The latest in complete access chamber solutions for traffic signals and networks.

IDS integrated DUCTING SYSTEMS

www.Peter-Savage.co.uk

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Welcome

Integrated Ducting Systems - IDS, a brand within Peter Savage Limited, represents a significant development in ducting system technologies, meeting the requirements of clients, designers and contractors within the civil engineering and construction industries. IDS is approved for use by local authorities nationwide and has been specified extensively in numerous traffic signal and cabling situations, from major motorway junctions to high street pedestrian crossings.

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A selection of products from the Peter Savage Portfolio:

- **GARRISON™**
  High Security Access Covers

- **Liberty-Drain™**
  Innovative Surface Channel Drainage

- **axis™**
  Hinged D400 Carriageway Access Covers

- **Alumatic®**
  Superior finish aluminium recessed access covers

- **NETWORK™**
  Specialist lift assist access covers
Nexus™ Structural Chambers

Nexus™ is a unique patented twin wall access chamber system which comprises of high quality polypropylene modules that are assembled into ring sections prior to delivery. The system offers raising ring and duct entry ring sections as detailed. Each ring comprises male and female ‘quick-click’ connections enabling each to be quickly stacked in an array of arrangements thus allowing the positioning of duct entry sections to accommodate varying depths of ducting. For ducts exceeding the standard 64mm or 114mm diameter entry points, the raising ring sections can simply be core-drilled on site to accommodate all sizes of duct. On larger chambers it is recommended that raising ring sections are drilled for all duct entries in order to maintain structural rigidity. For assistance please contact sales.

Nexus™ Benefits

- Easy one way fit and easy construction
- Lightweight system conforms to HSE recommendations & removes the need for mechanical lift equipment
- Strong twin wall structural design
- Duct entry points are easily knocked out with a hammer or cut with a holesaw
- Manufactured from a by-product of the oil industry that is 100% recycled - helping towards your sustainability targets
- Suitable projects: traffic signals, CCTV, rail infrastructure, motorway services, telecommunications, water services, street lighting, leisure etc.
- Larger sizes available in 150mm increments

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Raiser Ref</th>
<th>Duct Entry Ref</th>
<th>Clear Opening</th>
<th>Overall Dim</th>
<th>*Bracing</th>
<th>Entry Points</th>
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<td>1300 x 1300</td>
<td>*</td>
<td>32</td>
<td>12</td>
</tr>
</tbody>
</table>

* Chambers over 600 x 600mm may need internal bracing upon installation to prevent chamber deformation.
Nuneaton T. 024 7664 1777   F. 024 7637 5250
Wakefield T. 01924 258 381   F. 01924 258 382
E. sales@peter-savage.co.uk
www.Peter-Savage.co.uk

Peter Savage Limited operates a policy of continual development & reserves the right to alter specifications without notice.

Corner Pieces
Duct Entry
Raiser Piece
Easy slide & click fixing

Nexus™ Features

- High quality modular system
- Unique IRS (Integrated retention system)
- Structural high strength without concrete surround
- Reinforced arched pre-moulded duct entries
- Lightweight but strong thermoplastic Polypropylene (PP) material
- Flexibility to achieve multiple depths of chamber (150mm Increments)
- Designed & manufactured in the UK under an ISO 9001:2008 QMS
- Vertical load tested to D400 (40 tonnes)
- 64mm & 114mm diameter duct entry points as standard
- System can accommodate all sizes of duct
- 100% Recyclable material
- Compatible with existing range of IDS covers and frames

Nexus™ Specification Clause

The chamber shall be manufactured from 100% recycled & recyclable polypropylene. The chamber shall be manufactured of a structural twin wall construction with a nominal overall wall thickness of not less than 50mm. The chamber shall be able to withstand a vertical loading of 40 tonnes free-standing. The chamber sections shall be 150mm high and positively interlock together with horizontal joints to form a robust unit to the size required on site. Duct entry sections to accommodate up to 114mm ducting shall be preformed within the manufacturing process. Duct entries of a greater diameter can be cut on site. The chamber shall have the facility of an in-built integral cable retention system. The chamber shall be manufactured under an ISO 9001:2008 QMS. The chamber shall conform to load testing class D400 EN124.

Anti-slip composite covers
Recessed steel covers
Slide-out steel covers
Hinged iron covers

The above images are examples of some of the types of access covers that are available from the UK’s largest range of access covers and drainage gratings that suit the IDS NeXus™ chamber systems.
Nexus™ Chamber Installation Instructions

Each 150mm chamber section is pre-assembled prior to delivery to site. The following are on-site assembly and installation instructions.

1) Mark out the area sufficiently to allow for back-filling and compaction around the finished chamber. We recommend a minimum 250mm around the chamber.

2) Within the marked area, excavate from finished surface level to the total depth of the chamber, allowing additional depth for the base, the bedding mortar and access cover frame.

3) A suitable material base should be laid in preparation for the first ring as below:
   a) For D400 and above loading applications: 200mm deep reinforced concrete.
   b) For lower loading applications: 100mm of MOT Type 1, fully compacted.

4) After base construction (and allowing for adequate curing time) place the first chamber section ring onto the slab and ensure that the installation is square and level. Haunch the first ring with concrete to a minimum depth of 75mm. (Ensure that the ring is the right way up)

5) Chamber sections should then be assembled by vertically stacking on top of each other, ensuring each ring is the correct way up and tapped into position using a rubber mallet so that all quick-click locators lock into position.

6) Duct entry section holes may either be core-drilled or knocked out as required up to 114mm diameter.

   Note: If larger entries are required within the chamber, a minimum of 150mm of concrete should be backfilled around the chamber in these locations in addition to any backfill detailed below.

7) Prior to backfill, all chambers over 600mm x 600mm clear opening should be braced internally using timber or similar material. Please note that such bracing is not supplied with NeXus™ chamber sections. Ensure that all bracing is of adequate strength to support the sidewalls during backfill and should only be removed once the entire installation is complete and cured.

8) MOT Type 1 should be used for chamber backfill and should be compacted in maximum 250mm layers. The MOT level should be finished allowing 150mm depth from the top of the chamber.
**Datum Chamber Systems**

Datum Chamber systems are manufactured in one piece sections by rotational moulding for strength and rigidity. The system is made up of single stacking sections which can be stacked up to three sections high. Each section has pre-trepanned duct entry profiles for ease of pipe insertion. The chamber sections are manufactured to comply with NJUG standards, using 110mm duct two chambers will give 463mm depth of cover (typical of footway requirements) and three sections will achieve the required depth for under a road (793m). The chamber systems are manufactured in a wide range of sizes and are lightweight, and easy to install.

**Datum Raising Pieces**

Datum Raising pieces offer unique flexibility within the system providing an effective depth of 200mm.

**MC5 Chamber System**
Complete with 3 x MC5 sections, Anti-slip covers and frames.

**Chamber MC1**
275 x 295 x 380mm

**Chamber MC2**
450 x 300 x 380mm
**Datum** Chamber MC3
450 x 450 x 380mm

**Datum** Chamber MC4
600 x 450 x 380mm

**Datum** Chamber MC5
600 x 600 x 380mm

**Datum** Features
- High strength and rigidity
- Tapered interlocking skirt for stacking integrity
- Precision duct entry cut-outs
- Designed to ensure NJUG recommended depths of cover
- Cover and frame height and tilt adjustment
- Corrosion resistant
- Manufactured from 100% recycled & recyclable material

**Datum** Chamber Specification

**Clause**
Rotationally moulded polyethylene chamber sections shall be of strong and robust construction to prevent distortion during backfill and shall positively interlock with a 50mm skirt to prevent material ingress and ensure chamber integrity.

Chambers shall be pre-trepanned with cut-outs for 63mm, 100mm, and 110mm diameter ducting (178mm markings are also indicated on selected chambers). The cover and frame shall fit positively within the chamber allowing vertical and tilt adjustment to finished levels.

**Please Note:**
All **Datum** Chamber Systems are marked with an orientation symbol to aid installation.

Full technical drawings and installation details are available at:
www.ids-access.co.uk

Manufactured from 100% recycled & recyclable material
Datum™ Chamber Installation Instructions

Excavations

Excavate the installation area to the depth of the chamber plus 40mm, plus depth of base. Ensure the base of the excavated area is well compacted granular material or a 100mm concrete slab. Allow enough room around the chamber for a minimum concrete surround of 100mm. The concrete should be of sufficient strength to suit the cover and frame loadings and of semi-dry workability. The concrete should be hand placed around the chamber equally on all sides building it up to the required height.

Installation Guidelines

Install chamber centrally within the excavation. Cut out the duct ports as required and fit ducting into chamber. Ensure the ducting has a minimum 40mm key within the chamber. When the chamber is located correctly, backfill the void around the chamber with concrete as described above. Ensure backfilling is done around the perimeter of the chamber in equal measures on all sides to prevent movement or distortion. Fill to the height of the top lip of the chamber and concrete in the frame at the appropriate height/angle. It is strongly recommended that the frame is in-situ when installation of the chamber takes place (acts as chamber brace).

Datum™ Chamber Port Depth Detail

<table>
<thead>
<tr>
<th>Depth to top of Ø100mm Duct</th>
<th>Depth to Duct Centreline</th>
<th>Chamber Repeat Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>796mm</td>
<td>138mm</td>
<td>847mm</td>
</tr>
<tr>
<td>466mm</td>
<td>187mm</td>
<td>710mm</td>
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<tr>
<td>138mm</td>
<td>517mm</td>
<td>380mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1040mm</td>
</tr>
</tbody>
</table>
SwiTch™

Introducing the next generation of pole retention

SwiTch™ Pole Retention System

SwiTch™ is a unique patented pole retention system which comprises of a high quality casting process and is engineered to securely retain in position all types of passive and non-passive street furniture and posts. The system offers a top housing unit comprising of an integrated levelling system, storage for pavement plug, and TGR™ Clamping system, together with duck foot bend. The SwiTch™ range has been extensively tested to the requirements of EN12767:2007 at a UKAS accredited test facility. The flexibility of the SwiTch™ range allows for variable heights with minor adjustments available to meet site requirements. For assistance please contact sales.

SwiTch™ Benefits

- Once Installed - Small visible footprint
- Integrated levelling system
- Key components all manufactured in grade 500/7 Ductile iron
- Unique corrosion protection
- Easy pole removal after knockdown
- Patented TGR™ Clamping system - 780cm² area of grip to prevent impact distortion of pole
- Fully compliant to the requirements of EN12767:2007

SwiTch™ Features

- Manufactured to suit 115mm diameter pole
- Standard heights 450mm, 600mm, 750mm, 900mm
- Integrated spirit level
- Pavement Plug to be used when no pole is present & can be stored in top housing when not needed
- 360 degree swivel duck foot bend
- Top housing draining point
- 20mm of height adjustment available in sleeve length

For further information please contact us on:
T: 024 7664 1777 or E: technical@peter-savage.co.uk

UK PAT APP 1209566.7

Crash Test Footage

Product Code  O/all Height (mm)  Pole Planting Depth (mm)  Pole Diameter (mm)  Description  Weight (Kg's)
SW115450  450  335  115  Complete Retention Socket  38
SW115600  600  485  115  Complete Retention Socket  39
SW115750  750  635  115  Complete Retention Socket  40
SW115900  900  785  115  Complete Retention Socket  42

*Other heights are available
Socket Installation Instructions

**Step 1**

Ensure top of SwiTch™ Retention Socket is at correct height with surrounding ground. If installation is being installed on sloping ground please contact sales for assistance.

Connect ducting from DaTum™ or NeXus™ chamber to duck foot bend of the Retention Socket, ensuring you leave the draw cord in the base of Retention Socket bend.

If necessary loosen the retaining clamp at the base of the top housing, twist the top housing of the Retention Socket into the required orientation then re-tighten the bolts. It is best practice to locate the side of the chamber away from the kerb.

Before surrounding with concrete, ensure a drainage pipe is fitted to the underside of the top housing to allow for drainage from the clamping chamber.

**Step 2**

With the pavement plug in place and the level bubble centred, surround the socket with the required amount of ST4 concrete.

Please refer to the Foundation matrix below for concrete surround measurements allowing for 2 layers of A393 mesh reinforcement if the values are red.

Ensure the bubble in the level is maintained in the centre to achieve a vertical/horizontal level.

<table>
<thead>
<tr>
<th>SwiTch™ Retention Socket Depth</th>
<th>450mm</th>
<th>600mm</th>
<th>750mm</th>
<th>900mm</th>
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<tr>
<td>Foundation Width (mm)</td>
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<tr>
<td>Solid Ground</td>
<td>1005 x 1005</td>
<td>860 x 860</td>
<td>760 x 760</td>
<td>690 x 690</td>
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<tr>
<td>(Min Distance to Edge of Concrete Plinth)</td>
<td>250mm</td>
<td>250mm</td>
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<tr>
<td>Loose Ground</td>
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<tr>
<td>(Min Distance to Edge of Concrete Plinth)</td>
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<td>250mm</td>
<td>250mm</td>
<td>250mm</td>
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</table>

**Step 3**

Once sufficient time has taken place for the concrete to cure, finish the surrounding footway to the specified finish.

**Step 4**

To install the pole, remove the clamping chamber cover and loosen the TGR™ bolt using a 24mm spanner, remove the pavement plug and insert the pole until the base of the pole sits on the landing area inside the retention socket.

Tighten the TGR™ bolt which will clamp the pole in place, once the pole is secure place the pavement plug in the clamping chamber and replace the clamping chamber cover.
IDS Covers and Frames

The IDS system offers universal locking frames with the facility to accept our full range of covers.

IDS Anti-Slip Composite Covers

The range of IDS anti-slip composite covers provide the highest levels of slip resistance, comfortably exceeding the requirements defined by the UK County Surveyors Society Working Party Data Collection Unit, to ensure pedestrian safety in all situations and weather conditions. The covers are manufactured in anti-slip composite to B125 loading requirements.

Independent testing by Devon County Council has established the following skid resistance values (PSRV) for the tread surface.

<table>
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<tr>
<th>Test</th>
<th>PSRV</th>
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<tr>
<td>Dry Testing (mean value)</td>
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<tr>
<td>Wet Testing (mean value)</td>
<td>76</td>
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<tr>
<td>Equilibrium value for wet testing*</td>
<td>64</td>
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*The equilibrium value is determined when the wet PSRV’s achieved after repeated 1 minute polishing cycles have stabilised for 3 consecutive results.

IDS Anti-Slip Composite Cover Product Codes

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<td>PGAS300300</td>
<td>300 x 300</td>
<td>B125 Composite Cover Only</td>
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<td>PGAS300450</td>
<td>300 x 450</td>
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</tr>
<tr>
<td>PGAS600600</td>
<td>600 x 600</td>
<td>B125 Composite Cover Only</td>
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</tbody>
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IDS Anti-Slip Composite Covers Specification Clause

IDS Anti-slip composite covers shall be IDS system, manufactured under ISO 9001:2008 approval and to meet the load requirements of EN124 Class B125. The surface shall have a mean wet SRV value of not less than 76. Available with security lock down facility. Installed with IDS universal frame.

All Anti-slip composite covers are badged ‘Traffic Signals’ & ‘Street Lighting’ as standard.
Ductile Iron Universal Frame - DUNF

Ductile iron is widely used within civil engineering and provides a strong, robust and aesthetically pleasing finish to the chambers. An important feature of this frame is the flange which is specifically engineered to accommodate better adhesion and keying in qualities to the concrete surround. All frames are complete with a locking facility and are clearly marked with the component reference for easy specification and ordering.

DUNF/01L 295 x 275mm nom. (to suit MC1/300x300 chamber)

DUNF/02L 450 x 300mm nom.

DUNF/03L 450 x 450mm nom.

DUNF/04L 600 x 450mm nom.

DUNF/05L 600 x 600mm nom.

DUNF/06T 300mm Dia Sq to Round

DUNF/07T 450mm Dia Sq to Round

Ductile Iron Frame Specification Clause

Frames shall be IDS system manufactured under ISO 9001:2008 approval and shall meet the load requirements of B125. Manufactured from ductile iron and installed in conjunction with IDS installation instructions. The frame, which has a locking facility, locates inside the chamber and can be adjusted for both height and tilt to finished levels.
Galvanised Steel Universal Frame - UNF

**UNF-01 295 x 275mm nom. (to suit MC1/300x300 chamber)**

**UNF-02 450 x 300mm nom.**

**UNF-03 450 x 450mm nom.**

**UNF-04 600 x 450mm nom.**

**UNF-05 600 x 600mm nom.**
## Composite Covers with Galvanised Steel Frames

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<tr>
<td>CSF3030B</td>
<td>300 x 300*</td>
<td>B125 Composite Cover with Galvanised Steel Frame</td>
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<td>CSF3045B</td>
<td>300 x 450</td>
<td>B125 Composite Cover with Galvanised Steel Frame</td>
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<tr>
<td>CSF4545B</td>
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<td>CSF4560B</td>
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</tr>
<tr>
<td>CSF9090B</td>
<td>900 x 900</td>
<td>B125 Composite Cover with Galvanised Steel Frame</td>
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<tr>
<td>CSF12060B</td>
<td>1200 x 600</td>
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<td>CSF12090B</td>
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</tr>
<tr>
<td>CSF12120B</td>
<td>1200 x 1200</td>
<td>B125 Composite Cover with Galvanised Steel Frame</td>
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</table>

*Compatible with MC1 chamber

## Composite Covers with Iron Frames

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<th>Description</th>
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<tr>
<td>CDF3030B</td>
<td>300 x 300*</td>
<td>B125 Composite Cover with Ductile Iron Frame</td>
</tr>
<tr>
<td>CDF3045B</td>
<td>300 x 450</td>
<td>B125 Composite Cover with Ductile Iron Frame</td>
</tr>
<tr>
<td>CDF4545B</td>
<td>450 x 450</td>
<td>B125 Composite Cover with Ductile Iron Frame</td>
</tr>
<tr>
<td>CDF4560B</td>
<td>450 x 600</td>
<td>B125 Composite Cover with Ductile Iron Frame</td>
</tr>
<tr>
<td>CDF6060B</td>
<td>600 x 600</td>
<td>B125 Composite Cover with Ductile Iron Frame</td>
</tr>
</tbody>
</table>

*Compatible with MC1 chamber

## Iron Covers with Iron Frames to BS EN124

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<tr>
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<th>Nominal Size (mm)</th>
<th>Description</th>
</tr>
</thead>
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<tr>
<td>IDS-B01</td>
<td>300 x 300*</td>
<td>B125 Ductile Iron Cover &amp; Frame</td>
</tr>
<tr>
<td>IDS-B02</td>
<td>300 x 450</td>
<td>B125 Ductile Iron Cover &amp; Frame</td>
</tr>
<tr>
<td>IDS-B03</td>
<td>450 x 450</td>
<td>B125 Ductile Iron Cover &amp; Frame</td>
</tr>
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<td>IDS-B04</td>
<td>450 x 600</td>
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<td>IDS-B05</td>
<td>600 x 600</td>
<td>B125 Ductile Iron Cover &amp; Frame</td>
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<td>IDS-B06T</td>
<td>300 Dia</td>
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<tr>
<td>IDS-B07T</td>
<td>450 Dia</td>
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<td>IDS-C01</td>
<td>300 x 300*</td>
<td>C250 Ductile Iron Cover &amp; Frame</td>
</tr>
<tr>
<td>IDS-C02</td>
<td>300 x 450</td>
<td>C250 Ductile Iron Cover &amp; Frame</td>
</tr>
<tr>
<td>IDS-C03</td>
<td>450 x 450</td>
<td>C250 Ductile Iron Cover &amp; Frame</td>
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<td>IDS-C04</td>
<td>450 x 600</td>
<td>C250 Ductile Iron Cover &amp; Frame</td>
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<td>IDS-C05</td>
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<td>C250 Ductile Iron Cover &amp; Frame</td>
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<tr>
<td>IDS-C06T</td>
<td>300 Dia</td>
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<tr>
<td>IDS-C07T</td>
<td>450 Dia</td>
<td>C250 Ductile Iron Cover &amp; Frame</td>
</tr>
</tbody>
</table>

*Compatible with MC1 chamber
Single Span Iron, Composite or Steel Access Covers and Frames
Installation Instructions

1) Once the chamber sections have been built to the required depth, backfilling using MOT Type 1 stone should be completed according to section 8 on page 6. The MOT level should be finished allowing 150mm depth from the top of the chamber.

2) The remaining 150mm depth should be backfilled with C40 concrete and allowed sufficient cure time to achieve compressive strength.

3) Suitable bedding material (see below) should then be laid onto the top of the chamber ensuring that all voids in the chamber wall are filled with material to provide a solid base.

   a) For B125 loading covers, a general purpose bedding mortar such as Ultracrete M60 should be used for securing the frame to the chamber.

   b) For higher load classes, frames should be bedded onto a high strength, rapid set mortar such as Ultracrete Envirobed or PY4. For traffic applications, frames should then be backfilled with a minimum of 300mm width of high strength flowable mortar such as Ultracrete QC10F.

For installation instructions regarding other Savage products please contact us on:
T: 024 7664 1777 or E: technical@peter-savage.co.uk

Other Available Products

KB1D-IDS (Loop Box)
- 150 x 150mm Clear Opening
- 150mm Deep Frame
- Ductile Iron Grade 500/7 for improved strength to weight ratio
- Grade A to BS 5834 part 2
- Badged ‘TS Loop’ as standard
- Frame has slots for cable loop access
**Axis™ Hinged Carriageway Covers**

The Axis™ unique style of hinged access cover allows quick access and single person operation by utilising a series of sequentially hinged triangular lids and a sole captive locking point.

Manufactured to BS EN124 class D400 (400kN) the Axis™ range also comply with the Highways Agency advice note HA104 and additionally comply with BS 7903 making the range particularly suitable for carriageway applications and fast moving traffic.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Clear Opening (mm)</th>
<th>O/all Frame (mm)</th>
<th>Frame Depth (mm)</th>
<th>Tri Lids</th>
<th>Kg’s</th>
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<tbody>
<tr>
<td>KDAX9</td>
<td>600 x 450</td>
<td>760 x 610</td>
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<td>75</td>
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<td>KDAX14</td>
<td>750 x 675</td>
<td>910 x 835</td>
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<td>KDAX13</td>
<td>1310 x 850</td>
<td>1470 x 1010</td>
<td>100</td>
<td>2</td>
<td>250</td>
</tr>
</tbody>
</table>

*Further sizes available please contact sales for details*

**Axis™ Features**

- Complies with HA104
- Manufactured to BS EN124 Class D400
- Ductile Iron to ISO 1083 for improved weight to strength ratio
- BSI Kitemarked for third party assurance of compliance
- Mechanical lifting points for 36mm cranked hinge pins which enables safe and efficient site handling/positioning
- Maximum effort to open hinged cover less than 25kg’s
- Supplied locking as standard with single captive stainless steel cap head bolt
- Sequenced opening - to enable single point locking for ease of use
- Badging available - ‘Motorway Communications’, ‘Traffic Signals’ etc.
- Covers & frames can be fitted with sealing plates or security plates if required
- High security locking bolt available as an option

**Axis™ Examples**
Case Studies

Traffic Signals/Street Lighting - IDS is approved for use by local authorities nationwide and has been specified extensively in numerous traffic signal situations, from major motorway junctions to high street pedestrian crossings. The Switch™ retention socket system has been recently developed specifically to aid the installation of traffic signal poles and to facilitate the reinstatement of poles without the need for excavation works.

The system allows civil engineering works to be carried out prior to pole installation, thus improving continuity of operation, reducing labour costs and minimising highway and pavement disruption.

Typical NeXus™ chamber with 2400 Series Security Access Cover
For MOD applications (JSP480 Compliant)

A5 Longshoot Roundabout

Other projects IDS has been specified on:
- A5 Longshoot Roundabout (see pic above)
- Whetstone Waste Transfer Site
- A453 Widening (see pics opposite)
- Woodside Link Road
- Mersey Gateway
- Gloucester Gateway MSA (M5)
- Valero Oil Refinery - Pembroke
- Chester Zoo
- A41 Moston Road - Upton
- Tottenham Hall Gyratory
- St Michaels Hospice - Hereford
- Porsche Exp/Silverstone Track
- Shrewsbury EFW
- Hydro Energy Company - Swindon
- Midlands Metro
iDS is now part of...

THE UK’S LARGEST RANGE OF ACCESS COVERS & DRAINAGE GRATINGS

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Peter Savage Limited operates a policy of continual development & reserves the right to alter specifications without notice.