

PRESCRIPTION 25

PLANTING PRESCRIPTION (V2009)

Objective: To plant trees to allow early and even growth with best possible survival.

Co-ordinator:		Spacing:		
Date:		Between rows	Within rows	Stocking (spha)
Contractor:		m	m	
Forest:	Stand:	Spade Type: ATLAS or similar - min blade length of 28 cm		
Area:	ha	Stock code(s)		

Site Specific Requirements (also refer General Requirements)

Water tables on road edge	Yes/No	Do not plant 2 horizontal metres of water tables on road edges.
Permanent water courses	Yes/No	
External boundary fence	Yes/No	
Live power lines	Yes/No	Do not plant within 30 horizontal metres off power line on prevailing upwind side and 20 horizontal metres downwind or downslope.
Internal fences	Yes/No	
Access tracks	Yes/No	
Restricted areas	Yes/No	

Additional Prescription Requirements

Potential production thinning, water supplies, line directions, screefing, hard hats

General Requirements

- 1) Pre-Operation Physical Hazard Identification:** Co-ordinator will list all the known physical hazards for each stand. After the consultation with Co-ordinator, convey those physical hazards together with operational hazards to the employees.
- 2) Quality Assessment (quality check by the Contractor):** Carry out Quality Assessment to make sure that all the requirements defined in this Prescription and Specifications are met. Keep the Record, and supply the Record to the Company. The Record will be required for payment.
- 3) POAC:** Complete and submit a POAC to the Forest Co-ordinator by the end of monthly measure-up.
- 4) Make sure all employees understand and meet the following;** a) This Prescription and Job Specifications for Planting, b) Forest Operations Handbook, Pan Pac Forest Products, c) OSH Approved Code of Practice for Safety and Health in forest operations, d) Environmental Rules and Guidelines, Pan Pac Forest Products (particularly Section *Planting*)

Operational Guidelines

- 1) Select a good site, keeping the planting rows as straight as possible.
- 2) Follow the Planting techniques demonstrated by Forest Co-ordinator at the start of the planting season, and as defined as follows;
 - a) Holding the spade along the line you are travelling, make a cut approximately 5cm into soil (this is where the seedling will be planted after cultivation). On bare soil cutover sites this step may not be necessary.

- b) Come back 10-15cm from this cut and with the spade across the line, make a cut, pull back the spade handle to an angle of approximately 45° to cultivate to a **minimum** depth of 25cm
NOTE: On steep sites, facing across the slope to make the planting hole will insure the soft cultivated soil will not roll down the hill.
- c) Go forward approximately 30cm from this cut and make another cut, push the spade away from you to an angle of approximately 45°, to cultivate to a depth of 25cm.
- d) With the spade held the same way open a planting hole in the middle of the cultivated soil to the depth of cultivation, by pushing the spade into the soil and pushing away to an angle of approximately 45°.
- e) While at this angle push the spade a little further into the soil, then pull it back to a vertical position. You will have to repeat this to open a hole large enough to get the roots in comfortably.
- f) Do not remove more than one tree for the carton at planting. Also do not carry more than one tree in the hand when planting.
- g) With the spade holding the soil back, place the seedling's roots down into the bottom of the hole.
- h) Remove the spade and gently replace some loose soil (**do not firm the soil**). Give the tree a pull up of approximately 10cm to straighten any distorted roots and ensure the nursery collar will be 3-5cm below ground level. The roots of the tree must be in mineral soil.
- i) With the tree held straight, replace removed soil and firm with the sole of your boot (be careful not to damage the tree).
- j) Check the tree is straight and firm in the soil with the nursery collar below ground level. Move to the next site.
- 3) Keep record of daily tree stock usage by filling Pan Pac's "Contractor Planting Tallies" sheet. The record will be required for payment.
- 4) Common planting faults are listed below. Additional costs associated with planting faults and resulting re-work (e.g. seedling cost, plotting cost) will be charged to the Contractor.

Cultivation	Any tree not planted in the centre of a cultivated zone of 25 cm deep, a width of an Atlas spade and a length of 25 cm as a result of spade placement during planting.
Damage	Any stripping or damage to the needles or bark on the stem or roots.
Depth	Tree planted greater than or less than 3-5cm above the nursery collar or the roots are not in mineral soil.
Loose trees	If the tree is given a gentle but firm pull or pushed mid stem and it moves, the tree is too loose.
Roots	Any tree root twisted up or to the side, or its roots are squashed tight together as a result of poor planting technique.
Site selection	The tree is not planted in the best site within a 1-metre radius of the specified planting site and preferably planted within the tree row. See also section 3 of the Planting Specifications.
Spacing	Any row varying more than one metre from the specified row spacing. Any tree varying more than half a metre from the specified spacing, for no reason. This will also include unplanted spot cultivated sites
Vertical	(Not straight) - Top of tree when planted varies more than 10cm from vertical.
Understocking	The acceptably planted trees per plot have a stocking less than 775 for prescribed stocking of 833 spha, less than 750 for prescribed of 800 spha, and less than 950 for prescribed stocking of 1000 spha.
Overstocking	In the event of an area being planted at 10% greater than the prescribed stocking rate, the Contractor may be charged for extra trees used.

Signed by:

Forest Co-ordinator:

Contractor:

Date:
