

SECTION 10 PAVEMENT ANCILLARIES

1 GENERAL

1.1 RESPONSIBILITIES

General

General: Provide channels, kerbs and linemarking.

Selections: Conform to **Execution**.

1.2 CROSS REFERENCES

General

Requirement: Conform to the following:

- *General Requirements*;
- *Site Management*;
- *Earthwork*; and
- *Pavement Base and Subbase*.

1.3 INTERPRETATION

Definitions

General: For the purposes of this worksection the definitions of AS 1348 and those given below apply.

- Absolute level tolerance: Maximum deviation from design levels.
- Relative level tolerance: Maximum deviation from a 3 m straightedge laid on the surface
- Channels and kerbs: Includes all forms of concrete gutters, dish drains, grated drains and mountable median and barrier kerbing.

The Definitions subclause can be edited to suit the project or deleted if not required.

1.4 SUBMISSIONS

Linemarking materials

General: Submit NATA Registered Laboratory Test Reports, at least seven days before work is scheduled to commence, on the properties of the materials, including paint.

2 PRODUCTS

2.1 MATERIALS

Concrete

Standard: To AS 1379 – Grade N20.

Pavement marking paint

Standard: To AS 4049.1, AS 4049.3 and AS 4049.4.

3 EXECUTION

3.1 LINEMARKING

Setting out

General: Set out the work to ensure that all markings are placed in accordance with the drawings.

Surface preparation

Surface: Clean, dry and free of any deposit which may impair adhesion of the paint finish.

Wet weather: Do not apply pavement marking during wet weather or if rain is likely to fall during the process or paint drying time.

Scabbling: Scabble the full area of concrete wearing surfaces to raised pavement markers and remove fine mortar material.

Provision for traffic: Allow for traffic during application and protect pavement markings until the material has hardened sufficiently to carry traffic without damage.

Mixing of paint: Mix all paint in its original container before use and produce a smooth uniform product consistent with the freshly manufactured product.

Application of paint

Longitudinal lines: Spray all longitudinal lines with a self propelled machine. Spray concurrently the two sets of lines forming a one-way or two-way barrier line pattern.

Hand spraying: Hand spray transverse lines, symbols, legends, arrows and chevrons with templates.

Paint thickness: Uniform wet film thickness: ≥ 0.35 mm to ≤ 0.40 mm.

Pavement markings: Straight or with smooth, even curves where intended.

Edges: Clean with a, sharp cut off. Remove any marking material applied beyond the defined edge of the marking and leave a neat and smooth marking on the wearing surface of the pavement.

Tolerances

Longitudinal line lengths: Do not vary by more than 20 mm from the lengths shown in AS 1742.2.

Longitudinal line widths: Do not vary by more than 10 mm from the widths shown in AS 1742.2.

Transverse line lengths and widths: Do not vary by more than 10 mm from the lengths and widths shown in AS 1742.2.

Dimensions: Do not vary the dimensions of arrows, chevrons, painted medians, painted left turn islands and speed markings by more than 50 mm from the dimensions shown on the drawings or in AS 1742.2 as appropriate. Place arrows and speed markings square with the centreline of the traffic lane.

Removal of pavement markings

General: Remove pavement markings, no longer required, from the wearing surface of pavements without significant damage to the surface.

3.2 CHANNELS AND KERBS

Foundation preparation

Foundation material: Shape and compact to form a firm base before placing any kerb and/or gutter.

Construction not on a pavement course: Relative compaction To AS 2876.

Construction on a pavement course: To the requirements of the *Pavement base and subbase* worksection.

Standard: Construct kerb and/or gutters in fixed forms, by extrusion or by slip forming to AS 2876

Foundation, concrete quality, curing and testing details: To AS 2876.

Tolerances

Design level deviation at any point on the surface of gutters: ± 10 mm.

Surface deviation to top or face of kerbs, and to the surface of gutters: 5 mm in 3000 mm.

Design alignment deviation: 25 mm.

Exception: Kerb laybacks, grade changes or curves, or at gully pits requiring gutter depression.

Joints

Standard: To AS 2876.

Concrete pavement: Where kerbs and/or gutters are cast adjacent with a concrete pavement the same type of contraction, construction and expansion joints specified in the concrete pavement shall be continued across the kerb and/or gutter.

Backfill

Timing: Not earlier than three days after placing kerb and gutter concrete, backfill and reinstate the spaces on both sides of the kerb and/or gutters.

Material: Granular material, free of organic material, clay and rock in excess of 50 mm diameter.

Compaction: Compact backfilling in layers not greater than 150 mm thick, to a relative compaction of 95% when tested in accordance with AS 1289.5.4.1, for standard compactive effort.

Pavement: Backfill pavement material adjacent to new gutter in accordance with the drawings and the *Pavement Base and Subbase* worksection.

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