

VADEMECUM – MAIN SETTINGS

January 2026

Model A,N and F



IC GREEN

HIGH PERFORMANCE ROBOTICS

Maintenance Calendar for Sports Turf

Winter (December – February): dormant period

Dormant period of the turf, ideal for heavy soil operations. Growth stops and the focus is on preparing the pitch



Mowing (reduced or stopped)

Only mow when necessary and when conditions allow



Annual decompaction

Correct soil compaction that has developed over the year



Rest period for the turf

Limit foot traffic and mechanical stress on the pitch

Spring (March – May): turf awakening

Prepare, nourish, and thicken the turf for the upcoming season. Restore it after winter and get it ready for intensive use



Fertilization

Provide nutrients for vigorous growth



Overseeding (15g / m²)

Thicken the turf and fill in sparse areas



Aeration /Scarification

Improve oxygenation and remove thatch



Start of mowing

Mow regularly to stimulate turf growth



Weed control: 1 to 4 times per month

Start operations in April-May

Autumn (Sept. – Nov.): preparation for winter

Strengthening before winter dormancy. Key period for making the lawn more resistant during the cold months.



Overseeding (up to 40g/m²)

Sustained application to densify and repair after summer



Fertilization

Autumn fertiliser for rooting and cold resistance



Aeration /Scarification

Essential for preparing the soil for winter



De-thatching

Remove thatch to limit fungal diseases in winter



Weed control : 1 to 4 times/month

Operations to be continued throughout October

Summer (June – August):

Counteract heat and intensive use. Limit stress during the hottest months



Watering (depending on weather)

Avoid drying out in hot weather



High mowing (> 5 cms)

To protect the roots from the sun and retain moisture



Aeration /Scarification

Continue aeration to preserve soil structure



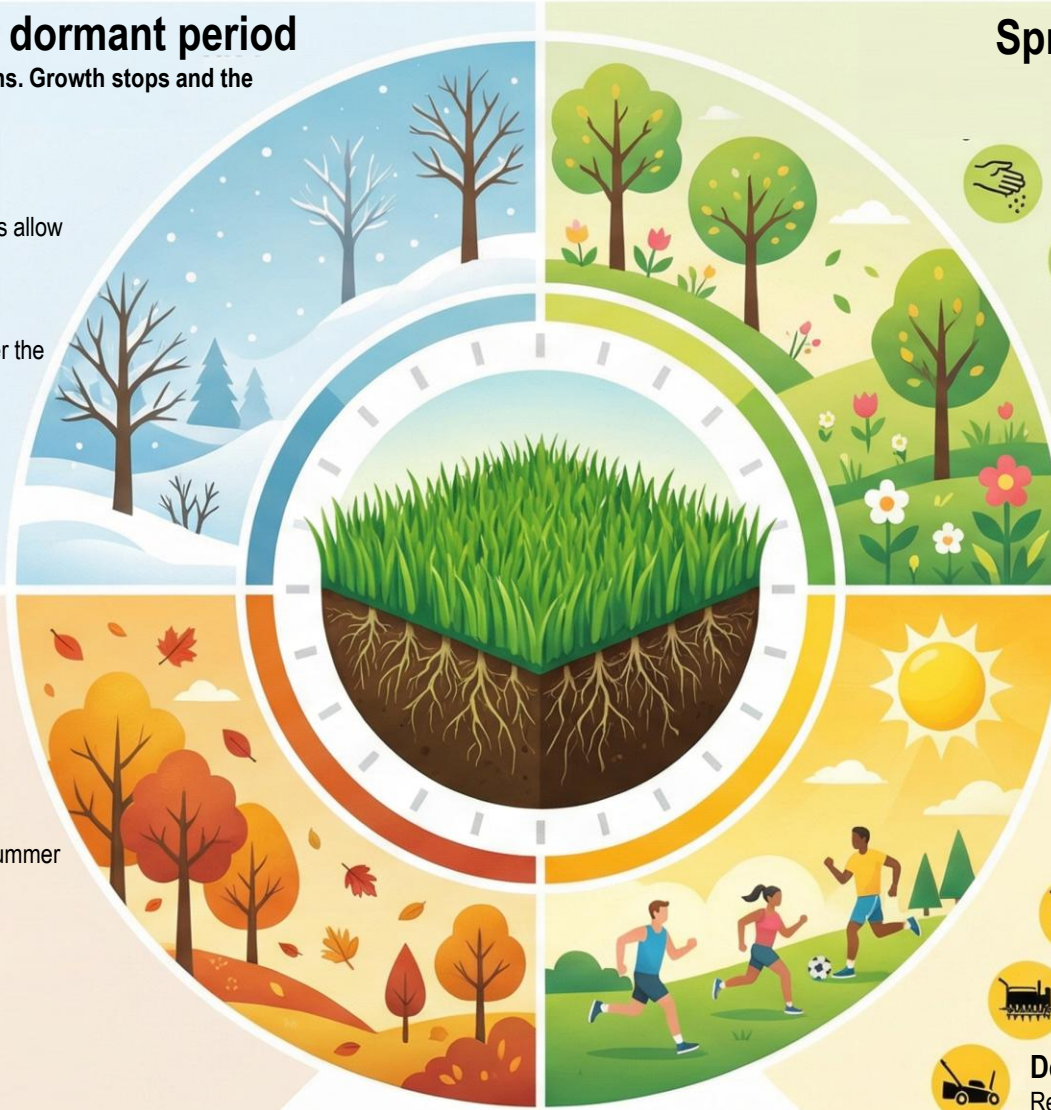
De-thatching (June)

Remove thatch to avoid stunting growth.



Weed control : 1 to 4 times per month

Continue operations at regular intervals.



Important notes

Always scarify/de-thatch before using Sportee.
This step is essential for optimal results.

Observed vegetation cover: what decision should be made?

Decision support for the maintenance and renovation of a sports turf field

		Decision to be made	Sportee
1	> 80–85 % living grass	 Routine maintenance: mowing, fertilization, light aeration, localized topdressing.	 Yes — suitable
2	70–80 %	 Preventive overseeding recommended, especially in play areas: goals, central axis, sidelines, warm-up areas.	 Yes — recommended
3	50–70 %	 Regeneration / partial renovation to be scheduled: the field is beginning to lose its playing qualities and its recovery capacity.	 Yes — relevant down to 50 %
4	< 50 %, or very uneven/compacted field	 Major regeneration, or even complete renovation if the soil is also degraded.	 No — below 50 %, insufficient on its own
5	< 30 % healthy surface	 Complete replacement often becomes more relevant than simple overseeding.	 No — not for complete replacement

SPORTS FIELD REGENERATION: ESSENTIAL SETTINGS



1. Diagnosis and Strategy Timing is everything!



- < 20%
Regeneration
+/- intensive
- 20 - 40%
Regeneration
+/- intensive
- 40 - 60%
Intensive
regeneration
- > 60%
Scalping



SPRING

April (after the frosts)
Intensive & mandatory

SUMMER

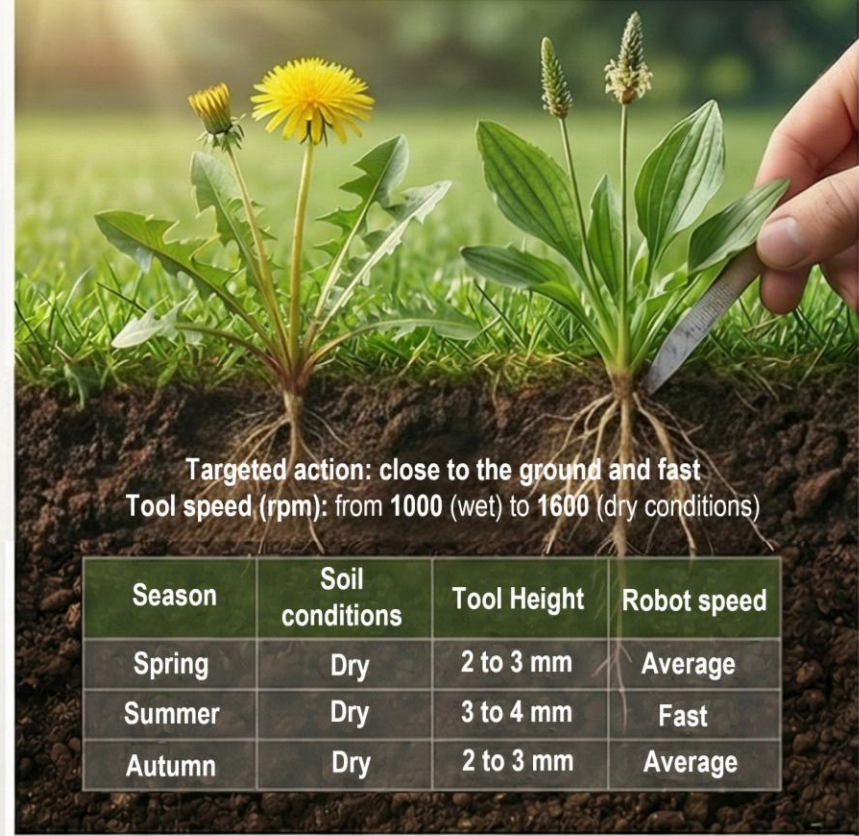
Early July
Recommended

AUTUMN

Early September
Intensive & mandatory

The strategy depends on the
level of infestation

2. Recommended settings for taproot weeds



Targeted action: close to the ground and fast
Tool speed (rpm): from 1000 (wet) to 1600 (dry conditions)

Season	Soil conditions	Tool Height	Robot speed
Spring	Dry	2 to 3 mm	Average
Summer	Dry	3 to 4 mm	Fast
Autumn	Dry	2 to 3 mm	Average

3. Settings for other weeds



SPRING

- 3 to 4 mm
- 1000 (wet) to 1400 rpm (dry)
- Robot speed : average to fast

SUMMER

- 3 to 4+ mm
- 1000 (wet) to 1400 rpm (dry)
- Robot speed : fast

AUTUMN

- 3 to 4+ mm
- 1000 (wet) to 1400 rpm (dry)
- Robot speed : average to fast

4. Key recommendation

The Next Step : overseeding

Overseeding rate:
Spring / Autumn: 10-15 g/m²
Summer: 10 g/m²

WARNING: always adjust according to the field
The settings provided are for guidance only and must be adjusted and validated according to the specific conditions of the field being treated



Key Settings for Sports Field Maintenance

Quick Reference Guide for Adjusting Turf Maintenance Equipment Based on Weed Type and Soil Moisture

Management of Taproot Weeds (Dandelion, Plantain, Thistle, etc.)

Characteristic: deep primary root. The treatment aims to weaken the taproot without damaging the turf



Robot Settings for Taproot Weeds

Soil condition	Tool Height (mm)	Tool Speed (rpm)	Forward Speed
Dry	3 to 4	1200 - 1400	Fast
Normal	3 to 4	1200 - 1300	Fast
Wet	4 to 5	1000 - 1200	Fast

Management of Other Weed Types (Clover, Crabgrass, Poa annua, etc.)

Characteristic: diffuse or creeping root system.
Objective: disrupt surface growth to favor the turf.



Robot Settings for other Weeds

Soil Condition	Tool Height (mm)	Tool Speed (rpm)	Forward Speed
Dry	4 to 5	1200 - 1500	Fast
Normal	4 to 5	1200 - 1400	Fast
Wet	> 5	1000 - 1200	Fast

Key Principles: Essential Adaptation

These settings are indicative; on-site observation and adjustment are essential for optimal results

Mowing height, grass species, weather, thatch presence, etc., strongly influence performance

Adjustment for Synthetic Surfaces



Brush position:

Midway on the carriage for all infills except cork and olive pits (end of carriage) and sand (front of carriage)



Frequency of use:

Twice a month
or after 100 hours of use



Tool depth:

Between 4 and 8 mm,
depending on the density and
weight of the infill



IMPORTANT: the recommended values are for guidance only. Each operation must be adapted to the actual conditions encountered on the pitch

Tool speed depending on the type of infill

Unit: revolutions per minute (rpm)



In wet weather

Increase speed by
50 to 100 rpm



In hot weather

Decrease speed by
50 to 100 rpm



In cold weather

Increase speed by
100 to 200 rpm

REGENERATION

Seasons	Spring	Summer	Autumn
	Preferred period	April after the end of frosts	Early July
Recommendations	High and mandatory	Recommended	High and mandatory
Infestation level and field management strategy	A field may be colonized by one or several weed species. These recommendations must be adapted to the weeds encountered. Taproot weeds require working close to the surface with a higher tool speed.		
< 20%	Adapt regeneration to the dominant weeds		
20 to 40%	Regeneration: moderate to strong		
40 to 60%	Intensive regeneration	Regeneration: moderate to strong	Intensive regeneration
> 60%	Scalping	Regeneration: moderate to strong	Intensive regeneration

If most are taproot weeds

Plantain, thistle, dock (Rumex), dandelion, daisy, other weeds... are treated as taproot weeds	Intensive regeneration	Regeneration: moderate to strong	Intensive regeneration
Dry			
Tool height settings (mm)	2 to 3 mm	3 to 4 mm	2 to 3 mm
Tool speed (rpm)	1400/1600		
Robot speed	Medium	Fast	Medium
Normal			
Tool height settings (mm)	3 to 4 mm		
Tool speed (rpm)	1200/1400		
Robot speed	Medium	Fast	Medium
Wet			
Tool height settings (mm)	4 mm and above		
Tool speed (rpm)	1000/1200		
Robot speed	Fast		

If most are other weeds

Example: clover, crabgrass, Poa annua, etc.	Intensive regeneration	Regeneration: moderate to strong	Regeneration: moderate to strong
Dry			
Tool height settings (mm)	3 to 4 mm	3 to 4 mm	3 to 4 mm
Tool speed (rpm)	1200/1400	1200/1400	1200/1400
Robot speed	Medium	Fast	Medium
Normal			
Tool height settings (mm)	3 to 4 mm		
Tool speed (rpm)	1200/1400		
Robot speed	Fast		
Wet			
Tool height settings (mm)	> 4 mm		
Tool speed (rpm)	1000/1200		
Robot speed	Fast		
Next step	Overseeding: 10–15 g/m ²	Summer overseeding: 10 g/m ²	Winter overseeding: 10–15 g/m ²

The concept of disc adjustment, which determines a more or less pronounced intensity of action (referred to as aggressiveness by some operators and as effectiveness by others), is inherently linked to each user's practices and judgement. The settings shown are provided for guidance only and must be adjusted and validated based on the specific conditions of the field to be treated, which may differ from the recommendations given.



Seasons	Spring	Summer	Autumn
Preferred period	May	August	October
Weeds – general recommendations	Post-regeneration maintenance	Post-regeneration maintenance	possibly very light work
Poa annua specifics	Optional Poa program	Optional Poa program	
	Discs set to 5 mm / tool rotation at 1200–1400 rpm / fast speed	Discs set to 5 mm / tool rotation at 1200–1400 rpm / fast speed	
Infestation level and field management strategy	If the protocol is followed, intensive regeneration with overseeding has been carried out, and the weed level should not exceed 40%		
< 20%	Medium maintenance	Medium maintenance	Optional
20 to 40%	Heavy maintenance	Heavy maintenance	if needed, check the level before winter

If most are taproot weeds

	Spring	Summer	Autumn
Plantain, thistle, dock (Rumex), dandelion, daisy, other weeds... are treated as taproot weeds	Heavy maintenance	Heavy maintenance	Adjustable setting
Dry			
Tool height settings (mm)	3 to 4 mm		
Tool speed (rpm)	1200/1400		
Robot speed	Fast		
Normal			
Tool height settings (mm)	3 to 4 mm		
Tool speed (rpm)	1200/1300		
Robot speed	Fast		
Wet			
Tool height settings (mm)	4 to 5 mm		
Tool speed (rpm)	1000/1200		
Robot speed	Fast		

Other weed types

	Spring	Summer	Autumn
Examples: clover, crabgrass, Poa annua, etc.	Medium maintenance	Medium maintenance	Optional
Dry			
Tool height settings (mm)	4 to 5 mm		
Tool speed (rpm)	1200/1500		
Robot speed	Fast		
Normal			
Tool height settings (mm)	4 to 5 mm		
Tool speed (rpm)	1200/1400		
Robot speed	Fast		
Wet			
Tool height settings (mm)	> 5 mm		
Tool speed (rpm)	1000/1200		
Robot speed	Fast		
Next step	Irrigation: amend and fertilize the soil appropriately	Irrigation: amend and fertilize the soil appropriately	Irrigation: amend and fertilize the soil appropriately

The concept of disc adjustment, which determines a more or less pronounced intensity of action (referred to as aggressiveness by some operators and as effectiveness by others), is inherently linked to each user's practices and judgement. The settings shown are provided for guidance only and must be adjusted and validated based on the specific conditions of the field to be treated, which may differ from the recommendations given.

Synthetic turf maintenance: decompaction and re-leveling of the infill by brushing

Recommendation:
At least twice a month or after 100 h

Spring	Summer	Autumn	Winter
--------	--------	--------	--------

Synthetic rubber origin				
SBR – Styrene Butadiene Rubber	500	500	500	500
Encapsulated SBR / SBR coated	500	500	500	500
TPE / TPO – Thermoplastic Elastomer	250	250	250	250
BioFlex – depending on density	500/800	500/800	500/800	500/800
Re-leveling brush position	Mid-trolley	Mid-trolley	Mid-trolley	Mid-trolley

Pure synthetic origin				
EPDM – Ethylene Propylene Diene Monomer	300/350	300/350	300/350	300/350
Re-leveling brush position	Mid-trolley	Mid-trolley	Mid-trolley	Mid-trolley

Bio-based plant origin				
Corn cob	400/450	400/450	400/450	400/450
Re-leveling brush position	Mid-trolley	Mid-trolley	Mid-trolley	Mid-trolley
Cork	300	300	300	300
Re-leveling brush position	At the end of the trolley	At the end of the trolley	At the end of the trolley	Mid-trolley
Olive pits	300/400	300/400	300/400	300/400
Re-leveling brush position	At the end of the trolley	At the end of the trolley	Mid-trolley	Mid-trolley

Mineral-based				
Sand and silica	800	800	800	800
Re-leveling brush position	At the front of the trolley	At the front of the trolley	At the front of the trolley	At the front of the trolley

In rainy weather, test tool rotation and possibly increase by 50 to 100 rpm; adjust the brush setting on the trolley, which may differ
 In very cold weather, increase by 100 to 200 rpm; adjust the brush setting on the trolley, which may differ
 In very hot weather, possibly reduce by 50 to 100 rpm depending on the weight of the infill; adjust the brush setting on the trolley, which may differ

