

4 April 2020

**Updated Standard for frangible/deformable cross country fences – Version 2**

Dear Eventing Community,

After six months of extensive work initiated by the Eventing Frangible Device Working Group (Dave Vos, Geoff Sinclair, Mark Phillips and Jonathan Clissold), Transport Research Laboratory (TRL) has reviewed and approved the release of the Updated Standard V2 for frangible/deformable cross country fences.

The work included filming fences being jumped at many events and reviewing them in slow motion as well as broad testing performed by British Eventing and MIM at Chalmers University (SWE), as well as TRL.

The Updated Standard V2 has been endorsed by the Eventing Committee as well as the Risk Management Steering Group.

The Updated Frangible Standard V2 can now be implemented progressively as from the date of this publication.

As of **1<sup>st</sup> January 2021**, all newly manufactured devices must comply with the Updated Standard V2. Devices manufactured according to the previous standard specifications can be used until 31 December 2021.

MIM and British Eventing testing on current frangible devices has been done and now this new standard is published they will be able to advise if their products need any updates or adjustments.

The Updated Standard V2 for frangible/deformable cross country fences includes the following changes:

- Introduction of a 40 kg kettlebell pendulum test to better represent a 'hanging leg' impact scenario to reproduce severe impact on fence with some leading to rotational falls which frangible fences should help mitigate.
- The addition of requirements for front and back rails of activation energies, i.e. pendulum impact energies at and above which the fence shall activate. The energies proposed have been developed by Dave Vos, based on the conservation of (after contact) energy and angular momentum with input parameters, such as jump speeds, heights, flight duration, etc., with the input of the Frangible Device Working Group members expertise and corroborating measurements from event video data.

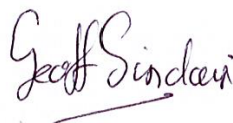
The Updated Standard V2 is more reliable and the testing is easier to set up in order to encourage new ideas and will hopefully accelerate new developments for frangible fence devices. It is important to note that realistic infield assessment to ensure fences don't break too easily has been strongly debated and agreed with the Frangible Working Group understanding the importance of balancing safety with true cross country.

Please feel free to contact the Eventing Department for any questions or comments. We remain available to answer any testing questions for new devices.

With kind regards,



David O'Connor, Chairman  
Eventing Committee



Geoff Sinclair, Chairman  
Risk Management Steering Group