



## WorldSID Has “Good” Biofidelity

Effective vehicle occupant protection design is very dependent upon the ability of vehicle engineers to use crash dummies to predict possible human injuries. The WorldSID’s biofidelity, a measure of how well the dummy simulates the forces and motions of a human, is the best of any side impact crash dummy to date and far exceeds that of its closest rival.

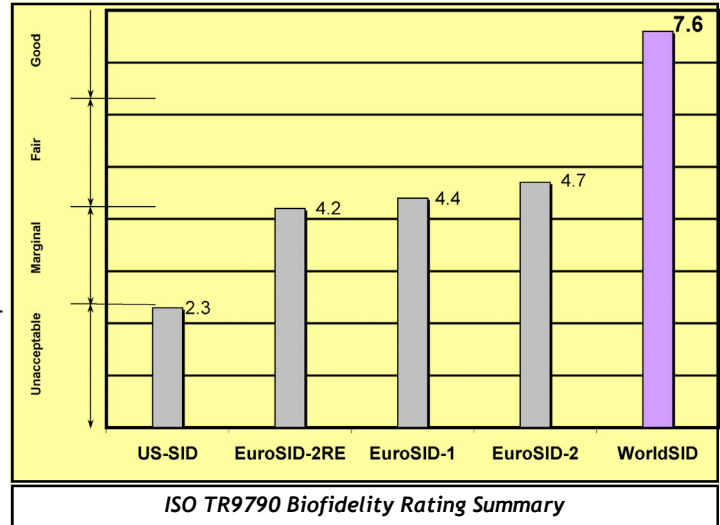
ISO/TR 9790 specifies procedures for evaluating side impact dummy biofidelity performance using a series of 33 laboratory tests.

Based on the ISO/TR9790 rating scale, the WorldSID rating is 7.6 (“Good” on a 10 point rating scale). In comparison, other currently used side impact dum-

mies, US-SID, EuroSID-2RE, EuroSID-1, and EuroSID-2, have ratings of 2.3, 4.2, 4.4, and 4.7 respectively.

The ability of vehicle safety engineers to utilize the enhanced biofidelity of the WorldSID should lead to safer vehicle designs, enhanced side impact protection, and reduce human injuries in side impacts.

In addition, as a major benefit of harmonization, introduction of a single universal dummy into regulations and consumer testing



in all regions would enable manufacturers to focus and coordinate resources to improve worldwide occupant safety rather than engineering different safety designs for different dummies.