

→ Design & Manufacturing Standards

The design and manufacture of Altron products are covered by the following standards.

Poles & Columns

- BS EN 1993-1-1:2005 Eurocode 3: Design of steel structures
- BS EN 1991-1-4:2005 Eurocode 1: Wind actions
- BS EN 40-3-1:2013
- BS EN 40-3-3:2013
- BS 5950-1
- Design analysis carried out using a specialist software package in accordance with ILETR7, BS6399 and BS8100
- PLG07

Towers

- Wind loading and structural design is carried out using specialist software package in accordance with BS8100 PT1, 'Code of practice for loading' and BS8100 PT3, 'Code of practice for strength assessment of members of lattice towers and masts'

Foundations

- BS EN 1997-1:2004 Eurocode 7 – Geotechnical design
- BS8004

Material and Finishing

- Structural steel hollow sections EN10219 - EN10025:2004
- Steel flat angles and structural sections EN10025, EN10111, EN 10130
- Stainless steel sections Grade 304, 316
- Aluminium section Grade 6082
- Foundation bolts Grade 4.6 spun galvanised BS4190, BS3692, DIN931, 934, 601
- Fixings: stainless steel Grade A2, galvanised Grade 4.6 Grade 8.8 BS4190, BS3692, DIN 931, 934, 601
- Hot dipped galvanising after fabrication to ISO 1461
- Painting in BS and RAL colours in accordance with BS4800

Manufacturing Processes

- Welding Procedures conform with BS EN 1011:2009, BS EN 9606-1
- Testing procedures for welders where applicable to BS EN 15614-1:2017

Winches

- Wire ropes to BS183:1972, BS EN 13411 3 2004 + A1 2008
- Winches conform to American ASAE standard S361.IT.



AW 1545 with dual lighting arm



Stainless steel pole London Eye