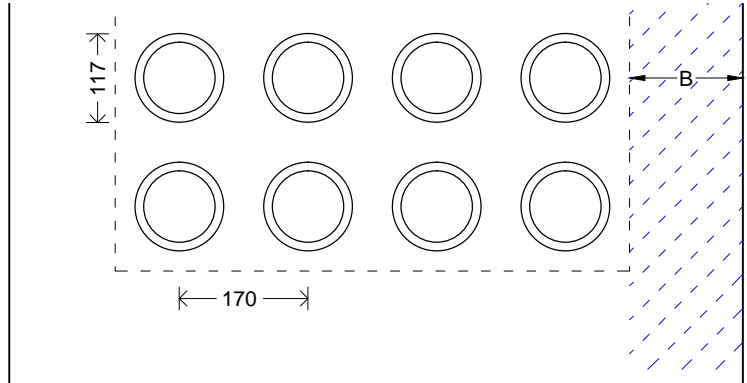
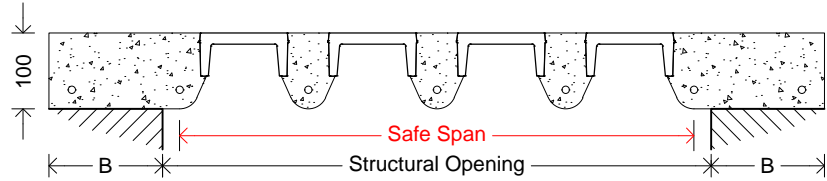


Technical Details - Pavement Light - R117 Ø Lens - 100 Deep - 170 mm centres

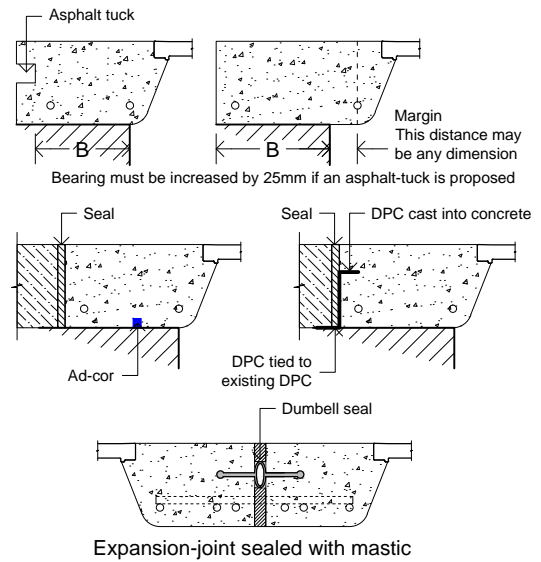


117 Ø shell: 170-mm centres: 100-mm thick



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Bearings:



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

Safe Spans <small>note 1</small>					
<small>BS 8110-1:1997</small>					
Loads		2-way Spanning Span and Width Equal		1-way Spanning Per Metre Width	
UDL kN/m ²	Point kN				
Load Conditions <small>NA to BS EN 1991-1-1:2002</small>					
A: Domestic and residential activities <small>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.</small>		3.0	2.0	2890 mm	2380 mm
B: Office Areas <small>All office areas including at or below ground-level. Not suitable for where people may congregate.</small>		3.0	3.0	2890 mm	2380 mm
C: Communal Areas <small>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.</small>		5.0	3.6	2550 mm	2040 mm
C52: Stages in public assembly area		7.5	5.0	2210 mm	1870 mm
D: Shopping Areas <small>General retail shops and department-stores.</small>		4.0	3.6	2720 mm	2210 mm
F: Light Vehicle Traffic <small>Gross vehicle weight up to 30 kN</small>		2.5	10.0	3060 mm	2550 mm
G: General Vehicle Traffic <small>Gross vehicle weight over 30kN</small>		5.0	50.0	1530 mm	1190 mm
Highway Use <small>Pavement-lights subject to heavy vehicles</small>		20.0	75.0	1360 mm <small>note 2</small>	1020 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: 5.71 W/sq.m.K

Self-Weight: 1.7 kN/sq.m (175 kg/sq.m)

Light Transmittance: 26.6 %

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