

## CHECK-LIST Approval 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.

Abot #1 (controlled)	Abot #2 (autonomous)
	I do not have a second robot (skip the following)
Section ≥ 120 cm: non deployed perimeter (in vertical projection)	Sector Secto
בא ≤ 130 cm: fully deployed perimeter (in vertical projection)	בא ≤ 130 cm: fully deployed perimeter (in vertical projection)
	$\boxed{\underline{1}}  \underline{\underline{5}}  \underline{\underline{55} \text{ cm: height (beacon support and emergency stop button excluded)}}$
Solution ≥ 5 m: length of the cable control system - robot (optional if wireless controlled)	$\sim$ <b>&gt; 50 cm</b> : cord length (starting system)
≥ 2 m: length of the <b>cable</b> between the electrical socket and the power supply (optional if wireless controlled)	
Supply voltage ≤ 13.8 V.	✓ Voltage embedded in the robot $\leq$ <b>48 V</b> .
$\emptyset \ge 2 \text{ cm}$ , height $\le 37.5 \text{ cm}$ and red coloured: emergency stop button (optional if wired controlled)	Flags (optionnal): at least 2 double-sided flags, height of deployment > 35 cm, useful surface area deployed for each flag $\ge$ 30 cm <sup>2</sup>
Voltage embedded in the robot $\leq$ <b>48 V</b> .	Autonomy: during the match, there is no wired or wireless communication between the secondary robot
Flags (optional): at least 2 double-sided flags, height of deployment > 35 cm, useful surface area deployed for each flag $\ge$ 30 cm <sup>2</sup>	Presence of an <b>actuator</b> that can be used for one action (not necessarily to move)
Sector Secto	Sector Secto
Lasers: classes 1, 1M authorised; classes 2 accepted if the laser stays inside the playing area; higher classes forbidden. Provide the data-sheets.	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 <b>Lithium</b> batteries in safety bags (except LiFePO4 & Mindstorm); bring the chargers.	All the <b>Lithium</b> batteries in safety bags (except LiFePO4 & Mindstorm); bring the chargers.
No forbidden equipments or <b>dangerous</b> for the persons or the goods (playing areas). File the projecting parts.	No forbidden equipments or <b>dangerous</b> for the persons or the goods (playing areas). File the projecting parts.

Addition	nal constraints
	The robot(s) must stand in the starting area.
	I do not have a second robot (skip the following)
※	≤ 205 cm: sum of the non-deployed perimeters of the two robots
	≤ 220 cm: sum of the deployed perimeters of the two robots
団 Score o	display
•	The score display is visible and easy to read. It is installed on the robot(s) or on the lighthouse.
The ligh	nthouse
	<ul> <li>Should be contained in the dedicated platform and with good visibility from the audience.</li> <li>Width ≤ 22.2 cm;</li> <li>Length ≤ 45 cm;</li> <li>Height (not deployed) ≤ 30 cm (and during the match, can be deployed up to 90 cm)</li> </ul>
•	Height of the light source when the lighthouse is deployed $\geq$ 70 cm. The light source <b>sweep</b> is effective over at least 180° with respect to the front of the table.
KG	<b>≤ 3 kg</b> : weight
	Emergency button (if batteries)
	Fixation: threaded rod of $\emptyset$ 8 mm & butterfly nut.

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

