

Proposal for amendments to UN Regulation No. 43

(Safety glazing)

The text reproduced below has been prepared to clarify the test procedure in the resistance to high temperature test which is performed in case of different ambient pressure because of height changes of laboratories.

I. Proposal

Add a note to paragraph 5.1 of Annex 3:

"Note

If boiling water is used for doing the test at 100 °C on sea level, it shall be considered that the barometric formula says that the boiling of water in the height will happen at lower temperatures because it depends on the pressure which is decreasing with increasing height.

For calculating the dependency of the pressure with the height, the following barometric formula shall be used:

$$p(h) = p(0) \cdot e^{-\frac{h}{7.99}}$$

The temperature for the relevant pressure value is given from the table of the steam pressure of saturated water steam:

Temperature T(°C)	0	10	20	30	40	50	60	70	80	90	100
Pressure p(mbar)	6.1	12.2	23.3	42.3	73.5	123	198.7	310.8	472.3	700	1010

II. Justification

The boiling water test is pressure dependant which has influence on the temperature for boiling.
