

SORTIMO in-vehicle equipment proves superior in crash tests

What happens to unsecured loads?

There is a crash almost every six minutes on German roads. And the number of crashes in which the fast and highly powered commercial vehicles are involved has increased dramatically in the last years. These days, just about every vehicle is equipped with a reinforced passenger compartment, ABS, airbags, safety belts and head rests.

The devastating effects of crashes with unsecured loads are demonstrated again and again in crash tests carried out by SORTIMO in cooperation with Dekra, TÜV and ADAC. Even the smallest components turn into lethal projectiles. During a crash, everything happens so quickly that the driver can often no longer react. Within fractions of a second, the weight of the load increases twentyfold (20g) at 30 km/h, and at 50 km/h, the weight of the load even increases fortyfold (40g).

History of SORTIMO crash tests

Crash tests also have a positive side to them. With a professional in-vehicle equipment system, materials, tools and machines can be stowed so safely that they remain securely in place even with the most abrupt driving manoeuvres or in the event of a crash. In 1995, SORTIMO founded the "**Safety and Vehicle Transport Forum**". An increased level of safety awareness prompted SORTIMO to carry out its crash tests together with TÜV, Dekra, ADAC and experts from the field of accident research with the aim of constantly testing and improving the safety of transporting loads and hazardous goods. The results of these crash tests are channelled into all SORTIMO product lines.

Crash tests, however, only make sense if the in-vehicle equipment and sand sack load simulate a real-life loading and stress factor. In **DIN standard 75410 Part 2**, legislation stipulates a **mere 36 kg**. SORTIMO tested estate cars whose loading area was loaded with a **total weight of 100 kg** in a head-on collision at 50 km/h. At this collision speed, the unsecured load took off in the direction of the driver with up to 40 times its own weight. In other words, the original 100 kg load converted upon collision into almost 4 tons (40g).

Offset collision tests and crash sled tests with 100% overlap prove that SORTIMO cabinets and shelves are a guarantee for the safety of driver and passengers. At collision speeds of between 33 and 45 km/h and a realistic load of between 600 and 1000 kg, kinetic energy of between 19 and 22g has to be converted and degraded.

Result of SORTIMO crash tests

Every crash test endorses the quality and stability of the SORTIMO system. In spite of high stress and load factors, the in-vehicle equipment remained securely in place and was at no time a risk for any passengers. SORTIMO Mobil and the SORTIMO range of accessories offer safe and state-of-the-art transport solutions for every branch of trade and every type of vehicle.

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