# Proposal for amendments to ECE/TRANS/WP.29/GRSP/2011/14 (Draft 01 series amendments to draft Regulation on pedestrian safety)

Note: This document was prepared by the expert from Japan in order to conduct Technical/Editorial amendments. The amendments are supported by Flex-TEG members.

#### I. Proposal

Paragraphs 1.1. of Annex 5, amend to read:

"1.1. The test impactor shall be stored during a period of at least four hours in a controlled storage area with a stabilized temperature of  $20 \pm 4$  °C prior to impactor removal for test. After removal from the storage the impactor shall not be subjected to conditions other than those pertaining in the test area.

Each test shall be completed within two hours of when the impactor to be used is removed from the controlled storage area."

Paragraphs 1.3.2.1. of Annex 6, amend to read:

"1.3.2.1. The test impactor shall be stored for a period of at least four hours in a controlled storage area with a stabilized temperature of  $20 \pm 2$  °C prior to impactor removal for certification. The test impactor shall have a temperature of  $20 \pm 2$  °C at the time of impact. The test facility used for the certification test shall have a stabilized temperature of  $20 \pm 2$  4 °C during certification."

Paragraphs 1.4.2.1. of Annex 6, amend to read:

"1.4.2.1. The test impactor shall be stored for a period of at least four hours in a controlled storage area with a stabilized temperature of  $20 \pm 2$  °C prior to impactor removal for certification. The test impactor shall have a temperature of  $20 \pm 2$  °C at the time of impact. The test facility used for the certification test shall have a stabilized temperature of  $20 \pm 2$  4 °C during certification."

*Insert additional amendments on Paragraphs 1.1.of Annex 3*, to read:

"1.1. At the time of testing, the test facility and the vehicle or sub-system shall have a relative humidity of  $40 \pm 30$  per cent and stabilized temperature of  $20 \pm 4$  °C. However, in the case to conduct Lower legform impactor II test, only the requirement of temperature,  $20 \pm 4$  °C, shall be considered."

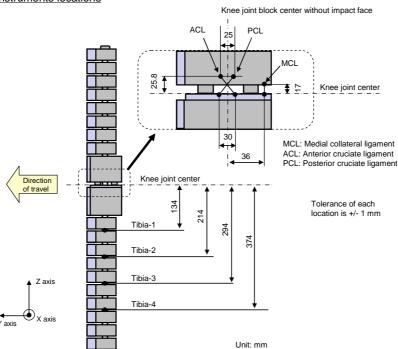
Figure 5 of Annex 4., amend to read:

"Figure 5

#### Lower legform II; instrument locations

### Instruments locations Knee joint block center without impact face ACL 25 7.5.8 Knee joint center 30 MCL: Medial collateral ligament ACL: Anterior cruciate ligament PCL: Posterior cruciate ligament Direction of travel Knee joint center 134 Tolerance of each location is +/- 1 mm Tibia-1 294 Tibia-2 Tibia-3 ▲ Z axis Tibia-4 Unit: mm

# Instruments locations

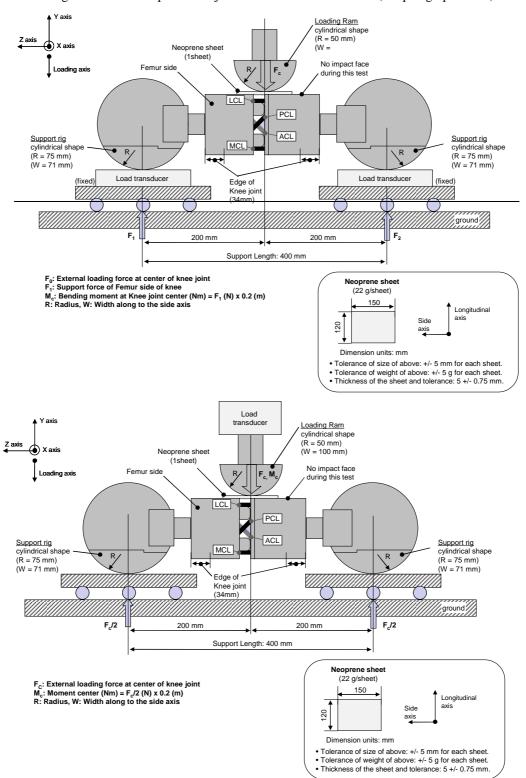


"

Figure 5 of Annex 6., amend to read:

#### "Figure 5:

Lower legform II test set-up for knee joint in static certification test (see paragraph 1.2.5.)



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## II. Justification

Following Technical/Editorial amendments are supported by Flex-TEG members:

Paragraphs 1.1. of Annex 5.: Impactor soak time is added. (technical)

Paragraphs 1.3.2.1. of Annex 6, Impactor soak time is added and test area condition is amended. (technical)

Paragraphs 1.4.2.1. of Annex 6, Impactor soak time is added and test area condition is amended. (technical)

Insert additional amendments on Paragraphs 1.1. of Annex 3, Test area condition during the Lower legform II test is amended (technical).

Figure 5 of Annex 4., Indicated locations are amended (editorial):

Figure 5 of Annex 6., Load transducer positions and comments are amended/updated (technical):