



LAMATHERM

CW

CW-RS Fire seals within rainscreens

0314.01 Introduction

The cavity between curtain walls and fire compartment walls/floors needs to be sealed with a fire stop to the same fire rating as the compartment wall or floor. A particular problem is posed by the use of 'rainscreens' where the fire stop cannot fill the full width of the cavity as the rainscreen requires a typical 25mm air space to carry out its function.

LAMATHERM have developed a solution that can be used to overcome this problem.

Standard CW 'Fire stop solutions for curtain walling', fire stops are modified at our factory to include an aluminium foil face to the outside edge, to which is bonded a continuous intumescent strip. In the event of exposure to fire, when subjected to heat, the intumescent strip will expand and fill the air gap left within the void.

The fire stop will seal the cavity at the rainscreen and it will restrict the movement of smoke and hot gases as much as is practical. The System has been tested to BS476 part 20, Test Ref: 157714.

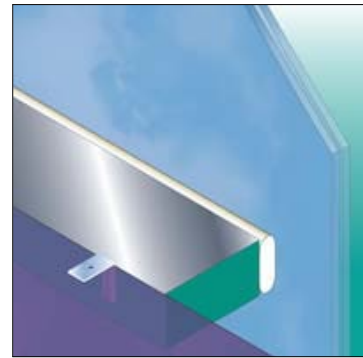


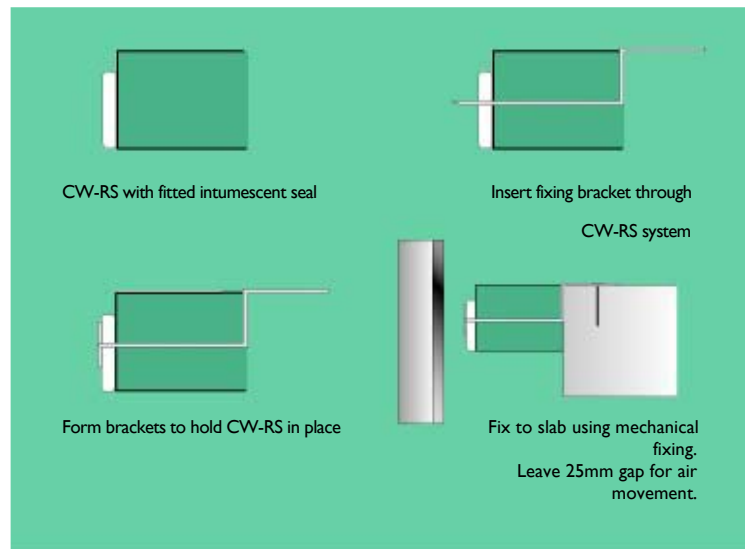
Figure 1. CW-RS behind a glaze panel

0314.02 Installation

The CW-RS material must be installed with the un-faced mineral fibre in contact with the sides of the structural element. The CW-RS seals are inserted into the cavity with a 25mm gap the external edge of the cavity.

The cut strips are located with dedicated 'split' fixing brackets which are impaled into the material at mid-thickness. These brackets are impaled into the CW-RS material at nominal 400mm fixing centres. The fixing brackets are extended through the CW-RS material and the legs are pushed back to permanently mechanically locate the intumescent strip, as is shown in figure 2.

Figure 2. Fixing CW within a rainscreen environment



Ensure that all joints are tightly abutted. The fixing brackets must be mechanically fixed to the inner structure with non-combustible fixings e.g. shot-fire nails, metal anchors or screws etc. No plastic plugs.

Due to the bespoke nature of these solutions, please contact our technical sales team for advice on a project basis.

fire seals within rainscreens