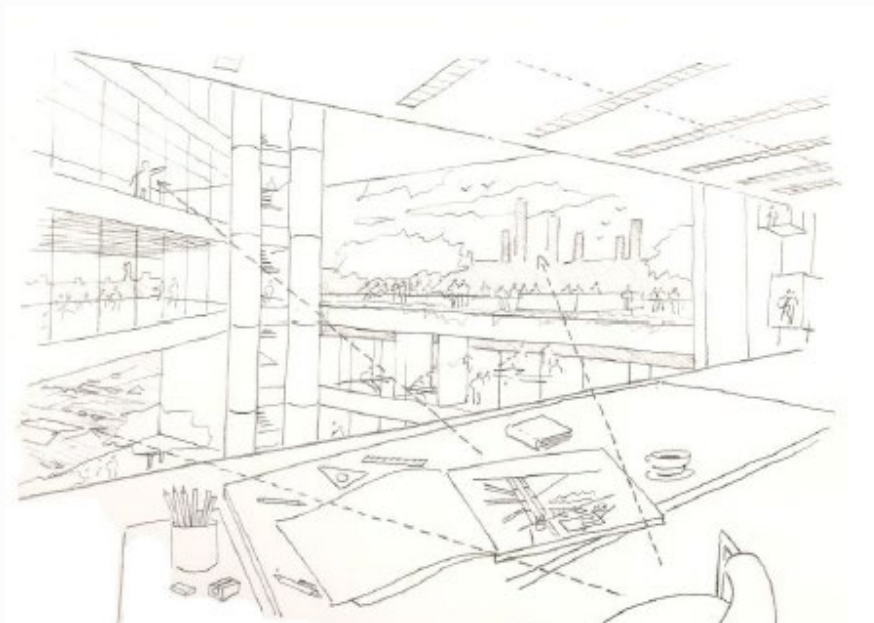
Commerzbank Headquarters

Altura: 258,70m

Número de Pav.: 63 andares



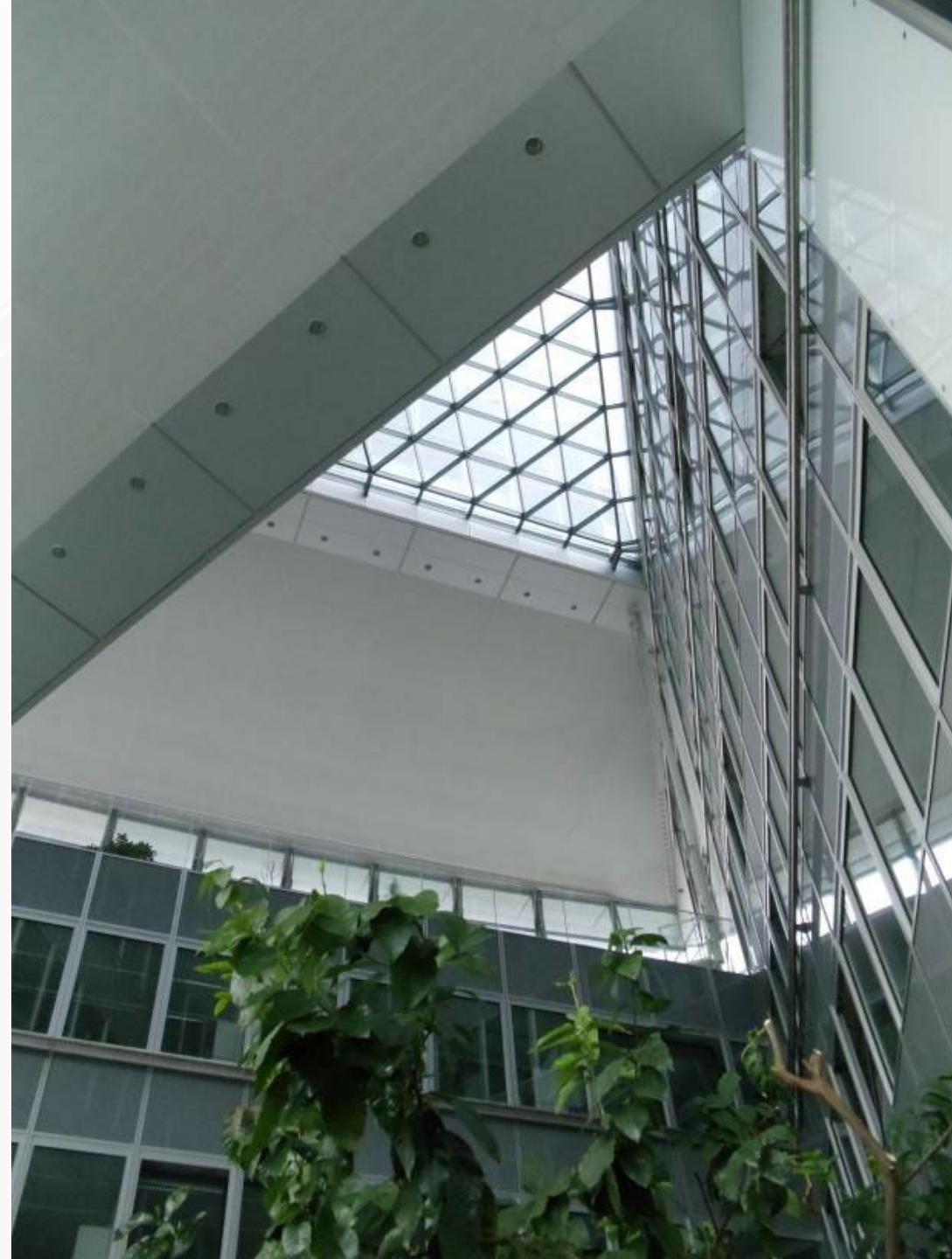




Um requisito responsável por influenciar o projeto foi uma norma alemã que exige que todas os usuários do edifício tenham acesso visual para o exterior

Átrio

Jardim interno

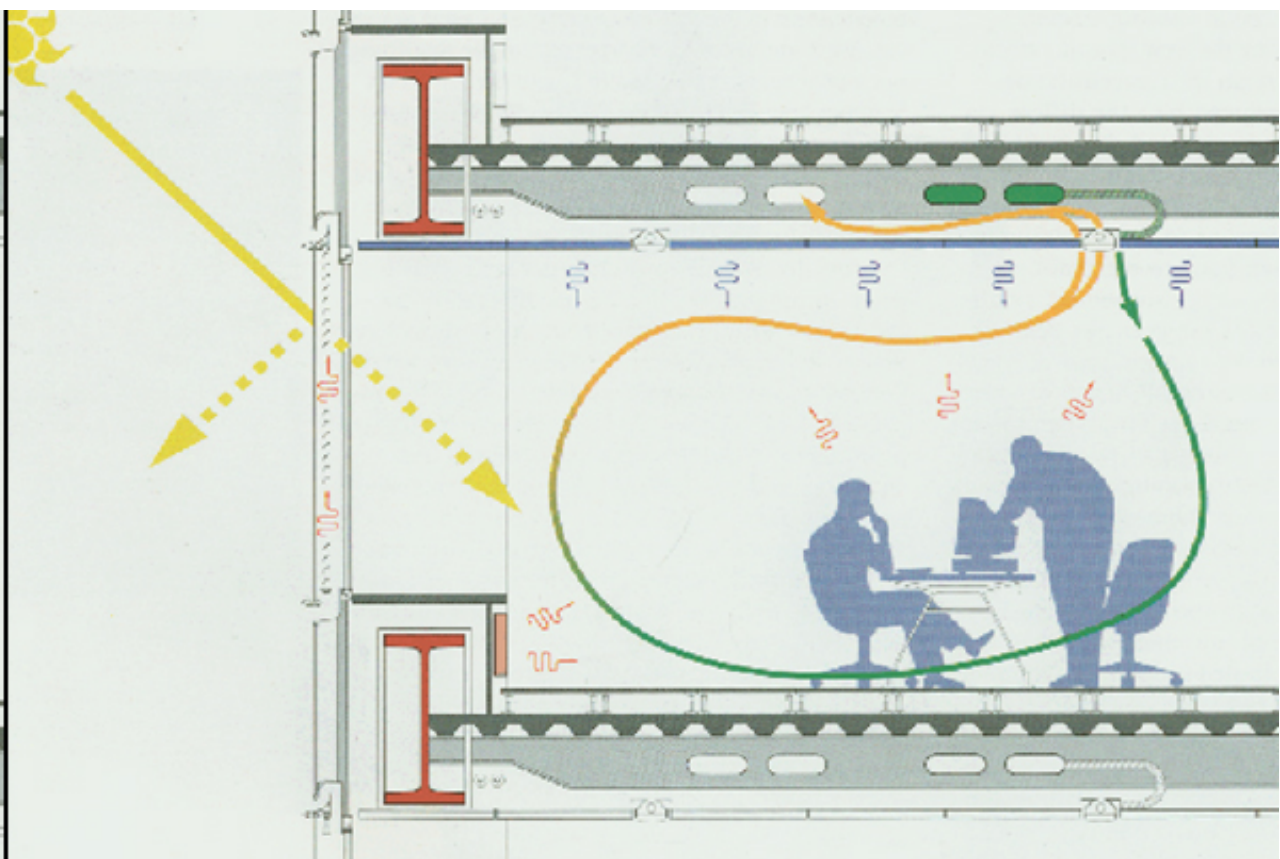
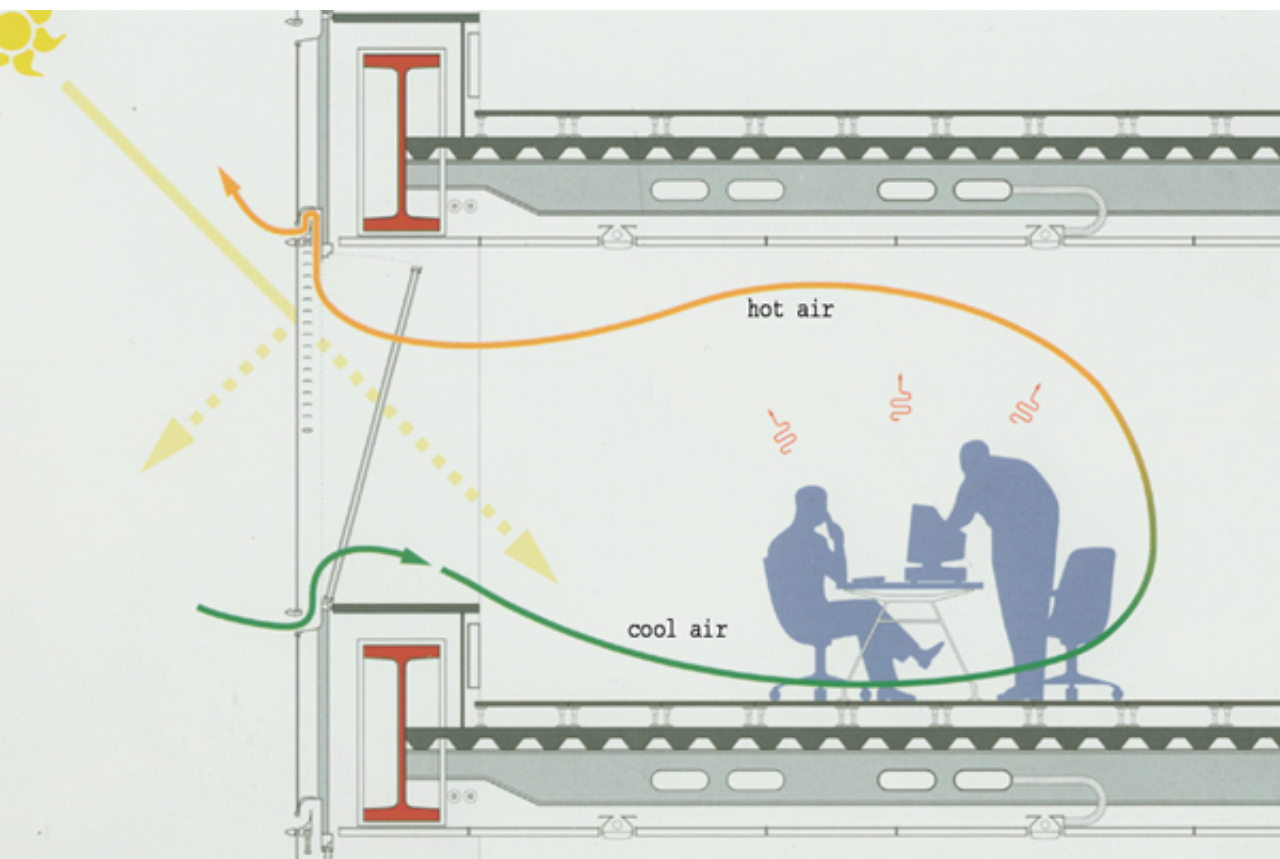


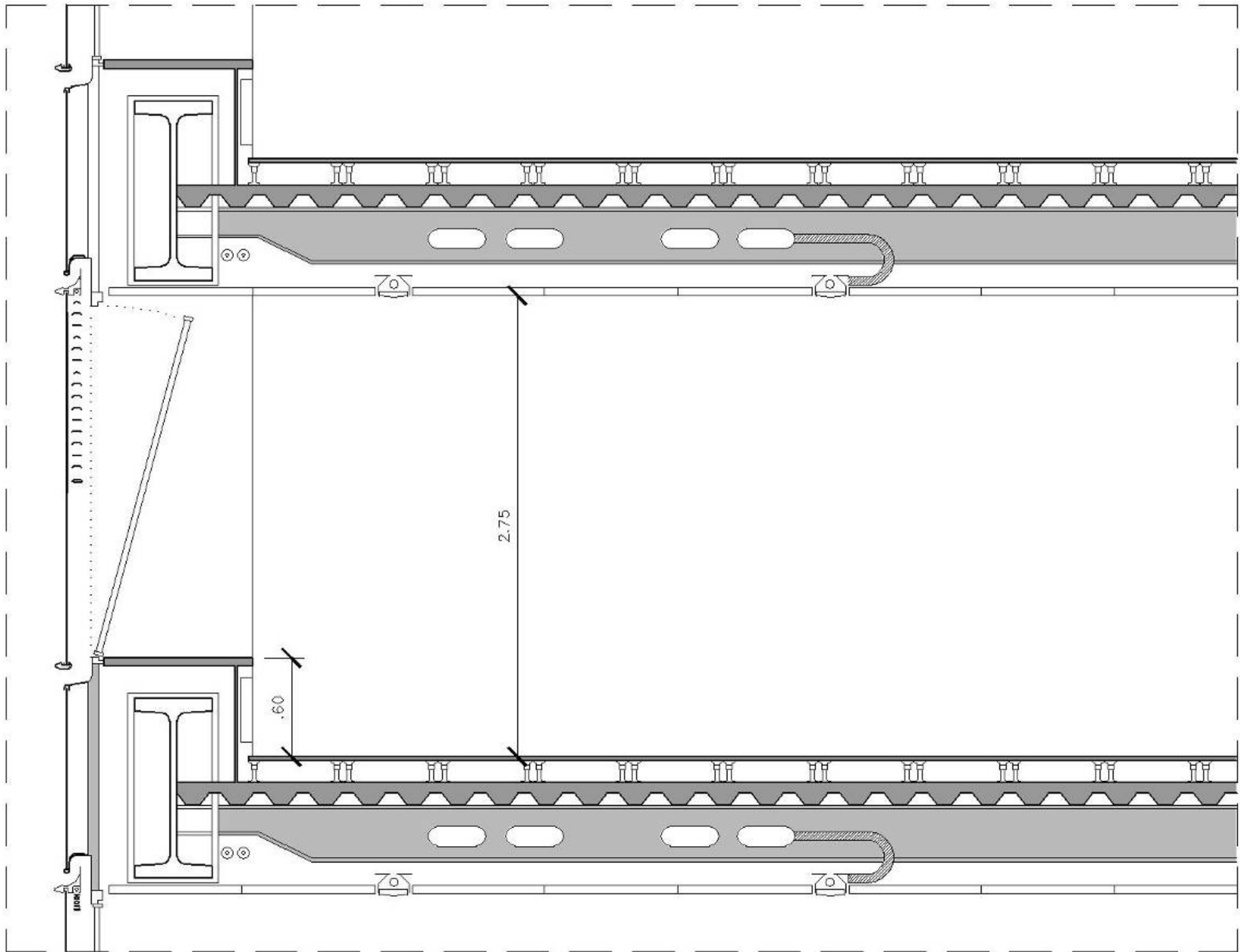




Aberturas

Funcionamento













Imagens internas

Commerzbank Headquartes



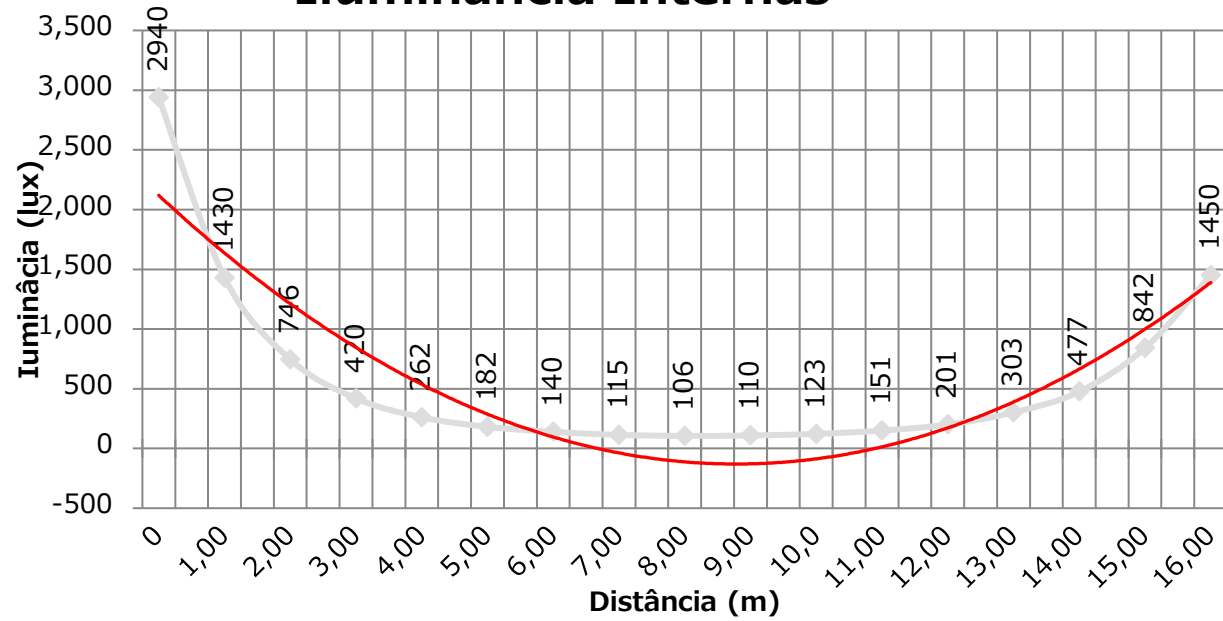




Iluminação Natural

Análise por simulação computacional

Iluminância Internas



◆ Luz natural
— Linha de tendência

