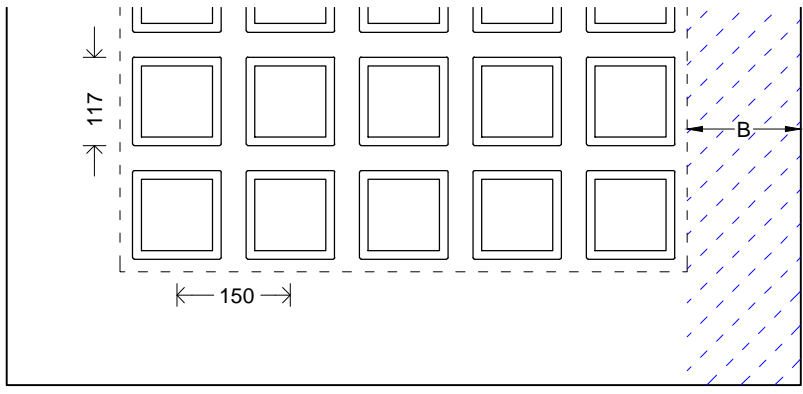
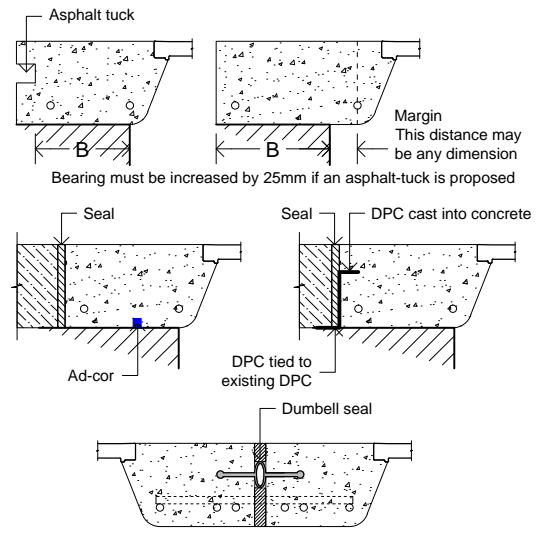


Technical Details - Pavement Light - 117 mm Shell - 120 Deep - 150 mm centres



117 x 117 square-shell: 150-mm centres: 120-mm thick

Bearings:



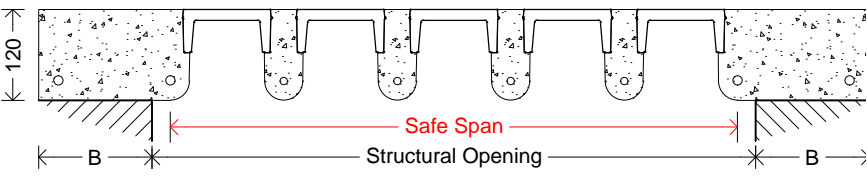
Asphalt tuck
Margin
This distance may be any dimension
Bearing must be increased by 25mm if an asphalt-tuck is proposed

Seal
Ad-cor
Seal
DPC cast into concrete
DPC tied to existing DPC

Dumbbell seal

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.



NAG-P150-120

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	Safe Spans <small>note 1</small> BS 8110-1:1997			
	Loads		2-way Spanning Span and Width Equal	1-way Spanning Per Metre Width
	UDL kN/m ²	Point kN		
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.	3.0	2.0	3150 mm	2550 mm
B: Office Areas All office areas including at or below ground-level. Not suitable for where people may congregate.	3.0	3.0	3150 mm	2550 mm
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.	5.0	3.6	2850 mm	2250 mm
C52: Stages in public assembly area	7.5	5.0	2550 mm	2100 mm
D: Shopping Areas General retail shops and department-stores.	4.0	3.6	3000 mm	2400 mm
F: Light Vehicle Traffic Gross vehicle weight up to 30 kN	2.5	10.0	3450 mm	2850 mm
G: General Vehicle Traffic Gross vehicle weight over 30kN	5.0	50.0	1800 mm	1350 mm
Highway Use Pavement-lights subject to heavy vehicles	20.0	75.0	1650 mm <small>note 2</small>	1200 mm

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'.

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 and DWG formats. Design using Revit available. BIW experience. For complicated loading or other special requirements, our design team can help.

Fire Rating: 1-hr (Concrete grillage only. Glass unspecified)

U-value: 5.9 W/sq.m.K

Self-Weight: 1.8 kN/sq.m (180 kg/sq.m)

Light Transmittance: 43.5 %

New Age Glass

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Omniclass 44.22.34.12

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