



Greenhouse Maintenance Checklist

Maintaining your greenhouse is crucial for ensuring its safety. This checklist includes essential checkpoints to help you effectively maintain your greenhouse. Keep in mind that there are various types of greenhouses, so not all checkpoints may be applicable to your specific setup. Determine the most suitable order for conducting the checks in advance. If you come across any defects, make sure to repair them promptly and safely, only if you possess adequate knowledge. If you have any uncertainties about a certain aspect, it is advisable to reach out to your greenhouse builder or maintenance company for guidance.

Foundation

Checkpoint	Check	How/what to check	Solution/repair
Subsidence of the foundation	every 5 years	After a rainstorm, check whether any water remains in the gutter. Dirt in one place in the gutter could be a sign of subsidence.	Have the foundation raised or filled out.
Fixation of the top and side wall columns	every 5 years	Check that the nuts and bolts are tight. Also check for any holes, cracks, rust spots or visible reinforcement wire.	Tighten the nuts and bolts. Have any holes, cracks, rust or visible reinforcement wire repaired.
Strength of the concrete poles	every 5 years	Check the concrete piling under the steel columns. Pay special attention to the bracing sections, end sections and the sections around the concrete path. Look for cracks, fractures and rust spots. Tip for fractures: tap the concrete piles; variations in the sound can indicate a fracture.	Have the concrete pole replaced if fractured, or reinforced if cracked.
Strength of the steel foundation poles	every 3 years	Pay special attention to the steel poles at bracing areas and wet spots. Dig out the ground from around the piles and check for rust.	Have the rust removed and treated.

Steel structure

Checkpoint	Check	How/what to check	Solution/repair
Fastening trellis girders	every 3 years	<ul style="list-style-type: none"> • Check that the nuts and bolts are tight. • Check welded joints for cracks. • Pay special attention to the trellis girders on the side of the outer side (or sidewall) of the greenhouse. • Also check a few trellis girders in the middle section. • Check the upper and under beam for corrosion 	Tighten nuts and bolts and have weak welds repaired.
Cross bracing	every year	<ul style="list-style-type: none"> • Check that there are at least two sets of cross bracings per row. • Assess whether the braceings are adequately tensioned at an ambient temperature of 20°. Look at a whole row of braceings at a time; anomalies will stand out. Adequately tensioned means tensioned manually. • Check joints for corrosion/rust. 	Tension the cross braces manually at an ambient temperature of 18°- 20°.

Corrosion in underground cross beams	every 3 years	Check the cross beams under the ground/ground cloth for corrosion. Are the turnbuckle and bolts adequately tightened?	Have the corrosion removed and treated.
Tension of wind bracing in greenhouse deck	every year	<ul style="list-style-type: none"> • Check that there are at least two sets of wind bracings per row. • Check that the wind bracings are tensioned at an ambient temperature of 20°. Adequately tensioned means tensioned manually. • Check that the nuts and bolts are tight. 	Tighten the wind braces or nuts by hand.
Fastening of end gable column to the gutter	every year	<ul style="list-style-type: none"> • Check for any space between the gutter and the gutter support there should be no space between them. • Check the gutter support for cracks. • Check that the connections (bolt/stop) are present and correctly tightened. 	Tighten connections and have any play or cracks repaired.

Aluminium structure

Checkpoint	Check	How/what to check	Solution/repair
Strength of glazing bar-gutter/ridge connection	every year	<ul style="list-style-type: none"> • Check that the glazing bars are still directly opposite each other in the gutter and ridge. • Check the glazing bar's centre-to-centre spacing at the gutter and ridge. • Check for wear or cracks. • Check the gutter edges for deformation. 	Have the glazing bars repaired or the structure reinforced.
Gutter-ridge-gutter joints and trellis-V ridge joint	every year	Check that all connections are still present and tightened. Do this at an ambient temperature of 20° C. Adequately tightened means tightened manually.	Tighten the connection further, if necessary. To keep the greenhouse level, pay attention to how the adjacent caps are placed.
Roof bar connection clamps	every 5 years	<ul style="list-style-type: none"> • Are the ridge (storm) clamps still present and in the right place? • Depending on the type of clamp: check that the nuts are properly tightened and that the lock nuts are still present. 	Tighten the nuts. If the lock nuts are missing, contact your maintenance company.
Gable glacing bars	every 5 years	Are all nuts and bolts present and tightened? Check this at the foundation, base, purlins and gutter/roof corner bar.	Secure the connections. Use lock nuts at the aluminium-steel joint.



Windows and covering

Checkpoint	Check	How/what to check	Solution/repair
Broken glass	every year	Check glass and plastic sheets for cracks.	Have cracked windows or plates replaced.
Temporarily repairs	every year	Replace emergency repairs.	Have repair kits replaced with normal windows.
Check the plastic caps of the end gable bars	every 5 years	Check that the plastic caps are still strong, as sunlight will weaken them.	Replace damaged and degraded strips.

Ventilation system

Checkpoint	Check	How/what to check	Solution/repair
Deformation of push/pull pipes	every 3 years	Check the push/pull pipes for abnormalities, such as deformation or corrosion. Do this close to the motor, at the separation point of the ventilation groups and side wall	Have damaged parts replaced.
Wear and tear on bolt/clamp connections of push rods	every 3 years	Check the connection of the push/pull pipe and rods for wear and for shifting.	Replace worn or rusted bolts or clamps.
Air vents and rods	every 3 years	Check that the vents are intact, secure and in the right place.	Secure the vents in place.
Ventilation adjustment	every year	<ul style="list-style-type: none"> • Check that the vents close properly. • Is the storm mode setting correct, all vents closed? 	Have the ventilation readjusted.
Operation of rack and pinion, air motor	every year	<ul style="list-style-type: none"> • Check the oil level of the ventilation motor and see if you see any grease leaks. • Are the rack and pinions and moving parts running smoothly? 	Follow the manufacturer/supplier's maintenance instructions.

Rainwater drainage

Checkpoint	Check	How/what to check	Solution/repair
 Dirt in gutters and discharge	every year	Are there leaves or dirt in the gutters or discharge?	Sweep the gutters and clean the discharge.
 Operation of rainwater discharge	every 3 years	<ul style="list-style-type: none">• Check that the pipes are straight and attached to the greenhouse wall with a bracket.• As far as possible, check the pipes from the greenhouse to the water storage area.	Fit missing standpipe brackets. Have misalignment and subsidence repaired.

Important: ensure that all checks, inspections, repairs and maintenance work are carried out in accordance with the applicable health and safety regulations applicable in your region.

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