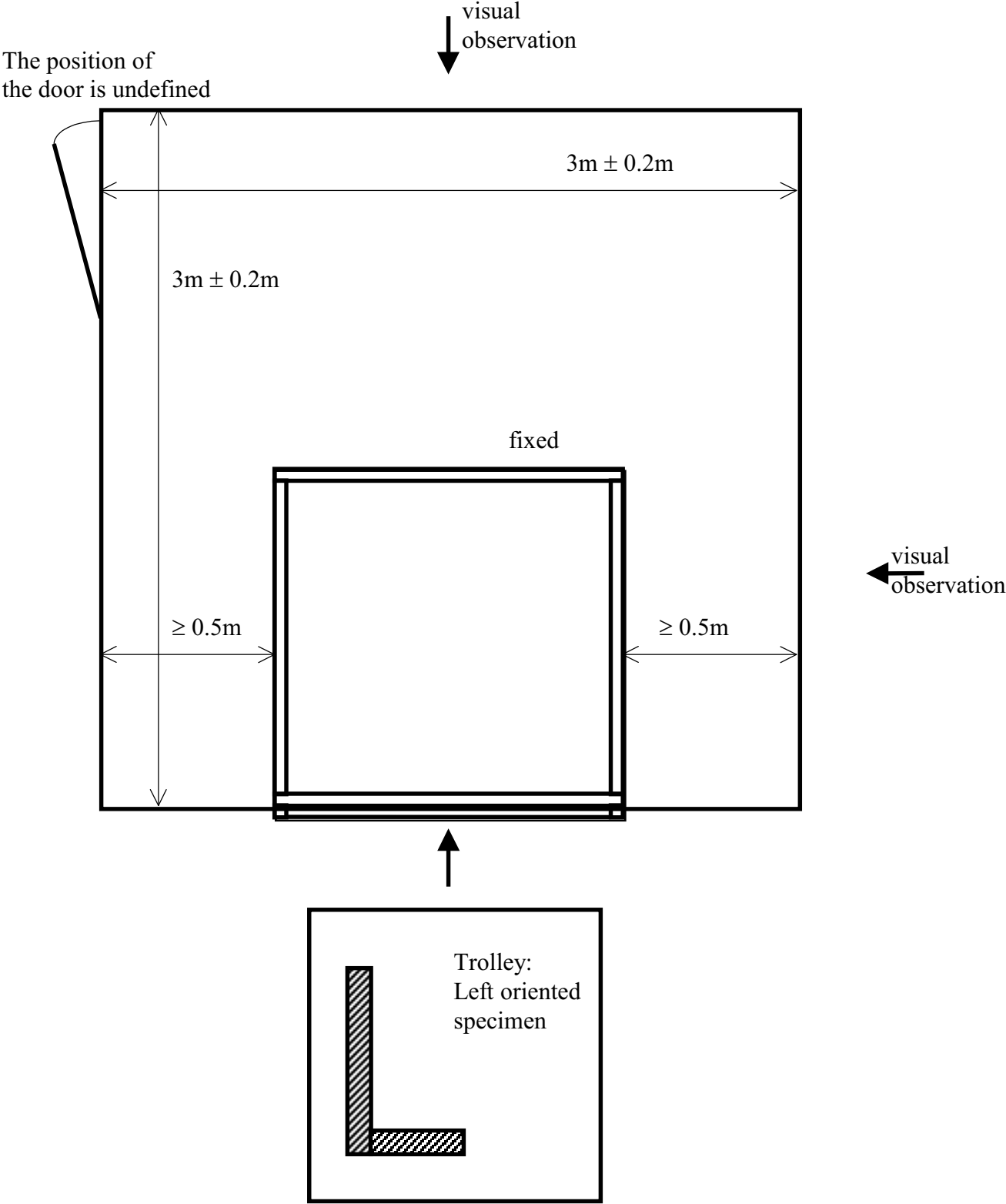


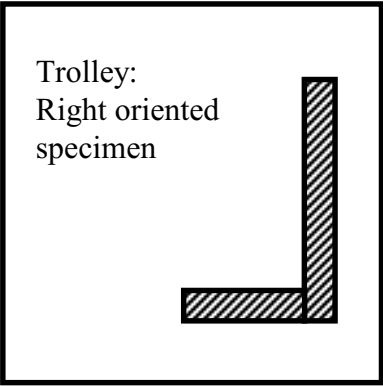
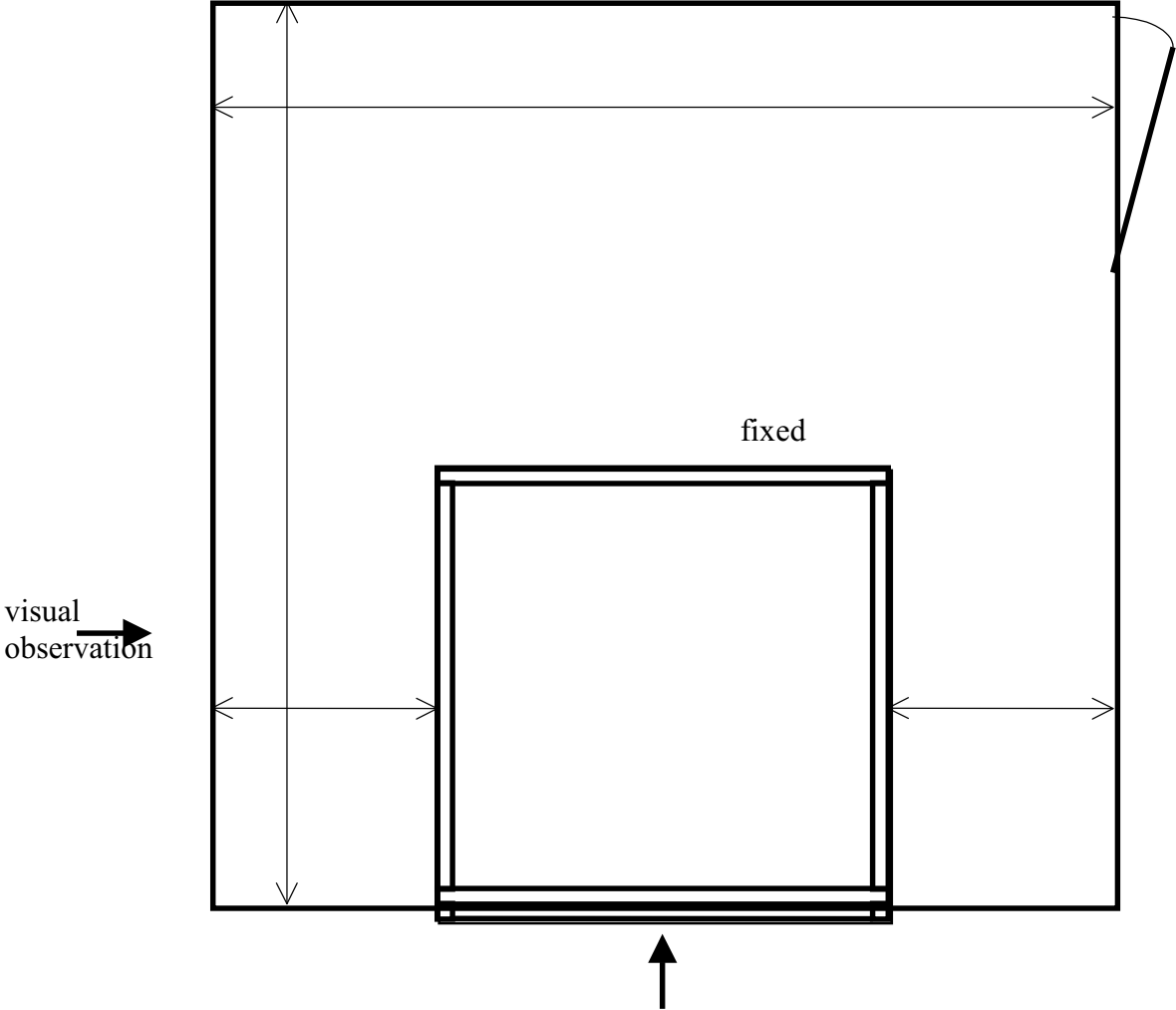
TOP VIEW (Left Oriented Specimen Holder)



Please specify whether you want a left or right oriented specimen.

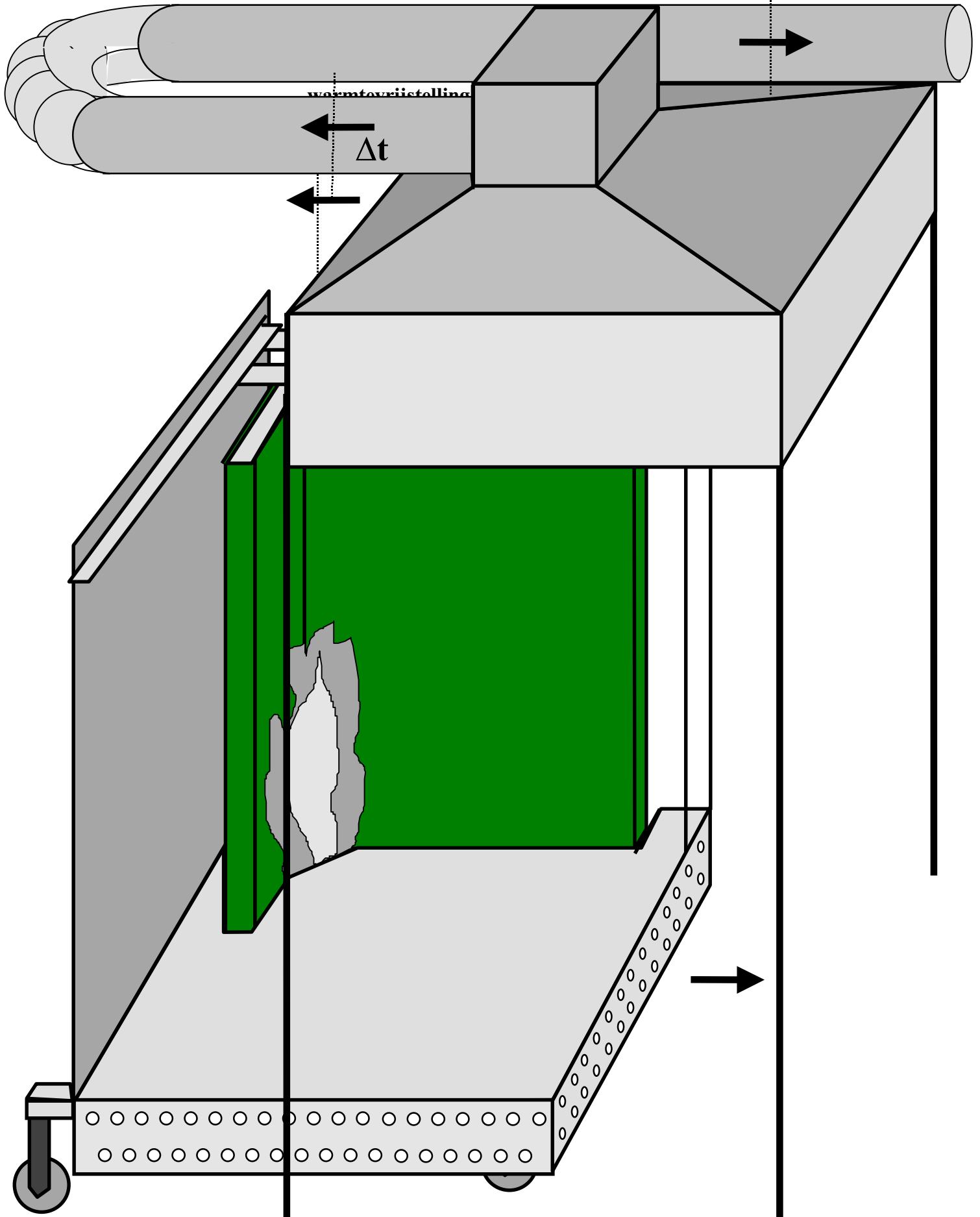
TOP VIEW (Right Oriented Specimen Holder)

visual observation
↓



Impression SBI-apparatus

- measurements
- flow rate, Temp.
- gas analysis
- sample gas
- smoke



weichtemperatur

Δt

In addition to the apparatus and various options offered in our quotation you will need to provide for the following:

- find an appropriate place to install the equipment (a free height of at least 4.5m is required);
- ensure that the foundations of the room are adequate to provide a flat floor;
- construct a room (material types not specified) with dimensions (3 ± 0.2) m width by (3 ± 0.2) m deep by (2.4 ± 0.1) m free height (see attached drawing);
- we recommend a room of about 9m²;
- the room should contain two observation windows and one door (positions not specified);
- specify whether you want a left or right handed version of the SBI (see attached drawing);
- the distance between the long specimen wing and the far side wall, with the observation window, in the test room must be 2.1 ± 0.1 m;
- install the SBI into the room;
- connect the measuring tube to your extraction system;
- the extraction system should be capable of extracting 1m³/s;
- have compressed air available (approximately 10 l/m);
- have 230V 50Hz AC or 120V 60Hz available;
- have commercial grade propane at a pressure of at least 2.5 bar (a);
- provide connections for the propane to our gas control unit;
- have calibration and reference gases N₂ and CO/CO₂ available. We use:
 - CO/CO₂: CO (0.4 Vol%) + CO₂ (3.5Vol%) + N₂
p=150 bar, 7500 litres
 - N₂: Grade 5.0 (DIN 10);
- the inlet pressure for N₂ is about 5 to 10 bar(a) and for CO/CO₂ 1 to 2 bar(a). The connections to the gas analysis rack are SL 4/6 PTFE;
- have water or other appropriate extinguishing agents present;
- obtain some calibration products and instruments (heptane,...) (still under discussion);
- obtain the necessary sample holders and calcium silicate backing boards (still under discussion).

We would ask you to install the fixed frame, the hood, the collector and the measuring tube. Our technicians will install the thermocouples, probes, and all small devices.

A two day commissioning with two people is required (1 engineer and 1 technician). Travelling and lodging expenses are to your account.