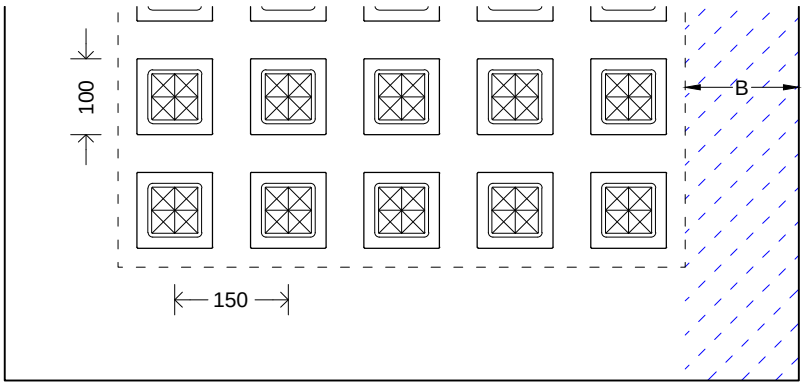
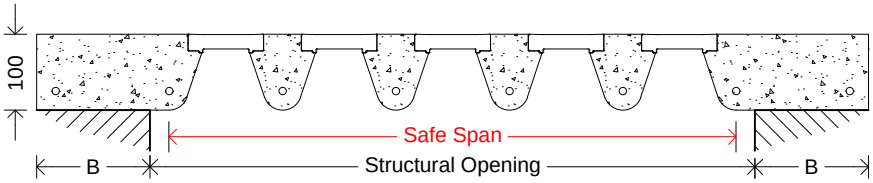
Technical Details - Pavement Light - 100 mm Lens - 100 Deep - 150 mm centres



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



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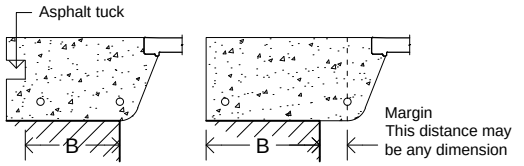
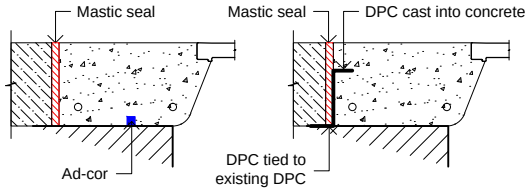
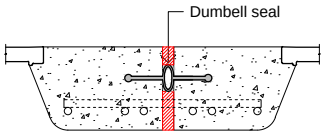
Bearings:



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





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: UDL kN/m²	Loads: Point kN	Safe Spans note 1 (BS 8110-1:1997): 2-way Spanning Span and Width Equal	Safe Spans note 1 (BS 8110-1:1997): 1-way Spanning Per Metre Width Greater than 2xSpan
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.

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