

Technical Note: Portable Traffic Signals

Introduction

All portable signal systems are to comply with the Australian Standard AS 4191- 1994. A list of compliant systems is attached.

Implementation

Contractors are required to apply to the Road controlling Authority (RCA) to use portable signal systems. Application must be made on the Traffic Management Plan (TMP) and the details of the system must be provided in the other information section of the TMP. The representative of the RCA must ensure that the system is listed as compliant before signing off the TMP.

Register of Compliant Portable Traffic Signal Systems

A register of compliant systems is attached to this technical note and is available on the NZTA website.

Future Approvals

New systems can be tested to AS 4191-1994 standards at either a qualified independent Australian Laboratory, or at OPUS Central Laboratories, Petone New Zealand. New approvals will be added as they pass testing. Testing is to be undertaken at own expense.

For details of testing or to have a portable signal system tested apply to:

Senior Traffic and Safety Engineer (CoPTTM)

NZ Transport Agency

Private Bag 6995

Wellington

Register of Approved Traffic Signal Systems – as 4191 – 1994 Compliant

NZTA Reg No.	Signal System Name	Manufacturer or supplier	Approving Laboratory or Authority	Date of Approval	Comment
1	Sykes Safeway Portable Traffic Signals	Sykes Pumps Australia	Vicroads Cert 1977 - 16	1 - Dec - 97	
	Sykes Safeway Portable Traffic Signals	Sykes Pumps Australia	RTA NSW 9504 - PTS3AR1 - 0 - 1	26 - Sep - 97	
2	BARTCO Portable Traffic Signals Model no. BTEPTS	Bartco Traffic Equipment Pty Ltd	Allan Woodward Consultancy Services	25 - Oct - 05	
	BARTCO Solar & LED Portable Traffic Light Signals Model CS-200	Bartco Traffic Equipment Pty Ltd	RTA NSW 0807 - PTS3AR1 - 0 - 1	4 - Jul - 08	
3	A1 Roadlines Portable Traffic Light Signal System Model No. PTC - 1000	A1 Roadlines Pty Ltd	RTA NSW 0005 - PTS3AR1 - 0 - 1	18 - May - 00 Endorsements 17 - Jan - 05 1 - Feb - 05 9 - Mar - 05	Extended to include a solar Model and a CS200 Controller.
4	Temporary Traffic Signals MPB4000	International Safety Products	Opus International Consultants, Central Laboratories, Lower Hutt report 528024.00	27 - Apr - 07	Extended to include use of remote controller.

NZTA Reg No.	Signal System Name	Manufacturer or supplier	Approving Laboratory or Authority	Date of Approval	Comment
5	Harding Traffic Systems modified LZA 500 Traffic Signals	Harding Traffic Signals	Opus International Consultants, Central Laboratories, Lower Hutt report 528024.05	Interim Acceptance July 2011 expiring 31 Dec 11 Approval from 1/1/2012	The signal system is composed of a Adolf Nissen Elektrobau CmbH, model LZA 500, as modified by Harding Traffic Systems, the Nissen signal lanterns have been replaced with Aldridge Traffic Signal Lanterns (Aldridge Traffic Signals Pty Ltd, model 2000, part No. RA553. Note: This system does not include remote manual control.
6	Data Signs Pty Ltd Portable Traffic Signals PTL- 300	Trans Tasman Engineering Ltd	Opus International Consultants, Central Laboratories, Lower Hutt Report Ref No. 528024.10 Dated: February 2014	Interim Acceptance Expiry Date: 31/12/2013 Acceptance Feb 2014 The portable traffic signals come in two versions; one being 'wheel barrow' mounted and the other trailer mounted.	This has been assessed and accepted by New South Wales Roads and Marine Services (RMS). The RMS assessment does not confirm with AS 4191 - 1994. The system is currently awaiting a final records check by OPUS Research to confirm that it meets the requirements of AS4191 - 1994. Final check by OPUS Research completed February 2014.
7	Peter Berghaus MPB 3200 and 3400 traffic signals	International Safety Products NZ Ltd (trading as Peter Berghaus NZ)	Opus International Consultants, Central Laboratories, Lower Hutt Report Ref No. 528024.08 Dated September 2013	Acceptance September 2013	

NZTA Reg No.	Signal System Name	Manufacturer or supplier	Approving Laboratory or Authority	Date of Approval	Comment
8	Traffic Signs NZ Ltd, Model: Smart Switch Vehicle Activated (SSVA)	Traffic Signs NZ Ltd P:07 575 0505 M:027 2212 999	Opus International Consultants, Central Laboratories, Lower Hutt Report Ref No. 528024.13 Dated July 2016	1 July 2016	<p>The system is capable of manual, fixed-time and vehicle-actuated modes of operation.</p> <p>At this time, the SSVA is only a two signal system, with the signals communicating with a radio (wireless) link (Maximum Site Length 2 km).</p> <p>Note: In this system, the fixed-time mode uses the radio link to keep the signal sequence synchronised (unlike many other systems, where fixed-time mode is intended for use when there is no link between the signals).</p>
9	Horizont Multi-Signal Type 26420	Trans Tasman Engineering Ltd	Opus International Consultants, Central Laboratories, Lower Hutt Report 528024.14	Final Approval: March 2017	<p>Section 3.2 requires the maximum site length to be taken as that as measured by the Assessment Agency (Opus).</p> <p>This was measured as 700m with a clear line of sight between the signals - at greater separations radio communication was intermittent.</p> <p>This system must not be applied over 700 metres.</p>