

## SA/K2010 Addendum for Headgear Equipped for Use with Frontal Head Restraint Systems

### Introduction

Some helmets are configured to with Helmet-M6-Terminals to allow the attachment of the flexible tethers connecting to Frontal Head Restraint devices. These are devices designed to limit the forward motion of the head in frontal impacts. The tethers may bear much of the inertial load of the head and helmet potentially reducing the stresses to the wearer's cervical spine and the base of the skull. This addendum applies to a particular hardware configuration intended for such later installation of tether mounts. This configuration and procedures for evaluating its performance are described in the Fédération Internationale de l'Automobile standard: FIA 8858-2010 Frontal Head Restraint (FHR) System. Headgear so equipped as to meet the specifications and test requirements set forth in Section 6. Assessment of Helmet and Appendix B. Helmet-M6-Terminal Test Procedure and which meet all the requirements set elsewhere for SA2010 will be eligible for SAH2010 certification labels indicating FHR (frontal head restraint) capability.

Frontal head restraint requires additional equipment which may not be provided with the headgear. To get the maximum benefit, take care to select an appropriate frontal head restraint system and see that it is properly configured. Please contact the Foundation for a current list of those frontal head restraint systems deemed appropriate for use with helmets meeting this addendum.

### Requirements for Certification

If samples of the same model and size range are simultaneously being submitted for SA2010 certification and all are configured with tether attachment hardware, then a single additional sample configured for the largest appropriate head form is necessary. For helmets previously certified to SA2010, two complete samples equipped with tether attachment hardware and configured for the largest appropriate head form are required. One sample selected from those

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submitted will be inspected and tested to determine compliance with the relevant portions of FIA 8858-2010.

### Standards Enforcement

Production units of Snell certified helmets labeled to SAH2010 or to SA2010 and FIA 8858-2010 are required to meet the specifications and performance requirements set forth in Section 6. Assessment of Helmet and Appendix B. Helmet-M6-Terminal Test Procedure of FIA 8858-2010, Frontal Head Restraint (FHR) System. Helmet samples acquired for Snell standards enforcement may, at the discretion of the technicians, be assessed for compliance.

If the helmets also incorporate tether mounts (Helmet-M6-Anchorage) fixed to the Helmet-M6-Terminals, these tether mounts shall be inspected for compliance with Section 2. Scope and Appendix C Tether System Test Procedure of FIA 8858-2010. At the discretion of the test technician, an alternate test procedure may be invoked in order to apply the loadings to the installed tether mounts rather than directly to the Helmet-M6-Terminals.