

Natural Ventilation

Architecture

Three strategies, the plan depth each supports, and what defeats them.

H is the floor-to-ceiling height. Indicative planning limits.

Strategy	Depth	Driver
Single sided, one opening	about 2H	Turbulence at opening
Single sided, high and low	about 2.5H	Small stack effect
Cross ventilation	about 5H	Wind pressure difference
Stack, atrium or chimney	deeper	Warm air rising

Noise, pollution, security and rain all limit openable windows. Check them before committing to a natural strategy.