

**Draft Report for the 15th meeting of the informal group on
“Behaviour of M2 & M3 general construction in case of Fire Event (BMFE)”**
(<https://wiki.unece.org/display/trans/GRSG-BMFE-15>)

Date: **2021, May 10th** **10:00 – 13:00 (CET)**

1. Welcome and Roll call
Welcome By Fabrice Herveleu
2. Adoption of the agenda (*BMFE-15-01*)
Agenda adopted – 4.2 and 4.3 combined in one document *BMFE-15-02*
3. Validation of the minutes of the last meeting (*BMFE-14-06*)
No comments on previous meeting minutes
4. Regulation No.107 – Glass breaking device : efficiency ways of improvement
 - 4.1. Feedback on the data shared during GRSG 121st **[Chair]**
Document *GRSG-121-25* gave an overview of the summary of the different sessions of BMFE, and was submitted as an informal document.
GRSG-121-26 gave the current status of the discussions. A slot is foreseen for an official document in the October session
 - 4.2. Review of the current draft proposal (*BMFE-15-02*) **[FR/GER/CLCCR]**
[CLCCR] explains that the starting point was doc *GRSG-121-26*. The document was amended during the session. Some comments:
“Toughened” only for single layers → new wording needed.
“9 seconds” was without breaking and is too short, especially for double glazing → industry will check what is suitable.
[BASt] commented that you need 10 to 15 seconds to break the glass, then around 10 seconds to pass through the window → so 30 seconds might be ok.
[SWE] the 9 seconds, would this be for someone that is unaware of the fire event and that have to break the glass and remove it.
[CLCCR] confirms the wording; it is only the time needed to break the glass and remove it because it is difficult to measure the time for a person to awaken and to be aware that there is a fire and then to break and remove the glass.
It was suggested to maybe split the time into breaking and removing but the group decided to leave it as it is, otherwise we would make it too complicated and it would result in the choice of a technology.
[SWE] in *R107-06* a suppression system is already mentioned. Hopefully the hammer will not be necessary anymore, but it can be used for other things.

“7.6.8.2.2.3” → (a) and (b) are the choices an operator or manufacturer can make.

[a] → is a hammer with a steel rope a system fulfilling point a? according to the group it is the case. Permanently needs to be put in the justification that it can be removed to break the glass, but still fixed with the steel rope. Need to check the regulation 34 on fuel caps/filler caps.

The target is to have a device permanently coupled to the vehicle even during device use or, alternatively, unambiguous alert given to the driver when this is no longer the case. A non-permanent attachment system (e.g. clamp, clip, etc.) cannot be considered as meeting the requirement of point (a).

“7.6.8.2.2.4” → a cover or a protective seal? To put in the justification if the seal is used to prevent unintended use or to fix a device.

The target is to ensure the device can't be enabled accidentally by mainly non reversible system (e.g. sewing, plastic breakable cover, locking system, etc ...). The means used to permanently couple the device to the vehicle and protect it against unintentional manipulation are separate processes.

“7.6.8.2.2.5” → patterns needed

“7.6.9.5” → some changes to be added for the next session

4.3. Coupling glass – plastic film : principle introduction (*BMFE-14-XX*) [FR/GER]

4.4. Review on visibility of a safety sign (*BMFE-14-03*) [Aguila]

[Daimler] says that it is better not to touch safety signs in R107-06, no more extra prescriptions wanted in this regulation

[Sweden] more time needed for feedback on implantation of R107-06 before putting more prescriptions into new amendments

[Scania] it is difficult to find materials that fulfil the prescriptions currently in R107-06, it would be an overkill now to put more prescriptions

[France] agrees with Aguila, it will improve visibility in case of fire with a flashing light

[BAST] questions the purpose of this type of system.

[Volvo] supports the remarks from Sweden and Germany, R107-06 is already difficult enough for the time being. Will, by adding extra requirements, the hammer be better visible? We need more time for feedback on the current requirement sin R107-06

[Group] Interesting topic but too early for the time being, waiting for more experience feedback to consider potential future introduction.

5. A.O.B & Next steps and meetings

This proposal will be a new series of amendments 9 with application dates 2023 for new types and 2025 for all types. Transitional provisions must be checked for the next session.

To check/to add:

- R43 toughened

- timing [xx] seconds + check additional actions (for all attendees)
- justification for 7.6.8.2.2.3 will be drafted by Mr. Herveleu
- transitional provisions must be introduced with timing between [], the classical paragraphs will be added by Mr. Herveleu

Next session: 01/09/2021 – 10:00hrs – 13:00hrs