

Intastop Sheet Impact Testing



Certificate No. 3380/02

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IMPACT TESTING OF 2mm THICK, PVC, IMPACT SHEET

Date : 19th November 2007

Location : Test track at Rotamag Track Equipment, T/A Bryar Group Ltd

This report has been prepared to describe the impact testing of Intastop Ltd's Class 0 Fire Rated 2mm Sheet and an equivalent sheet from one of Intastop's competitors. From evidence provided by Intastop a level of 250kg at 5km/h was believed to be a desired level to be achieved to match competitor standards.

Methodology

In the absence of any national standard, the test programme was devised between Intastop and Rotamag to represent a typical impact from, for example, a hospital or supermarket trolley. A weight of 330kg was placed and secured on a rail borne moving vehicle. In order to represent the edge of a hospital trolley/bed. A curved steel section was attached onto the front of the vehicle and this section would be what came into contact with the impact sheet.

The vehicle was placed on a 1in30 sloped track and at the end of the track, the impact sheet, one Intastop, one competitor, were placed on a timber substrate. This was to represent a p.v.c covered door situation

Results

The test was carried out over three runs and the rail vehicle was released from progressively higher positions in order to produce increasing impact velocities. The same test pieces were used for all three runs:

Run 1	330kg at 2.5km/h
Run 2	330kg at 5.0km/h
Run 3	330kg at 7.0km/h

After run 3 slight indentation occurred on both samples however no breaking or cracking was evident on the sheets or to the timber substrate. It was decided that as run 3 represented an unlikely scenario in terms of weight versus velocity, and that the test pieces were intact i.e. more than suitable for the application, no further runs were necessary.

Testing carried out by:- M.Kaye (Design Manager)
Date:- 21.11.07

