



WALLTITE®

The airtight insulation solution

Snoozebox

Best Practice Case Study

 **BASF**

We create chemistry

Snoozebox

Best Practice Case Study



Project data

Project: Snoozebox temporary hotel accommodation

Client: Elements Europe for Snoozebox

Spray Foam Contractor: Modern Plan Insulations

Scope of Project: Provide effective thermal insulation to the steel shell of the units without causing condensation

Year Completed: 2012

Products Used: WALLTITE CL 100 spray foam insulation

Project description

Snoozebox is a new concept in transportable, temporary hotel accommodation. Self-contained units combine in a variety of configurations to give 40 to 400 rooms delivered to site requiring no mains services and ready to welcome guests within 48 hours of arriving at almost any event or location.

This highly flexible resource was particularly in demand during the summer of 2012 with the units being used to accommodate guests attending Diamond Jubilee events, the Isle of Man TT, Silverstone and Goodwood.

Challenges

The units start life as 45ft shipping containers. Doors and windows are simply cut through the walls of the steel containers and the interior space is then divided into compact ensuite rooms.

The challenge is to provide comfortable living space, requiring good levels of both thermal and acoustic insulation to the steel structure of the containers.

Contractor *Elements Europe* was looking for an initial insulating layer to be applied directly to the entire surface area of the steel structure. An immediate concern was to eliminate the possibility of condensation forming between the insulation and the wall.

Solution

50mm of WALLTITE spray foam insulation is applied to the entire interior surface immediately after the door and window openings have been cut into the steel walls.

The WALLTITE serves as a condensation inhibitor and also provides initial thermal insulation. Once the entire surface has been treated with WALLTITE, the interior partition walls

are installed and a further layer of insulation is applied prior to plasterboarding. The result is a U-value for the walls of 0.2W/m²K.

WALLTITE is the perfect solution for this one-off application. Because it is spray applied, the insulation will mould itself to any contour or uneven surface, and because it bonds directly to the surface the problem of interstitial condensation is eliminated completely.

So far 60 containers have been treated in this way by WALLTITE contractor *Modern Plan Insulations*. Earlier construction used standard slab stock insulation, but concern over the possibility of condensation led to the spray foam product being trialled, and it is now part of the standard build process for the Snoozebox containers.

Client quote

It is the speed and versatility of the WALLTITE product that has most impressed the client, with each container being fully coated within a day. Project Manager *James Foster* at Elements Europe is delighted with the product. "It's been marvellous. It's a very good product and a very quick and easy solution to work with."

