

WorldSID 50th Injury Risk Curves

Informal Group Meeting on Pole Side Impact GTR
Paris
20th of November

Current Status

- ISO/WG6 agreed on a set of injury risk curves to be recommended for the WorldSID 50th in november 2011, updated in september 2012
 - reported to GRSP PSI group since early 2011
- The limits set in the draft text for PSI regulation are not always based to the ISO/WG6 recommandations
- This presentation aims at checking that some differences between the ISO recommandations and the draft text are not due to miscommunication

IRC recommended by ISO/WG6

- ISO/WG6 agreed on a set of injury risk curves to be recommended for the WorldSID 50th

Injury risk	WorldSID measurement
Shoulder AIS2+	Maximum shoulder Y force
Thoracic skeletal AIS3+	Maximum thoracic rib deflection
Abdomen soft tissue AIS2+	Maximum abdomen rib deflection
Pelvis AIS2+ and AIS3+	Maximum pubic force

Criteria in draft text of PSI regulation

- « 4. REQUIREMENTS »
 - **shoulder** performance criteria
 - under discussion in the group.
 - **ISO only has AIS2+ IRC to recommend**
 - **thorax** performance criteria
 - *maximum thoracic rib deflection*
 - updated according to the latest injury risk curve
 - *peak thorax viscous criterion*
 - under discussion in the group
 - **ISO do not have any IRC to recommend at this time**
 - **pelvis** performance criteria
 - maximum pubic force
 - according to ISO/WG6 recommendation

Criteria in draft text of PSI regulation

➤ « 4. REQUIREMENTS »

➤ **abdomen** performance criteria

➤ *maximum abdomen rib deflection*

➤ **the limit was not updated according to the latest injury risk curve**

➤ **50% of abdomen soft tissue AIS2+ risk correspond to a maximum abdomen rib deflection of 79.8 mm (45 yo)**

➤ **Were the 58 mm kept on purpose?**

Criteria in draft text of PSI regulation

➤ « 4. REQUIREMENTS »

➤ **abdomen** performance criteria

➤ *peak abdominal viscous criterion and lower spine acceleration*

➤ **the injury risk curves were not recommended by ISO/WG6**

➤ **Were these measurements kept on purpose?**