

## **Railway standard GM/RT2456 now available from Toughglass Ltd**

Following recent work with Irish Rail, Toughglass Ltd is now proud to announce that it can supply carriage body side windows and emergency egress up to GM/RT2456 standard. One of the key requirements is an impact test whereby a laminated or toughened glass bodyside window shall resist the penetration into the vehicle of a solid steel ball weighing 0.25 kg travelling at a speed of 62 mph or 31 mph respectively. The following pictures demonstrate the non-penetration of the steel ball into a double-glazed unit made of 8mm toughened glass (external) [photo 1] and 6 mm toughened glass (internal) [photo 2]. The external 8mm panel broke under impact but the internal 6 mm panel remained intact, therefore preventing the penetration of the projectile and the glass shards into the vehicle and injuring its occupants. These units will be installed over the summer on the Irish Rail fleet.



[Photo 1] The steel ball impact breaks down the external panel of the unit....



... while the internal panel remains intact, protecting the vehicle occupants [photo 2].