Virtual Masonry Laboratory

Lab 3 Worksheet:

1. What are two common tests to find the bond strength of masonry?

2. Draw the test setup for the test methods listed above. Clearly label all pertinent dimensions and weights.

3. Draw a free body diagram of each tests failure joint.

- 4. Using the sample results, find:
 - a) The average failure stress for each mortar type and test type.
 - b) The coefficient of variation for each mortar type and test type.

c) Design bond stress if you want 90% of the test results to be above the design stress. (assume a normal distribution)