

### **3.4. SANS 10177 – PART 11, VERTICAL (CLASSIFICATION)**

The fire propagation properties associated with the use of this insulation system in a side cladding application were investigated in terms of the relevant section of **SANS 10177-11**.

A vertical specimen frame was fitted to the front end of the test installation against the first horizontal hanging frame. The insulation material was installed onto the inside between the horizontal purlins. The fire source was placed 600 mm either side of the center of the vertical frame. A typical installation is shown schematically in Figure 3.4.1 and Figure 3.4.2.

The fire source consisted of two packs of 7.5 kg consisting of 38 mm x 38 mm pine sticks, each 300 mm in length, four per layer and ten layers high.

No temperatures were recorded during this evaluation. The criterion that will be applied when assessing whether the material is suitable for vertical applications is that flame spread onto the roof portion will not be allowed.

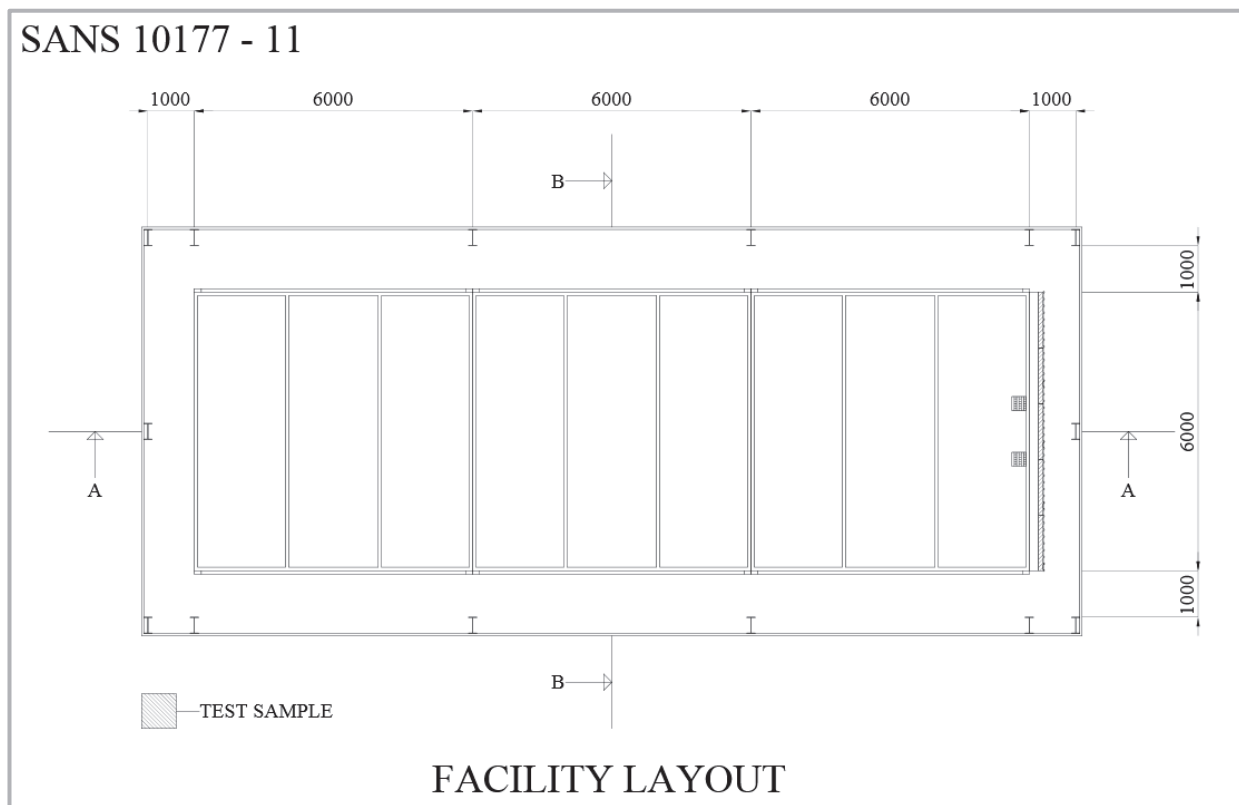


Figure 3.4.1: **SANS 10177-11** facility plan view for vertical test

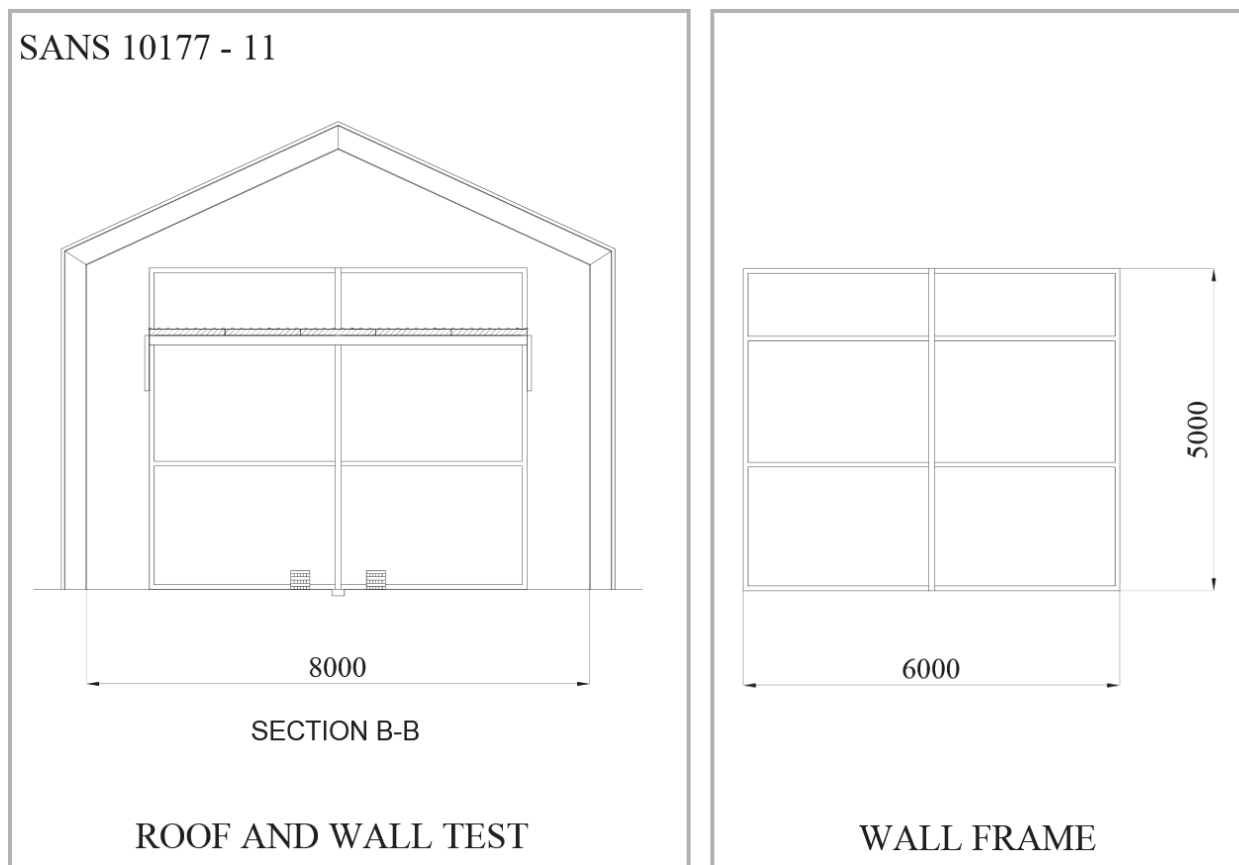


Figure 3.4.2: Typical side-cladding installation in **SANS 10177-11** facility