IN-SITU PAVEMENT LIGHTS

New Age Glass are specialists in manufacturing, replacing and repairing pavement lights.

Providing natural light to basements and cellars, these are made from reinforced concrete and fitted with 100x100mm moulded glass lenses.

They can also be supplied with galvanised cast iron ventilators in place of some lenses, and drip trays fixed underneath to collect water and debris.

The advantages of fitting on site are:

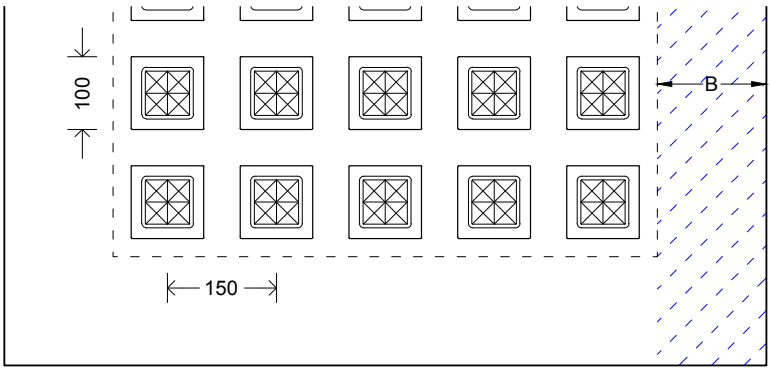
- Larger areas can be covered meaning less cross joints.
- It is easier to accommodate variations in site levels and falls.
- We can install additional waterproofing products to the bearings and cross joints.

Data Sheets & Drawings

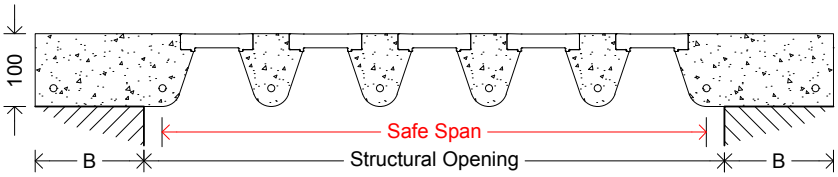
VIEW OUR SERVICES

- Cellar Doors & Access Flaps
- Custodial Windows
- Energy Saving Glass Blocks
- Fire Escape Hatches
- Fire Rated Glass Blocks
- Fire Rated Roof / Floor Lights
- Glass Block Supply Only
- In-situ Glass Block Walling
- **In-Situ Pavement Lights**
- Insulated Roof/Floor Lights
- Pavement Light & Glass Block Maintenance
- Pre-Cast Panels
- Pre-Fabricated Walling
- Roof Lights & Floor Lights
- Smoke Outlet Panels
- Steel Work
- Victorian Cast Iron Pavement Lights

Technical Details - Pavement Light - 100 mm Lens - 100 Deep - 150 mm centres

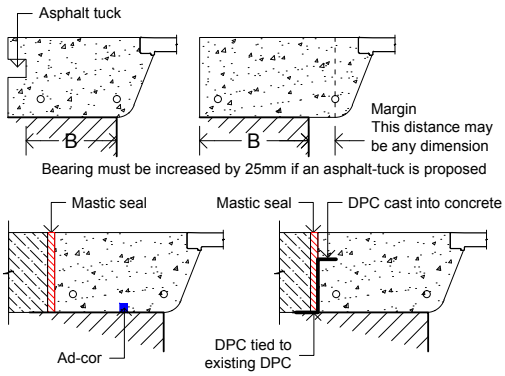


100 x 100 square-lens: 150-mm centres: 100-mm thick



NAG-P150/100

Bearings:



Expansion-joint sealed with mastic

B= Category A B C D F : 75-mm minimum.
Category G and Highway Use: 150-mm minimum.
Add 25-mm if asphalt-tuck required.

Maximum Span Tables

Spans shown are for indication only. All pavement-lights are checked by a structural engineer.

The safe-spans shown in this table have been calculated and checked in accordance with BS8110-1:1997: Structural use of Concrete.
The load-conditions shown have been tabulated in accordance to the categories listed under Table NA.2: of the NA to BS EN 1991-1-1:2002: Actions on structures

Load Conditions (NA to BS EN 1991-1-1:2002)	Loads		Safe Spans note 1 (BS 8110-1:1997)	
	UDL kN/m²	Point kN	2-way Spanning Span and Width Equal (Span / Span)	1-way Spanning Per Metre Width (Greater than 2xSpan / Span)
A: Domestic and residential activities All usage within self-contained dwelling units including student-accommodation, blocks of flats, dormitories, hotels, motels, hospitals, public-toilets, snooker-rooms, balconies., flat-roofs and walkways. Not suitable for where people may congregate.	3	2	3150mm	2550mm
B: Office Areas All office areas including at or below ground-level. Not suitable for where people may congregate.	3	3	3150mm	2550mm
C: Communal Areas Areas where people may congregate including restaurants, reading-rooms, classrooms, fixed seating areas, corridors, museums, dance floors, concert halls and public areas subject to crowding.	5	3.6	2850mm	2250mm
C52: Stages in public assembly area	7.5	5	2550mm	1950mm
D: Shopping Areas General retail shops and department-stores.	4	3.6	3000mm	2250mm
F: Light Vehicle Traffic Gross vehicle weight up to 30 kN	2.5	10	3150mm	2400mm
G: General Vehicle Traffic Gross vehicle weight over 30kN	5	50	1500mm	450mm
Highway Use Pavement-lights subject to heavy vehicles	20	75	1350mm note 2	300mm

Note 1: Where these structures are used as concourses and public spaces, they are likely to be subject to inadvertent or deliberate synchronized movement by people, causing dynamic excitation. The design provisions should take account of the nature and intended use of the structure, the potential number of people and their possible behaviour. Structural design should be carried out with the help of specialist advice and specialist guidance documents. (NA. 2.1.4)
Note 2: Emergency vehicle load is accidental and considered as 'Instantaneous'.

Fire-rating 1-hr Concrete grillage only. Glass unspecified
U-value 5.74 W/m²K
Self-weight - 1.79 kN/m² (183 kg/m²)
Light Transmittance 28% Sand-blasted Reduce by 5%

New Age Glass provide all drawings, calculations and reports required for the construction of all pavement lights including providing Building Control and Health and Safety information.

All designs are supplied in PDF, DWG and DWF formats.
Design using Revit available
BIW experienced
For complicated loading or other special requirements, our design team can help.

New Age Glass
Unit 4, Phoenix Business Centre, Spur Road, Chichester, West Sussex, PO19 8PN
01243 720414 - www.newageglass.co.uk

NAG-P150-100

Issue Date: 14 October 2015
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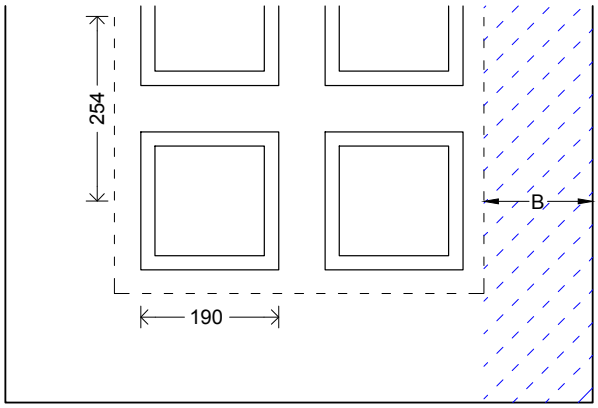
FIRE RATED ROOF / FLOOR LIGHTS

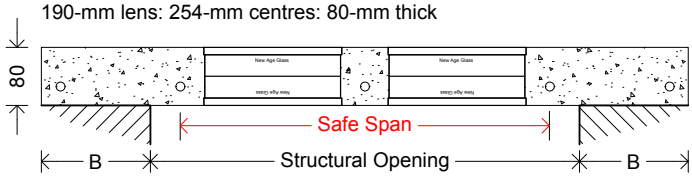
Data Sheets & Drawings

VIEW OUR SERVICES

Technical Details - Floor/Roof Light - 190 block - 80 deep - 254 centres

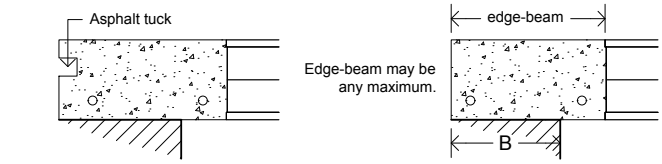


190-mm lens: 254-mm centres: 80-mm thick

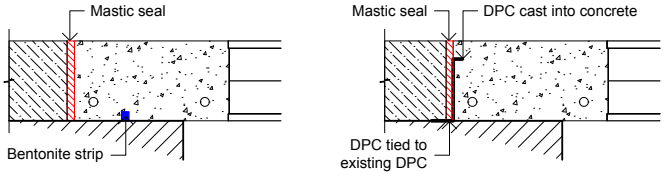


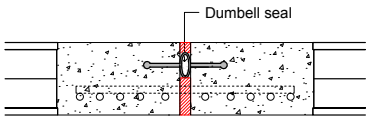
NAG-R190/80

Bearings:



Bearing must be increased by 25mm if an asphalt-tuck is proposed





Expansion-joint sealed with mastic

B= 75mm minimum
Add 25-mm if asphalt-tuck required.

Maximum Span Tables

Spans shown are for indication only. All pavement-lights are checked by a structural engineer.

The safe-spans shown in this table have been calculated and checked in accordance with BS8110-1:1997: Structural use of Concrete.
The load-conditions shown have been tabulated in accordance to the categories listed under Table NA.2: of the NA to BS EN 1991-1-1:2002: Actions on structures

Load Conditions (NA to BS EN 1991-1-1:2002)	Loads		Safe Spans note (BS 8110-1:1997)	
	UDL	Point	2-way Spanning Span and Width Equal (Width / Span)	1-way Spanning Per Metre Width (Greater than 2xSpan / Span)
Rooflights and light domestic use Roof load includes 0.9 kN/m² for snow	1.5	2	2032mm	1524mm
A: Domestic and residential activities All usage within self-contained dwelling units including student-accommodation, blocks of flats, dormitories, hotels, motels, hospitals, public-toilets, snooker-rooms, balconies., flat-roofs and walkways. Not suitable for where people may congregate.	3	2	1778mm	1270mm
B: Office Areas All office areas including at or below ground-level. Not suitable for where people may congregate.	3	3	1778mm	1270mm
C: Communal Areas Areas where people may congregate including communal restaurants, reading-rooms, classrooms, fixed seating areas, assembly areas, corridors, museums, dance floors, concert halls and public areas subject to crowding	5	3.6	1524mm	1270mm
D: Shopping Areas General retail shops and department-stores.	4	3.6	1524mm	1270mm

Note: Where these structures are used as concourses and public spaces, they are likely to be subject to inadvertent or deliberate synchronized movement by people, causing dynamic excitation. The design provisions should take account of the nature and intended use of the structure, the potential number of people and their possible behaviour. Structural design should be carried out with the help of specialist advice and specialist guidance documents. (NA. 2.1.4)

Fire-rating Concrete grillage 1-hr Glass 30-min
U-value 4.09 W/m²K
Self-weight - 1.22 kN/m² (125 kg/m²)
Light Transmittance 32% Sand-blasted Reduce by 5%

New Age Glass provide all drawings, calculations and reports required for the construction of all pavement lights including providing Building Control and Health and Safety information.

BIW experienced

All designs are supplied in PDF, DWG and DWF formats.

Design using Revit available.

For complicated loading or other special requirements, our design team can help.

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01243 720414 - www.newageglass.co.uk

NAG-R190-80F

Issue Date: 14 October 2015
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VICTORIAN CAST IRON PAVEMENT LIGHTS

New Age Glass Ltd are please to announce the Manufacture of the original Victorian Cast Iron Pavement Lights, Providing heritage or listed buildings with the opportunity to replace Old Cast Iron with New Cast Iron. All panels come fully glazed with either clear or sandblasted lenses.For more info please contact our Technical Department on 01243 790414.

Data Sheets & Drawings

VIEW OUR SERVICES

- Cellar Doors & Access Flaps
- Custodial Windows
- Energy Saving Glass Blocks
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- Fire Rated Glass Blocks
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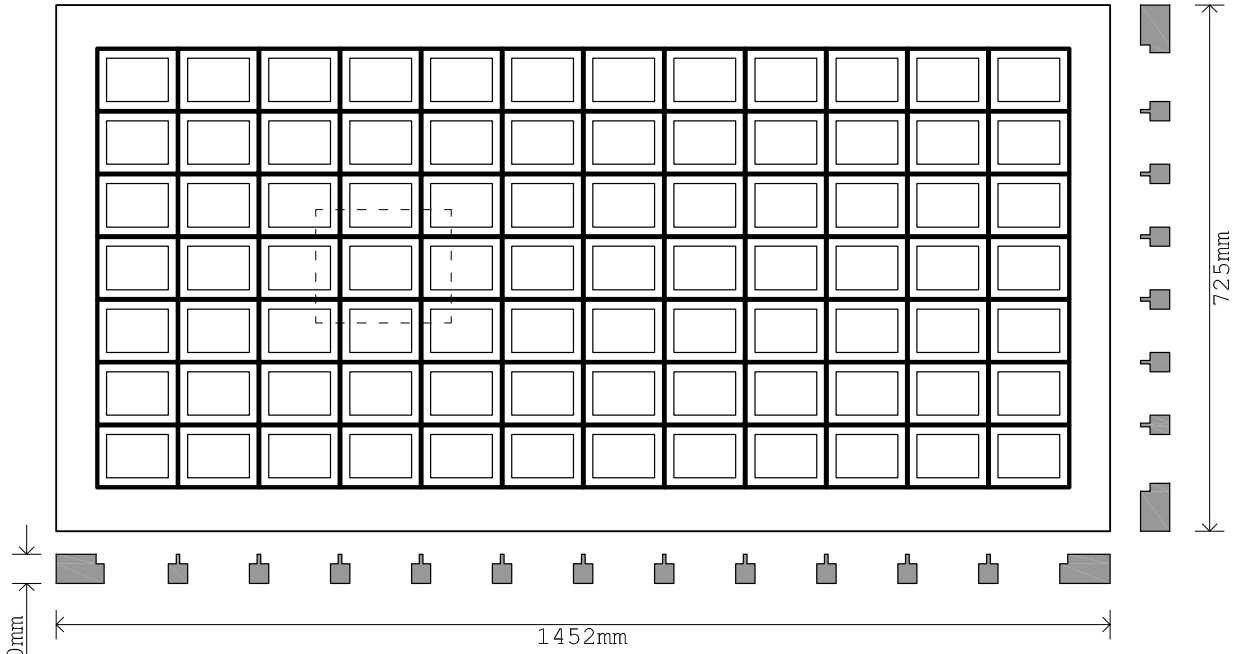
- In-Situ Pavement Lights
- Insulated Roof/Floor Lights
- Pavement Light & Glass Block Maintenance
- Pre-Cast Panels
- Pre-Fabricated Walling
- Roof Lights & Floor Lights
- Smoke Outlet Panels
- Steel Work
- **Victorian Cast Iron Pavement Lights**

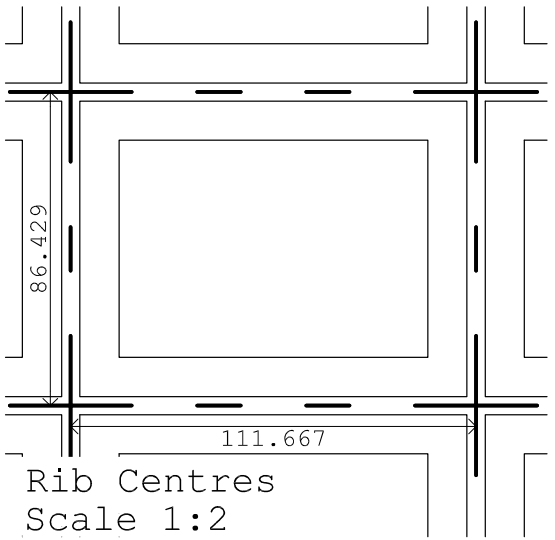
Drawing and Document List

Drawings	Rev
14-12-1 Plan and Sections	B
14-12-2 Calculations	B

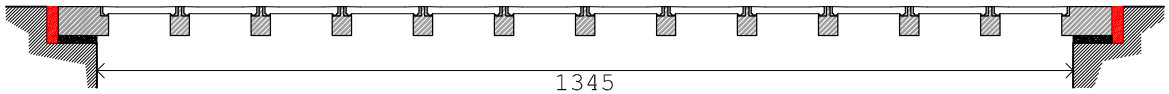
ni = not issued



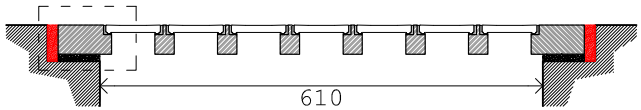
Plan and Sections of Cast-Iron Frame



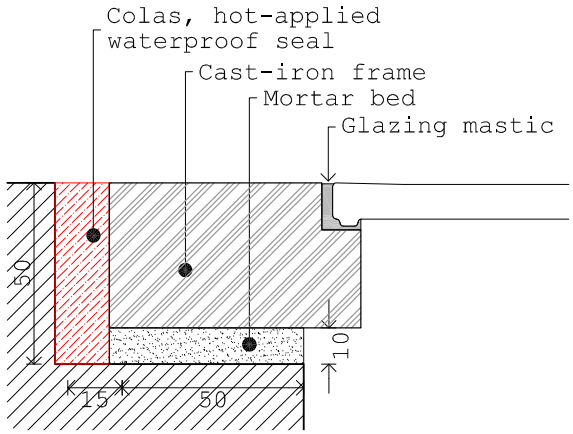
Rib Centres
Scale 1:2



Long Section



Short Section



Bearing Detail
Scale 1:2

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Drawing Number	Rev	Issue Date
NAG14-12-1	B	3 December 2014

Plan and Sections

Scale: 1:10 and 1:2 @A4

Rev A: First Issue
Rev B: Dimension change

Project: NAG cast-iron pavement-light

Address: New Age Glass

Status: Construction

Length of this border - 190-mm

Length of this border - 277-mm