
















# CHECK-LIST Homologation guide

Are my robots ready for the approval tests? Check it yourself!

Test these following points (non exhaustive list) before presenting your robots to the approval area.


















## Robot (controlled)

-  ≤ 120 cm: **non deployed perimeter** (in vertical projection)
-  ≤ 140 cm: **fully deployed perimeter** (in vertical projection)
-  ≤ 35 cm: **height** (beacon support and emergency stop button excluded)
-  ≥ 5 m: length of the **cable** control system - robot (optional if wireless controlled)
-  ≥ 2 m: length of the **cable** between the electrical socket and the power supply (optional if wireless controlled)
-  Cable voltage ≤ 13.8 V.
-  Ø ≥ 2 cm, height ≤ 37.5 cm and red coloured: **emergency stop button (if batteries inside)**
-  Voltage embedded in the robot ≤ 48 V.
-  ≤ 4 bars at any point of non-commercial compressed air systems
-  **Lasers:** classes 1, 1M authorised; classes 2 accepted if the laser stays inside the playing area; higher classes forbidden. Provide the data-sheets.
-  All the **Lithium** batteries in safety bags (except LiFePO4 & unmodified BMS in sturdy case); bring the chargers.
-  No forbidden equipments or **dangerous** for the persons or the goods (playing areas). File the projecting parts.
-  ≤ 80 dBA, 1 m away from the robot
-  The robot must stand in the starting area.
-  The all SIMA(s) must stand in the starting area



## SIMA (autonomous)

I do not have a SIMA (skip the following)

-  Undeployed perimeter ≤ 70 cm and fully deployed ≤ 80 cm
-  ≤ 15 cm: **height** (beacon support and emergency stop button excluded)
-  ≤ 1.5 kg : **weight**
-  Ø ≥ 2 cm, height ≤ 17.5 cm and red coloured: **emergency stop button (if batteries inside)**
-  Voltage embedded in the robot ≤ 48 V.
- Autonomy: during the match, there is no wired or wireless communication between the secondary robot and the main robot or control system.**
-  ≤ 4 bars at any point of non-commercial compressed air systems
-  **Lasers:** classes 1, 1M authorised; classes 2 accepted if the laser stays inside the playing area; higher classes forbidden. Provide the data-sheets.
-  All the **Lithium** batteries in safety bags (except LiFePO4 & unmodified BMS in sturdy case); bring the chargers.
-  No forbidden equipments or **dangerous** for the persons or the goods (playing areas). File the projecting parts.
-  ≤ 80 dBA, 1 m away from the robot
-  **Cursor**
-  ≤ 10 cm x 10 cm x 4.5 cm
-  **No propulsion system**
-  No forbidden equipments or **dangerous** for the persons or the goods (playing areas).
-  Emergency button (if batteries)  
All the **Lithium** batteries in safety bags (except LiFePO4 & unmodified BMS in sturdy case); bring the chargers

Good to know!

- I anticipate my passage to the approval area. I do not wait until the last minute!
- I do not hesitate to homologate my systems individually when they are ready.
- When a substantial material modification is done, I must re-homologate what is necessary.