

# WPV inspection checklist 2022

Version 22.1

3 Letter identifier:

Name of team:

	Rule #	What to test	Vehicle complies		to do
<b>Safety</b>	6.1a	rotor brake/s on rotor each axis	YES	NO	
	6.1b	vehicle brake on wheel axis	YES	NO	
	6.3	secondary way of stopping the rotor (not the same as 5.13)	YES	NO	
	6.4	there is a ROPS, functionality explained, ROPS on rotor axis	YES	NO	
	6.5a	there is a safety cage/net	YES	NO	
	6.5b	safety cage/net does not rotate with rotor	YES	NO	
	6.6	geometry of safety cage/net	YES	NO	
	6.7	driver vacates within 10 sec without assistance	YES	NO	
	6.8	driver not head forward	YES	NO	
	6.9	evacuation markings on door(s)	YES	NO	not affected
	6.10	driver protected from car-flipping	YES	NO	
	6.11	drivers helmet	YES	NO	
	6.12	horn	YES	NO	
	6.13	provision for rotor blocking when car is parked	YES	NO	
	6.16	no bare contacts accessible from outside	YES	NO	
	6.17.1	electric shock warning sign (> 24V)	YES	NO	not affected
	6.17.2	driver emergency off (> 24V)	YES	NO	not affected
6.17.3	outside emergency off (> 24V)	YES	NO	not affected	
6.17.4	double safety for electrical parts (> 30V AC / 60V DC)	YES	NO	not affected	
<b>Box</b>	5.1	car fits into the competition-box (test 9.1)	YES	NO	
	5.4	max. diffusor/cowling diameter ≤ 2m (incl. net)	YES	NO	
	6.15a	car flipping according to test 9.3 (calculation)	YES	NO	
	Weights [kg]: FWD-L:                      FWD-R:                      AFT-L:                      AFT-R:				
	Dimensions [m]: FWD TRK:                      AFT TRK:                      WB:				
<b>Dyke Test</b>	6.2a	vehicle brake: Hold & Dynamic FWD (test 9.5.1)	YES	NO	
	6.2b	vehicle brake: Hold AFT (test 9.5.2)	YES	NO	
	5.9a 6.15b	max. turning diameter ≤ 15m car flipping according to test 9.4 (dyke corner)	YES	NO	
	5.9b 6.15c	in case of "crabbing car": 5.9a in all crabbing positions in case of "crabbing car": 9.4 in all crabbing positions	YES	NO	not affected

**Passed/Cleared:**      **Safety**      **General**      **Box**      **Dyke**      **Race**      **Drag**

General	Rule #	What to test	Vehicle complies		
			YES	NO	
	2a	design report checked. Type of car: a) no storage    b) caps    c) battery/hybrid caps	YES	NO	
			a	b	c
	2b	If type c): minimum allowed cell voltage:			
	2c	safety calculations checked	YES	NO	
	2d	rotor net tested	YES	NO	
	3.1-3	Is a WPV according to basic rules	YES	NO	
	4.1	driver older than 18 years	YES	NO	
	4.2	min. driver weight $\geq 65$ kg, extra weight (test 9.6)	YES	NO	
	4.4	driver equipped with radio, demonstrated	YES	NO	
	5.5	max. rotor area $\leq 4\text{m}^2$	YES	NO	
	5.6	max. distance of turning parts to tower center $\leq 1.5\text{m}$	YES	NO	
	5.7	max. diffuser length $\leq 1\text{m}$ in front and behind tower	YES	NO	
	5.10	contact driver – road/wheels prevented	YES	NO	
	5.11	steering device ok	YES	NO	
	5.12	at least 3 wheels, not in line	YES	NO	
	5.13	there is a rotor brake	YES	NO	
	5.14	there is a vehicle brake	YES	NO	
	5.15	there is a parking brake	YES	NO	
	5.16a	track-visibility from within cockpit $\pm 110^\circ$	YES	NO	
	5.16b	track visibility not blocked (max. $10^\circ$ , max. total $30^\circ$ )	YES	NO	
	5.17	no storage cars: no energy storage in drivetrain	YES	NO	not affected
	5.19a	storage cars: one working SOC-display per storage unit	YES	NO	not affected
	5.19b	storage cars: SOC display is easily readable from outside	YES	NO	not affected
	5.20	storage cars: SOC = 0% is done correctly	YES	NO	not affected
	6.5c	safety cage/net material does not rip (test 9.5)	YES	NO	