

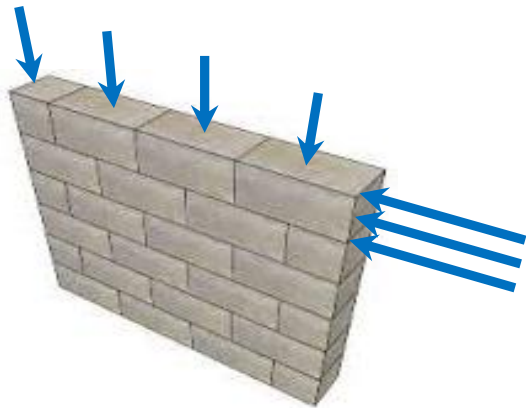
Suggested problems for HW

(1) Stonehenge under horizontal acceleration:

different directions of acceleration;
different velocities → failure mode?



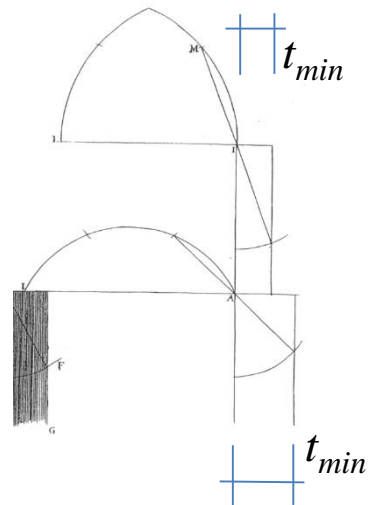
(2) Comparison of FEM and DEM:



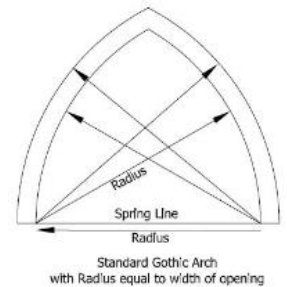
prepare the same wall in DEM and FEM;
submit to cyclic loading (till slide in each cycle);
compare

Suggested problems for HW

(3) Cathedral Design Rule of Derand:

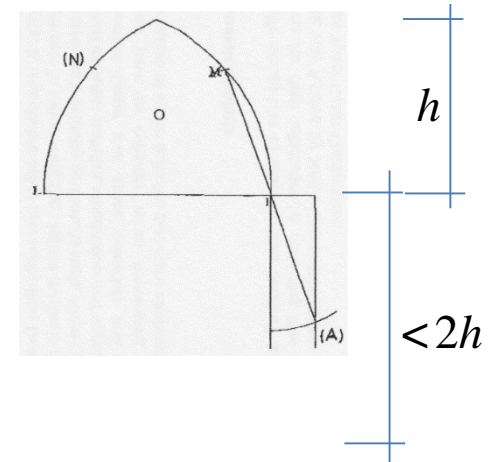


Is this t_{min} a good approximation?



(4) 7th Cathedral Design Rule of Gil de Hontanao:

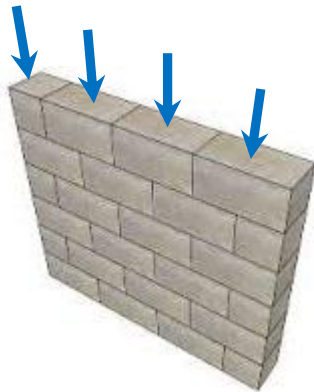
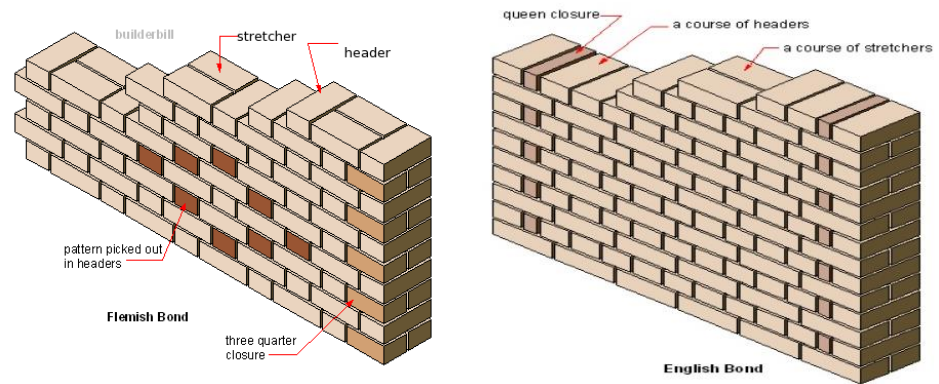
What happens for smaller / larger height?



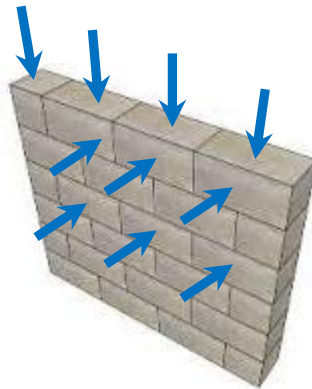
Suggested problems for HW

(5) Planar walls:

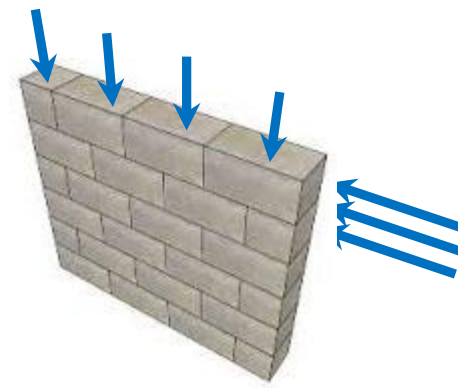
Effect of bond pattern?



(1)



(2a)



(2b)

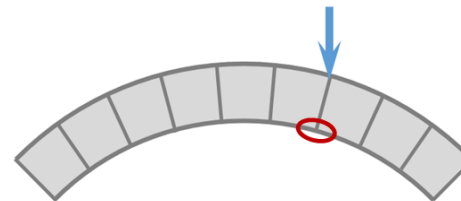
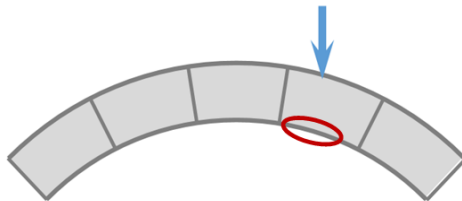
→ Find the failure load for different bond patterns, and compare!

Suggested problems for HW

(6) Simulate Jenga steps:



(7) Size effect of the voussoirs



(8) YOUR OWN PROBLEM