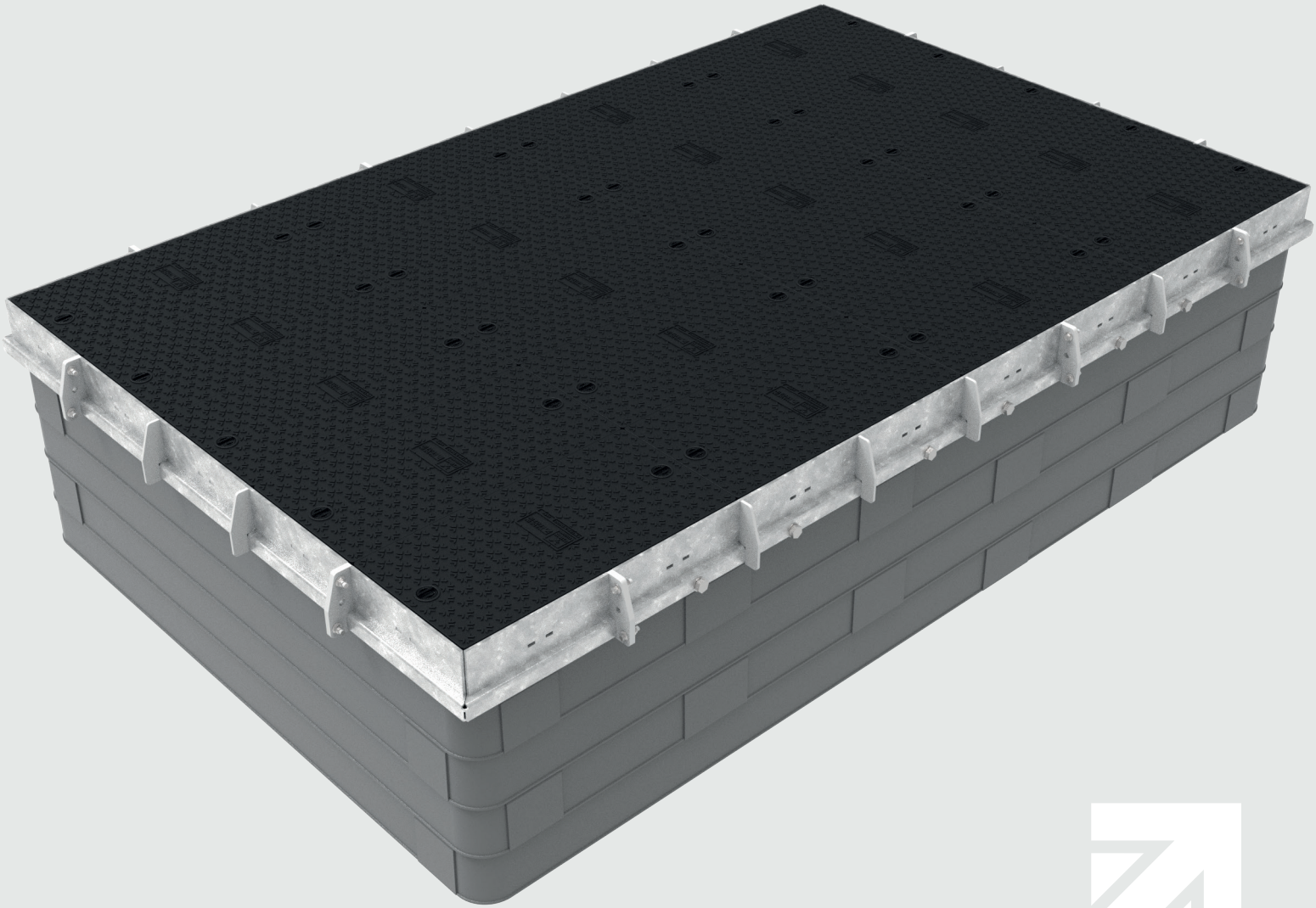
D400 Composite
Access Cover

CUBIS SYSTEMS
A CRH COMPANY



MADE IN BRITAIN

Innovative *and* Sustainable Infrastructure *Solutions*

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Last updated: 27/05/2026

Cubis Systems redefines network access for modern infrastructure.

A sustainable manufacturing leader, we specialise in composite solutions for underground utilities. Our product portfolio includes network access chambers, covers, cable protection systems, and a range of construction accessories.

Importantly, these solutions are modular, scalable, and lightweight. All of which means that they can be built on-site with speed and ease.

With significant – and measurable – benefits across sustainability, safety, and resource-savings, our solutions are designed to tackle your infrastructure challenges head-on.

The Cubis Systems *access* cover *range*

We supply a range of access covers to suit your required application.

Depending on your project, we can offer covers in 4 materials:

Composite

Built from lightweight but high-strength composite materials. Now available in D400 load rating.

Concrete

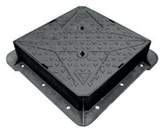
Infilled with concrete, and suitable for installation in environments rated to B125 under EN124.

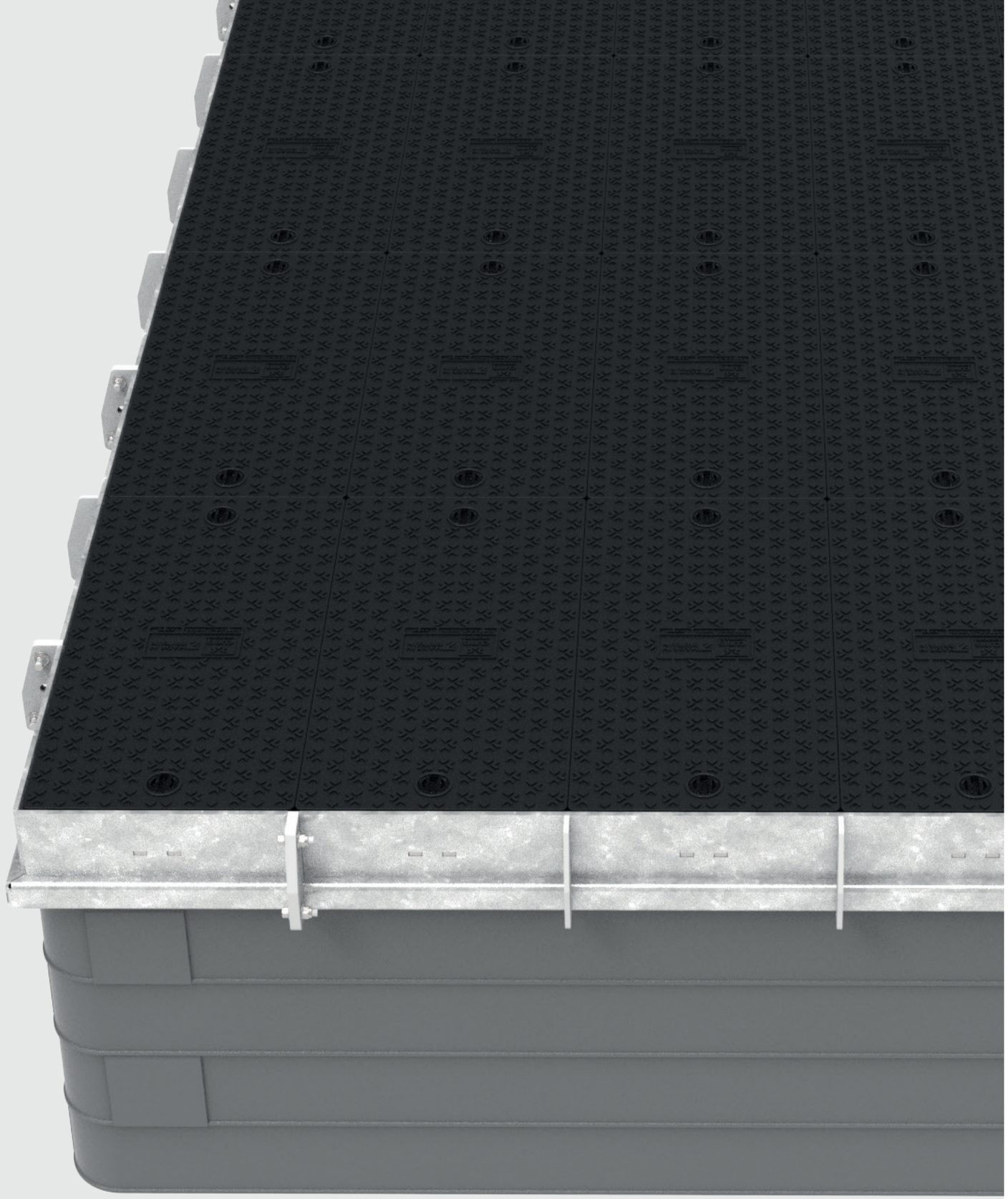
Recessed

Recessed tray accepts any paving or tile insert to maintain a desired look. Kite-marked up to B125.

Ductile

Made of quality 500/7 grade ductile iron. Suitable for installation in environments rated up to F900.





Introducing **the D400 composite** *cover range*

Get heavy-duty performance from a lightweight 24kg cover. Our D400 composite access cover range offers a significantly safer and easier installation option than traditional covers – without compromising on strength.

Ductile, precast and cover slabs provide varying options for access, but can prove time consuming to install due to weight. They can also pose issues with access through limited clear opening sizes.

Our D400 composite system introduces a smarter alternative based on modularity, easy handling, maximum clear opening access, and on-site adaptability.

Reduced carbon impact

Reduced install times

Reduced civils- and cost

Features & **Benefits**

Full access without machinery. D400 strength within a compact, lightweight cover that doesn't need to be hinged or gas-assisted to lift.

Flexible, multispan design. Support multiple covers within our multispan frame – giving you adaptability across varying site conditions and chamber configurations.

Safe manual handling. At 24kg per access cover, you can install quickly and safely by hand – reducing risk, plant, and installation time.

Modular construction. Sits within a fabricated steel frame built up of modular components – flat-packable for added site convenience.

Self-locking mechanism. Supplied with a dual-purpose lifting and locking aid – simply lock the cover via a quarter turn locking latch.

Anti-slip & customisable design. Incorporates our bespoke, non-slip tread pattern – with allocated space to hold any custom badging options for the asset owner.

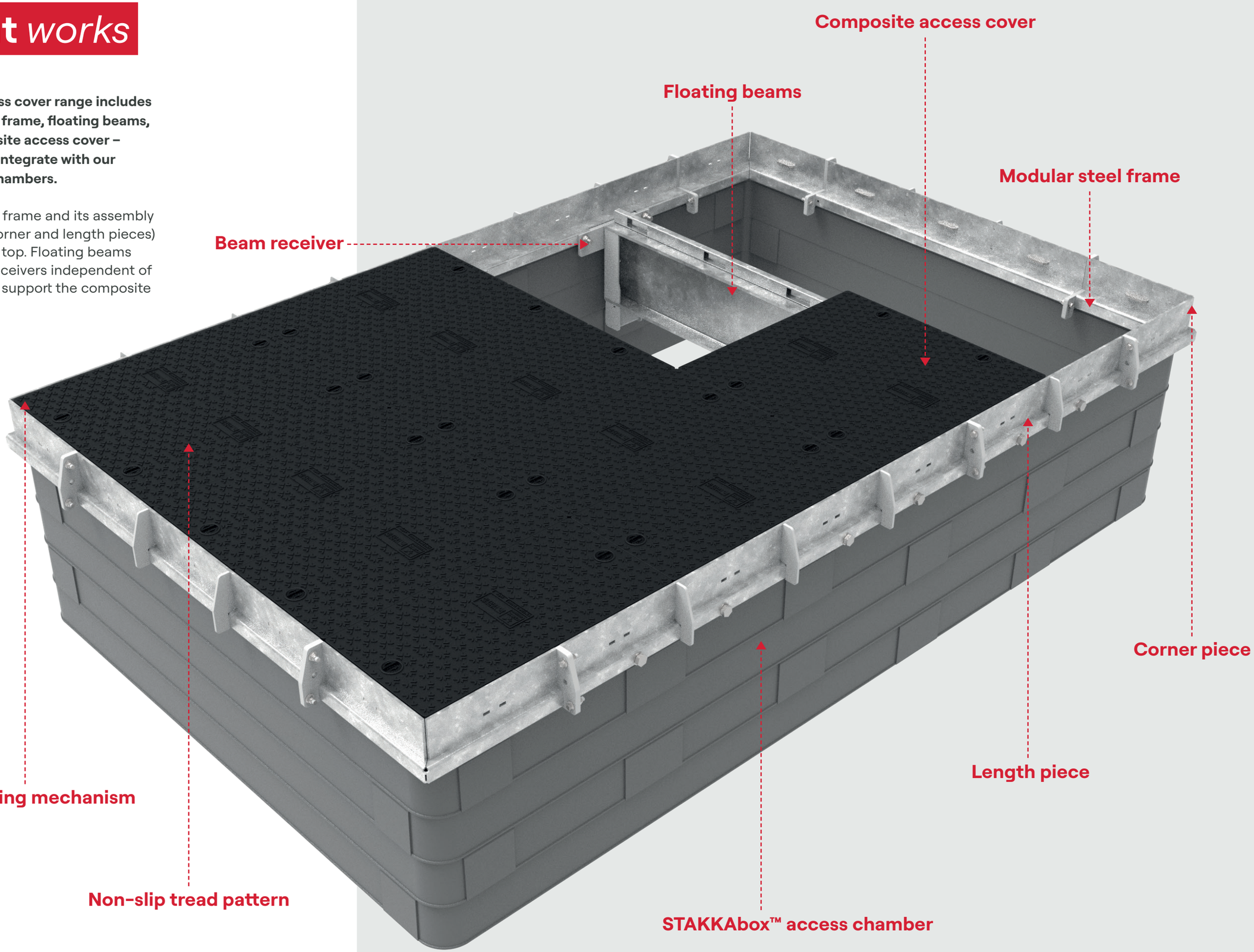
Maximises clear opening spaces. Floating beam design means that all covers and its system components are easily removable to maximise working areas for both installation and maintenance.

Seamless installation. Cover and frame options offer compatibility with our STAKKAbox™ access chamber offerings for a coordinated, structural solution.

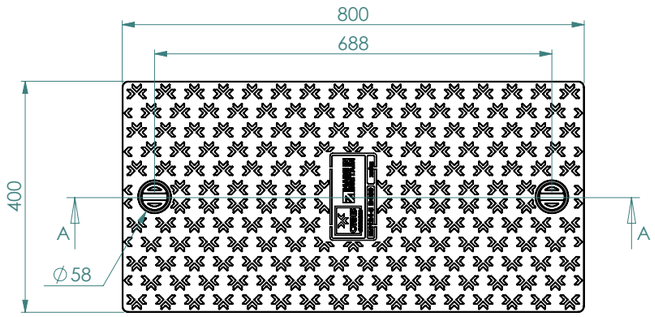
How it *works*

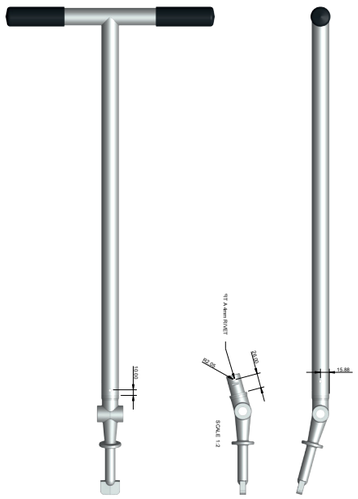
Our D400 access cover range includes a modular steel frame, floating beams, and the composite access cover – all designed to integrate with our STAKKAbox™ chambers.

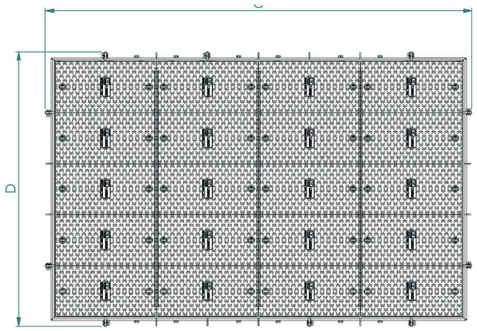
To install, fit the frame and its assembly components (corner and length pieces) to the chamber top. Floating beams then slot into receivers independent of the chamber to support the composite cover(s).

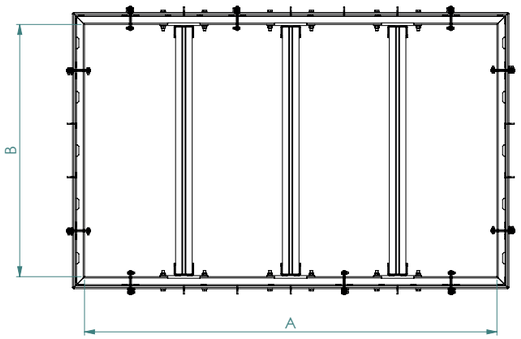


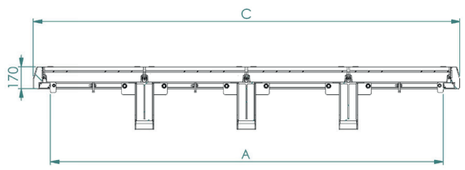
Access Cover *Product*
Size Guide



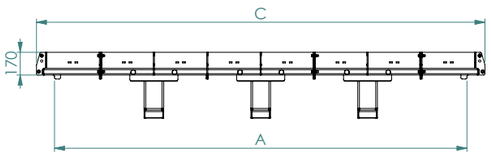


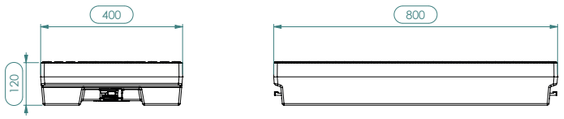


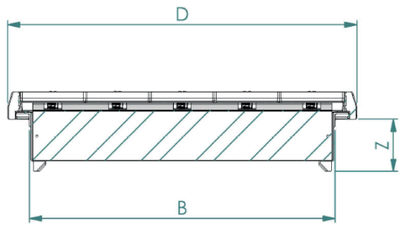




SECTION A-A





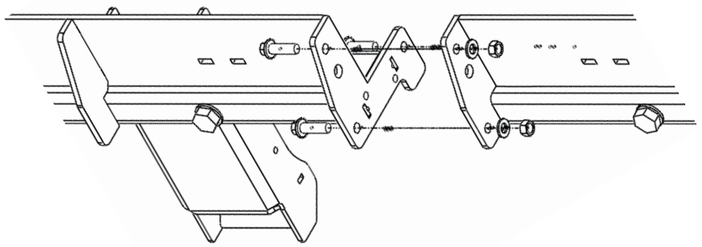


Dimensions (mm)					Covers	Beams			
Chamber Reference	Internal Length (A)	Internal Width (B)	External Length (C)	External Width (D)	Quantity	No. of Beams	Beam Depth Below Frame (Z)	Individual Beam Weight (kg)	Total Weight of Frame & Cover (kg)
1500x1900	1488	1888	1758	2158	10	1	323	75.6	477
1500x2700	1488	2688	1758	2958	14	1	369.5	132.6	667
2300x1500	2288	1488	2558	1758	12	2	319	46.2	573
2300x1900	2288	1888	2558	2158	15	2	323	75.6	721
2300x2300	2288	2288	2558	2558	18	2	369.5	112.2	891
2300x2700	2288	2688	2558	2958	21	2	369.5	132.6	1021
3100x1500	3088	1488	3358	1758	16	3	319	46.2	766
3100x1900	3088	1888	3358	2158	20	3	323	75.6	968
3100x2300	3088	2288	3358	2558	24	3	369.5	112.2	1203
3100x2700	3088	2688	3358	2958	28	3	369.5	132.6	1378
3100x3100	3088	3088	3358	3358	32	3	416.5	162	1580
3900x1500	3888	1488	4158	1758	20	4	319	46.2	956
3900x1900	3888	1888	4158	2158	25	4	323	75.6	1212
3900x2300	3888	2288	4158	2558	30	4	369.5	112.2	1512
3900x2700	3888	2688	4158	2958	35	4	369.5	132.6	1731
3900x3100	3888	3088	4158	3358	40	4	416.5	162	1988
4700x1500	4688	1488	4958	1758	24	5	319	46.2	1148
4700x1900	4688	1888	4958	2158	30	5	323	75.6	1459
4700x2300	4688	2288	4958	2558	36	5	369.5	112.2	1824
4700x2700	4688	2688	4958	2958	42	5	369.5	132.6	2088
4700x3100	4688	3088	4958	3358	48	5	416.5	162	2418
5500x1500	5488	1488	5758	1758	28	6	319	46.2	1338
5500x1900	5488	1888	5758	2158	35	6	323	75.6	1703
5500x2300	5488	2288	5758	2558	42	6	369.5	112.2	2133
5500x2700	5488	2688	5758	2958	49	6	369.5	132.6	2442
5500x3100	5488	3088	5758	3358	56	6	416.5	162	2807
6300x1500	6288	1488	6558	1758	32	7	319	46.2	1530
6300x1900	6288	1888	6558	2158	40	7	323	75.6	1950
6300x2300	6288	2288	6558	2558	48	7	369.5	112.2	2446
6300x2700	6288	2688	6558	2958	56	7	369.5	132.6	2798
6300x3100	6288	3088	6558	3358	64	7	416.5	162	3217

Assembly Guide *Frame*

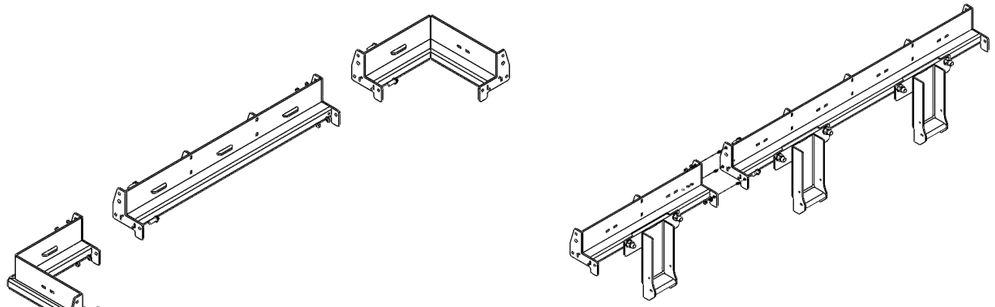
1 Sub assembly joints

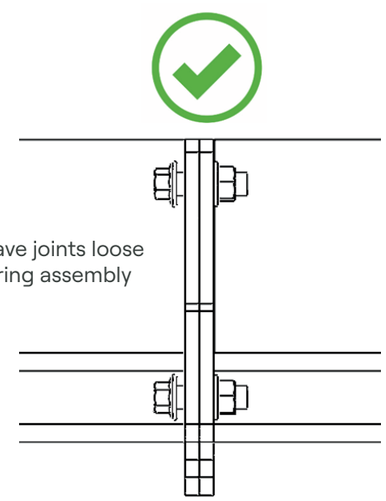
Not required to fully tighten bolts to previously specified torque until step 3.



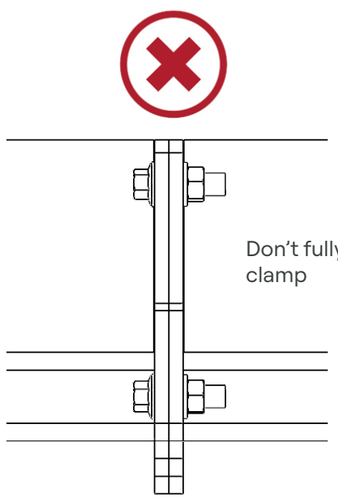
2 Width and length assembly

Can include multiple width profiles to make up longer frame widths



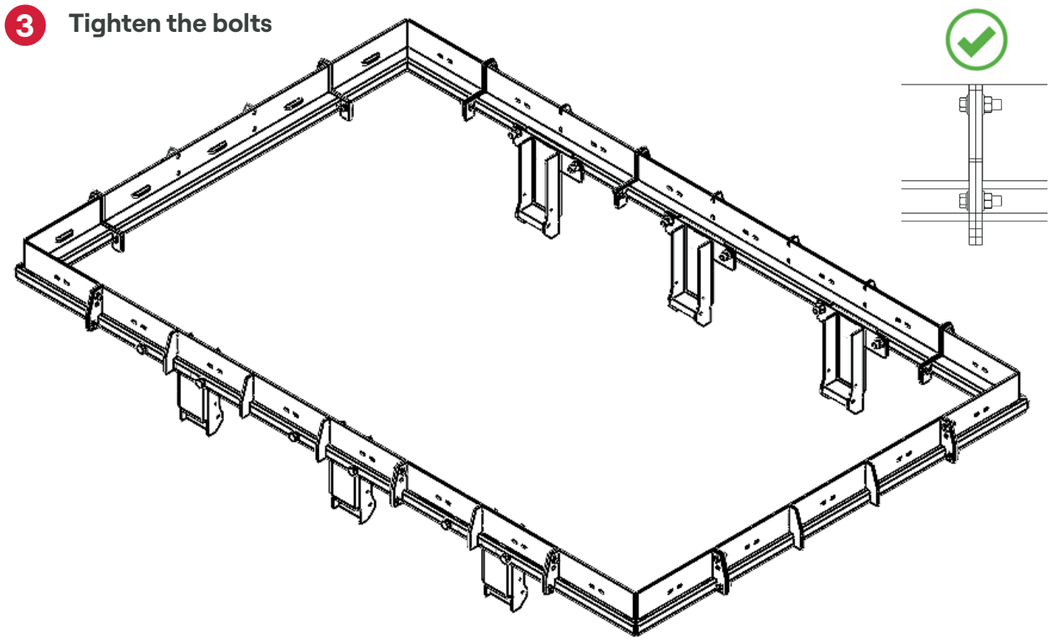


Leave joints loose during assembly



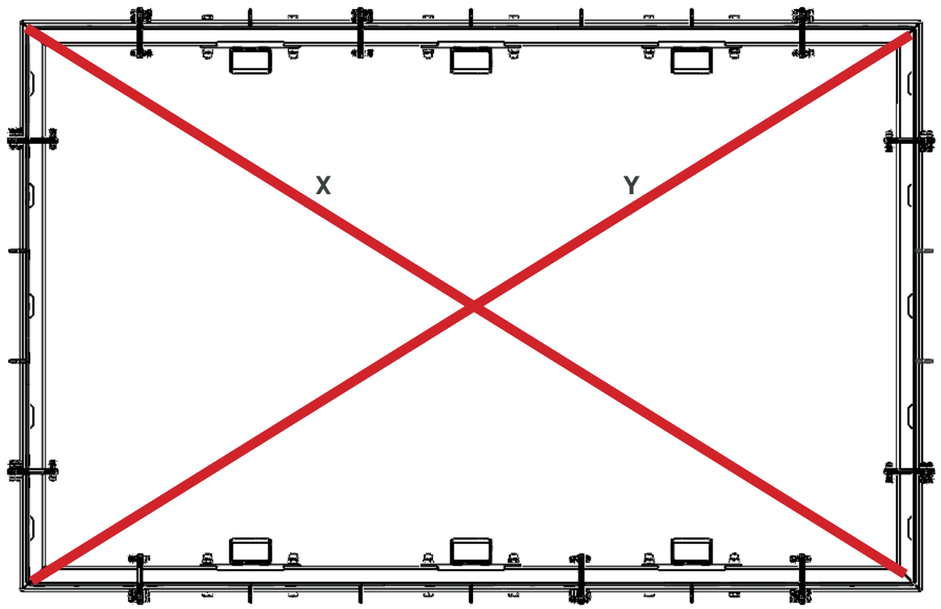
Don’t fully engage clamp

3 Tighten the bolts



4 Measure squareness of assembled frame

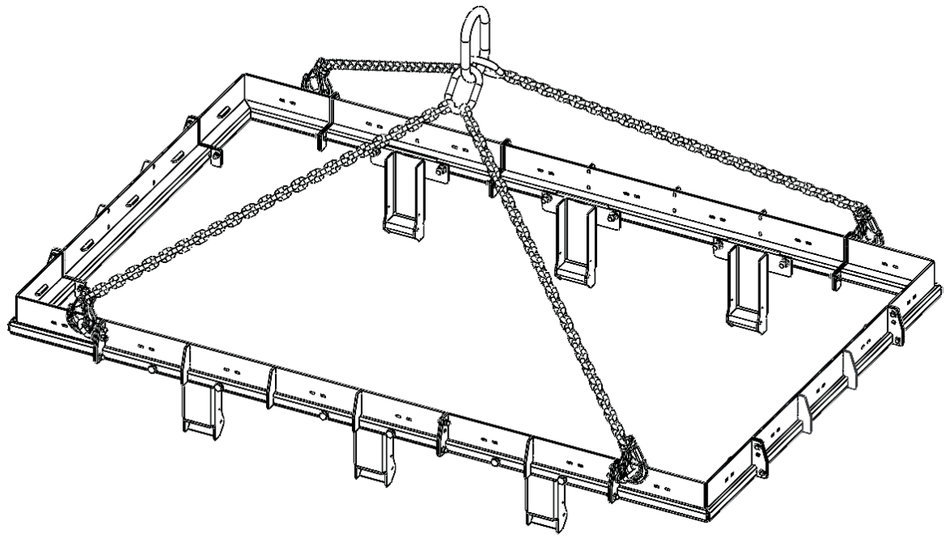
To ensure proper cover assembly, measure and confirm squareness of the frame. X=Y

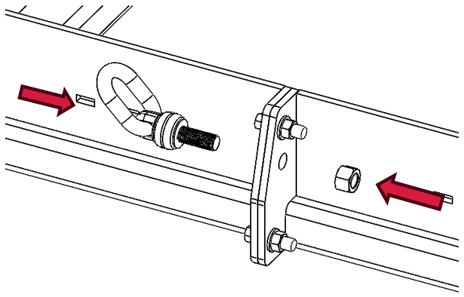


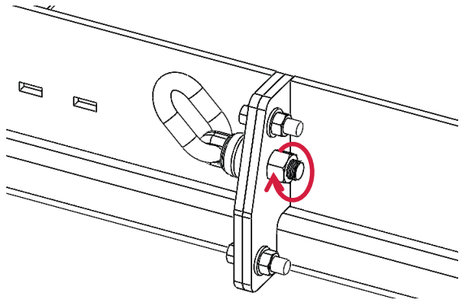
Assembly Guide *Frame*

5 Lifting of frame onto chamber

Potential step: Please note this step is only required for when frames are built off chamber.



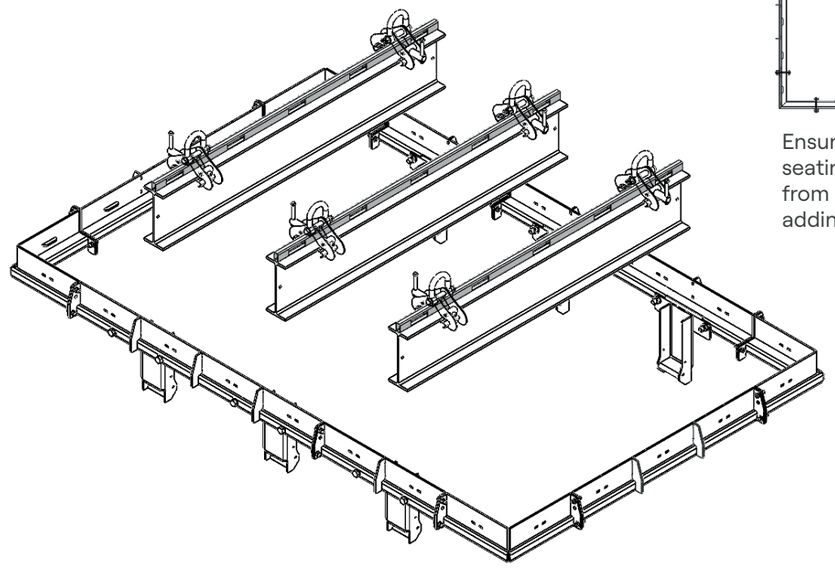


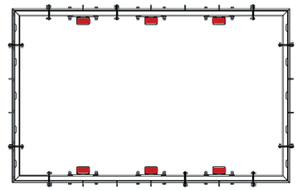


DO NOT: Lift frame onto the chamber with beams in frame. Lifting beams and placing in beam pockets is a later step.

6 Add the beams

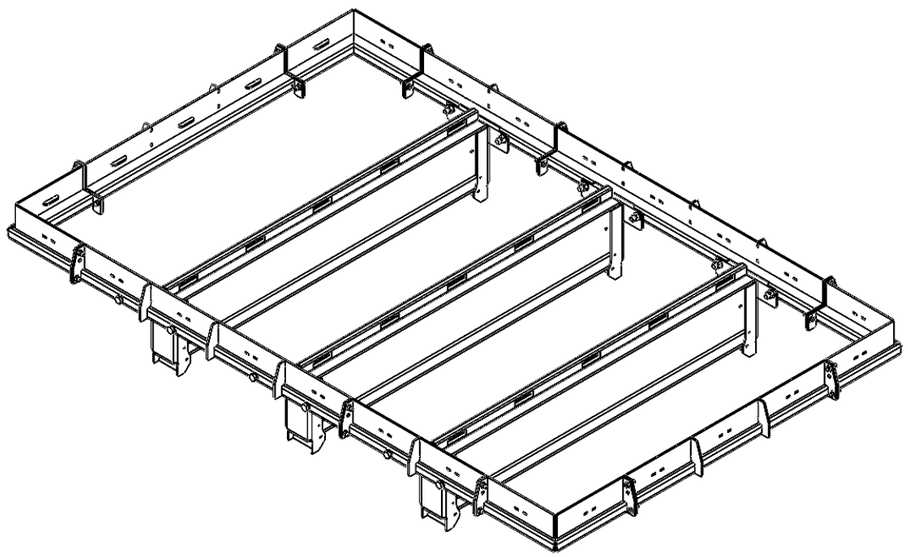
Refer to size specific frame drawing for correct beam size. Recommended Beam Clamp Yale YC5 or equivalent to lift beams into place.





Ensure all 'Beam Pocket' seating surfaces are free from dirt and debris before adding beams.

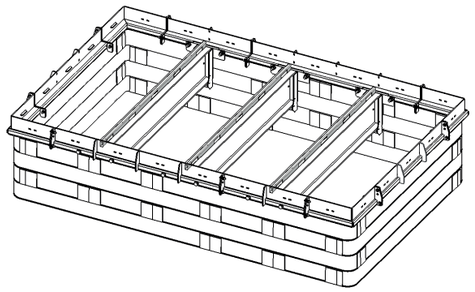
7 Complete assembly

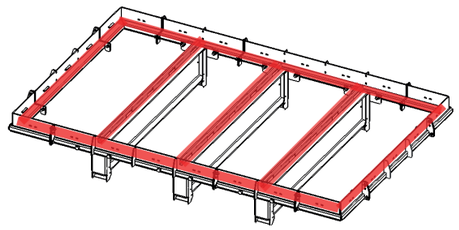


Assembly Guide *Covers*

1 Frame preparation

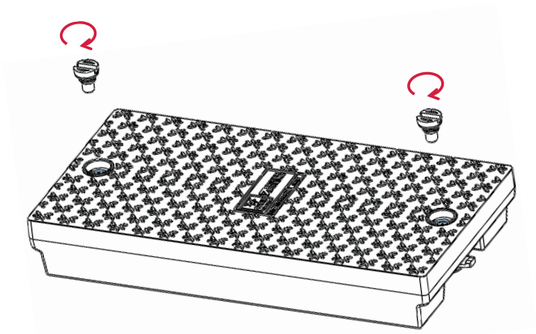
Ensure all seating surfaces (on frame and beam assemblies) are free from dirt / debris.



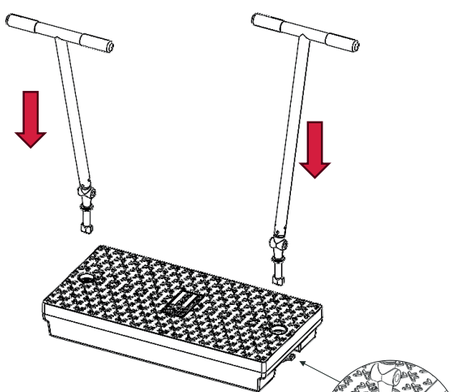


2 Cover preparation

Remove lock caps. Covers are always in locked state until latch is turned using lifting aid/key

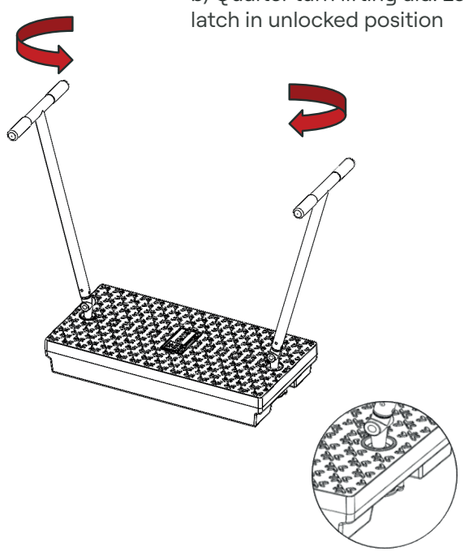


3 Lifting covers using lifting aid

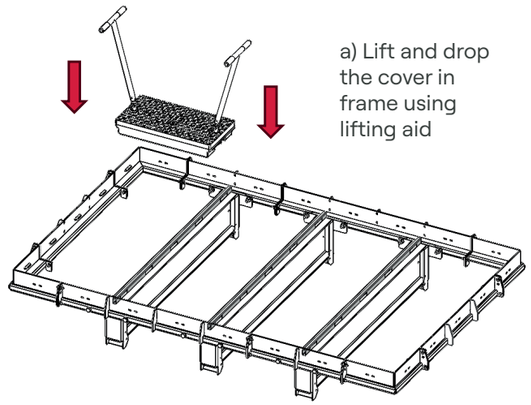


a) Insert lifting aid in lifting holes. Locking latch remains in locked position

b) Quarter turn lifting aid. Locking latch in unlocked position

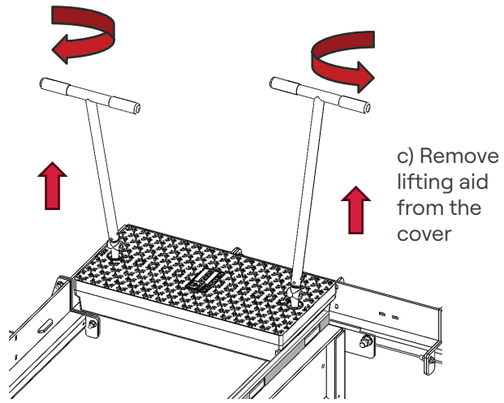


4 Lifting covers using lifting aid and assembly on frame



a) Lift and drop the cover in frame using lifting aid

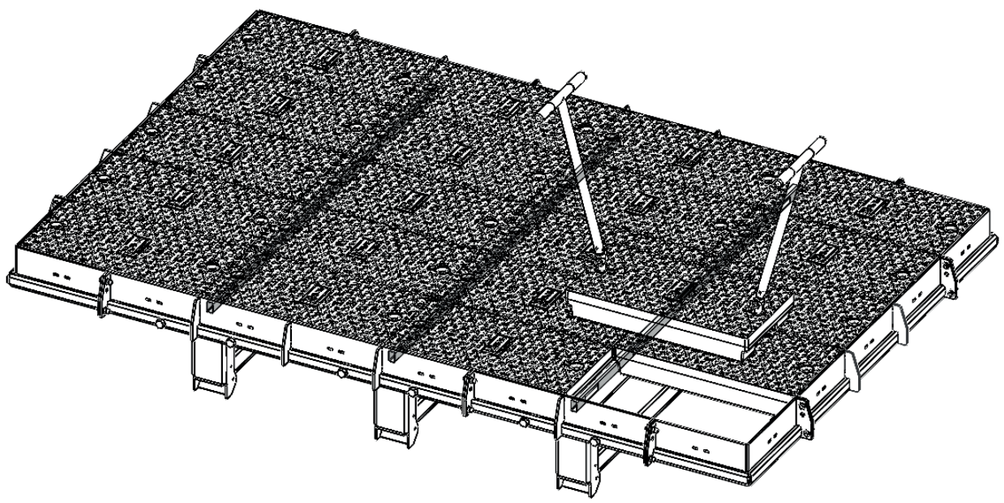
b) Quarter turn lifting aid to turn latch to lock position



c) Remove lifting aid from the cover

5 Add remaining covers

Repeat steps 3 and 4 for remaining covers. Ensure all covers are in the correct orientation.



Specify in your *projects*

Build with BIM precision

Our free BIM configurator tool helps you add the D400 cover (and any other Cubis products) to your plan. You can specify, design, and deliver with confidence.

- Drop CAD-ready models into your designs
- Access precise data for budget planning and analysis
- Make fast calculations and data validations
- Ensure material optimisation and faster installation

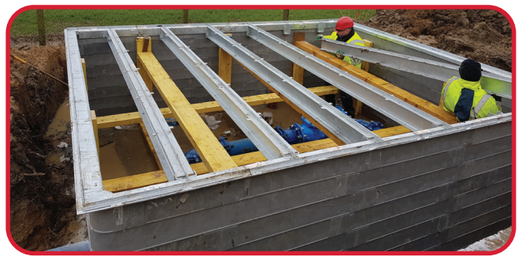
Get bespoke design support

We also offer design consultations led by our in-house specification engineering team – giving you practical, project-specific support at design stage.

- Optimise your product selection and plans
- Reduce materials and embodied carbon
- Accelerate installation planning
- Increase design confidence

One Cubis customer was able to achieve a **75% reduction in CO2 emissions** (282 tonnes) and use 30% fewer chambers using our **BIM-powered redesign.** In the process, they also saved **£235,000.**

Beyond the D400 *composite* cover



Network access chambers
STAKKAbox™: the renowned composite access chamber range trusted in projects around the globe.

Access chamber covers
A range of covers in multiple sizes and materials, offering a full-system solution. See P3 for details.

Access chamber accessories
Designed to dovetail with our chambers to improve performance, reduce build-time, and meet operator requirements.

Cable protection
MULTIduct™: a lightweight, structural cable protection system that combines multiple ducts in a single unit.

Cable troughing
PROtrough: the industry's go-to flame-retardant, non-cementitious trough system.

Construction & sealing accessories
Duct sealing, cable joints, meterboxes, kiosks – we supply specialist solutions to meet multiple infrastructure needs.

MADE IN BRITAIN

Driven by *Innovation*

Cubis is Europe's leading manufacturer of network access chamber and ducting systems, used in the construction of infrastructure networks for rail, telecoms, water, construction and power markets.

Cubis has developed an innovative approach in an old-fashioned industry. This has been achieved by developing quality products which replace traditional construction materials, like bricks and concrete, with lightweight plastics incorporating intelligent design features. These can then be installed faster and ultimately save our customers both time and money.

Cubis manufactures preformed network access chamber systems STAKKAbox™, AX-S™ access covers, MULTIduct™ multiple duct system and RAILduct™ cable trough at its manufacturing sites throughout the UK and Ireland these products are exported to more than 25 countries throughout the World.

At Cubis we pride ourselves on delivering technical customer support, new innovation, product quality and the highest levels of customer satisfaction.

Contact Us

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