

Composite Roof Light Load Testing

Project	OFS measurement of dynamic loading and long-term residual strain build-up in GRP roof light to health and safety executive requirements
Client	Hambeside Danelaw
Date	1999
Location	Hamble, England
Sensors	SmartPatch
Attachment	Surface mount
Interrogator	OFSSSI
Images	  <p>SmartPatch Sensors bonded to underside of roof light</p> <p>Sandbag drops simulate impact loads on roof light</p>
Results	<p>SmartPatch sensors were attached to the underside of the structure. Data were collected as 45kg sandbag drops were made from a height of 1.2m (the health and safety executive requirement).</p> <p>Dynamic data showed the maximum strain applied to the structure, and long term measurements showed that residual strain was built-up in the component as a result of successive bag drops.</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Dynamic load measurements, single drop</p> </div> <div style="text-align: center;">  <p>Strain build-up from successive drops</p> </div> </div>
Further information	Not available