Operating temperatures on the CNG system

According to the UNECE R110 Regulation:
- the gas temperatures inside the cylinders must not exceed 65 °C, except in the phases of filling or emptying (which in any case must be short)
- the temperatures on the external surfaces of the cylinders must not exceed 82 °C.

Furthermore, as far as the rest of the system is concerned, the higher values that can be created and the components involved are indicated in the following figure:

Fig 6

A Contact temperatures   B. Air temperatures
Therefore:

- Use suitable heat-shield screens whenever high temperatures can be expected (> 70°C) and subsequent dangers to pipes, electric cables, synthetic materials, etc.
- Without adequate shielding, no component of the CNG or LNG system can be placed less than 100 mm from the exhaust pipe.
- The distance between the exhaust pipe and front wheel arches must be strictly greater than 30 mm.