

# WEATHER RESISTANCE OF ROOFING, GLAZING AND CLADDING SYSTEMS



Manufacturers of roof materials, roofing & cladding systems, and glazing, need to understand how their products will perform under normal and extreme weather conditions. At BRE, we have a range of test facilities that enable manufacturers to assess the performance of their products and assist product development.

With our considerable expertise and range of testing facilities we can help you determine the following characteristics for roof materials & components, and whole roofing & cladding systems.

#### **Weathertightness**

- resistance to water penetration under driving rain and deluge conditions.

#### **High-speed testing**

- resistance to high-speed wind, looking at the performance of roofing and cladding products at design wind speeds of up to 60 m/s.

#### **Wind uplift**

- resistance to uplift of fixings of the tile clips, slate hooks and new prototype fixing systems. Comparative performance testing of traditional fixing systems and non-standard clipping arrangements.

#### **Durability of roof materials**

- resistance to deterioration and degradation of roof materials such as tiles and slates under acid immersion conditions, wetting and drying conditions, and water absorption.

#### **Air permeability**

- determination of the air permeability of small-format, loose-laid roofing elements.

We can also test the performance of general roof fittings such as gutters, roof ventilators, aerials, satellite receiver dishes and patent glazing under wind and rain action.

BRE also provides design advice on:

- wind environment
- wind loading
- pollution dispersion

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