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## M O T I O N

### TO RECOMMEND APPLICATION OF ROAD SAFETY TRAFFIC SIGNS ON PUBLIC ROADS

20% of road accident casualties result from vehicle impact in contact with hard objects (tree, lamp post and road signs), which is due to two main factors affecting passive safety:

- use of vertical road signs made partly or in total of metal components
- dew formation on metal road signs in common use, which results in loss of conspicuity and legibility of road sign image

The above two problems have already been solved by implementation of innovative technology with application of composite materials for manufacturing conventional and large-size road signs.

I wish to add that a few of such innovative road signs have been installed in Poland, the United Arab Emirates and Qatar.

#### MAIN ADVANTAGES OF COMPOSITE ROAD TRAFFIC SIGNS OVER METAL SIGNS

##### 1. **Crash friendly**

During a collision, when the sign is struck by a vehicle, the sign panel is crushed and its post bends, in this way the sign yields showing its friendly nature so it may be complimented as "crash friendly". As a result, the vehicle does not sustain extensive damage and injuries to its occupants are significantly reduced or avoided. Our signs of composite materials are designed as monolithic compact structures and in spite of having breakaway features, they do not react to impact in the same way as metal signs in common use. Our signs do not fall into fragments which are likely to injure other road users. For this reason, they do not require shielding barriers.