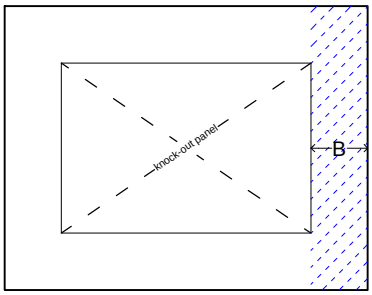
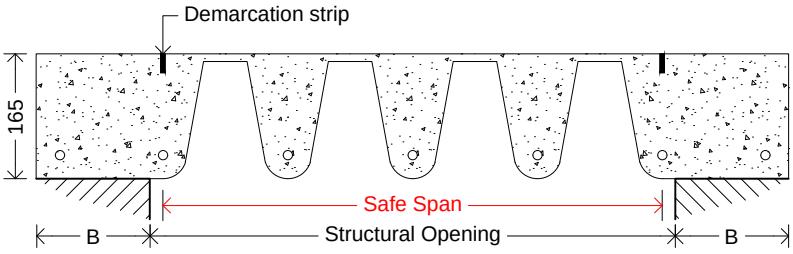
Technical Details - Smoke Outlet - 165 Deep - 165 mm centres



165-mm centres: 165-mm thick



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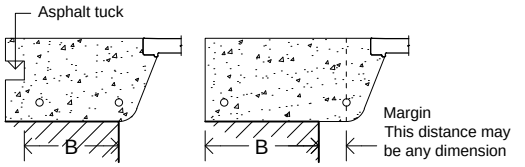
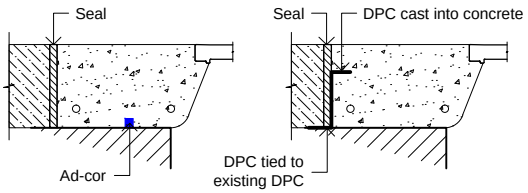
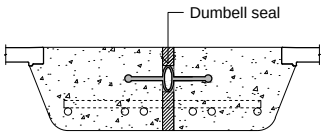
Bearings:



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





Expansion-joint sealed with mastic

B= 75-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
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	4620 mm	3795 mm
B: Office Areas All office areas including at or below ground-level. Not suitable for where people may congregate.	3.0	3.0	4620 mm	3795 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	4125 mm	3300 mm
C52: Stages in public assembly area	7.5	5.0	3795 mm	2970 mm
D: Shopping Areas General retail shops and department-stores.	4.0	3.6	4455 mm	3465 mm
F: Light Vehicle Traffic Gross vehicle weight up to 30 kN	2.5	10.0	5115 mm	4125 mm
G: General Vehicle Traffic Gross vehicle weight over 30kN	5.0	50.0	2970 mm	2145 mm
Highway Use Pavement-lights subject to heavy vehicles	20.0	75.0	2640 mm (note 2)	1980 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: One hour

U-value: 5.53 W/sq.m.K

Self-Weight: 2.5 kN/sq.m (258 kg/sq.m)

Light Transmittance: N/A

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21 March 2017

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