

### Cover types

Covers are recessed for concrete infill or solid top according to specifier preference.

### Concrete infill recessed covers

Recessed covers are designed for filling with concrete as specified in BS EN 124 - C45- 45 N/mm<sup>2</sup> for a test cube of 150mm, or a 40N/mm<sup>2</sup> for a test cylinder 150mm diameter x 300mm high, using a 10mm coarse aggregate.

### Anti-slip surface covers

Concrete infill covers provide a non-slip surface similar to the surrounding areas. Solid top covers incorporate a raised lozenge pattern on the surface.

### Materials

The components of Gatic covers are manufactured from the following materials:

Ductile iron components to BS EN 1563:1997

Structural steel sections (removable beams) to BS 4-1:2005

### Fine tolerances

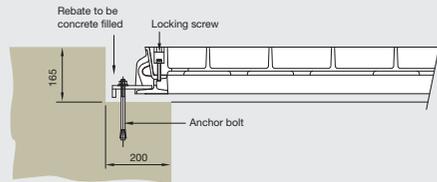
The seating faces of Gatic covers and frames are machined to ensure metal-to-metal contact within 0.25mm tolerance.

### Non-rocking

Correctly installed, Gatic covers will be non-rocking under traffic and sealed against ingress of road dirt and other detritus.

### Watertight

A film of graphite grease between the contact faces of Gatic units provides a gas and airtight seal, and a watertight joint under normal rainwater conditions.



Watertightness under pressure

### Pressure-tight

Standard single units with locking screws and holding-down bolts are available to withstand upward pressure. Consult our technical department for details.

### Easy removal/replacement

The machined underside seating face of Gatic covers allows the sliding out of covers for easy removal or replacement.

### Operator control

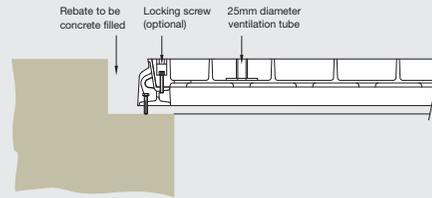
Jack screw operating keys locate positively and securely into Gatic covers and are a necessary tool if the inherent cover seal is to be broken effectively and to allow operator maximum control during operation.

### Secure and vandal resistant

Covers are designed to prevent tampering and unauthorised removal. Gatic covers cannot be removed without the correct lifting key, so unauthorised removal is virtually impossible. Locking bolts can be fitted to Gatic cover keyways as an additional security feature.

### Ventilation

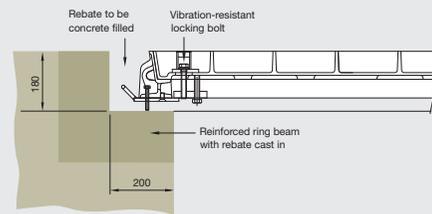
Ventilation can be provided by fitting four 25mm diameter ventilation tubes in recessed covers.



Locking/ventilated

### Vibration resistant

To prevent movement of covers in high density traffic conditions, we recommend the use of a factory-fitted vibration-resistant locking system. Can be fitted to recessed covers only.



Vibration resistant

We do not recommend the use of solid top covers in high density traffic locations.

### Closed keyways

Gatic cover keyways are closed and fitted with plastic plugs to prevent them from blocking up.

### Loadings

All Gatic covers will withstand test load, deflection and maximum deformation criteria specified in BS EN 124 for each loading category.

### Frame bars

Gatic 140mm deep supporting frames incorporate an 'I' beam design profile to provide a robust and rigid frame that will withstand the specified loads, without any concrete infill or backfill.

### Rigidity

The robust and rigid design of Gatic D400, E600 and F900 frames, combined with close manufacturing tolerances, provides a monolithic structure that will withstand the dynamic effects of traffic movement and impact.

### Secure support

The clear opening width between supporting frames are at least 10mm greater than the pit/chamber design to allow for minor deviations in pit construction dimensions.

### Beam wallbox

Supporting beams in Gatic Multispan units are easily removed with appropriate lifting equipment for access to the total chamber area. Beam wallboxes do not project into the chamber opening.

### Finishes

Units are coated with a black bituminous solution that acts as a temporary protection during transit. Removable supporting steelwork is galvanised to BS EN ISO 1461:2009. See page 80 for alternative finishes.

### Installation

Consignments of Gatic units are accompanied by comprehensive installation instructions.

### Levelling bolts

All side frame bars and wallboxes are fitted with bolts to assist in the levelling of the unit during installation.

### Safety grids

Hinged lift-out galvanised steel safety grids (with padlock facility if required) can be incorporated into Gatic units. See page 80.

### Environmental commitment

Responsibility towards the environment is our primary concern. Our customers often now demand products that are made from recycled and recyclable materials, supplied by companies with robust environmental policies to reduce the environmental impact of their projects for future generations.

To meet these requirements we have an integrated Quality (BS EN 9001:2008) and Environmental (ISO 14001:2004) Management System which encompasses the design, manufacture and management systems within the company and ensures our commitment to continuous environmental improvements regarding the manufacture and design of all our products in the following ways:

- Minimise environmental impact
- Commit organisational resources to energy management
- Reduce energy costs
- Give high priority to energy efficient investments
- Consider life cycle energy costs for all new projects
- Minimise CO<sub>2</sub> emissions year on year
- Use energy from sustainable resources wherever possible

To achieve these goals we have put in place the necessary systems and controls to meet demanding environmental targets and to make sure that these are maintained for the future benefit of the environment and our customers alike.

### Gatic services

Gatic offers a full support service to specifiers and contractors, including Computer Aided Design. AutoCAD compatible details of all Gatic products are available. Please consult our technical department for assistance.

In view of our commitment to product improvement, we reserve the right to alter designs without notice. Design changes will not adversely affect the performance or loading capability of our products.

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<b>ASSURANCE</b>		<b>ASSURANCE</b>	
The Gatic Quality Management System has been approved to BS EN ISO 9001:2008 Certificate No. LRQ 0860814		The Gatic Environmental Management System has been approved to ISO 14001:2004 Certificate No. LRQ 4001081	