



Fluted Poles & Ground Socket

Pole

The Signfix Fluted Pole is extruded from strong structural grade 6061 T5 or T6 aluminium and supplied with white PVC caps. They are finished with a maintenance free white polyester powder coating making them ideal for coastal locations and are deemed to comply with the impact requirements, for Small Signs, of Clause 9.1 of NZTA P24:2008 Performance Based Specification for Traffic Signs as listed in the RSMA Compliance Standard for Traffic Signs:2008. When used with our Anti-Rotational Clips, Ground Sockets and Channel Systems, they are designed to eliminate sign rotation.

The Fluted Poles, PVC Pole Caps and purpose made aluminium Ground Sockets complete the Signfix Frangible Aluminium Pole System and when correctly installed, meet the requirements of NZTA P24 and the RSMA Standard for Traffic Signs. Furthermore, the total Signfix Sign Support System which includes the Channel System, Brackets, Clips, Poles and Ground Sockets, exceeds the structural and design life requirements of AS/NZS1170. Pole selection charts are published in Appendix B of the Standard (www.rsma.org.nz).

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- Poles are light and easy to handle and convenient to transport.
- Pole sizes are standard allowing all available bracket types to fit.
- Aluminium frangible poles size for size are comparable in strength with steel equivalents.
- Manufactured from marine grade alloy poles will remain maintenance free.
- Poles are easy to install with no specialist equipment required.
- Frangibility is multi-directional.
- In the event of damage poles can be easily removed and replaced using existing foundations
- The alloy has the following characteristic properties:
- $f_y = 255 \text{ MPa}$
- $f_u = 295 \text{ MPa}$
- % elongation to failure = 7% over a gauge length of 50mm or 5.65/A



Ground Socket

The Signfix Ground socket is manufactured from strong structural grade 6261 T5 or T6 alloy with Stainless Steel T304 security locking screws to retain the post. All ground sockets are powder coated to prevent corrosive attack of the aluminium by the concrete. Ground Sockets should be installed with no more than 30-60mm showing above ground level. Security locking screws should be orientated in the direction of the sign face and torqued to 18Nm². Non-standard lengths are available to suit specific design requirements. All ground sockets supplied are fitted with a cap on the base. The cap acts as a pole stop and provides a significant advantage for installers as it prevents concrete from entering the socket when it is being positioned in the foundation.

The Signfix Ground Socket is a purpose made product with a wall thickness of 5mm which prevents damage to the socket wall in accident situations - facilitating simple pole replacement. The ground socket for the 114mm diameter fluted poles have a raised internal wedge that the pole flute slides into to counter pole rotation. Signfix Ground Sockets are designed to be installed into concrete foundations which meet the requirements of the RSMA COMPLIANCE STANDARD FOR TRAFFIC SIGNS:2008 for Small Signs and AS/NZS1170. Please note that this document requires Poles and Ground Sockets to be embedded to within 100mm of the bottom of the foundation.

When used in concrete foundations, substantial enough to withstand crash impact, the Signfix Ground Socket has the following advantages:

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- Economical and time saving installations avoiding the use of props to support poles while concrete foundations cure.
- Eliminates vandalism to poles/foundations before concrete has set.
- Economical replacement of damaged poles with no need to dig out and replace foundations. Simply remove the damaged pole from the ground socket and replace. Only one site visit required, no construction workers or plant and the damaged sign is replaced with minimal delay.

