

0252P LAWN SOLUTIONS IN LANDSCAPE – NATURAL GRASS SURFACES**Branded worksection**

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Worksection abstract

This branded worksection *Template* is applicable to turfing with certified Lawn Solutions Australia turf. It also includes grass seeding, hydroseeding and hydromulching, stolonising, and temporary grassing.

Background

Refer to NATSPEC TECHnote DES 028 on grass seeding and turfing and NATSPEC TECHnote DES 029 on native grass lawns.

Guidance text

All text within these boxes is provided as guidance for developing this worksection and should not form part of the final specification. This *Guidance* text may be hidden or deleted from the document using the NATSPEC Toolbar or the hidden text *Hide* and *Delete* functions of your word processing system. For additional information visit FAQs at www.natspec.com.au.

Optional style text

Text in this font (blue with a grey background) covers items specified less frequently. It is provided for incorporation into *Normal* style text where it is applicable to a project.

Related material located elsewhere in NATSPEC

If a listed worksection is not part of your subscription package and you wish to purchase it, contact NATSPEC.

Related material may be found in other worksections. See for example:

- *0221 Site preparation.*
- *0222 Earthwork.*
- *0253 Landscape – planting.*
- *0254 Irrigation.*
- *0262 External sport and playground surfaces.*

Cross references

Worksections that cross reference this worksection are:

- None.

Material not provided by Lawn Solutions Australia

This branded worksection includes generic material which may not be provided by the Product Partner including grass seeding, hydroseeding, hydromulching and stolonising.

Documenting this and related work

You may document this and related work as follows:

- This worksection relies on fully detailed landscape drawings.

The *Open* text of this worksection may refer to items as being documented elsewhere in the contract documentation. If required, make sure they are documented.

Specifying ESD

The following may be specified using included options:

- Manual or other non-toxic method of weed eradication.
- Temporary grassing at stockpiles and earthworks to minimise erosion.

The entire worksection is oriented towards ESD. Refer to the NATSPEC TECHreport TR 01 on specifying ESD.

1 GENERAL

Lawn Solutions Australia is a wholly Australian owned and operated business with Australia's leading group of accredited turf growers coming together under a single banner to offer a range of exclusive turf brands and turf related products across a comprehensive national network.

Lawn Solutions Australia is setting a new benchmark for best practice in the turf industry with our industry-leading accreditation system. All our growers are AusGAP certified and adhere to the same stringent, nationally endorsed standards.

1.1 RESPONSIBILITIES

General

Requirement: Provide natural grass surfaces, with certified Lawn Solutions Australia turf variety, as documented.

Documented is defined in 0171 General requirements as meaning contained in the contract documents.

1.2 COMPANY CONTACTS

Lawn Solutions technical contacts

Website: www.lawnsolutionsaustralia.com.au/contact.

1.3 CROSS REFERENCES

General

Requirement: Conform to the following:

- 0171 General requirements.

0171 General requirements contains umbrella requirements for all building and services worksections.

List the worksections cross referenced by this worksection. 0171 General requirements references the 018 Common requirements subgroup of worksections. It is not necessary to repeat them here. However, you may also wish to direct the contractor to other worksections where there may be work that is closely associated with this work.

NATSPEC uses generic worksection titles, whether or not there are branded equivalents. If you use a branded worksection, change the cross reference here.

- 0251 Landscape – soils.
- [complete/delete]

1.4 MANUFACTURER'S DOCUMENTS

Technical manuals

Website: www.lawnsolutionsaustralia.com.au/specifiers.

1.5 SUBMISSIONS

Execution details

Program: Submit a work program in the form of a bar chart, for the natural grass surfaces landscape works.

Maintenance program: Submit a proposed maintenance program.

Material storage on site: Submit proposal.

Delete these requirements if documented elsewhere in the specification.

Products and materials

Supplier's data: Submit supplier's data including the following:

- Material source of supply.
- Evidence of experience in supply of the required material.
- Production capacity for material of the required type and quantity.
- Lead times for delivery of material to the site.
- Evidence of AusGAP certification.

Samples

General: Submit representative samples of each material, packed to prevent contamination and labelled to indicate source and content.

Samples schedule

Item	Quantity

Item: and Quantity: List any required samples or quantities.

Samples are used to evaluate the quality of the proposed material. Rejection of the sample may result in the rejection of the whole of the material.

Warranties

General: Submit the Lawn Solutions Australia turf warranty.

Lawn Solutions turf is covered by Australia's first 10-year product warranty, when supplied by an AusGAP certified Lawn Solutions Australia grower.

1.6 INSPECTION

Notice

Inspection: Give notice so that inspection may be made of the following:

- Clearing completed.
- Setting out completed.
- Grassing bed prepared before turfing, seeding, or temporary grassing.
- Grassing or turfing completed.

Amend to suit the project adding critical stage or mandatory inspections required by legislation or regulation.

Hold points, if required, should be inserted here.

2 PRODUCTS

2.1 GENERAL

Product substitution

Other products: Conform to PRODUCTS, **GENERAL**, **Substitutions** in *0171 General requirements*.

0171 General requirements clause sets out the submissions required if the contractor proposes alternative products. Refer also to NATSPEC TECHnote GEN 006 for more information on proprietary specification.

2.2 LAWN SOLUTIONS AUSTRALIA TURF

Lawn Solutions provides a range of turf types to suit all situations. The choice of turf type is dependent on a range of factors, including levels of wear and usage, climatic and site conditions, and appearance. Finding the best lawn for each situation may involve a trade-off between functionality, appearance and performance.

General

Description: Lawn Solutions Australia certified variety. Cultivated turf of even thickness, free from weeds and other foreign matter.

Supplier: Lawn Solutions Australia certified turf supplier.

Turf certification program: AusGAP – the Australian turf certification system.

AusGAP – the Australian turf accreditation system – has been created to provide consumers with assurance that their turf adheres to a national set of quality standards.

The AusGAP accreditation system provides assurance of the genetic purity of a turf-grass variety where appropriate and that the production, delivery and installation process is undertaken to the highest industry standards. AusGAP incorporates the International Turfgrass Genetic Assurance Program (ITGAP), a quality assurance program used throughout the USA and other parts of the world.

Turf varieties

Sir Walter Buffalo Lawn®: DNA certified, warm season grass with a coarse texture and dense growth, very high drought tolerance, high shade tolerance and high wear resistance.

Uses: Residential and commercial lawns, parks and recreation areas.

Nullarbor Couch™: Warm season grass with a fine to medium texture and dense, low growth, high drought tolerance and high wear resistance.

Uses: Residential and commercial lawns, golf courses, sports fields and parks and recreation areas.

Eureka Kikuyu™: Warm season grass with a fine texture and high growth rate, moderate drought tolerance and moderate wear resistance.

Uses: Residential lawns, golf courses, sports fields and large commercial areas.

Platinum Zoysia™: Warm season grass with a fine to medium texture and dense growth, moderate drought tolerance and slow growth rate.

Uses: Residential and commercial lawns in hot, humid and tropical climates.

RTF Fescue®: Cool season grass with a fine texture and dense growth, poor drought tolerance and moderate wear resistance.

Uses: Residential and commercial lawns, golf courses, sports fields and parks and recreation areas in cool, temperate climates.

2.3 OTHER GRASS TYPES

Seed mixtures

Description: Fresh, clean, uncoated new seed, thoroughly pre-mixed with a bulking material such as safflower meal.

Unacceptable seed: Wet, mouldy, or otherwise impaired.

Purity (minimum): 98%.

Germination viability (minimum): 86%.

Age (maximum) from date of harvest: 2 years.

Handling: Deliver to the site in bags marked to show weight, seed species and supplier's name.

Refer to NATSPEC TECHnote DES 028 for guidance on the selection of grass seed mixes and NATSPEC TECHnote DES 029 for native grass lawns.

Hydroseeding mixture

Description: A slurry of seed mixture, fertiliser, binder and water.

Supplier: A specialist supplier of prepared slurry mixture.

Alternatively the fertilizer may be applied as a separate application.

Stolons

Description: A slurry of seed mixture, fertiliser, binder, mulch and water.

Supplier: A specialist supplier of prepared slurry mixture.

Hydroseeding and hydromulching are alternatives. Edit the above and the schedule as required.

Hydromulching mixture

Description: Well established fibrous runners 50 to 100 mm in length, with minimum green leaf material.

Supplier: A specialist grower of cultivated turf.

Grass reinforcing

Description: Lightweight interlocking plastic cellular paving system suitable for pedestrian and occasional vehicular traffic including emergency vehicles.

Product: [complete/delete]

2.4 FERTILISER

General

Description: Proprietary fertilisers, delivered to the site in sealed bags marked to show manufacturer or vendor, weight, fertiliser type, N:P:K ratio, recommended uses and application rates.

Fertiliser schedule

Property	A	B	C
Location			
N:P:K ratio			
Application rate			

A, B, C: These designate each instance or type or location of the item scheduled. Edit to align with the project's codes or tags.

Edit codes in the **Schedule** to match those on drawings.

Location: Refer following example.

N:P:K (Nitrogen:Phosphorus:Potassium) ratio and application rate: N:P:K ratios and application rates vary greatly depending on conditions of use. The following are for example only. Obtain specialist advice. Proprietary fertilizers meeting the requirements may be documented. Consult manufacturers for suitable application rates.

Location	N:P:K ratio
Hydroseeding	11:34:11
Temporary grassing	10:4:6
Turfing	8:7:5 average
Grassing at time of sowing	11:34:11
Grassing after germination	10:4:6
Stolonised areas	11:34:11

3 EXECUTION

3.1 PREPARATION

Existing grass removal

Herbicide: Spray existing grass with a non-residual glyphosate herbicide in any registered formulae, at the recommended maximum rate.

Manual removal: A minimum 2 weeks after application of herbicide remove existing grass layer.

Weed eradication

Herbicide: Eradicate weeds using environmentally acceptable methods, including a non-residual glyphosate herbicide in any registered formulae, at the recommended maximum rate.

Manual weeding: Remove weed growth throughout grassed areas.

Weed eradication schedule

Weed type	Acceptable eradication method or treatment	Unacceptable eradication method or treatment

Specify acceptable (and unacceptable) methods if there is heavy infestation of particular weed types (especially if they are noxious weeds). Manual removal is preferred when practical.

Vegetative spoil

Disposal: Remove vegetative spoil from site. Do not burn.

Burning destroys soil bacteria. Avoid if possible. Check with local authority regarding burning before permitting. If vegetative spoil is not to be chipped and reused it should be removed from the site.

Soil preparation

Subsoil: To *0251 Landscape – soils* EXECUTION, **SUBSOIL**.

Site topsoil or imported topsoil: To *0251 Landscape – soils* EXECUTION, **TOPSOIL**.

Or import text from *0251 Landscape – soils* for subsoils and topsoils for stand-alone projects.

Levelling: Remove any debris and level and shape the dry soil surface. Allow maximum 30 mm set-down to hard surfaces for turf and stolons.

Fertiliser

Soil improvement: Spread the fertiliser evenly over the cultivated bed a maximum 48 hours before placing grass as follows:

- Grass seed: Rake lightly into the surface.
- Turfing and stolonising: Mix the fertiliser thoroughly into the topsoil before placing the turf or stolons.

Delete if using hydroseeding or hydromulching with fertiliser in the slurry mix.

3.2 LAWN SOLUTIONS AUSTRALIA TURFING

Supply

Elapsed time: Deliver the turf within 24 hours of cutting, and lay within 36 hours of cutting. Prevent turf from drying out between cutting and laying. If not laid within 36 hours of cutting, roll turf out on a flat surface with the grass up, and water as required to maintain a good condition.

Application

General: To the **Turfing schedule**.

Method: Lay the turf as follows:

- Stretcher bond pattern with the joints staggered and close butted.
- Parallel with the long sides of level areas, and with contours on slopes.
- Finish flush, after tamping, with adjacent finished surfaces of ground, paving edging, or grass seeded areas.

Strip turf: Close butt the end joints and space the strips 300 mm apart. Lay top dressing between the turf strips. Finish with an even surface.

Tamping: Lightly tamp to an even surface immediately after laying or roll with a light roller on completion.

Stabilising on steep slopes: Peg the turf to prevent downslope movement. Remove the pegs when the turf is established or use bio-degradable pegs.

Watering

General: Water immediately after laying until the topsoil is moistened to its full depth. Maintain moisture to this depth.

Establishment

General: Maintain turfed areas until there is a dense continuous sward of healthy grass over the whole turfed area, evenly green and of a consistent height.

Failed turf: Lift failed turf and replace with new turf.

Levels: If levels have deviated from the design levels after placing and watering, lift turf and regrade topsoil to achieve design levels.

Fertiliser: Apply lawn fertiliser at the completion of the first and last mowing, and at other times as required to maintain healthy grass cover. Water immediately after applying fertiliser to prevent leaf burn.

Mowing: Mow to maintain the grass height within the required range. Do not remove more than one third of the grass height at any one time. Carry out the last mowing not more than 7 days before the end of the planting establishment period.

Edit if removal of grass clippings is required.

Top dressing: Mow the established turf and remove cuttings. Lightly top dress to a depth of 10 mm. Rub the dressing into the joints and correct any unevenness in the turf surface. Leave at least third of the grass height showing through topsoil.

3.3 GRASS SEEDING**Preparation**

General: If a prepared area becomes compacted before sowing can begin, rework the ground surface before sowing.

Application

General: To the **Grass seeding schedule**.

Ambient conditions: Do not sow in periods of extreme heat, cold or wet, or when wind velocities exceed 8 km/h or if frost is likely before the grass is established.

Grass seeding: Evenly distribute the seed using purpose made sowing machinery. Lightly rake the surface to cover the seed.

Rolling: Roll the seed bed immediately after sowing.

- Roller weight (maximum):
- Clay and packing (heavy) soils: 90 kg/m width.
- Sandy and light soils: 300 kg/m width.

Reseeding: If germination has not occurred within one month, reseed the sown areas.

Reseeding mixture: [complete/delete]

e.g. the original seed mixture or a modified mixture.

Watering

Identify special requirements for areas such as steep embankments and broad scale sites where germination is to be by rainfall only.

Before germination: Water the seeded area with a fine spray until the topsoil is moistened to its full depth. Until germination, keep the surface damp and the topsoil moist but not waterlogged.

After germination: Water to maintain a healthy condition, progressively hardened off to the ambient climatic conditions.

Establishment

General: Maintain sown areas until there is a dense continuous sward of healthy grass over the whole of the seeded area, evenly green and of a consistent height.

Protection: Protect the newly sown areas against traffic until established.

Protection method: [complete/delete]

e.g. Temporary fencing.

Weeding: Remove weeds from the sown areas. If required spray with a selective herbicide for broad leaved weeds. Do not spray grass seeded areas within 3 months of germination.

Fertilising after germination: As follows:

- Six weeks after germination: Spread fertiliser evenly over the sown area and water in. Do not apply fertiliser to wet grass.
- Ten weeks after germination: If the planting establishment period occurs during the summer months, spread pelleted sulfate of ammonia at the rate of 250 kg/ha.

Vary the type and timing of the post-sowing application as necessary. Sulfate of ammonia may be required more frequently in warm wet conditions. Sulfate of ammonia is not suitable for clover.

Mowing: Mow to maintain the grass height within the required range. Do not remove more than one third of the grass height at any one time. Carry out the last mowing not more than 7 days before the end of the planting establishment period. Remove grass clippings from the site after each mowing.

Removal of grass clippings may not be required - it results in depletion of fertility. Edit if removal not required.

3.4 HYDROSEEDING AND HYDROMULCHING

Hydroseeding and hydromulching are alternatives. Edit the text below and the schedule as required.

Mix application rates

Seed mixture: The rate applicable to the mix type.

Mulch: At least 2.5 t/ha with seed, or 5 t/ha without seed.

Fertiliser type and application rate: [complete/delete]

Refer to the **Fertilizer schedule**. The fertiliser may be included in the slurry mix or applied separately on site. If applied separately delete from here.

Binder:

- Bitumen emulsion: 2000 L/ha of residual bitumen.
- Polymer: 250 L/ha.

Water: Suitable for the site conditions, and sufficient to assist in the distribution of the seed, fertiliser and mulch.

Preparation

Bed: Scarify the area for seeding and provide a firm friable seed bed. Place any topsoil before scarifying.

Application

General: To the **Hydroseeding and hydromulching schedule**.

Method: Apply as follows:

- Moisten the topsoil to full depth before applying the slurry.
- Spray the slurry mixture under pressure, using high pressure pumping equipment.
- Maintain a thoroughly mixed supply.
- Evenly distribute the slurry mixture along the operating front.
- Complete each front before starting the next.

Watering

Before germination: Water the seeded area with a fine spray until the topsoil is moistened to its full depth. Until germination, keep the surface damp and the topsoil moist but not waterlogged.

After germination: Water to maintain a healthy condition, progressively hardened off to the ambient climatic conditions.

3.5 STOLONISING

Preparation

General: Moisten topsoil to full depth.

Supply

Elapsed time: Deliver stolons to the site within 24 hours of harvesting, and plant within 36 hours of arrival on site. Prevent stolons from drying out between harvesting and planting.

Application

General: To the **Stolons schedule**.

Method: Using a disk sprigger or row planter, mechanically sprig the stolons into the prepared soil to a minimum depth of half the stolon length, at maximum centre to centre spacings of 150 mm in both transverse directions over the whole of the planting area, and extending 1 m into adjacent grassed areas.

Stimulant: Three days after planting, spray with hormone root growth stimulant.

Binding: Immediately after planting in erosion areas, including slopes and drainage swales, spray with binder at the rate of 250 L/ha.

Watering

General: Water thoroughly on completion of planting. Keep the topsoil moist to full depth.

Establishment

General: Replant areas that fail to grow.

3.6 TEMPORARY GRASSING

Preparation

General: If a prepared area becomes compacted before sowing begins, rework the ground surface before sowing.

Application

General: To the **Temporary grassing schedule**.

Method: Evenly distribute the seed using purpose made sowing machinery. Lightly rake the surface to cover the seed.

Cover crop density: Sufficient to hold the soil and prevent erosion.

Minimum coverage: No bare areas greater than 50 mm in diameter to 90% of the documented area, and no bare areas greater than 200 mm to 100% of the area.

Reseeding: Reseed areas where the seed fails to germinate within three weeks of the date of original sowing, and within 3 months where required densities have not been met. Continue to reseed at minimum monthly intervals with an additional soil preparation as required, until required densities are met.

Watering

General: Immediately after sowing, water to a depth of 100 mm. Continue watering to obtain germination and establish grass.

After establishment: Water as required to maintain seed material in a healthy condition.

Establishment

General: Maintain temporary grassing areas until no longer required.

Weeding: Remove weeds that emerge in newly established hydroseeded/hydromulched areas.

Reseeding: Reseed over the course of the contract to maintain required densities.

3.7 GRASS REINFORCING

Installation

Preparation: Excavate to required levels and compact subgrade.

Base course: Place and compact either of the following:

- Non calcareous free draining washed sand comprising 80% 0.1 mm to 1.0 mm grading.
- 1.0 mm to 5.0 mm gravel aggregate.

Base course depth:

- Pedestrian walkways: 100 mm.
- Passenger vehicles: 150 mm.
- Heavy vehicles: 250 mm.

Growing media: 80:20 (sand:organic sandy soil) mix.

Pavers: Place and interlock grass pavers on base course and spread growing media over pavers to heights as follows:

- Turf: 5 mm.
- Hydroseeded: 15 mm.

Protection: Exclude traffic until the root system becomes established and anchored to the base course.

3.8 COMPLETION

Existing grass

General: Where existing grass is within the landscape contract area, maintain it as for the corresponding classifications of new grass.

Grassed areas

Maintenance: Start grass maintenance works at the completion of sowing, hydroseeding and turfing. Maintain healthy weed-free growth.

Delete these requirements if documented elsewhere in the specification.

Log book

Records: Keep a log book recording when and what maintenance work has been done and what materials, including toxic materials, have been used. Make the log book available for inspection on request.

Delete these requirements if documented elsewhere in the specification.

4 SELECTIONS

Schedules are a way of documenting a selection of proprietary or generic products or systems by their properties. Indicate their locations here and/or on the drawings. Refer to NATSPEC TECHnote GEN 024 for guidance on using and editing schedules.

4.1 LAWN SOLUTIONS AUSTRALIA TURFING

Turfing schedule

Property	A	B	C
Location			
Variety			
Minimum thickness			
Turf roll size (mm)			
Mowing height (mm)			

A, B, C: These designate each instance or type or location of the item scheduled. Edit to align with the project's codes or tags.

Edit codes in the **Schedule** to match those on drawings.

Location: Or show on the drawings.

Variety: Select from the following Lawn Solutions turf grasses:

- Sir Walter Buffalo Lawn®.
- Nullarbor Couch™.
- Eureka Kikuyu™.
- Platinum Zoysia™.
- RTF Fescue®.

Turf roll size: e.g. 1000 x 300 mm.

Mowing height: Mowing height will vary depending on species and local conditions. Generally lawn heights range between 25 to 50 mm.

4.2 OTHER GRASSING TYPES

Grass seeding schedule

Property	A	B	C
Location			
Seed species mix			
Application rate (kg/ha)			
Sowing method			
Mowing height (mm)			

A, B, C: These designate each instance or type or location of the item scheduled. Edit to align with the project's codes or tags.

Edit codes in the **Schedule** to match those on drawings.

Location: Or show on the drawings.

Seed species mix and Application rate: Refer to NATSPEC TECHnote DES 028 for typical examples. Identify and describe each of the grass seed mixes to be used in the project, whether for sowing, hydroseeding, temporary grassing, etc.

For guidance on green roof and wall plant species selection, see Rural Industries Research and Development Corporation (RIRDC) *Living Wall and Green Roof Plants for Australia*.

Sowing method: Specify any particular requirements additional to those in the worksection, or delete this column. The method may comprise broadcast sowing in two transverse directions, or row sowing, etc., depending on the equipment used and the conditions.

Mowing height: Different for non-irrigated and irrigated grasses. 30 mm for stoloniferous grasses, 75 to 150 mm for species with coarse growth, such as Oats or Rye. Mowing may not be possible on steep banks and may not be desirable where seed mix includes species with coarse growth.

Hydroseeding and hydromulching schedule

Property	A	B	C
Location			
Seed mix type			
Mulch type			
Slurry type			
Water application rate (L/ha)			
Binder type and rate			
Mowing height (mm)			

A, B, C: These designate each instance or type or location of the item scheduled. Edit to align with the project's codes or tags.

Edit codes in the **Schedule** to match those on drawings.

Location: Or show on the drawings.

Seed mix and type: e.g. one of the types (A, B, etc.) from the Grass seeding schedule. May include other than grass seeds (e.g. shrubs and trees).

Mulch type: e.g. straw, fibre.

Slurry type: Either Hydroseeding mixture or Hydromulching mixture. The materials may be applied in one or several combinations to suit particular requirements.

Water application rate: The rate will vary according to site conditions, availability and coverage. Delete if the rate is to be determined by the contractor for the conditions at the time.

Binder type and rate: Specify a binder if required (e.g. on steep slopes or areas exposed to high winds) or write Not applicable. The binder may be applied separately or as part of the mixture.

Mowing height: Different for non-irrigated and irrigated grasses. 30 mm for stoloniferous grasses, 75 to 150 mm for species with coarse growth, such as Oats or Rye. Mowing may not be possible on steep banks and may not be desirable where seed mix includes species with coarse growth.

Stolons schedule

Property	A	B	C
Location			
Species or variety			
Stimulant			
Mowing height (mm)			

A, B, C: These designate each instance or type or location of the item scheduled. Edit to align with the project's codes or tags.

Edit codes in the **Schedule** to match those on drawings.

Location: Or show on the drawings.

Stolonizing on slopes greater than 1:3 is not recommended.

Temporary grassing schedule

Property	A	B	C
Location			
Seed species mix			
Application rate (kg/ha)			

A, B, C: These designate each instance or type or location of the item scheduled. Edit to align with the project's codes or tags.

Edit codes in the **Schedule** to match those on drawings.

Location: e.g. stockpiles and earthworks to minimise erosion and weed invasion or show on the drawings.

Seed species mix: Select seed mix based on the required period of cover. Generally use only annual grasses, particularly where areas will be permanently planted later.

REFERENCED DOCUMENTS

The following documents are mentioned only in the **Guidance** text:

NATSPEC DES 028	2012	Grass seeding and turfing
NATSPEC DES 029	2013	Native grass lawns
NATSPEC GEN 006	2007	Product specifying and substitution
NATSPEC GEN 024	2015	Using NATSPEC selections schedules
NATSPEC TR 01	2016	Specifying ESD
RIRDC	2012	Living wall and green roof plants for Australia