



# REST AND BE THANKFUL - A83 RABT, UNITED KINGDOM

Debris Flow & Shallow Landslide Protection

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## Debris Flow & Shallow Landslide Protection

<b>Project</b>	Rest and Be Thankful - A83 RabT
<b>Location</b>	Arrochar
<b>Country</b>	United Kingdom
<b>Year of installation</b>	2012
<b>Customer</b>	Transport Scotland
<b>Engineering Contractor</b>	Geobrugg / BAM Ritchies BAM Ritchies / BAM Nuttall Ltd.

**Initial situation** The A83 at Rest and Be Thankful (RabT) in Argyll and Bute, Scotland, has been subject to a number of landslide or mudslide events that have caused major disruption to the traffic that regularly uses this key trunk road. The road was closed for several weeks in October 2007 when around 400 tonnes of material were deposited on the road when one such event occurred. Then in September 2009 the road was again closed for 48 hours after 1070 tonnes of material was deposited after a more significant event.

**Description** BAM Ritchies, working closely with Geobrugg and Scotland Transerv, developed a solution of an eighty meters long, 4 m high shallow landslide barrier and 15.0 m wide VX 'in-channel' barrier nearby. These were installed in 2010. In 2012 a second phase of works saw the installation of a further 83.0 m of shallow landslide barrier at 3.5 m high. Another channel saw the installation of both 25.0 m by 5.0 m UX debris flow barrier above 9.0 m by 2.0 m VX debris flow barrier.

### **Incident of Saturday 5th December, 2015**

During storm Desmond that affected most parts of the UK a substantial landslide occurred at the A83 *Rest and be Thankful*. This is an area that has suffered numerous large landslide over the years and as such has numerous landslide and debris flow barriers have been installed. During the daytime on the 5th an event estimated at 150m<sup>3</sup> struck a Geobrugg SL-150 barrier, the barrier successfully held the landslide and there was no need to close the road. A further 100m<sup>3</sup> event struck the barrier overnight and over the next few days residual small movement led to a total of ~300 m<sup>3</sup> being held by the barrier. The barrier held all of this material without failure or damage, brake rings were activated as designed and the posts and bases suffered no damage. Thanks to the Geobrugg SL-150 barrier the A83, a major transport route in this area remained open.

<b>Protected object</b>	Road
<b>Corrosion protection</b>	Galvanized, GEOBRUGG SUPERCOATING
<b>System height</b>	2.0 m, 3.5 m, 4.0 m, 5.0 m
<b>System length</b>	9 m - 83 m
<b>Number of barriers</b>	5
<b>Retention capacity</b>	- m <sup>3</sup>

For questions please contact our Geobrugg specialist at your side

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