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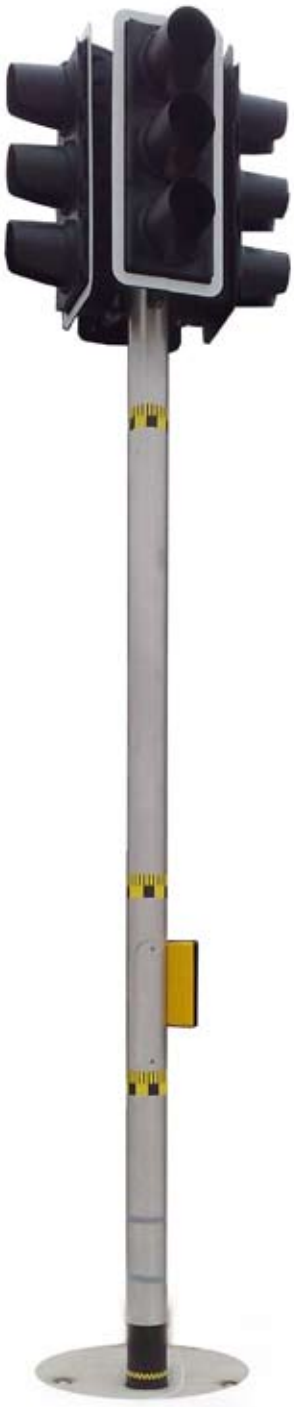
BULLETIN - Traffic Signal Poles

ALC SIGNALS NEW GENERATION OF TRAFFIC POLES

ALC have developed a new traffic signal pole having a unique construction, and offering a whole range of benefits to the Highways Engineer.



The key features are:

- Aluminium construction – zero corrosion, zero maintenance, long life
- Unique patented construction giving high load capacity
- In-built passive safety – results show suitable for all road types
- Strong enough to carry 4 traffic signal heads (Tested with Siemens Helios ELV-enabled units)
- In-built strimmer guard
- Ultimate quality root protection
- Designed for use with, and tested with ELV (Extra Low Voltage) cable
- In-built 50 year design life

The column construction has a root section using an extruded new alloy, and the above ground section using 6063 alloy. The two are joined in a patented HDPE (High Density Polyethylene) jacket. The result is a column with high strength, enhanced load capacity, the material benefits associated with aluminium, and passive safety capacity. The HDPE jacket enables the column to absorb high energy in vehicle impact, while also giving excellent root protection. The above ground section of the jacket also guards against strimmer damage. The base section of the column incorporates a flush mounted door, enabling ground level access for maintenance operatives, and helping to meet the Working at Height Regulations.

The passive safety testing was carried out with the unit fully equipped as a 4-head traffic signal, using Siemens Helios ELV-enabled heads. The root was mounted in the NAL ground socket, and the unit was wired using ELV cable. The test set-up also included a Siemens LED wait indicator, a NAL RS168 DF socket plus a NAL Connection box (3 internal connection blocks & 1 earthing block).

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The supply was in 22mm 20 core (ELV) armoured cabling, secured using a Charles Endirect cable clamp. Completed results give a rating of 100-NE-2.

While the NE rating achieved in the 100 km/h test would suggest the unit is best suited for major routes, the standard 35 km/h test produced results which make the column eminently suitable for busy urban roads as well. In this mandatory low-speed test the vehicle was brought to a complete rest in something under 1 metre after impact, while yet generating very low THIV and ASI ratings. The column can therefore be confidently used in both high and low speed situations.

The column tested was a 6 metre, and besides offering passive safety capacity, is also fully compliant with the demands of BS EN 40.

You can read more about our company, our products and our standards in two brochures available now. Call our sales office for your copies: 01639 - 852502

Further information is also available on our website: www.aluminium-lighting.com

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