An introduction to Howe Green

Howe Green is a leading manufacturer of fabricated metal floor, wall and ceiling access covers providing innovative, practical, economical solutions for accessing concealed services in floors, walls and ceilings.

The company has developed a respected brand name and a worldwide reputation for quality, customer care and service. For over 30 years Howe Green has been at the forefront of design and innovation in the highly specialised architectural building products sector. We supply premium quality aluminium and stainless steel access covers for a range of applications to a diversity of customers. Our aim is simple - to provide building services professionals with an innovative, practical solution to resolve the problem of accessibility to concealed services, quickly, safely and cost effectively.

Howe Green access covers can be found in all types of locations including airports, factories, hospitals, hotels, offices, railway stations, schools, shopping centres, universities, sports stadiums, swimming pools and conservatories.

Why work with Howe Green?

**Expertise**

Our expertise in the floor access cover market has evolved from "hands on" knowledge of working with Terrazzo flooring. This practical experience has given Howe Green a real understanding of the constraints that architects, designers, engineers and building services professionals have to work within. Our products have been designed to provide customers with innovative, practical solutions to everyday problems.

You require easy and cost effective access to concealed services. Access that looks good, complies with Health and Safety regulations, fulfils the building owner’s duty of care and has been manufactured with due consideration of the environment.

Howe Green has the expertise to meet your requirements.

**Quality**

Quality remains at the heart of Howe Green’s manufacturing process. Quality is maintained through the use of the best materials, investment in plant and equipment, the continuous review and refinement of production processes and the operation of strict quality guidelines and rigorous testing. Much of our product development is customer driven. Precision manufacturing to order ensures that you never have to "make do", we will manufacture to your exact specification with no time or cost penalty.

**With Howe Green it is all about you!**

**Values**

Howe Green is a family business and has been built on the traditional values of respect, trust and honesty. These values form the foundation for all activities undertaken within the business. Our team and network of suppliers are valued and respected, we work together to ensure the best possible products and service are delivered to our customers - every day.

Enjoy a working relationship with Howe Green built on respect, trust and honesty.

**Environment**

We are committed to protecting the environment and try to ensure the materials we use and our manufacturing processes have minimal environmental impact.

By keeping informed of developments and trends in green building design and refurbishment Howe Green can apply this knowledge to the issue of energy efficiency and sustainability at the point of product design.

**Howe Green takes a proactive approach to environmental issues.**
Access cover product overview

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<td>5000 series Stainless Steel cover</td>
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<td>7500 series Stainless Steel cover</td>
<td>All types of hard floor finish: Ceramic tiles, Marble, Terrazzo, Concrete, Resin, Parquet floors</td>
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<td>Single cover</td>
<td>150 x 150mm (6 x 6”)</td>
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<td>Duct cover</td>
<td>100 x 100mm (4 x 4”)</td>
<td>900mm span, (35”) any length</td>
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<td>150 x 150mm (6 x 6”)</td>
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<td>Duct cover</td>
<td>100 x 100mm (4 x 4”)</td>
<td>900mm span, (35”) any length</td>
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<tr>
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<td>Duct cover</td>
<td>100 x 100mm (4 x 4”)</td>
<td>900mm span, (35”) any length</td>
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<td>HSE 75 series Hinged Stainless Steel cover</td>
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<td>Single cover</td>
<td>550 x 550mm (21.5” x 21.5”)</td>
<td>1000 x 1000mm (39” x 39”)</td>
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<td>Duct cover</td>
<td>550 x 550mm (21.5” x 21.5”)</td>
<td>900mm span, (35”)</td>
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Floor access covers for hard floor finish

Every type of hard flooring finish can be accommodated within the range of Howe Green floor access covers including ceramic tiles, marble, terrazzo, resin and parquet and even external grade finishes such as paving slabs, granite and concrete.

Features and benefits

Materials
The majority of the Howe Green range of floor access covers for hard floor finishes can be manufactured in either aluminium or stainless steel, giving you the freedom to choose the material most suitable to your particular project.

Configuration
To ensure total versatility our floor access covers can be used singly, in continuous runs as duct covers or over large areas as a multipart cover.

Sizes
Howe Green floor access covers are custom made to your exact specification, between stated maximum and minimum sizes. Our investment in plant and equipment ensures custom-made products can be manufactured without incurring a time or cost surcharge – to save you time and money.

Tolerances In Accordance With BS EN 22768-1:1993 - ISO 2768-1: 1989 - Class C.

Quality
Every aspect of our floor access covers has been designed and manufactured with quality in mind: Covers are precision made to avoid distortion. Lifting blocks are anchored to the inner frame. Stainless steel securing bolts are stiletto heel proof. Top edge seal on aluminium covers helps prevent dirt, grout or grinding waste ingress. Base plates and reinforcement are galvanised steel to resist corrosion, contact our Technical Department if products are to be used in a corrosive environment such as swimming pools.

Fitting
Quick and easy to install ensuring minimum disruption, full installation instructions provided. Access to network of skilled installation experts is available if required.

Easy access
Howe Green floor access covers provide easy access to under floor services using lifting keys to remove the access cover. Cover sections are tapered for easy removal and frame sections give good key to bedding mortar.

Load bearing capacities
Various load bearing capacities, from light duty or pedestrian to a heavy duty pneumatic wheel loading, up to 6.5 tonne, ensure the suitability of the Howe Green range of access covers whatever the location.

Fire ratings
Fire ratings up to three hours are available on most floor access covers.

Weight
The weight of the access cover should be taken into account where ease of handling is an important consideration. In all cases reference should be made to the Manual Handling Operations Regulations 1992, which implement European Directive 90/269/EEC. If loads are excessive, consideration should be given to the use of hydraulic lifters, or our HSE 75 range.

HSE 75 Series
HSE 75 Series is a gas spring assisted hinged access cover designed specifically for situations where either frequent access is required or ease of handling is critical.

Optional extras
In order to give you exactly the floor access cover you require a number of optional extras are available:

- Double seals on the 5000, 7500, 1050 and HSE 75 series to provide the highest levels of hygiene and security.
- Brass, stainless steel or coloured high impact pvc show edges on aluminium 5000 and 7500 series ensure aesthetic choice.
- Underside release hatch available on HSE 75 series.

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Colouredge
Pages 20-21
High impact pvc show edge to blend with the flooring.
Typical specification clause for 2500 series
Recessed floor access / duct* cover and frame trims shall be Howe Green Ltd 2500 series manufactured from stainless steel and fitted with stainless steel securing bolts. Overall outer frame sizes shall be: 1 mm x 1 mm. Covers are to be supplied with 1 sets of combined lifting/securing keys. All to be manufactured and supplied by Howe Green Ltd, Marsh Lane, Ware, Hertfordshire, SG12 9QO, Great Britain, and installed in accordance with the manufacturer’s installation details and sitework guide.

2500 Series
Stainless Steel Single Cover Trims
Floor access covers trims for pedestrian traffic

Single Cover
Typical floor finishes
All types of heavy duty timber floors.
Performance
Pedestrian traffic (including wheeled trolleys, sack trucks etc.) only.

Size
Overall frame size = clear opening
+ 70 mm (2/1")
e.g. 250 x 250 mm (9/1 x 9/1") clear opening
= 320 x 320 mm (12/1 x 12/1")
overall frame.

Maximum / minimum sizes

Typical specification clause for 3500 series
Recessed floor access / duct* covers and frames shall be Howe Green Ltd 3500 series with aluminium show edge, dirt seal and mechanically jointed corners, galvanised baseplate sealed on seating with socket head securing bolts/ unsealed with blanking bolts* SIZES shall be as shown on contract drawings nos. Covers are to be supplied complete with 1 sets of combined lifting/securing keys. All to be manufactured and supplied by Howe Green Ltd, Marsh Lane, Ware, Hertfordshire, SG12 9QO, Great Britain, and installed in accordance with the manufacturer’s installation details and sitework guide.

3500 Series
Aluminium Single Cover/Duct Cover
Floor access covers for pedestrian traffic

Single Cover
Typical floor finishes
Ceramic tiles, marble, terrazzo, concrete, resin wood and all hard floors.
Performance
Pedestrian traffic (including wheeled trolleys, sack trucks etc.) only.
Options
Sealed and secured.

Size
Overall frame size = clear opening
+ 97 mm (3/13/16")
e.g. 200 mm (7/8") clear opening
= 297 mm (11 11/16") overall frame width.

Weight
A 3500 series cover when filled with concrete weighs approx.
60 kg/m² (12 1/2 lbs/ft²).
See installation guide on page 34.

Typical specification clause for 3500 series
Recessed floor access / duct* covers and frames shall be Howe Green Ltd 3500 series manufactured from stainless steel and fitted with stainless steel securing bolts. Overall outer frame sizes shall be: ....† mm x ....† mm. Covers are to be supplied with ....† sets of combined lifting/securing keys. All to be manufactured and supplied by Howe Green Ltd, Marsh Lane, Ware, Hertfordshire, SG12 9QO, Great Britain, and installed in accordance with the manufacturer’s installation details and sitework guide.

www.howegreen.co.uk
Tel: +44 (0)1920 463230
Typical specification clause for 5000 series

Rectified floor access / duct / multipart* covers and frames shall be Howe Green Ltd 5000 series with 1 hour fire rating to BS 476: Part 20: 1987, continuously fastened aluminium / brass / Colouredge*, top edge dirt seal and mechanically jointed corners, galvanised baseplate and reinforcement, double sealed with socket head securing bolts/unsealed with blanking bolts*. Sizes shall be as shown on contract drawings nos. ... 1' covers to be supplied complete with ... 1 sets of combined lifting / securing keys. All to be manufactured and supplied by Howe Green Ltd, Marsh Lane, Wart, Hertfordshire, SG12 9QO, Great Britain, and installed in accordance with the manufacturer’s installation details and site work guide.

* Select as appropriate: 1 front, appropriate number & quantities.

Single Cover

Typical floor finishes
Ceramic tiles, marble, terrazzo, concrete, resin, wood and all hard floors.

Performance
Pedestrian traffic (including wheeled trolleys, sack trucks etc.) only.

Options
Every cover is available with a choice of aluminium or brass show edge, and matching lifting blocks, or Colouredge high impact pvc edges with aluminium lifting blocks (see website). Double seal. These floor ratings to BS 476: Part 20. 1987 available: ask for indicative test report.

Duct Cover

Typical floor finishes
Ceramic tiles, marble, terrazzo, concrete, resin, wood and all hard floors.

Performance
Pedestrian traffic (including wheeled trolleys, sack trucks etc.) only.

Options
Every cover is available with a choice of aluminium or brass show edge, and matching lifting blocks, or Colouredge high impact pvc edges with aluminium lifting blocks (see website). Double seal.

Multipart Cover

Typical floor finishes
Ceramic tiles, marble, terrazzo, concrete, resin, wood and all hard floors.

Performance
Pedestrian traffic (including wheeled trolleys, sack trucks etc.) only.

Options
Every cover is available with a choice of aluminium or brass show edge, and matching lifting blocks, or Colouredge high impact pvc edges with aluminium lifting blocks (see website). Double seal.

Aluminium Single Cover/Duct Cover/Multipart Cover

Floor access covers for pedestrian traffic

Size
Overall frame size = clear opening + 120 mm (4¼”)
A 5000 series cover when filled with concrete weighs approx. 90 kg/m² (18½ lbs/ft²).

Size
Overall frame size = clear opening + 120 mm (4¼”)
e.g. 600 x 600 mm (23¾ x 23¾”) clear opening = 720 x 720 mm (28½ x 28½”) overall frame.

Weight
A 5000 series cover when filled with concrete weighs approx. 90 kg/m² (18½ lbs/ft²).

Typical layout

Maximum / minimum sizes

Typical layout

Typical layout

Recommended rebate: 60 mm (2½“)

Recommended rebate: 90 mm (3½“)

Recommended rebate: 30 mm (1¼“)
Typical specification clause for 5000 series

Recessed floor access / duct / multipart* covers shall be Howe Green Ltd 5000 series with 1 hour fire rating to BS 476: Part 20: 1987*. Stainless steel with galvanised baseplate and reinforcement, double sealed with socket head securing bolts / unsealed with blanking bolts*. Sizes shall be as shown on contract drawings nos. … I Covers are to be supplied complete with … I sets of combined lifting/securing keys. All to be manufactured and supplied by Howe Green Ltd, Marsh Lane, Ware, Hertfordshire, SG12 90Q, Great Britain, and installed in accordance with the manufacturer’s installation details and sitework guide.

* Delete as appropriate. † Insert appropriate numbers & quantities

Single Cover

Typical floor finishes

Ceramic tiles, marble, terrazzo, concrete, resin, wood and all hard floors.

Performance

Pedestrian traffic (including wheeled trolleys, sack trucks etc.) only.

Options

Double seal. 1 hour fire rating to BS 476: Part 20: 1987 available; ask for indicative test report. Insert lifting points.

Duct Cover

Typical floor finishes

Ceramic tiles, marble, terrazzo, concrete, resin, wood and all hard floors.

Performance

Pedestrian traffic (including wheeled trolleys, sack trucks etc.) only.

Options

Double seal. 1 hour fire rating to BS 476: Part 20: 1987 available; ask for indicative test report. Insert lifting points.

Multpart Cover

Typical floor finishes

Ceramic tiles, marble, terrazzo, concrete, resin, wood and all hard floors.

Performance

Pedestrian traffic (including wheeled trolleys, sack trucks etc.) only.

Options

Double seal. 1 hour fire rating to BS 476: Part 20: 1987 available; ask for indicative test report. Insert lifting points.

Size

Overall frame size = clear opening + 130 mm (53⁄4")

- e.g. 600 x 900 mm (23⁄4 x 33⁄4")

- clear opening = 730 x 1030 mm (29 x 409⁄16")

Overall frame.

Weight

A 5000 series cover when filled with concrete weighs approx. 90 kg/m² (181⁄2 lbs/ft²).

See installation guide on page 34.

Maximum / minimum sizes

- 750 mm (29")

- clear opening

- Overall frame size = clear opening + 130 mm (53⁄4")

- e.g. 550 mm (213⁄32")

- clear opening = 680 mm (263⁄4")

Overall frame with Subject to correct infill/installation.

Weight

A 5000 series cover when filled with concrete weighs approx. 90 kg/m² (181⁄2 lbs/ft²).

See installation guide on page 34.

Typical layout

Size

Because of the potentially complex design of multipart layouts, Howe Green recommend early consultation with their Technical Department to achieve the optimum and most economical layout for the given installation.

Weight

A 5000 series cover when filled with concrete weighs approx. 90 kg/m² (181⁄2 lbs/ft²).

See installation guide on page 34.
Typical specification clause for 7500 series

Recessed floor access / duct / multipart* covers and frames shall be Howe Green Ltd 7500 series, with 3 hour fire rating to BS 476: Part 20: 1987. * Covers to be supplied complete with 1 set of combined lifting / securing keys. All to be manufactured by Howe Green Ltd, Marsh Lane, Ware, Hertfordshire, SG12 9QO, Great Britain, and installed in accordance with the manufacturer’s installation details and stovework guide.

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**Single Cover**

**Typical floor finishes**
- Ceramic tiles, marble, terrazzo, concrete, resin, wood and all hard floors.

**Performance**
- Up to 5 tonnes pneumatic tyre wheel load (cars and light delivery vehicles).

**Options**
- Every cover is available with a choice of aluminium or brass show edge, and matching lifting blocks, or Colouredge high impact PVC edges with aluminium lifting blocks (see website). Double seal. 3 hour fire rating to BS 476: Part 20: 1987 available; ask for indicative test report.

**Size**
- Overall frame size = clear opening + 120 mm (4 3/8") e.g. 600 x 900 mm (23 5/8" x 35 3/8") overall frame.

**Weight**
- A 7500 series cover when filled with concrete weighs approx. 155 kg/m² (32 lbs/ft²).

**Duct Cover**

**Typical floor finishes**
- Ceramic tiles, marble, terrazzo, concrete, resin, wood and all hard floors.

**Performance**
- Up to 5 tonnes pneumatic tyre wheel load (cars and light delivery vehicles).

**Options**
- Every cover is available with a choice of aluminium or brass show edge, and matching lifting blocks, or Colouredge high impact PVC edges with aluminium lifting blocks (see website). Double seal. 3 hour fire rating to BS 476: Part 20: 1987 available; ask for indicative test report.

**Size**
- Overall frame size = clear opening + 120 mm (4 3/8") e.g. 550 mm (21 7/16") clear opening = 670 mm (26 1/4") overall frame.

**Weight**
- A 7500 series cover when filled with concrete weighs approx. 155 kg/m² (32 lbs/ft²).

**Multipart Cover**

**Typical floor finishes**
- Ceramic tiles, marble, terrazzo, concrete, resin, wood and all hard floors.

**Performance**
- Up to 5 tonnes pneumatic tyre wheel load (cars and light delivery vehicles).

**Options**
- Every cover is available with a choice of aluminium or brass show edge, and matching lifting blocks, or Colouredge high impact PVC edges with aluminium lifting blocks (see website). Double seal. 3 hour fire rating to BS 476: Part 20: 1987 available; ask for indicative test report.

**Size**
- Because of the potentially complex design of multipart layouts, Howe Green recommend early consultation with their Technical Department to achieve the optimum and most economical layout for the given installation. See also general notes on cover.

**Weight**
- A 7500 series cover when filled with concrete weighs approx. 155 kg/m² (32 lbs/ft²).

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**Aluminium Single Cover/Duct Cover/Multipart Cover**

Floor access covers for cars and light delivery vehicles

**Maximum / minimum sizes**

**Typical layout**

**Cross section showing anchor lugs and locking / lifting detail**

**Cross section showing removable support beam and cross members**

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* Delete as appropriate. † Insert appropriate numbers & quantities.
**Typical specification clause for 7500 series**

Recessed floor access / duct / multipart* covers and frames shall be Howe Green Ltd 7500 series, stainless steel, with 3 hour fire rating to BS 476: Part 20: 1987*. Double seal. 2 hour fire (cars and light delivery vehicles). Up to 3 tonne pneumatic tyre wheel load (cars and light delivery vehicles).

**Typical floor finishes**

- Ceramic tiles, marble, terrazzo, concrete, resin, wood and all hard floors.
- Ceramic tiles, marble, terrazzo, concrete, resin, wood and all hard floors.

**Options**

- Double seal: 3 hour fire rating to BS 476: Part 20: 1987 available, ask for indicative test report. Inset lifting points.

**Size**

- Overall frame size = clear opening + 130mm (5½") e.g. 600 x 900 mm (23½ x 35½")
- Clear opening = 730 x 1030 mm (29 x 40¾") overall frame.

**Performance**

- Howe Green recommends early consultation with their design of multipart layouts, Howe Green Technical Department to achieve the optimum and most economical layout for the given installation.

**Weight**

- A 7500 series cover when filled with concrete weighs approx. 155 kg/m² (32 lbs/ft²).

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**Stainless Steel Single Cover/Duct Cover/Multipart Cover**

**Floor access covers for cars and light delivery vehicles**

**Maximum / minimum sizes**

- **Single Cover**
  - Overall frame size = clear opening + 130mm (5½") e.g. 550 mm (21⅛") clear opening = 680 mm (26⅜") overall frame width.
  - Subject to correct infill/installation.

- **Duct Cover**
  - Overall frame size = clear opening + 130mm (5½") e.g. 550 mm (21⅛") clear opening = 680 mm (26⅜") overall frame width.
  - Subject to correct infill/installation.

- **Multipart Cover**
  - Because of the potentially complex design of multipart layouts, Howe Green recommends early consultation with their Technical Department to achieve the optimum and most economical layout for the given installation.
  - See also general notes on cover.

**Weight**

- A 7500 series cover when filled with concrete weighs approx. 155 kg/m² (32 lbs/ft²).

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**Typical layout**

- Cross section showing concrete and timber sub-floors
- Cross section showing anchor lugs and locking / lifting detail
- Cross section showing removable support beam and cross members

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* Delete as appropriate. † Insert appropriate numbers & quantities in accordance with the manufacturer’s installation details and sitework guide.
Typical specification clause for 1050 series

Recessed floor access / duct / multipart* covers and frames shall be Howe Green Ltd 1050 series, with 2 hour fire rating to BS 476: Part 20: 1987*. Stainless steel with galvanised base plate and reinforcement, double sealed with socket head securing bolts/unscrewed with blanking bolts*. Sizes shall be as shown on contract drawings nos ... Covers to be supplied complete with ... sets of combined lifting/ securing keys. All to be manufactured and supplied by Howe Green Ltd, March Lane, Ware, Hertfordshire, SG12 9RO, Great Britain, and installed in accordance with the manufacturer’s installation details and sitework guide.

* Delete as appropriate. † Insert appropriate numbers & quantities.

### Single Cover

**Typical floor finishes**
External grade paving slabs including granite and concrete.

**Performance**
Up to 6.5 tonne pneumatic tyre wheel load.

**Options**
- Double seal: inset lifting points, 3 hour fire rating to BS 476: Part 20: 1987 available; ask for indicative test report.

![Single Cover Diagram]

**Size**
- Overall frame size = clear opening + 130 mm (5")
  - e.g. 600 x 900 mm \((23\times35\frac{3}{8})\) clear opening = 730 x 1080 mm (29 \(40\frac{3}{8}\)) overall frame.

**Weight**
A 1050 series cover when filled with concrete weighs approx. 220 kg/m² (45 lbs/ft²).

See installation guide on page 34.

### Duct Cover

**Typical floor finishes**
External grade paving slabs including granite and concrete.

**Performance**
Up to 6.5 tonne pneumatic tyre wheel load.

**Options**
- Double seal: inset lifting points, 3 hour fire rating to BS 476: Part 20: 1987 available; ask for indicative test report.

![Duct Cover Diagram]

**Size**
- Overall frame size = clear opening + 130 mm (5")
  - e.g. 550 mm (21\frac{1}{16}) clear opening = 680 mm (26\frac{3}{8}) overall frame width. Subject to correct infill/installation.

**Weight**
A 1050 series cover when filled with concrete weighs approx. 220 kg/m² (45 lbs/ft²).

See installation guide on page 34.

### Multipart Cover

**Typical floor finishes**
External grade paving slabs including granite and concrete.

**Performance**
Up to 6.5 tonne pneumatic tyre wheel load.

**Options**
- Double seal: inset lifting points, 3 hour fire rating to BS 476: Part 20: 1987 available; ask for indicative test report.

![Multipart Cover Diagram]

**Size**
Because of the potentially complex design layout of multipart layouts, Howe Green recommends early consultation with their Technical Department to achieve the optimum and economical layout for the given installation.

**Weight**
A 1050 series cover when filled with concrete weighs approx. 220 kg/m² (45 lbs/ft²).

See installation guide on page 34.
**Single Cover / Duct Cover**

**Typical floor finishes**
- Ceramic tiles, marble, terrazzo, concrete, resin, wood and all hard floors.

**Performance**
- Up to 5 tonnes pneumatic tyre wheel load (cars and light delivery vehicles).

**Options**
- Double Seal. 3 hour fire rating to BS 476: Part 20: 1987 available; ask for indicative test report.

Size
- Overall top of frame size (when looking as drawing) = clear opening + 133 mm (5\(\frac{1}{8}\))
- The 2 sides not shown above are 60mm (2\(\frac{3}{8}\)), so the clear opening to overall dimension in that plane is + 120 mm (4\(\frac{3}{4}\))
- e.g. 600 x 600 mm (23\(\frac{5}{8}\) x 23\(\frac{5}{8}\)) clear opening = 733 x 720 mm (28\(\frac{7}{8}\) x 28\(\frac{3}{8}\)) overall top of frame.

**Weight**
- A HSE 75 series access hatch when filled and installed correctly will require a maximum force of 20kg (45 lbs) to open.

Performance Notes:
- Trucks with small wheels and solid tyres, may limit sizes to less than the stated maximum span. Alternatively, greater spans may be used, but at reduced loadings.
- See installation guide on page 34.

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**Typical specification clause for HSE 75 series**

Recessed floor access hatch shall be Howe Green Ltd HSE 75 series, with fire rating to BS 476: Part 20: 1987, *aluminium / stainless steel show edge*, hatch to be fitted with concealed multi-link hinges, gas springs, galvanised base plate, reinforcement and double seal, top and underside release / top release only.

Sizes shall be as shown on contract drawings nos. 1. Covers to be supplied complete with 1 sets of combined lifting / securing keys.

All to be manufactured and supplied by Howe Green Ltd, March Lane, Ware, Hertfordshire, SG12 9QQ, Great Britain, and installed in accordance with the manufacturer’s installation details and stiwen guide.

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**Single Cover / Duct Cover**

**Typical floor finishes**
- Ceramic tiles, marble, terrazzo, concrete, resin, wood and all hard floors.

**Performance**
- Up to 5 tonnes pneumatic tyre wheel load (cars and light delivery vehicles).

**Options**
- Double Seal. 3 hour fire rating to BS 476: Part 20: 1987 available; ask for indicative test report.

Size
- Overall frame size = clear opening + 147 mm (5\(\frac{1}{8}\))
- e.g. 600 x 600 mm (23\(\frac{5}{8}\) x 23\(\frac{5}{8}\)) clear opening = 747 mm (29\(\frac{13}{32}\)) overall frame width.

**Weight**
- A HSE 75 series access hatch when filled and installed correctly will require a maximum force of 20kg (45 lbs) to open.

Performance Notes:
- Trucks with small wheels and solid tyres, may limit sizes to less than the stated maximum span. Alternatively, greater spans may be used, but at reduced loadings.
- See installation guide on page 34.

---

**Typical specification clause for HSE 75 series**

Recessed floor access hatch shall be Howe Green Ltd HSE 75 series, with fire rating to BS 476: Part 20: 1987, *aluminium / stainless steel show edge*, hatch to be fitted with concealed multi-link hinges, gas springs, galvanised base plate, reinforcement and double seal, top and underside release / top release only.

Sizes shall be as shown on contract drawings nos. 1. Covers to be supplied complete with 1 sets of combined lifting / securing keys.

All to be manufactured and supplied by Howe Green Ltd, March Lane, Ware, Hertfordshire, SG12 9QQ, Great Britain, and installed in accordance with the manufacturer’s installation details and stiwen guide.

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**Hinged floor access covers for cars and light delivery vehicles**

**Aluminium Single Cover/Duct Cover**

**Maximum / minimum sizes**

Cross section showing timber sub-floors

Cross section showing concrete sub-floor

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**Stainless Steel Single Cover/Duct Cover**

**Maximum / minimum sizes**

Cross section showing concrete sub-floor
5 BAR Series
Aluminium Tread Plate Covers
Tread plate covers for pedestrian traffic

Typical specification clause for 5 BAR series
Aluminium access covers shall be Howe Green Ltd 5 Bar series, with aluminium tread plate lid, reinforced as required, single seal*, quick release stainless steel fasteners. Sizes shall be as shown on contract drawings nos ... Covers to be supplied complete with ... sets of contoured lifting / securing keys. All to be manufactured and supplied by Howe Green Ltd, Marsh Lane, Ware, Hertfordshire, SG12 9OQ, Great Britain, and installed in accordance with the manufacturer’s installation details and site work guide.

* Delete as appropriate / Insert appropriate numbers & quantities

Tread Plate Cover

Size
Overall frame size = clear opening
+ 82 mm (31⁄4")
e.g. 600 mm (231⁄8") clear opening
= 682 mm (26 7⁄8") overall frame.

Performance
Trucks with small wheels and solid tyres, such as pallet rollers, may limit sizes to less than the stated minimum span. Alternatively, greater spans may be used, but at reduced loadings.

Weight
A 5 Bar series access cover weighs 18 kg/m² (33⁄4 lbs/ft²).

See installation guide on page 34.

Performance Note: Trucks with small wheels and solid tyres, such as pallet rollers, may limit sizes to less than the stated minimum span. Alternatively, greater spans may be used, but at reduced loadings.

Weight
A 5 Bar series access cover weighs 18 kg/m² (33⁄4 lbs/ft²).

See installation guide on page 34.

Options
Single Seal.

Typical floor finishes
Ceramic tiles, terrazzo, concrete, resin
and all hard floors.

Performance
Pedestrian traffic (including wheeled trolleys, sack trucks etc.) only. Consult the Howe Green Technical Department for heavier loadings.

Maximum / minimum sizes

Cross section showing concrete sub-floor

Colouredge
High impact pvc show edge to blend with the flooring

Colouredge is available in the following colour options:

Black
Forest Green
White
Slate Grey
Terracotta
Sandstone
Solid Brass

www.howegreen.co.uk Tel: +44 (0)1920 463230
www.howegreen.co.uk Tel: +44 (0)1920 463230
Floor access covers for flexible floor finish

Howe Green offers the Visedge series of floor access covers that have been specially designed for sheet flooring such as PVC, linoleum and rubber and some carpets.

Features and benefits

Materials
The Visedge series of floor access covers for flexible floor finishes is manufactured from aluminium with a galvanised steel deck.

Configuration
To ensure total versatility the Visedge series of floor access covers can be used singly, in continuous runs as duct covers or over large areas as a multipart cover.

Sizes
Howe Green Visedge floor access covers are custom made to your exact specification, between stated maximum and minimum sizes. Our investment in plant and equipment ensures custom made products can be manufactured without incurring a time or cost surcharge – to save you time and money.

Quality
Every aspect of our Visedge series of floor access covers has been designed and manufactured with quality in mind:

Covers are precision made to avoid distortion
A tough, lightweight, corrosion resistant access cover solution
Crimped corners allow the access cover and frame to lie flush with the flooring
Available with a top edge seal to help prevent dirt and water ingress
Galvanised steel base plates and reinforcement to resist corrosion. Contact our Technical Department if products are to be used in a corrosive environment such as swimming pools.

Fitting
Quick and easy to install ensuring minimum disruption, full installation instructions provided. Access to network of skilled installation experts is available if required.

Easy access
Howe Green floor access covers provide easy access to under floor services using lifting keys to remove the access cover.

Load bearing capacities
A light duty access cover with a load bearing capacity suitable for pedestrian traffic, including wheeled trolleys and sack trucks.

Fire ratings
Fire ratings up to three hours are available on most floor access covers.

Aluminium securing edge trims to seal and protect junctions between flexible flooring and hard flooring.

Visedge DS
The Visedge DS secures and protects the edge of the flexible flooring when it has been laid on top of another surface. The Visedge DS is designed for limited depth application and pedestrian traffic.

Visedge VR
The Visedge VR is a vinyl edge securing trim with weldable PVC edge designed to enable two differing floor finishes, such as vinyl and terrazzo to be finished flush. The Visedge VR anchors the perimeter of the flexible flooring to prevent the ingress of water and to protect the edge profile of the adjoining hard floor finish. It forms an impermeable, flat, hygienic and permanent joint. The Visedge VR is designed for limited depth application and pedestrian traffic.
Typical specification clause for Visedge series
Aluminium access covers and duct/multipart covers* and frames shall be Howe Green Ltd Visedge series with top edge dirt seal, weldable pvc securing edge, mechanically jointed corners, double sealed on seating and fitted with securing bolts. Sizes shall be as shown on contract drawings nos ... 7. Covers are to be supplied complete with ... 8. sets of combined lifting/secure keys. All to be manufactured and supplied by Howe Green Ltd, March Lane, Ware, Hertfordshire, SG12 9QG, Great Britain, and installed in accordance with the manufacturer’s installation details and sitework guide.

* Delete as appropriate. † Insert appropriate numbers & quantities

**Single Cover**

Typical floor finishes
Vinyl, linoleum, rubber, all flexible floor coverings and some carpets.

Performance
Pedestrian traffic (including wheeled trolleys, sack trucks etc.) only. Consult the Howe Green Technical Department for heavier loadings.

Size
Overall frame size = clear opening + 137 mm (5½”).
E.g. 600 mm (23/8”) clear opening = 737 mm (29/32”) overall frame width.

Weight
A Visedge series cover weighs approx. 55 kg/m² (11.1 lbs/ft²).
See installation guide on page 35.

**Duct Cover**

Typical floor finishes
Vinyl, linoleum, rubber, all flexible floor coverings and some carpets.

Performance
Pedestrian traffic (including wheeled trolleys, sack trucks etc.) only. Consult the Howe Green Technical Department for heavier loadings.

Size
Overall frame size = clear opening + 137 mm (5½”).
E.g. 600 mm (23/8”) clear opening = 737 mm (29/32”) overall frame.
Subject to correct installation.

Weight
A Visedge series cover weighs approx. 55 kg/m² (11.1 lbs/ft²).
See installation guide on page 35.

**Multipart Cover**

Typical floor finishes
Vinyl, linoleum, rubber, all flexible floor coverings and some carpets.

Performance
Pedestrian traffic (including wheeled trolleys, sack trucks etc.) only. Consult the Howe Green Technical Department for heavier loadings.

Size
Because of the potentially complex design of multipart layouts, Howe Green recommend early consultation with their Technical Department to achieve the optimum and most economical layout for the given installation. Subject to correct installation. Removable support beams are finished with red primer.

Weight
A Visedge series cover weighs approx. 55 kg/m² (11.1 lbs/ft²).
See installation guide on page 35.

**Visedge Series**

Aluminium Single Cover/Duct Cover/Multipart Cover

Cross section showing concrete and timber sub-floors

Cross section showing anchor lugs and locking / lifting detail

Cross section showing removable support beam and cross members

Maximum / minimum sizes

<table>
<thead>
<tr>
<th><strong>Size</strong></th>
<th><strong>Weight</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>55 kg/m²</td>
<td>11.1 lbs/ft²</td>
</tr>
</tbody>
</table>

Subject to correct installation.

Typical layout

Section AA

Section BB

Typical floor finishes
Vinyl, linoleum, rubber, all flexible floor coverings and some carpets.

Performance
Pedestrian traffic (including wheeled trolleys, sack trucks etc.) only. Consult the Howe Green Technical Department for heavier loadings.

Weight
A Visedge series cover weighs approx. 55 kg/m² (11.1 lbs/ft²).
See installation guide on page 35.
Securing Edge Trim

Typical floor finishes
For partitions of flexible sheeting, e.g. vinyl or linoleum and hard paving, e.g. ceramic tiling etc.

Performance
Visedge DS is designed to anchor securely the perimeter of the vinyl flooring.

Size
Visedge DS is stocked in packs of 5 No. 2.0 metre (78 1/2”) lengths. Any quantity of 2.0 metre (78 1/2”) lengths can be supplied. Subject to correct infill/installation. See installation guide on page 35.

Typical specification clause for Visedge DS series
Vinyl edge securing trim shall be Howe Green Ltd Visedge DS. Total quantity = .... No. 2.0 metre lengths. All to be manufactured and supplied by Howe Green Ltd, Marsh Lane, Ware, Hertfordshire, SG12 90Q, Great Britain, and installed in accordance with the manufacturer’s installation details and sitework guide.

* Delete as appropriate. † Insert appropriate numbers & quantities

Visedge DS Series
Aluminium Securing edge trim for limited depth application
Securing edge trim for pedestrian traffic

Visedge VR Series
Aluminium Securing edge trim for limited depth application
Securing edge trim for pedestrian traffic

Securing Edge Trim

Typical floor finishes
For partitions of flexible sheeting, e.g. vinyl or linoleum and hard paving, e.g. ceramic tiling etc.

Performance
Visedge VR is designed to anchor securely the perimeter of the vinyl sheeting to prevent the ingress of water and to protect the edge profile of the adjoining ceramic tile paving.

Size
Visedge VR is stocked in packs of 5 No. 2.0 metre (78 1/2”) lengths. Any quantity of 2.0 metre (78 1/2”) lengths can be supplied. Subject to correct infill/installation. See installation guide on page 35.

Typical specification clause for Visedge VR series
Vinyl edge securing trim shall be Howe Green Ltd Visedge VR with weldable pvc securing edge. Total quantity = .... No. 2.0 metre lengths. All to be manufactured and supplied by Howe Green Ltd, Marsh Lane, Ware, Hertfordshire, SG12 90Q, Great Britain, and installed in accordance with the manufacturer’s installation details and sitework guide.

* Delete as appropriate. † Insert appropriate numbers & quantities

Securing Edge Trim

Typical floor finishes
For partitions of flexible sheeting, e.g. vinyl or linoleum and hard paving, e.g. ceramic tiling etc.

Performance
Visedge VR is designed to anchor securely the perimeter of the vinyl sheeting to prevent the ingress of water and to protect the edge profile of the adjoining ceramic tile paving.

Size
Visedge VR is stocked in packs of 5 No. 2.0 metre (78 1/2”) lengths. Any quantity of 2.0 metre (78 1/2”) lengths can be supplied. Subject to correct infill/installation. See installation guide on page 35.

Typical specification clause for Visedge VR series
Vinyl edge securing trim shall be Howe Green Ltd Visedge VR with weldable pvc securing edge. Total quantity = .... No. 2.0 metre lengths. All to be manufactured and supplied by Howe Green Ltd, Marsh Lane, Ware, Hertfordshire, SG12 90Q, Great Britain, and installed in accordance with the manufacturer’s installation details and sitework guide.

* Delete as appropriate. † Insert appropriate numbers & quantities

Securing Edge Trim

Typical floor finishes
For partitions of flexible sheeting, e.g. vinyl or linoleum and hard paving, e.g. ceramic tiling etc.

Performance
Visedge VR is designed to anchor securely the perimeter of the vinyl sheeting to prevent the ingress of water and to protect the edge profile of the adjoining ceramic tile paving.

Size
Visedge VR is stocked in packs of 5 No. 2.0 metre (78 1/2”) lengths. Any quantity of 2.0 metre (78 1/2”) lengths can be supplied. Subject to correct infill/installation. See installation guide on page 35.

Typical specification clause for Visedge VR series
Vinyl edge securing trim shall be Howe Green Ltd Visedge VR with weldable pvc securing edge. Total quantity = .... No. 2.0 metre lengths. All to be manufactured and supplied by Howe Green Ltd, Marsh Lane, Ware, Hertfordshire, SG12 90Q, Great Britain, and installed in accordance with the manufacturer’s installation details and sitework guide.

* Delete as appropriate. † Insert appropriate numbers & quantities
Access covers for walls and ceilings

Howe Green offers a range of steel access panels designed to access concealed services located in walls and ceilings.

The Waldor 50 is suitable for walls with tiled finishes up to 12 mm (\(\frac{1}{2}\)\text{"	extsuperscript{nd}}\)) thick where regular access is required. The Tile-A-Door+ is designed for areas where occasional access is required and can accept a tiled finish up to 12 mm (\(\frac{1}{4}\)\text{"\textsuperscript{th}}\)).

The Maghatch is suitable for plaster walls and the Combihatch for plaster walls and ceilings, both are supplied ready primed to accept a paint finish. The Maghatch offers an economical solution for areas where infrequent access is required and the Combihatch is recommended for regular access.

Features and benefits

Materials
The range of Howe Green wall and ceiling access covers are manufactured from corrosion resistant steel.

Configuration
The Combihatch access cover is available as a single or double leaf for both walls and ceilings.

Sizes
Howe Green wall and ceiling access covers are manufactured to order in 1 mm increments, to your exact specification, between the stated maximum and minimum sizes. Our investment in plant and equipment ensures custom made products can be manufactured without incurring a time or cost surcharge – to save you time and money.

Quality
Every aspect of our wall and ceiling access covers has been designed and manufactured with quality in mind:

- Covers are precision made to ensure accurate and unobtrusive installation.
- Maintenance free.

Fitting
Quick and easy to install ensuring minimum disruption, full installation instructions provided. Access to our network of skilled installation experts is available if required.

Easy access
Howe Green wall and ceiling access covers provide easy access to concealed services.

Fire ratings
A fire rating of up to one hour is available on Combihatch access covers for walls and ceilings.

Optional extras
In order to give you exactly the wall or ceiling access cover you require a number of optional extras are available:

Waldor 50
Doors can be fitted with either “push pull” concealed or security locks.

Stainless steel show edge is available for both the door and frame.

Tile-A-Door+
Special finishes – for example brushed stainless steel.

Maghatch
Special finishes – for example brushed stainless steel.

Combihatch
Covers can be fitted with either budget or security locks.

Outer frames can incorporate a plaster bead or picture frame surround.

Special finishes – for example brushed stainless steel.

Waldor 50
Stainless Steel - Pages 30-31
For access through tiled wall surfaces

Tile-a-Door+
Pages 30-31
For access through wall surfaces

Maghatch
Pages 32-33
For access through wall surfaces

Combihatch
Pages 32-33
For access through walls and ceilings
**Introduction**

The Howe Green Waldor 50 access panel is designed to give access to concealed services within tiled walls.

**Composition and manufacture**

Manufactured from 1.5mm thick corrosion-resistant stainless steel with patented concealed hinge.

**Options**

The doors can be fitted with either “push pull” concealed or security locks. Also available is an optional stainless steel edge trim for both the door and frame.

---

**Typical specification clause for Waldor 50 series**

Wall access panels shall be Howe Green Ltd Waldor 50 Series manufactured from stainless steel with a patented concealed hinge and fitted with a push pull/security lock*. The cover and outer frame are to be fitted with a stainless steel edge trim. Door sizes shall be mm X mm. All to be manufactured and supplied by Howe Green Ltd, Marsh Lane, Ware, Herts, SG12 9QQ, Great Britain, and installed in accordance with the manufacturers details and site work guide.

* Delete as appropriate.

---

**Size**

All panels are manufactured to order in 1mm (½”) increments between the minimum and maximum sizes listed. Minimum door size 300 H X 300 mm (11½”) W. Maximum door size 900 H X 600 mm W (35”) x 23½”).

Cut out size = door size + 7 mm (9/32”).

Clear opening = door size –24 mm H (15/16”) and –100 mm W (4”).

See installation guide on page 36.

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**Introduction**

The Howe Green Tile-a-Door+ removable wall access panel has been designed to give easy economical access to concealed services. The units are supplied ready to tile, accepting up to a 10mm thick finish.

**Composition and manufacture**

Manufactured from mild steel electro-galvanised sections and fitted with magnetic latches.

**Options**

Covers can be fitted with either a budget/security lock or magnetic latch if required.

---

**Typical specification clause for Tile-a-Door+ series**

Wall access panels shall be Howe Green Ltd Tile-a-Door+, manufactured from electro-galvanised mild steel with a concealed pivot, the panels are to be fitted with a budget/security lock*. Overall door sizes shall be mm X mm. All to be manufactured and supplied by Howe Green Ltd, Marsh Lane, Ware, Herts, SG12 9QQ, Great Britain, and installed in accordance with the manufacturers details and site work guide.

* Delete as appropriate.

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**Size**

All panels are made to order in 1mm (½”) increments to suit the tile module. The maximum area of door available is 0.15m² (1½”) in g. 400 X 400 mm (15½”) x 15½”) or 600 X 260 mm (23½”) x 10½”).

There is a nominal gap between cover and frame of 3mm (⅛”). The size of the cut out required in the wall is the door size + 15 mm (%”).

See installation guide on page 36.
**Typical specification clause for Maghatch series**

Wall access panels shall be Howe Green Ltd Maghatch series manufactured from electroplated steel with a primer finish. Cut out sizes shall be ...mm x ...mm. All to be manufactured and supplied by Howe Green Ltd, Marsh Lane, Ware, Herts, SG12 9QO, Great Britain, and installed in accordance with the manufacturers details and site work guide.

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**Introduction**

The Howe Green Maghatch access panel is designed to give access to concealed services within walls such as valves or rodding points. The panel frame is simply bonded to the wall using a panel adhesive.

**Composition and manufacture**

Manufactured from 1.2mm (3⁄64") thick zinc coated steel finished with a primer coat ready to accept a paint finish.

---

**Size**

The standard size is 210 X 210 mm (81⁄4 x 81⁄4") overall the outer frame with a 150 X 150 mm (6 x 6") removable panel.

Special sizes are available to order with a maximum removable panel size of 250 X 250 mm (97⁄8 x 97⁄8”).

See installation guide on page 36.

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**Typical specification clause for Combihatch series**

Wall/ceiling access panels shall be Howe Green Ltd Combihatch series manufactured from electroplated steel with a concealed hinge and fitted with a budget/security lock*, the outer frame is to be fitted with a picture frame/plaster bead*. The door panel shall be metal faced and powder coated to RAL 9003 matt finish. Cut out sizes shall be ...mm X ...mm. Hatches are to be fire rated for 60 minutes to BS 476: Part 20: 1987*. All to be manufactured and supplied by Howe Green Ltd, Marsh Lane, Ware, Herts, SG12 9QO, Great Britain, and installed in accordance with the manufacturers details and site work guide.

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**Introduction**

The Howe Green Combihatch access panel is designed to give access to concealed services within walls and ceilings.

**Composition and manufacture**

Manufactured from 1.2mm electro-galvanised mild steel, powder coated to RAL 9003 matt finish.

**Options**

The doors can be fitted with either budget or security locks. The outer frames can incorporate a plaster bead or picture frame surround. Brushed stainless finish. 1 Hour fire rating to BS 476: Part 22: 1987.
Installation guide & sitework details

These details are intended as a general guide to correct installation – it is appreciated that site practice can vary depending on the design of slab, type of finish etc.

Further advice is always available from our Technical Department. Times stated between the hours of 9 am and 5.30 pm on 01920 463230, or alternatively you can email them at info@howegreen.co.uk.

Preparation

Covers are supplied ready for installation internally without further preparation. In external locations, or those that may be permanently wet, all aluminium surfaces in contact with concrete should receive two coats of bituminous paint.

Single covers

1. The cover should be placed into the outer frame and securing bolts screwed in loosely if applicable. For stainless covers thread the anchor lugs.
2. The whole assembly should be bedded down to the correct level. Hunch mortar up on outside of outer frame, to prevent any possible distortion of outer frame when surrounding floor finish is laid.
3. Leave the bedding mortar to cure, then complete the surrounding floor finish.
4. The cover should now be filled (with the exception of the 5 Bar series) without removing it from the outer frame, and using spacers provided between cover and frame. (Note that the design loading and if applicable, fire resistance can only be achieved if the infill is equivalent to the 28 day cube strength of OPC concrete of 40 MPa.)
5. When properly set remove cover and clean taking care not to damage any seals. Make good pointing to the underside of the outer frame. Replace cover.

Duct covers

1. The outer frame will be either of one piece construction if size permits or sectional if large. If it is sectional several covers will have been screwed into the outer frame sections (these should now be loosened) to pre-space to the correct slab spans if possible. If the unit incorporates steel beams, the beam receiving pockets (if not already attached to the outer frame) should be fitted using the screws provided. Fix stop ends to the end of the outer frame-sections with connecting spacers supplied. These are only for the purpose of locating one length of outer with the next and are not intended to provide a full strength joint.
2. Fix anchor lugs to the outside edge of the outer frame by cramping with pliers at approx. 600 mm (24") centres.
3. Fix anodised or stainless cross members into position, (if fitted) then bed frame down to correct size and level. (if the frame is sectional working away from the stop end) making sure that the frame remains straight and is not distorted in any way. If universal beams are incorporated they require levelling by placing packing mortar between base of beam pocket and loose beam seating plates supplied.
4. As work proceeds place loose covers into duct frame to check that the gap between the outer frames is correct making sure that spacers supplied are used between cover and frame to maintain a minimum 1 mm (1/32") joint between the cover and frame, and bolts if fitted are screwed in loosely. The covers may now be filled (with the exception of the 5 Bar series) and the floor finish to the outside of the outer frame completed. Again take care not to distort either the cover or the outer frame sections. Larger span covers may require propping from below to prevent distortion caused by the weight of the wet concrete infill. (Note that the design loading and if applicable, fire resistance can only be achieved if the infill is equivalent to the 28 day cube strength of OPC concrete of 40 MPa).
5. If property set remove cover and clean taking care not to damage any seals. Make good pointing to the underside of the outer frame. Replace cover.

HSE 75 series

1. Remove the hinge securing bolts, then lift out the cover from the outer frame. Assemble the lower gas spring fixing brackets with the outer frame using the bolts supplied.
2. Bed the outer frame on mortar to the correct line and level ensuring that the lower gas spring brackets are in contact with the vertical concrete face of the pit wall.
3. Mark and drill 8 fixing holes through the lower gas spring brackets into the vertical concrete face of the pit wall, and then bolt to the concrete using suitable fasteners.
4. At this stage the cover should be positioned within the outer frame and the hinges bolted to the outer frame, the safety stay should also be attached using the bolts provided. The hinges should now be adjusted to provide a minimum 1mm gap between the cover and frame (stainless version only), the spacers provided should be used to maintain the minimum 1mm gap. Haunch mortar up on outside of outer frame, to prevent any possible distortion of outer frame when surrounding floor finish is laid.
5. Leave the bedding mortar to cure, then complete the surrounding floor finish.
6. The cover should now be filled without removing it from the outer frame. (Note that the design loading and if applicable, fire resistance can only be achieved if the infill is equivalent to the 28 day cube strength of OPC concrete of 40 MPa).
7. When properly set the cover should be filled with waxoyl or similar inhibitor if required. The floor finish should then be welded, in accordance with the manufacturer’s instructions, to the top edge of the PVC extrusion, on both the cover frame and the outer frame. Screw down the clamping ferrules until they are flush with the floor finish. Finally lift out and clean the cover. Point the underside of the frame with 1:3 cement/sand mortar, if necessary. Replace the cover and tighten the securing bolts supplied.

Remember to leave the lifting/locking keys with the building owners.

Installation guide & sitework details

Visedge series access covers – Single covers

Set the cover in the outer frame, fixing the securing or blanking bolts supplied. Maintain a 1 mm (1/32") gap between the cover and the frame sections. The cover should now be filled (with the exception of the 5 Bar series) and the floor finish to the outside of the outer frame completed. Again take care not to distort either the cover or the outer frame sections. Larger span covers may require propping from below to prevent distortion caused by the weight of the wet concrete infill. (Note that the design loading and if applicable, fire resistance can only be achieved if the infill is equivalent to the 28 day cube strength of OPC concrete of 40 MPa).

When the scrub has cured and the installation of the sheet flooring is about to commence, remove the protective tape from the PVC extrusion on both the cover frame and the outer frame. Cut the flooring material up to the upstand of the PVC extrusion on the outer frame and lay into position, using adhesive as necessary. In similar manner cut the flooring material within the cover frame up to the upstand of the PVC extrusion and under the clamping ferrules around the lifting/locking bolts, and bond with adhesive. The floor finish should then be welded, in accordance with the manufacturer’s instructions, to the top edge of the PVC extrusions, on both the cover frame and the outer frame. Screw down the clamping ferrules until they are flush with the floor finish. Finally lift out and clean the cover. Point the underside of the frame with 1:3 cement/sand mortar, if necessary. Replace the cover and tighten the securing bolts supplied.

Remember to leave the lifting/locking keys with the building owners.
Installation guide & sitework details

These details are intended as a general guide to correct installation - it is advisable if fitting the product can vary depending on the type of materials used etc.

Further advice is always available from our Technical Department who can be contacted between the hours of 9am and 5.30pm on 01920 463230, or alternatively you can email them at info@howegreen.co.uk.

Maghatch
Place the face of the outer frame against the wall, and mark the hole position. Remove the outer frame and mark the marked lines to the corners to form a square or rectangular shape for the cut out.
Cut a hole in the wall board using a suitable saw.
Apply proprietary panel adhesive around opening then place outer frame into position.
The outer frame and cover can now be decorated separately and allowed to dry. Once dry the cover can be put into place to complete the installation.

Combihatch
The construction of the opening should be as follows, for non fire rated units the “cut out” in studwork should be fully trimmed. For fire rated units again the aperture should be fully trimmed, though for metal "C stud" the aperture surround should be boxed out using twin sections of "C stud". All box sections of 60 minute assemblies must be infilled with plasterboard to mitigate against an excessive distortion of the supporting construction.
Remove the doors from the outer frame by releasing the spring assemblies must be infilled with plasterboard to mitigate against the extra door surround gap. Should any adjustment be needed open the door fully, then release both of the securing screws holding the hinge block (5mm Allen key ; supplied) found on the inside rear edge of the frame. Carefully lift/move the door to the desired position, and then re-fasten the hinge block to the new position. Re-close the door and check the door gap, re-adjust as necessary.

Should any of the seals, bolts or other removable components be damaged or missing they are available for replacement.

Tile a Door+
If there is no pre-formed opening for the Tile a Door+, mark the area of the wall where the opening is required by projecting the tile grid lines. Once marked the hole should be cut allowing an extra 6mm (⅜”) clearance all round. If fitting to sheet or plasterboard, the opening should be trimmed using suitable studwork.

Fasten the fixing brackets to the top and bottom of the access cover outer frame, using the screws provided. The access cover can now be fixed top and bottom to the wall or studwork through the previously attached brackets. If edge trims or a security lock has been specified then the Face of the door should be set back 12mm (⅜”) from the face of the surrounding tiling.
Once the frame has been secured and the hatch closed, proceed to tile over the door face and complete the surrounding wall finish. Take care to ensure that a 2mm (⅛”) joint between the door and the surrounding tiles is maintained.

The tilled finish has set, carefully open the door to ascertain whether any door adjustment is required to maintain a constant door surround gap. Should any adjustment be needed open the door fully, then release both of the securing screws holding the hinge block (6mm Allen key ; supplied) found on the inside rear edge of the frame. Carefully lift/move the door to the desired position, and then re-fasten the hinge block to the new position. Re-close the door and check the door gap, re-adjust as necessary.

Waldor 50
If there is no pre-formed opening for the Waldor 50, mark the area of the wall where the opening is required by projecting the tile grid lines. Once marked the hole should be cut allowing an extra 6mm (⅜”) clearance all round. If fitting to sheet or plasterboard, the opening should be trimmed using suitable studwork.

Apply proprietary panel adhesive around opening then place outer frame into position.
The outer frame and cover can now be decorated separately and allowed to dry. Once dry the cover can be put into place to complete the installation.

Case Study
Northern Ticket Hall, Kings Cross Tube Station, London
Product 7500 series floor access covers

Architect: Capita Architecture
Situated beneath ground between the platforms of the newly redeveloped St Pancras station and Kings Cross station the Northern Ticket Hall is a new entrance and ticket hall to King’s Cross Underground. This second phase of a larger scheme, that has also seen the addition of a ticket hall at the front entrance to St Pancras Station, will lessen passenger journey times and ease congestion considerably. The developments will cater for the added demand required by mainland and Eurostar services.

The scheme was designed by Capita Architecture and overseen by a joint venture between Balfour Beatty Civil Engineering and Balfour Beatty Engineering Services. DMC Rail, a division of the DMC Group specially developed to provide specialised services to London Underground and Network Rail, was responsible for all internal works. Internal works included the screeding and tiling of tunnels, the building of ticket offices and the creation of flooring – including the installation of 60 of Howe Green’s 7500 series access panels.

Howe Green’s 7500 series stainless steel access covers were chosen to provide safe and unobtrusive access to essential floor based building services including ventilation ducting, electrics, communication cables and rail services. In this challenging environment access panels that offered fire resistance along with the ability to withstand massive amounts of foot traffic were required.

Performance
Two types of Howe Green’s 7500 Series stainless steel covers were used on the project. As well as single covers, the company’s innovative multi-part covers were also used. A series of panels set into one larger frame, they grant simple access to complex junctions of service utilities. Purpose designed for a variety of different floor finishes, the heavy duty covers have the capability to cope with up to a 5 tonne pneumatic wheel load.

Crucially, especially given their installation on the London Underground, all Howe Green access panels are available as tamper resistant units, ensuring complete security, with special lifting keys provided for ease of access.

Situation
Flushing flush with the floor to prevent any trips, they provide quick, easy and safe access to the concealed services underneath. The panels are double-sealed to meet the highest standards of hygiene and security, while staying corrosion resistant and maintenance-free. With up to a three hour fire rating in line with BS 476: Part 20 1987 Howe Green’s 7500 series access covers would prevent the passage of fire through service channels. Combined with the capability to tolerate extreme footfall the 7500 series offered the perfect solution for the challenges presented by the new Northern Ticket Hall.

Installation
Each panel was individually manufactured by Howe Green to the exact requirements of both the flooring and building services contractors. Using the latest manufacturing techniques, Howe Green offers specification and contractors individually produced panels without the high costs and extended lead times normally associated with bespoke products.

All Howe Green’s 7500 series access covers are subject to the same quality control processes, with information about each panelling job being recorded for the lifecycle of the building.

To install the panels, operators from DMC Rail set them flush into the floor substrate. The covers follow the floorline exactly so do not represent a trip hazard. The cover panels were then filled with screed and completed with tiles specially manufactured for the London Underground. The pattern of the tiles was exactly matched to the surrounding flooring pattern, ensuring an uninterrupted surrounding flooring pattern, ensuring an uninterrupted

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Special Orders

Our ability to respond to customer requirements is what makes Howe Green different. We have a reputation, built over many years, for solving problems. Working together with customers we use our industry knowledge, technical expertise and cutting edge equipment to deliver solutions that will overcome the challenges they face.

Investment in computer design software and C.N.C. machinery enables us to manufacture items such as special purpose access covers, edge trims and corner guards quickly, accurately and cost effectively.

Utilising a highly automated system ensures that Howe Green can produce the components required to the exact specification required. Custom made access covers and other “specials” can be handled swiftly and efficiently helping to reduce installation times on site.

Howe Green is routinely asked to provide solutions to specific site problems and requirements, examples of our “specials” include:

- Mosaic trim for underground tunnels, used by London Underground at Kings Cross Station.
- Stainless steel brackets for stone wall cladding hanging system.
- Tree planter covers to help reduce slip and trip hazards, as used at T5 Heathrow.
- Corner guards for tiled walls, as used by London Underground where new guards were commissioned to match in with existing trims for Shepherd's Bush station.
- Trunking systems to complement the Howe Green range of floor access duct covers.
- Floor access covers to fit within raised access floors, for example in canteens where a water resistant access solution is required for concealed services.
- Two bespoke runs, each measuring 5 metres x 0.5 metre, of brushed stainless steel floor access covers to sit alongside a glass floor at the Roman Baths visitor attraction in Bath.

Howe Green is a truly customer focused and driven company. Many of our existing access covers have been developed as the result of a customer request for a solution to a particular access problem or situation. We remain committed to listening to our customers and responding to their requirements, in this way our product range will continue to evolve and be demand led.

Channel Drain Solutions

Suitable for a wide range of applications including changing rooms, shower areas, spas, kitchens, laboratories, veterinary surgeries and other areas that require drainage, Howe Green’s range of channel drains offer durability and performance.

Suitable for a wide variety of floor types, manufactured from corrosion resistant stainless steel and come in a choice of grate finish to suit most applications. Available with level or sloping channels, they are supported by outlets and junctions to provide a complete channel drain solution.

HG100

The HG100 linear drainage channel is available in modular form to suit most site situations including both level or sloping invert. It is also available as a made to measure system to suit specific requirements.

It is available in either 304 or 316 austenitic stainless steel. The system provides an easy to clean, hygienic solution. As it is produced from stainless steel it is also 100% recyclable and requires little maintenance.

HG200

The HG200 slot drain is available in modular form to suit most site situations including both level or sloping invert. It is also available as a made to measure system to suit specific requirements.

It is available in either 304 or 316 austenitic stainless steel. The system provides an easy to clean, hygienic solution. As it is produced from stainless steel it is also 100% recyclable and requires little maintenance.

Features and benefits

- Channels can be fitted into most types of floor finish e.g. ceramic tiles or resin.
- Normally fabricated from austenitic grade 304 stainless steel, however 316 grade is also available if required.
- Standard 50, 60, 75 or 110mmØ spigot outlet.
- Choice of grating design for HG100 or “slot” finish for HG200.
- Constant invert or variable inverts available.
- Channels can be manufactured to suit specific layout requirements.

Options

- Shower grating with 20x5mm (5/32 x 3/32”) slots, locked down gratings.
- Anti-slip ladder grating with 1.5mm (1/16”) bars and 11.5mm (7/16”) spacing between, locked down gratings.
- Fine linear grating with 1.5mm (1/16”) wide slots, locked down gratings.
- Polymer grating with 8mm (5/32”) wide slots, locked down gratings.

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Cover Skate - floor access cover maintenance

Make light work of lifting heavy floor access covers. The Howe Green Cover Skate is the ingenious way to lift heavy floor access covers. Simple, convenient and extremely portable you can carry the Cover Skate in a bag and lift even the heaviest of covers on your own – safely, easily and quickly.

Features and benefits

The Cover Skate means you need less people to do the job and don’t have to worry about the health and safety issues that come with using bigger pieces of equipment. Suitable for use in all types of locations from airports, factories and hospitals to hotels, offices and schools the Cover Skate gives you access to concealed services quickly, safely and cost effectively.

The Howe Green Cover Skate is the ingenious way to lift heavy floor access covers. Simple, convenient and extremely portable you can carry the Cover Skate in a bag and lift even the heaviest of covers on your own – safely, easily and quickly.

• Easy to carry and store
• Very durable and corrosion resistant
• Simple and quick to use
• 300kg lift from each “cover skate”
• Lifting keys to suit other manufacturers covers available to order

Instructions for use

1. Remove cover securing bolts.
2. Place a “Cover Skate” over a cover lifting point with the wheels outside the outer frame.
3. Remove the cover skate bolt from the storage position and screw into the cover lifting point until fully home and hand tight, ensuring that the base of the Cover Skate is flush with the cover.
4. Take the second Cover Skate and repeat the above on the diagonally opposite lifting point.
5. Turn the jacking handle clockwise on one of the Cover Skates until the cover edge has lifted by approximately 1cm.
6. Now using the second Cover Skate lift the other side of the cover by approximately 1cm.
7. The cover should now be raised as evenly as possible using the two Cover Skate’s until it is clear of the outer frame.
8. Carefully wheel the cover to one side of the opening, making sure that the hole is cordoned off to prevent falls.
9. To replace the cover ensure that the cover and the frame are clean and then follow the above in reverse order.