

Renault ECC1 Test

CHAMBER INSPECTION BEFORE AND AFTER THE TEST

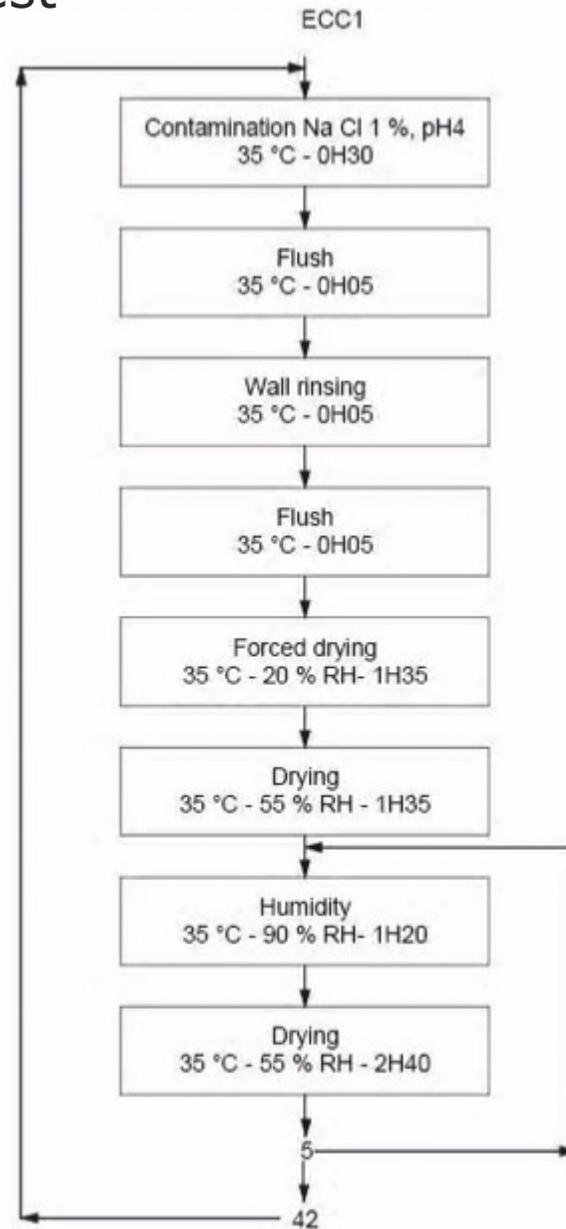
1. CHECKING THE SALT SPRAY: PLUVIOMETRY

- Place 6 collectors (50 ml test tubes + \varnothing 100 mm funnels) at the bottom of the vat, spread out in such a way that it is possible to evaluate the consistency and pluviometry.
- Condition the chamber for at least 1 hour at 35 °C, then start the salt spray mode for 5 hours.
- Measure the pluviometry in the hour following the end of the test.
- Set the pressure, the flowrate and the angle of the spray nozzles to obtain a pluviometry of 5 ml \pm 1 ml per hour in all collectors.

2. CHECKING THE TEMPERATURE AND HUMIDITY PHASES

- This is performed using temperature and humidity measuring devices (examples: PT100 probes, Hygrometer, etc.), placed at the centre of the vat.
 - The following points are to be checked:
 - 35 °C and 20 % RH for 4 hours
 - 35 °C and 40 % RH for 4 hours
 - 35 °C and 60 % RH for 4 hours
 - 35 °C and 80 % RH for 4 hours
 - 35 °C and 90 % RH for 4 hours
- i.e. for a total of 20 hours.
- After stabilization for two hours and at half-hour intervals:
 - the temperature shall be to within 35 °C \pm 0.8 °C,
 - relative humidity shall be to within \pm 3 % of the specified setting, except for the point at 20 % RH (\pm 5 %).

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- NaCl Konz. 1 %
pH 4
- **Niederschlagsrate 5 ± 1 ml /h**
Feuchte ± 3 %
Wandspülung
automatisches Ausblasen des Salzsprühnebels
Prüfraumtemperatur $35^{\circ}\text{C} \pm 0,8^{\circ}\text{C}$
- **Forcierte Trocknung bei $35^{\circ}\text{C} < 20\%$ r.F.**
- **definierte Übergangszeiten**



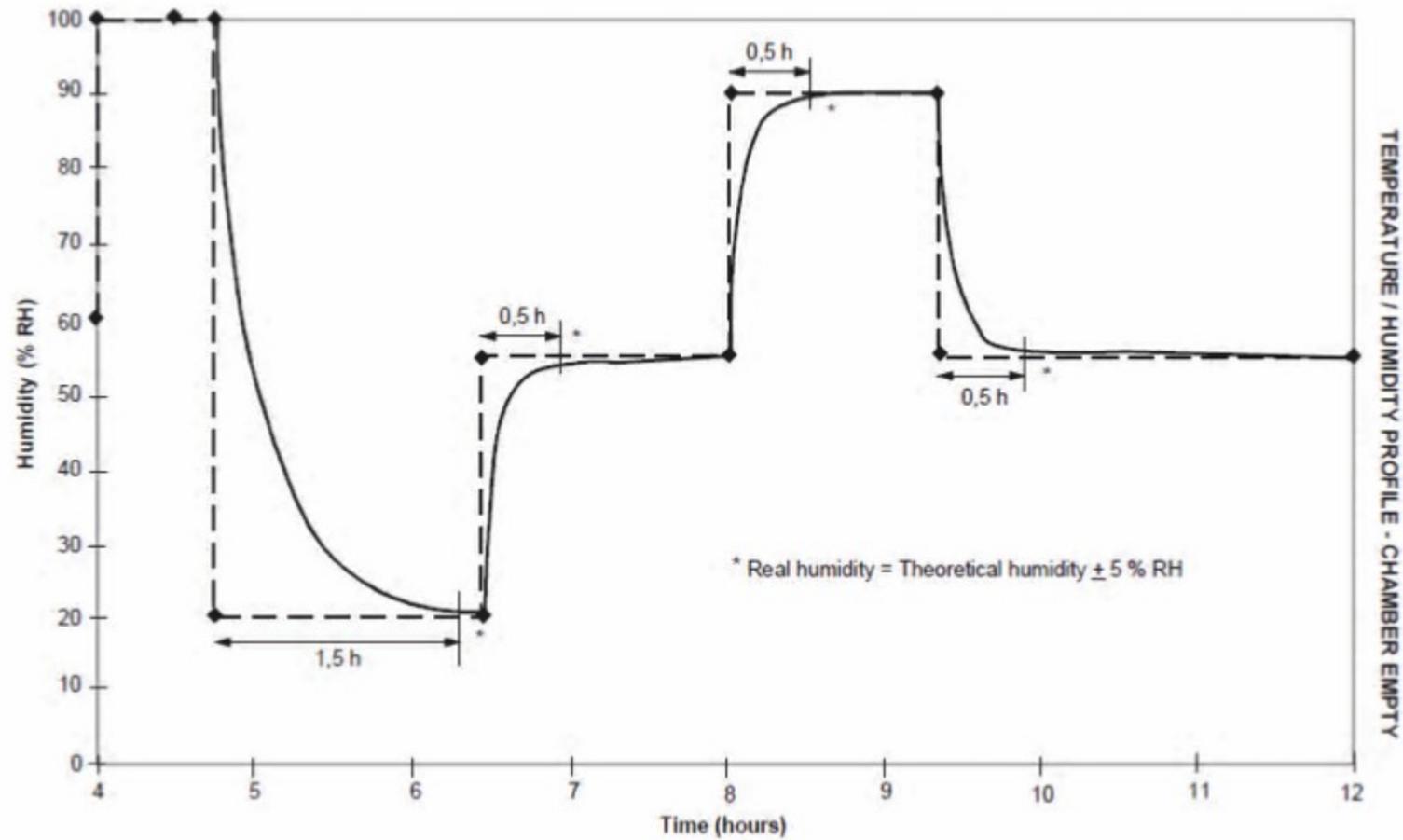
Aufgrund der üblicherweise in der Raumluft vorhandenen Feuchte ist die Forderung r.F. $< 20\%$ bei 35°C allein mit Erwärmen der Luft nicht zu erfüllen. Deshalb muss die Raumluft mit einem Klimagerät zunächst entfeuchtet und anschließend auf 35°C erwärmt werden.



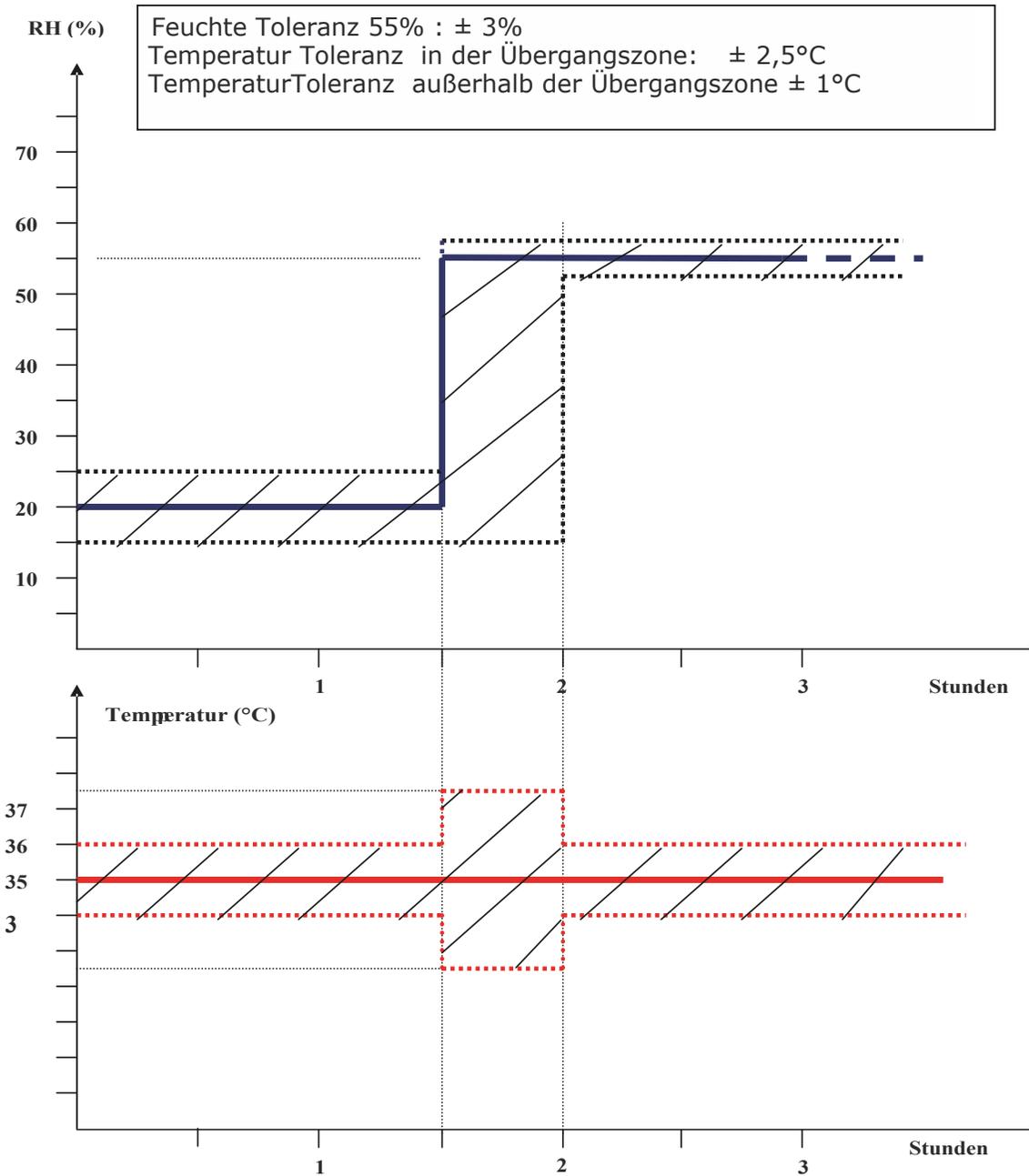
This cycle shall be performed 42 times, i.e. in all 6 weeks of testing.

Annex 3 indicates the test profile, chamber unloaded.

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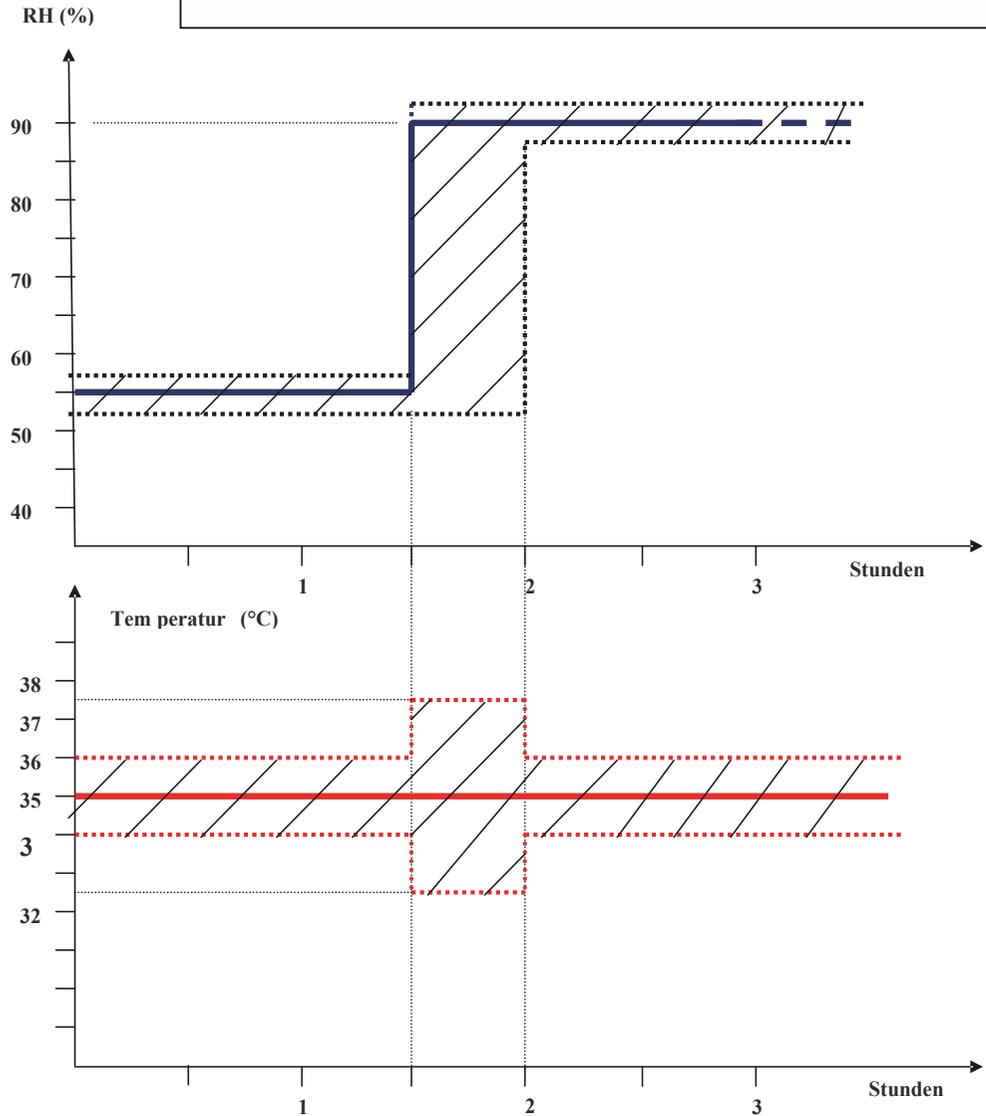


Renault ECC1 Test Feuchtephase 20% \Rightarrow 55%

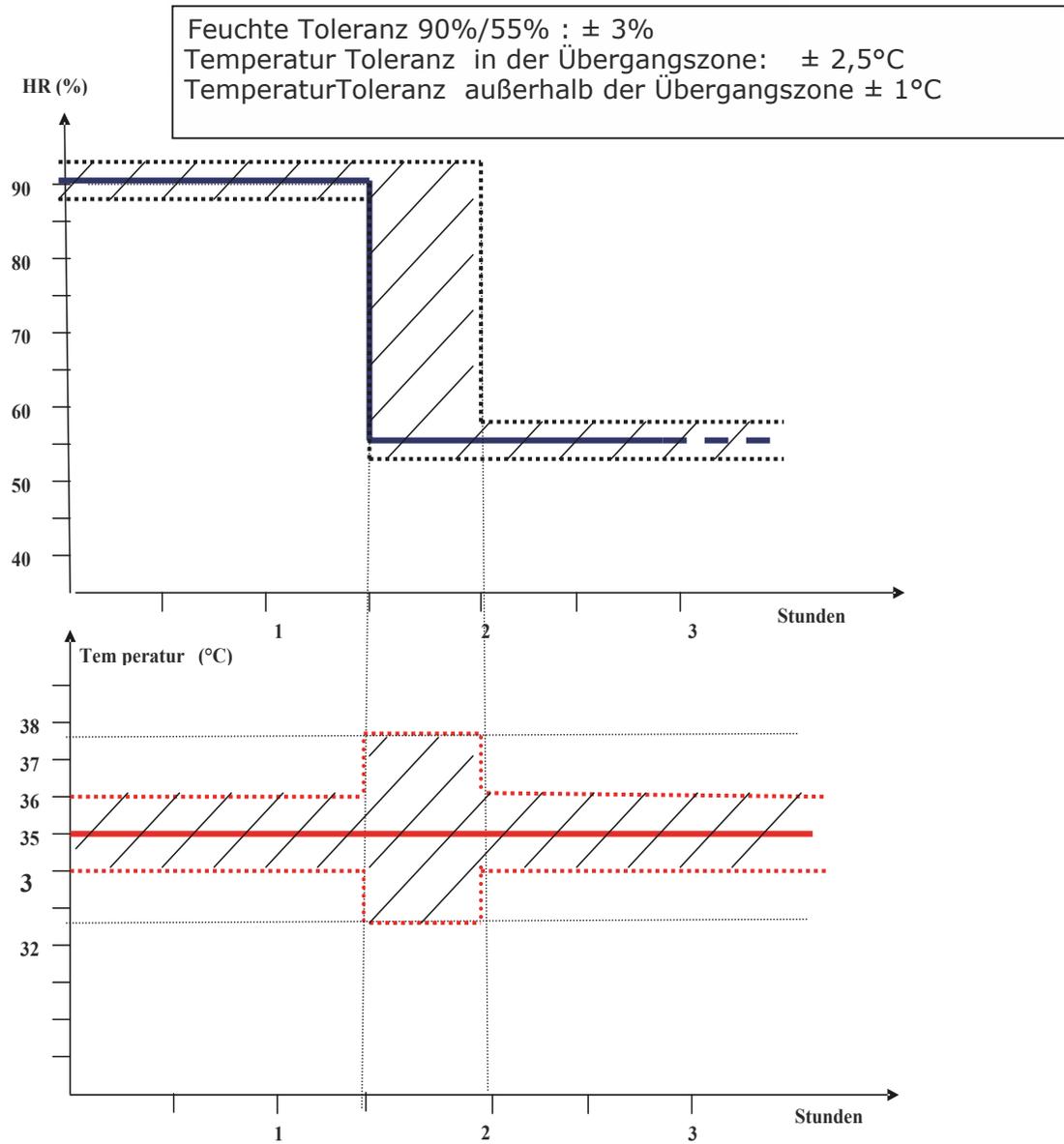


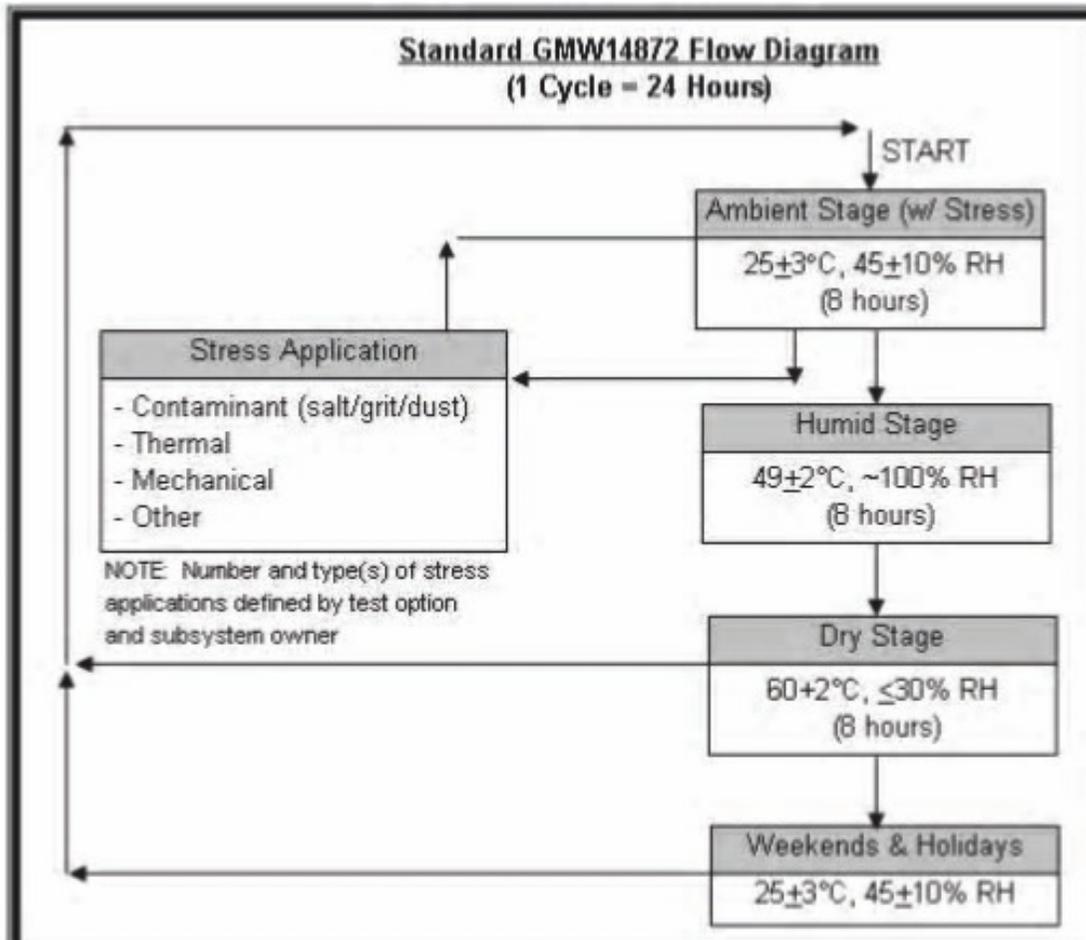
Renault ECC1 Test Feuchtephase 55% ➔ 90%

Feuchte Toleranz 90% : $\pm 3\%$
 Temperatur Toleranz in der Übergangszone: $\pm 2,5^\circ\text{C}$
 TemperaturToleranz außerhalb der Übergangszone $\pm 1^\circ\text{C}$



Renault ECC1 Test Feuchtephase 90% ➔ 55%





Simultane Bestimmung der Abtragsrate von definierten Coupons (Bei VLM erhältlich)

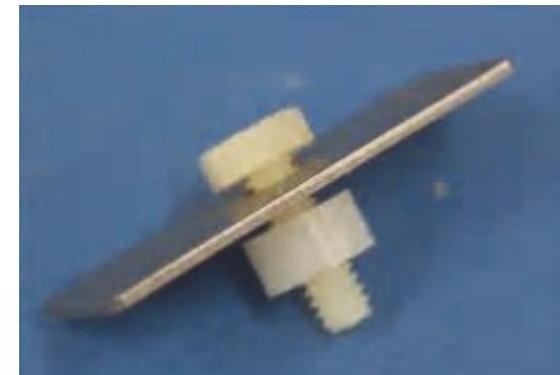
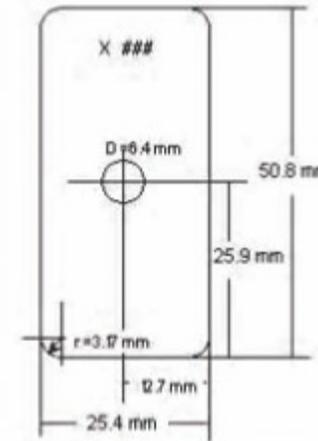


Table A2: Number of Coupons Recommended

Number of Required Cycles	Number of Coupons	Removal Frequency
≤ 10 cycles	6	5 Cycles
11 to 20 cycles	10	5 Cycles
21 to 30 cycles	14	5 Cycles
31 to 40 cycles	18	5 Cycles
41 to 80 cycles	18 ^{Note 1}	10 Cycles

Note 1: Additional coupons may be required if earlier evaluations must be conducted.

Quelle: GMW 14872 Standard