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## **Planting and Pruning Instructions for Selectively Bred Robinia pseudoacacia in Industrial Wood Plantations**

### **Planting Instructions for Robinia pseudoacacia 'Turbo' and 'Turbo Obelisk'**

Planting correctly is essential for the healthy growth and maintenance of your plantation. Follow these clear and concise instructions to ensure successful planting and establishment.

#### **Planting Spacing**

- Correct spacing for proper maintenance & facilitates cultivation between rows.
  - Generally, for producing high quality timber we recommend wide planting spacing of 3x3m or 2x2m layouts.
- **Guidance:** Refer to specific plantation layouts tailored to your intended use

#### **Time of Planting**

- Planting should be completed usually before the end of April (in Hungary) to ensure optimal establishment.



*Planting and the use of marking poles after cutting back to ground level.*

## Planting Instructions

1. **Preparation:**
  - a. Use seedlings or saplings for planting.
2. **Planting Method:**
  - a. Dig a hole with a width and depth roughly the size of a shovel.
  - b. Ensure **5-10 cm of space** remains in the hole beside the roots.
  - c. Place the seedling/sapling centrally and vertically in the hole.
3. **Filling and Positioning:**
  - a. Fill the hole halfway with soil, then gently lift the seedling to ensure the roots are naturally positioned downwards.
  - b. Compact the soil moderately, fill the rest of the hole, and compact again.
  - c. The root collar should sit **about 3 cm below the soil surface**.
4. **Final Steps:**
  - a. Loosely cover the compacted area with additional soil.
  - b. Confirm stability by testing if the seedling stays firmly planted when held with two fingers.
  - c. **Cut Back:** Trim the seedling/sapling **1 cm below the soil surface** immediately after planting.
5. **Watering:**
  - a. Water the planted material once, especially if the soil is dry, to encourage root establishment.

## Post-Planting Care

### *Industrial Pole Wood and Roundwood Production:*

- **Cutting Competitive Shoots:**
  - Conduct this in the **second half of July** to encourage desired growth.

### *Short Rotation Coppice (SRC) Biomass Plantations:*

- Cutting competitive shoots is **not required** for biomass plantations.

By following these steps, you'll ensure a strong start for your plantation, maximizing growth potential and productivity. Proper planting and aftercare are key to achieving long-term success in your forestry endeavors.

## Pruning Instructions for Robinia pseudoacacia 'Turbo' and 'Turbo Obelisk'

### Why Pruning Matters

Pruning plays a critical role in industrial Robinia pseudoacacia plantations. It directly impacts wood quality by minimizing defects such as knots, ensuring the timber meets industrial standards. Proper pruning also supports the long-term health and growth of the trees, maximizing yields and profitability while contributing to sustainable forestry practices.



*Without pruning - forest-like Robinia pseudoacacia population and its wood yield*

### Key Goals of Pruning

1. **Enhance Wood Quality:** Create a thick, knot-free core in the lower trunk and minimize branch-related defects in the middle and upper sections.
2. **Optimize Tree Shape:** Correct forking, crowding, and other growth deformities.
3. **Increase Industrial Value:** Ensure timber is suitable for high-demand uses like sawn lumber, debarked wood, and durable column materials.

### Timing for Pruning

- **Optimal Period:** Between January and the start of new growth, ideally during the waning moon phases.
- **Avoid Green Pruning:** Pruning during active growth increases the risk of fungal infections.
- **Alternative Period:** Approximately two months after leaf fall until the new year.



## Step-by-Step Pruning Instructions



Click to view on Youtube: [Video - Planting, pruning and maintenance - Turbo Obelisk](#)

### **1. Initial Pruning (Years 1-7)**

- **Frequency:** Annually.
- **Goals:**
  - Remove competing leader shoots to promote monopodial growth.
  - Thin dense crowns, reducing crown density from 70% to 50% gradually.
  - Shape the trunk to establish a defect-free core in the lower third.
- **Techniques:**
  - Cut branches near the collar without damaging the trunk.
  - Cut near the main trunk and avoid leaving “coat hangers” sticking out
  - For thick branches, use incremental cuts to prevent splitting.
  - Treat cuts over 2 cm in diameter with wood preservatives (Acrylic acid – ester- styrene copolyme



*Wood preservatives (Hungarian brand, called FAGÉL made of Acrylic acid – ester- styrene copolymer)*

## **2. Maintenance Pruning (After Year 7)**

- **Frequency:** Every 2-3 years.
- **Goals:**
  - Maintain trunk cleanliness and remove large lateral branches.
  - Address excessive lateral crown growth cautiously to avoid over-thinning.
  - For column wood production, cease pruning after 12 years; for log production, stop after 18-20 years.
- **Techniques:**
  - Monitor for "head-heavy" leader shoots, which indicate overpruning.
  - Use careful, staged pruning for crowding-prone varieties to avoid tip breakage.





*Pruning using extendable pole pruning shear and pole saw, incl. the use of fruit-picking ladders*

## Best Practices for Pruning

- **Tools:** Use manual pruning shears, pole saws, and loppers for precision. For heights above 5.5 meters, use aerial work platforms or fruit-picking ladders.
- **Pruning Height:** Up to 5.5 meters manually; extendable to 12 meters with appropriate equipment.
- **Wound Management:**
  - Keep cuts under 4-5 cm in diameter for faster healing.
  - Apply wood preservatives to larger cuts to prevent decay.
- **Crown Maintenance:**
  - Avoid over-thinning beyond 50% crown density.
  - Shorten scaffold branches cautiously to control lateral growth.



*Pruning using long-reach telescopic pruning shears*

## Signs of Overpruning

- Formation of "head-heavy" leader shoots during spring growth.
- Weak, prone-to-breakage shoots that require corrective pruning.

## Summary

Pruning selectively bred *Robinia pseudoacacia* is essential for achieving high-quality industrial timber and sustaining long-term plantation productivity. Following these guidelines ensures healthy growth, minimizes defects, and enhances profitability, making pruning an indispensable practice in plantation forestry.



*Well pruned Turbo Obelisk plantation*