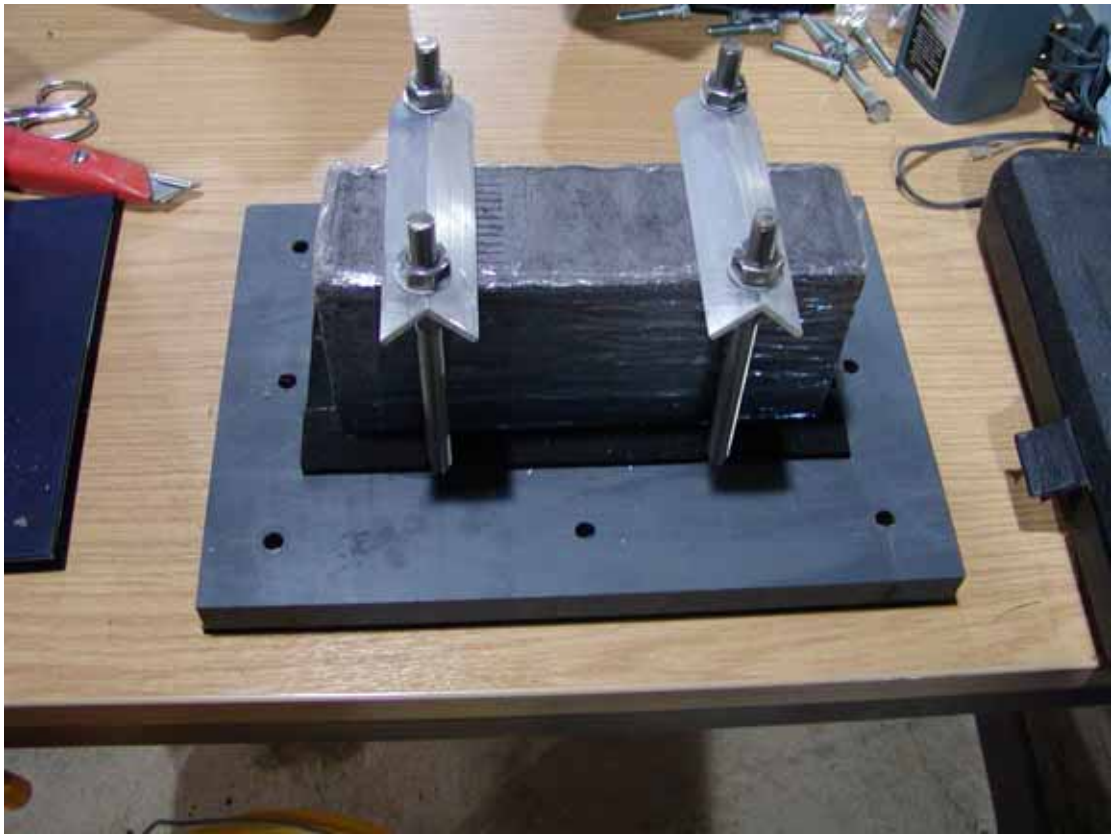

Photo 5.1 Preparing an Engineering brick for testing

Photo 5.2 Wire cut bricks ready for testing

Photo 5.3 Concrete Block 3.5N ready for testing

Photo 5.4 Seepage through Concrete Block 7N

Photo 5.5 Engineering brick Class A during testing

Photo 5.6 Engineering brick Class A after wet test

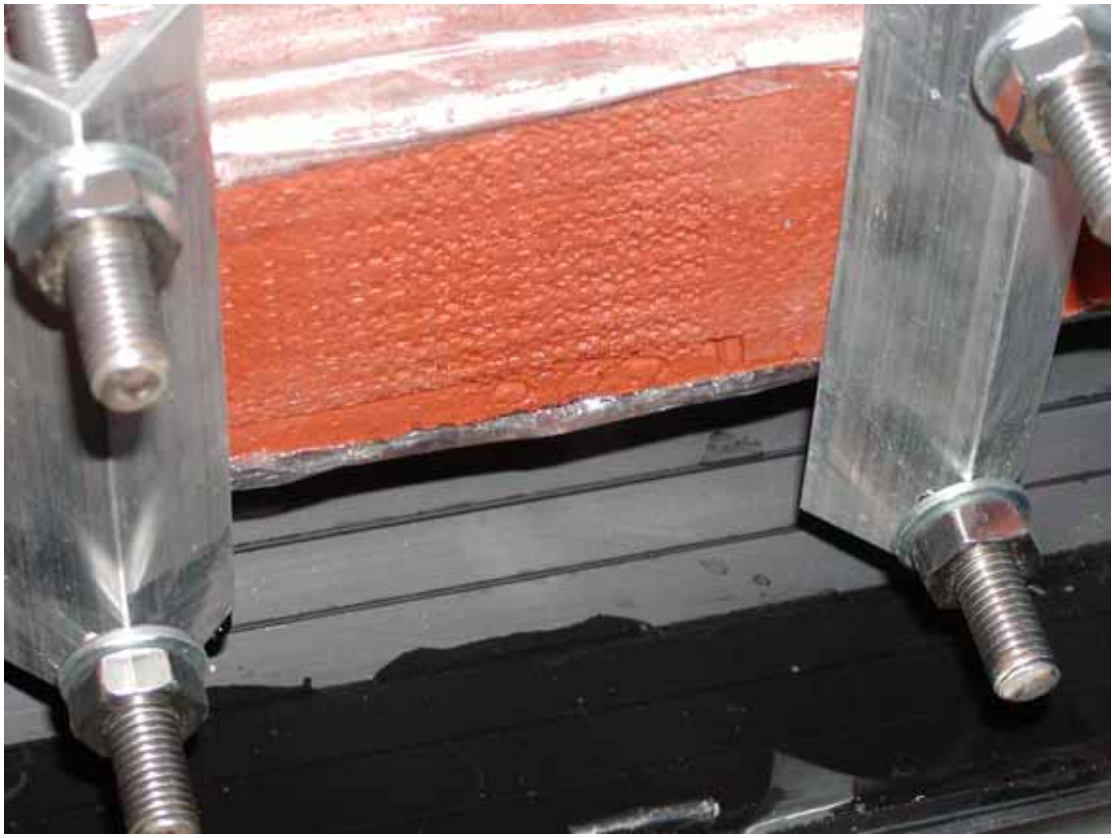

Photo 5.7 Engineering brick Class B during testing

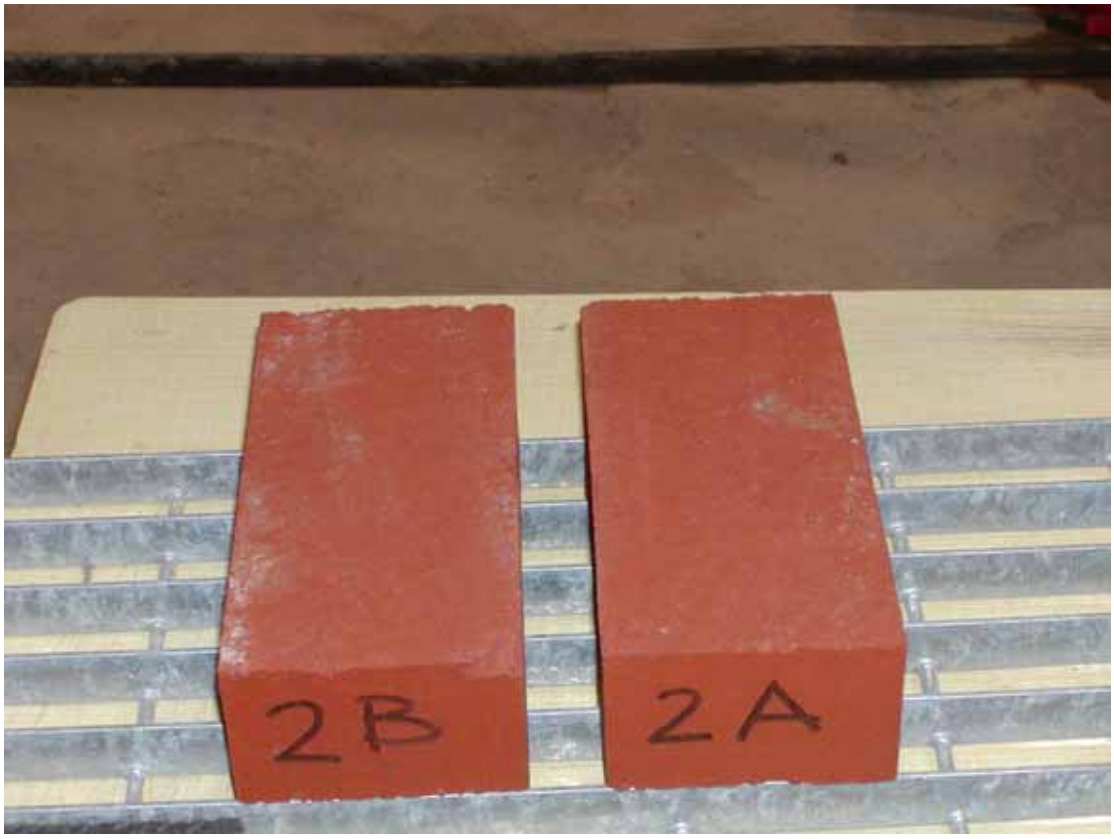

Photo 5.8 Engineering brick Class B after wet test

Photo 5.9 Sand facing brick during testing

Photo 5.10 Wire cut facing brick during testing

Photo 5.11 Hand-made brick during testing

Photo 5.12 Concrete block 3.5N during testing

Photo 5.13 Concrete block 7N during testing

Photo 5.14 Aircrete Block before wet test

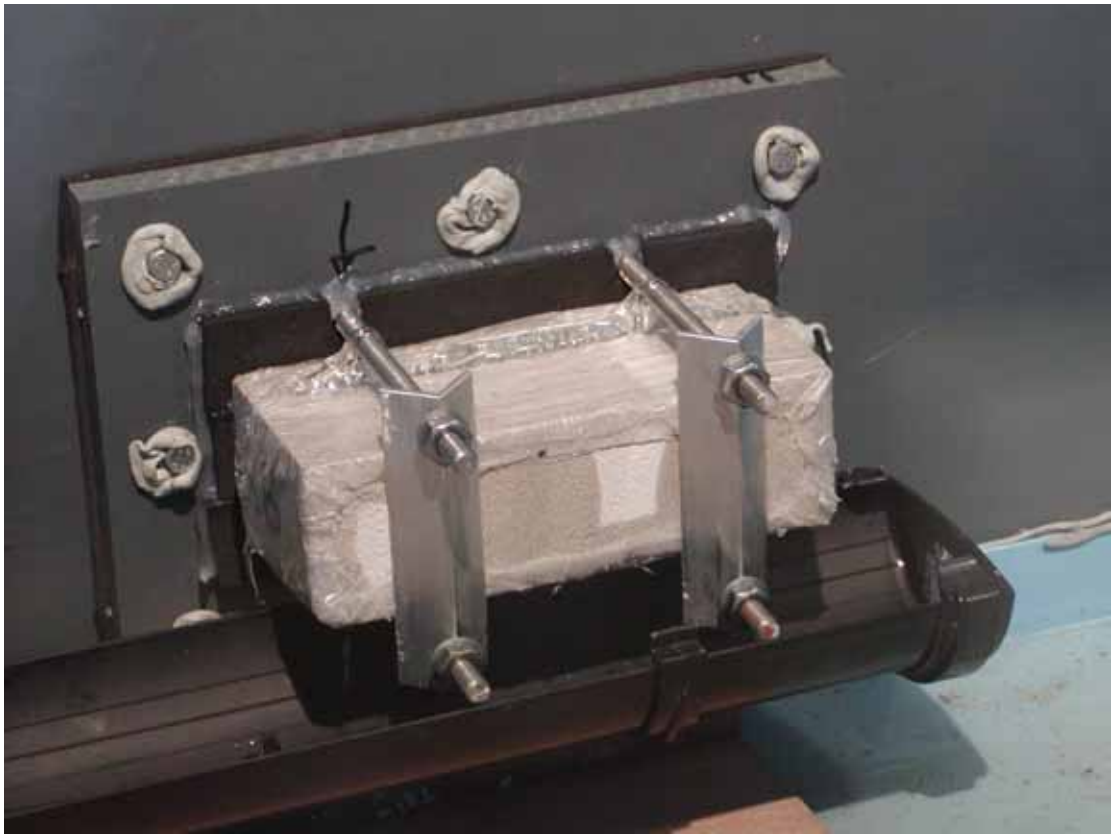

Photo 5.15 Aircrete during testing

Photo 5.16 Timber board 11mm before testing

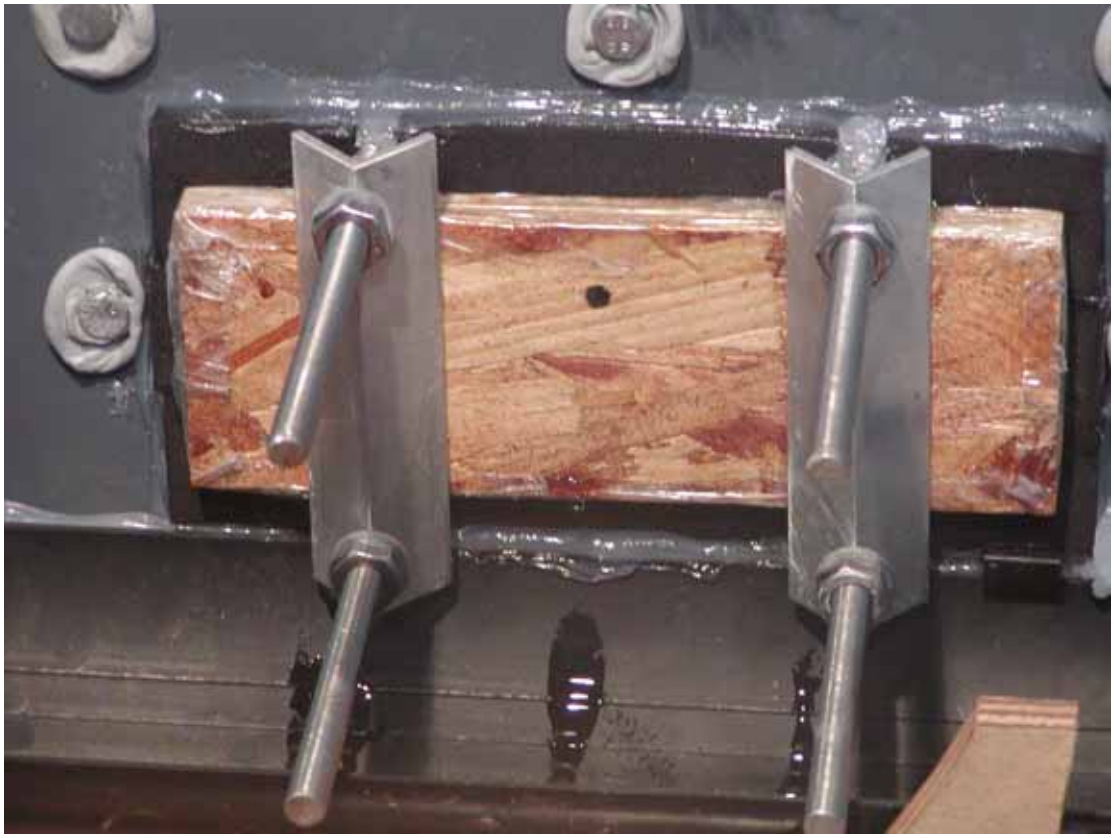

Photo 5.17 Timber board 18mm during testing

Photo 5.18 Plaster board - collapse

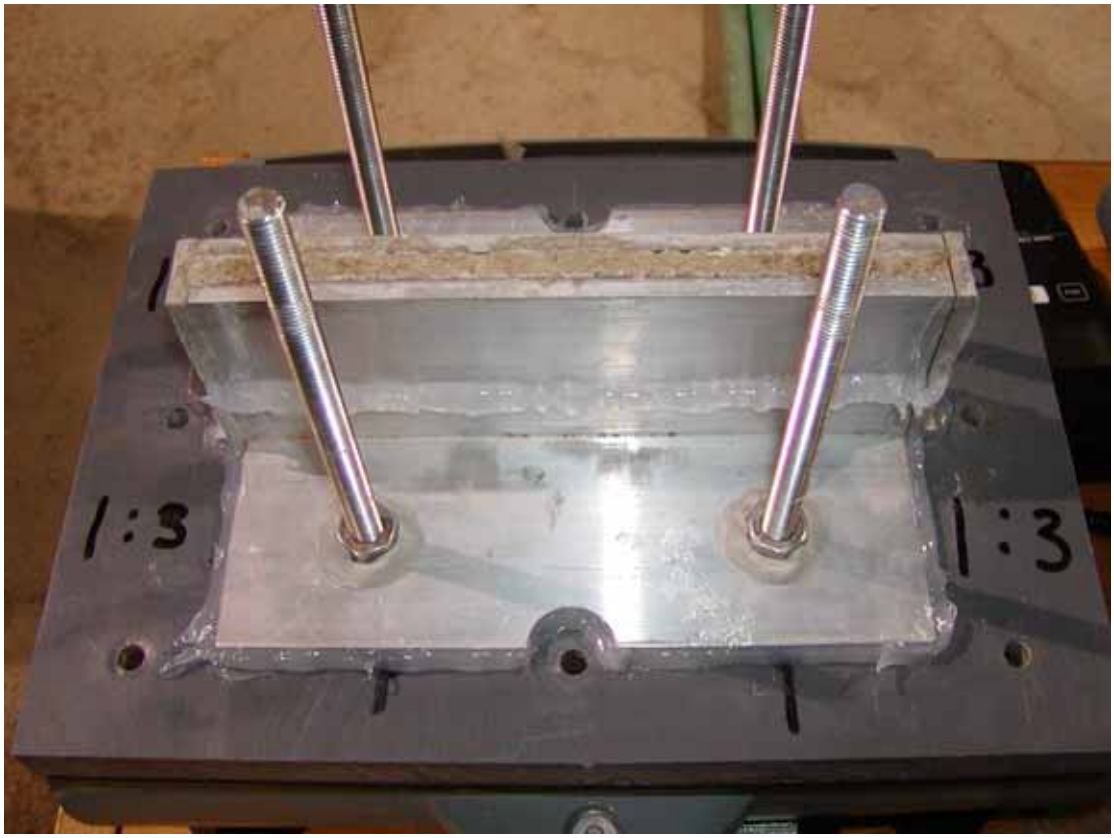

Photo 5.19 Mortar sample in the mould

Photo 5.20 Mortar sample being tested

Photo 7.1 Construction of walls ME1 and ME2

Photo 7.2 External face of walls ME1 and ME2

Photo 7.3 Wall ME1 during wet test

Photo 7.4 Wall ME2

Photo 7.5 View into cavity of wall ME2

Photo 7.6 Construction of Wall ME3

Photo 7.7 Wall ME4 subjected to 1m water

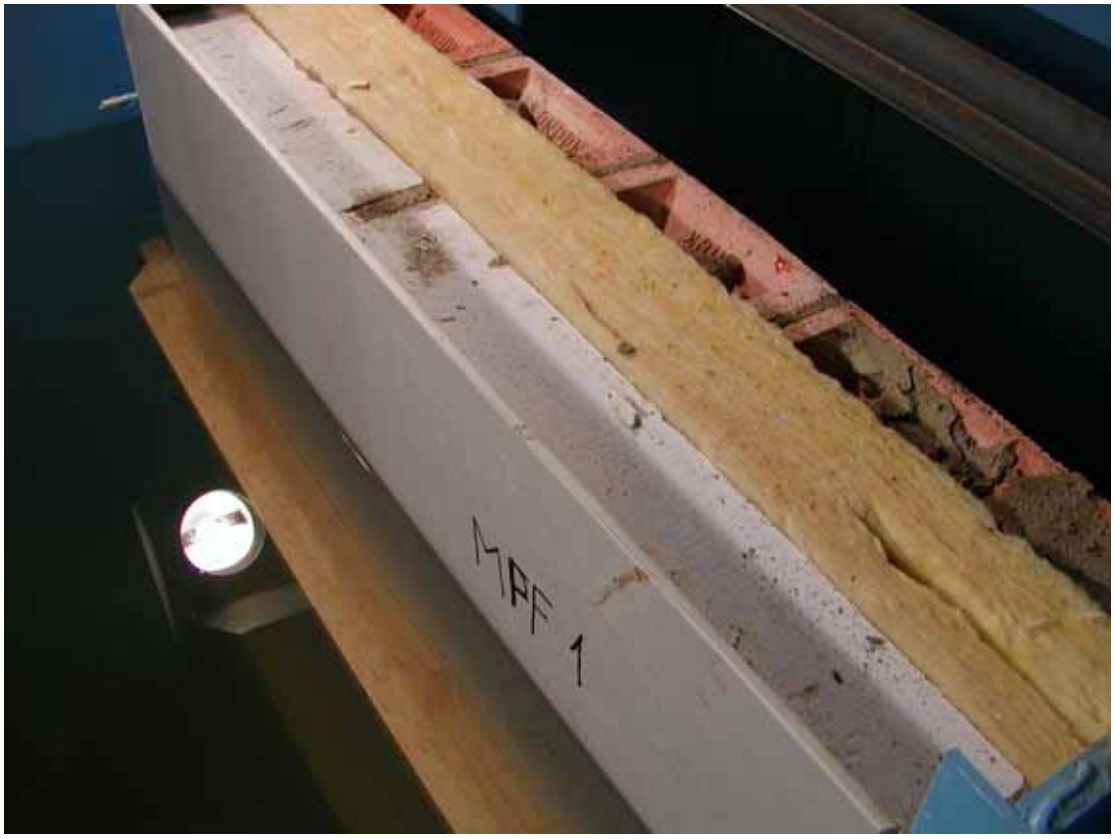

Photo 7.8 Wall MFF1 exposed to water on both faces

Photo 7.9 Wall MFF2 showing loose insulation in cavity after construction

Photo 7.10 Wall MFF2 showing loose insulation in cavity after wet phase of testing

Photo 7.11 Wall MPF1 being built

Photo 7.12 Wall MPF1

Photo 7.13 Wall TF1 being built - view from outside

Photo 7.14 Wall TF1 being built - view from inside

Photo 7.15 Wall TF1 being built showing OSB - view from inside

Photo 7.16 Wall TF1 being built showing insulation

Photo 7.17 Walls TF2 and TF3; applying external render

Photo 7.18 Wall ME5; first coat of render

Photo 7.19 Wall MFF3 Applying lime plaster

Photo 7.20 Wall MFF3 Collapse of lime plaster

Photo 7.21 Wall MFF3 Cracking of lime plaster at surface water level

Photo 7.22 Mould growth on timber sheathing

Photo 9.1 Casting floor slabs

Photo 9.2 Test Rig B - test tank with floor slab

Photo 9.3 Floor Arrangement 1

Photo 9.4 Arrangement 2; Slabafter wet phase

Photo 9.5 Floor Arrangement 3 under test

Photo 9.6 Floor Arrangement 5; taped membrane

Photo 9.7 Floor Arrangement 6; leakage through wall- floor junction

Photo 9.8 Arrangement 7; Wall-floor joint

Photo 9.9 Arrangement 8; Wallfloor corner joint

Photo 10.1 Wall S4.1 - Thin joint - first course

Photo 10.2 Wall S4.1 - Applying mortar on thin joint wall

Photo 10.3 Wall S4.1 - Construction of thin joint wall

Photo 10.4 Wall S4.1 - Thin joint wall; during wet phase of test

Photo 10.5 Wall S4.1 - Internal face at end of dry phase

Photo 10.6 Wall S4.2 - Wall with external insulation; insulation placed below DPC level

Photo 10.7 Wall S4.2 - Wall with external insulation; applying the insulation

Photo 10.8 Wall S4.2 - Wall with external insulation; external face

Photo 10.9 Wall S4.2 - Wall with external insulation; internal face

Photo 10.10 Wall S4.2 - Wall with external insulation; leakage

Photo 10.11 Wall S4.3 - Block wall with external and internal render

Photo 10.12 Wall S4.3 - Introducing insulation in the cavity

Photo 10.13 Wall S4.4 - Constructing the timber frame

Photo 10.14 Wall S4.4 - Fermacell board replacing sheathing

Photo 10.15 Wall S4.4 - Warped Fermacell board on internal face