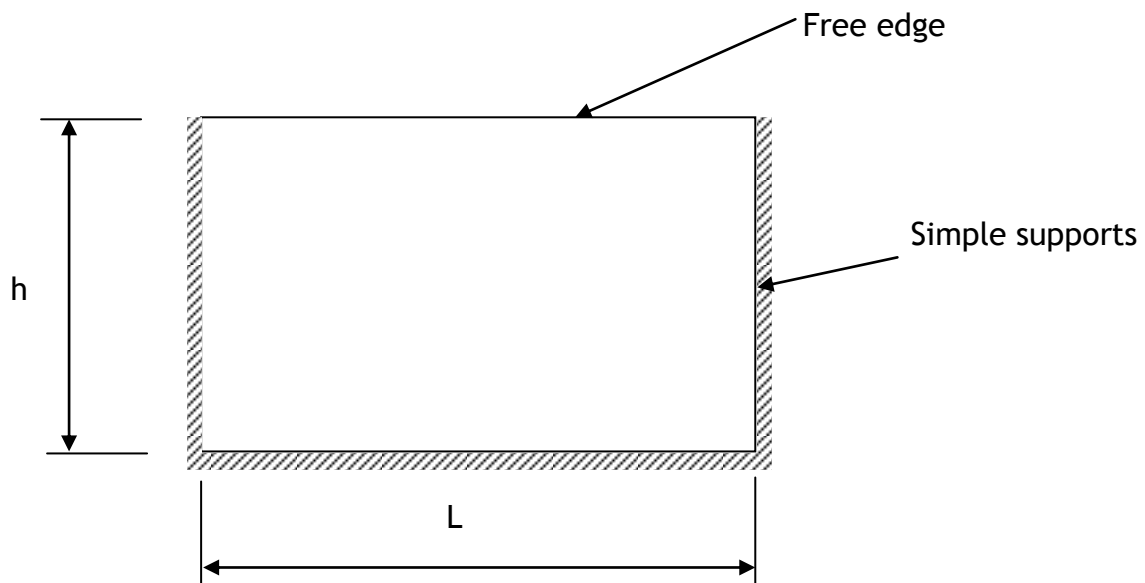


## LATERAL DESIGN EXAMPLE L1



Determine the required thickness of a single leaf wall supported as shown above using the following criteria:

Characteristic wind load,  $Q_k$  = 0,45 kN/m<sup>2</sup>

Height of wall to free edge,  $h$  = 4,15 m

Length of wall between restraints,  $L$  = 4,15 m

Concrete blocks Group 1 (solid) of compressive strength (non-normalised) = 7,3 N/mm<sup>2</sup>

Class 2 execution control ) )  $\gamma_M = 2,7$

Category I or II masonry units ) )

Partial load factor  $\gamma_f = 1,5$

M6 or designation ii) General Purpose mortar is to be used.