NEW AGE GLASS PAVEMENT LIGHTS AND SMOKE OUTLET PANELS

Technical Information

Sheet 1

Pavement lights and smoke outlet panels can either be supplied precast or cast insitu by trained New Age Glass operatives. Pre-casting may speed up site installation and allows work to continue even during inclement weather. Insitu casting enables larger areas to be formed and is more suitable for accomodating site falls and levels. Careful consideration must be given to the dimensions of all panels to mimimise the possibility of shrinkage and our Structural Engineer is available to offer advice. Typical joint and edge details are shown on Sheet 1a and available in AutoCAD format on the web-site. Pavement lights are available with the 100x100 lens and 117 Circular and Square shells. Sand-blasted to order.

Where light transmission is not necesary, plain surface panels with concrete infills may be supplied for horizontal smoke outlets such as used in ducting or shafts from basements.

The top surface of glazed and infill panels has a trowel finish which may have a non-slip surface.

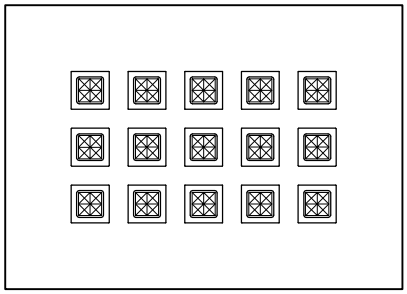
Regulations state that smoke outlet panels must be identified and New Age Glass non-ferrous metal identification plates are cast into the panel surface. Brass demarcation strips may also be supplied if requested.

A smoke outlet panel has been designed where the surface finish of the smoke outlet panel must match the surrounding area (See details with the prefix NAG-SG). This construction supports the Design finishes. Fire Brigade approval must be obtained whenever this construction is to be used. New Age Glass may provide a test panel to permit the General contractor to apply the finishes and allow the Fire Brigade to witness the test.

All other New Age Glass pavement lights and smoke outlets have been tested by the Fire Brigade.

New Age Glass also supply and fix access flaps and fire escape hatches and ladders for compliance with fire safety regulations.

NAG-P150/100



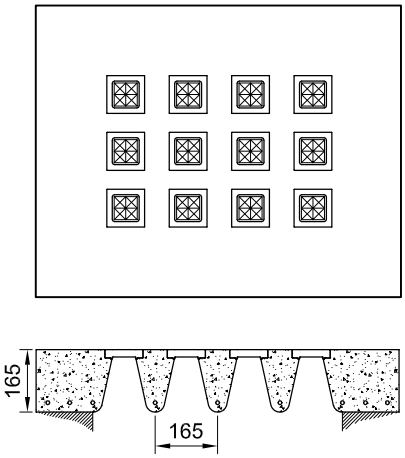
Design Data

100 x 100 lens
100 thick slab
150 centres

Self Weight - 171 kg/m²

5kN/m² - 2.5m max clear span
20kN/m² - 1.4m max clear span
75kN Ult - 1.5m max clear span

NAG-P165/165



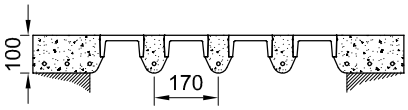
Design Data

100 x 100 lens
165 thick slab
165 centres

Self Weight - 283 kg/m²

5kN/m² - 4.4m max clear span
20kN/m² - 2.5m max clear span
75kN Ult - 2.4m max clear span

NAG-R170/100



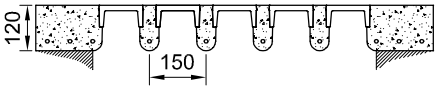
Design Data

117 dia shell
100 thick slab
170 centres

Self Weight - 190 kg/m²

5kN/m² - 2.4m max clear span
20kN/m² - 1.3m max clear span
75kN Ult - 1.5m max clear span

NAG-P150/120



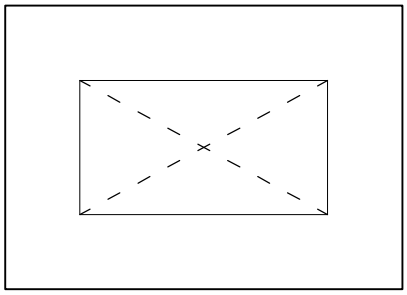
Design Data

117 square shell
120 thick slab
150 centres

Self Weight - 190 kg/m²

5kN/m² - 2.4m max clear span
20kN/m² - 1.3m max clear span
75kN Ult - 1.5m max clear span

NAG-S150/100

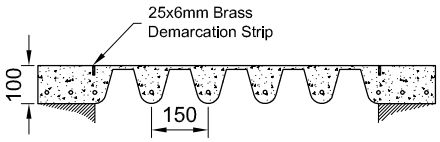


Design Data

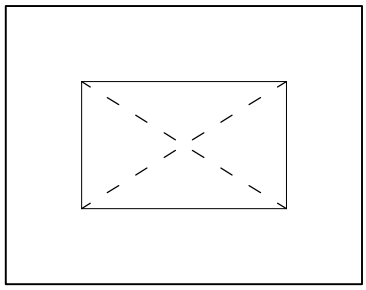
100 thick slab
150 centres

Self Weight - 185 kg/m²

5kN/m² - 2.7m max clear span
20kN/m² - 1.8m max clear span
75kN Ult - 1.5m max clear span



NAG-S165/165

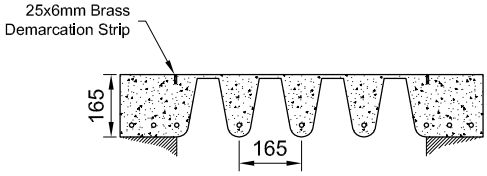


Design Data

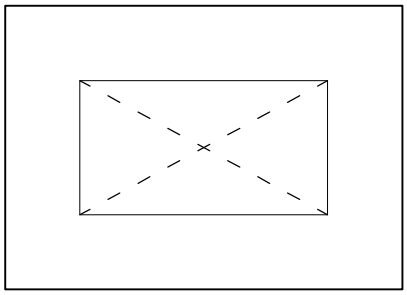
165 thick slab
165 centres

Self Weight - 283 kg/m²

5kN/m² - 4.4m max clear span
20kN/m² - 3.0m max clear span
75kN Ult - 2.4m max clear span



NAG-SG150/100

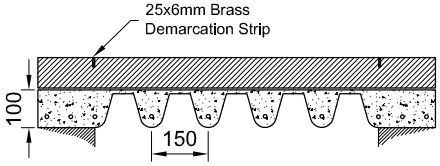


Design Data

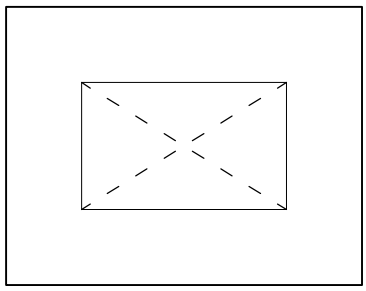
100 thick slab
150 centres

Self Weight - 185 kg/m²

5kN/m² - 2.7m max clear span
20kN/m² - 1.8m max clear span
75kN Ult - 1.5m max clear span



NAG-SG165/165

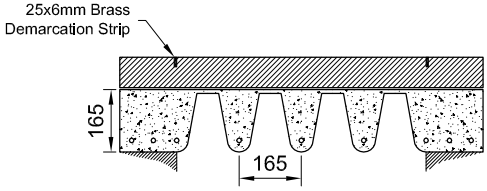


Design Data

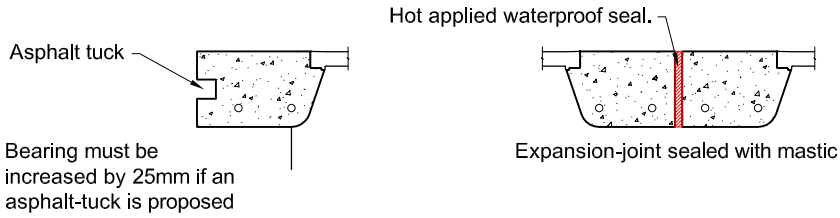
165 thick slab
165 centres

Self Weight - 283 kg/m²

5kN/m² - 4.4m max clear span
20kN/m² - 3.0m max clear span
75kN Ult - 2.4m max clear span



Typical Bearing and Joint Details



Calculations justifying the maximum loading and clear spans have been checked by Archibald Shaw, Consulting Structural Engineers, One Little London, Chichester, West Sussex PO19 1PP. For these loadings, the minimum bearing has to be 100mm.