

## H14 Precast concrete and glass lens/ paver rooflights/ floor lights/ pavement lights/ security panels

To be read with Preliminaries/ General conditions.

### PRODUCTS

#### 325A PAVEMENT LIGHTS THROUGHOUT

- Manufacturer: New Age Glass or equivalent approved.  
Web: [www.newageglass.co.uk](http://www.newageglass.co.uk)  
Email: [marc@newageglass.co.uk](mailto:marc@newageglass.co.uk)  
Tel: +44 (0)1243 790 414  
Address: New Age Glass, Unit 4, Spur Road, Chichester, West Sussex, PO19 8PN.
- Product reference: P150-120.
- Panel size:
  - Overall size (length x width x depth): 1590 x 1265 x 120mm.
  - Clear span: 1150(l) x 820(w).
  - Bearing (minimum): 50mm, required ~220mm on all four sides.
- Glazing configuration: Glass lenses in rectangular array.  
Load capacity (minimum): 20 kN/sq.m UDL, 75 kN concentrated load. (220 kN ultimate).
- Fire resistance:
  - Standard: BS EN 1365-2.
  - Requirement (minimum): REI 60.
- Thermal transmittance (U-value): 5.9 W/sq.mK.
- Cast in lifting sockets: Not required.
- Smoke outlet break out demarcation strips: Required.
  - Material: Brass.
- Glass lenses/ blocks: To BS EN 1051.
  - Form: D Rectangular Glass Shells.
  - Pattern: Natural.
  - Colour: Natural Clear.
  - Face dimensions (l x b or diameter): 117 x 117 mm.
  - Thickness (h): 15 mm.
  - Tolerance class: II.
  - Compressive strength category: G.
  - Other requirements: Manufacturer's recommended slip resistance coating.
- Concrete: Proprietary to BS 8500.
  - Conformity:
    - In accordance with BS 8500-1, Annex A4 for the specified exposure class.
    - To BS 8500-2.
  - Identity: C40 - 10 mm aggregate.
  - Exposure class to BS 8500: XC3 and XC4.  
Declaration of conformity: Submit certification from a United Kingdom Accreditation Service (UKAS) approved independent laboratory that the concrete conforms to the recommendations of BS 8500-1 A4.
  - Finish:
    - Wearing surface: Smooth float-finish.
    - Soffit: As cast struck finish.
  - Colour: Natural (uncoloured).
- Other requirements: None.

**325B PAVEMENT LIGHTS HIGH HOLBORN ACCESS HATCHES**

- Manufacturer: New Age Glass or equivalent approved.  
Web: [www.newageglass.co.uk](http://www.newageglass.co.uk)  
Email: [marc@newageglass.co.uk](mailto:marc@newageglass.co.uk)  
Tel: +44 (0)1243 790 414  
Address: New Age Glass, Unit 4, Spur Road, Chichester, West Sussex, PO19 8PN.
  - Product reference: Hatch Double Flap.
- Panel size:
  - Overall size (length x width x depth): 2040 x 1440 x 120mm.
  - Clear span: 1400 x 800mm.
  - Bearing (minimum): 320mm.
- Glazing configuration: Glass lenses in rectangular array.  
Load capacity (minimum): 20 kN/sq.m UDL, 75 kN concentrated load. (220 kN ultimate).
- Fire resistance:
  - Standard: Not applicable.
  - Requirement (minimum): Not applicable.
- Thermal transmittance (U-value): Not applicable.
- Cast in lifting sockets: To be confirmed by manufacturer.
- Smoke outlet break out demarcation strips: Not required.
  - Material: N/A.
- Glass lenses/ blocks: To BS EN 1051.
  - Form: D Rectangular Glass Shells.
  - Pattern: Natural.
  - Colour: Natural Clear.
  - Face dimensions (l x b or diameter): 117 x 117 mm.
  - Thickness (h): 15 mm.
  - Tolerance class: I.
  - Compressive strength category: G.
  - Other requirements: Manufacturer's recommended slip resistance coating.
- Concrete: Proprietary to BS 8500.
  - Conformity:
    - In accordance with BS 8500-1, Annex A4 for the specified exposure class.
    - To BS 8500-2.
  - Identity: C40 - 10 mm aggregate.
  - Exposure class to BS 8500: XC3 and XC4.  
Declaration of conformity: Submit certification from a United Kingdom Accreditation Service (UKAS) approved independent laboratory that the concrete conforms to the recommendations of BS 8500-1 A4.
  - Finish:
    - Wearing surface: Smooth float-finish.
    - Soffit: As cast struck finish.
  - Colour: Natural (uncoloured).
- Other requirements: Heavy duty bespoke stainless steel frame. Double flap access hatch. Gas-strut openers. Drainage connection from frame to surface drainage. Integrated internal lock.

**346A CONCRETE REINFORCEMENT TO PAVEMENT LIGHTS**

- Stainless steel: To BS 6744:2006 Grade 500.
- Cutting and bending: To BS 8666.
- Condition at time of placement: Clean, free of corrosive pitting, loose materials and substances that may adversely affect reinforcement, concrete, or bond between the two.

- 350 MORTAR BEDDING
- Type: Cement gauged, as section Z21.
  - Standard: To BS EN 998-2.
  - Mix: 1:0.25:3 cement:lime:sand 12 N/mm<sup>2</sup> (mortar class 12).
  - Thickness: 10 mm.
- 355 MORTAR INFILL TO PERMANENTLY NON-ACCESSIBLE LIFTING SOCKETS
- Type: Cement gauged, as section Z21.
  - Standard: To BS EN 998-2.
  - Mix: 1:0.25:3 cement:lime:sand 12 N/mm<sup>2</sup> (mortar class 12).
- 360 PERIMETER MOVEMENT JOINTS
- Width: Submit proposals if required.
  - Filler: A type recommended for the purpose by the panel manufacturer.
    - Manufacturer: Submit proposals.
    - Product reference: Submit proposals.
  - Sealant:
    - Designation: To be confirmed by manufacturer.
    - Manufacturer: Submit proposals if required.
    - Product reference: N/A.
    - Colour: Anthracite.
- 365 INFORMATION
- Documents: Submit reports, calculations and certificates demonstrating compliance with concrete conformity requirements prior to manufacture of panels/ units.

## EXECUTION

- 601 SUITABILITY OF SURROUNDS/ SUPPORTS
- Survey: Before placement of panels/ units carry out a geometric survey of the surrounds and supports to verify required accuracy and security.
    - Give notice: If surrounds or supports will not allow the required accuracy or security.
- 605 ADVERSE WEATHER
- General: Do not use frozen materials or lay units on frozen surfaces.
  - Air temperature requirements: Do not lay units in mortar or apply sealant when air temperature is at or below 3°C and falling or unless it is at least 1°C and rising.
  - Newly laid panels/ units: Protect at all times from rain and snow.
- 610 INSTALLING PRECAST UNITS ON MORTAR BEDDING
- Placement: Lay on full bed of mortar to line and level maintaining required bearing width.
  - Lifting socket infill mortar: Fill socket and finish flush with panel/ unit. Remove surplus from adjoining surfaces as work proceeds.
- 615 INSTALLING PERIMETER MOVEMENT JOINTS
- Filler placement: Build in as panel/ unit is laid and to the correct depth to receive the sealant system.
  - Sealant placement: Prepare joints and apply sealant as section Z22. Remove surplus from adjoining surfaces as work proceeds.