

**Test Result for:- RPS- IMPACT FORCE REDUCTION CUSHION (Post Cushion)**

23.06.2011

|                    | 50NB Galv Steel Post | 75mm Wall post cushion            |  |                       |                             |                                 |
|--------------------|----------------------|-----------------------------------|--|-----------------------|-----------------------------|---------------------------------|
| Test Speed (m/sec) | Test Speed (km/hr)   | Impact force (kN) Steel post only | Impact force (k/n) Steel post with Cushion | Difference (kN) force | Difference as "Kg of Force" | Difference in Impact Force as % |
| 4.1                | 14.76                | 12.4                              | 2.4  | 10                    | 1,020                       | 81%                             |
| 5.1                | 18.36                | 12                                | 6.5  | 5.5                   | 561                         | 46%                             |
| 6.6                | 23.76                | 14.5                              | 2.4  | 12.1                  | 1,234                       | 83%                             |

Note:- at 6.6 m/sec the cushion had a much more noticeable flattening on impact, although the post was still bent at this speed  
There was a much longer lag at the top of the graph curve of the impact loading due to the cushion absorption/ flattening

**Chart Title**

