ACS

Technical Data Sheet

Atlas Masonry Support



Atlas Masonry Support

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Off-the-shelf masonry support for modern construction

As clients and main contractors take a more proactive approach to design and value engineering, the right masonry support solution increasingly depends on the nature of the project. For complex façades, ACS's bespoke welded systems remain the benchmark, engineered precisely to suit each building's geometry, loads and cavity conditions.

Not every project demands that level of customisation, however. Where façades are simpler, with consistent cavities and straightforward load conditions, a standardised solution can offer real advantages: shorter lead times, a streamlined approval process, and the ability to make minor adjustments on site to accommodate tolerances and late design changes.

To give our clients the right choice for every project, ACS has developed Atlas, an off-the-shelf masonry support system that complements our welded range. It combines the same engineering expertise and quality behind all ACS products with the speed and flexibility that fast-track, less complex schemes require.

The Atlas advantage

- Supplied from stock
- Non project specific
- Fast and simple to install
- Easily assembled by one person
- Revolutionary front-loading system
- Highly adaptable and adjustable
- Simple online specification process
- Easy to store and transport

Atlas: the fast, flexible alternative

Atlas is a patented off-the-shelf masonry support system designed and manufactured to meet the demands of modern construction projects.

Engineered specifically to support the external masonry facades of concrete and steel structures, it is cost-effective, convenient and is designed to accommodate for cavities ranging from 60 to 130mm, and loads of up to 14kN.

As an off-the-shelf system, Atlas brackets and angles are interchangeable, can be easily moved around site and require no setting out or detailed layouts.

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Front-loading for effortless installation

For ease of use, Atlas has been designed with a patented front-loading bracket and separate 'clip-in' angle. This allows it to be easily fitted and adjusted by only one non-specialist construction worker, reducing labour costs to a minimum and ensuring considerable time savings.

For added convenience, Atlas angles are supplied in easy to handle 1000mm** lengths. A standard front-loading corner system, comprising of two 45 degree mitred angles and three brackets per angle is available from stock. An innovative self-encapsulated design with fewer components also means fewer tools are required for installation - minimising the risk of losing equipment or components down the cavity.

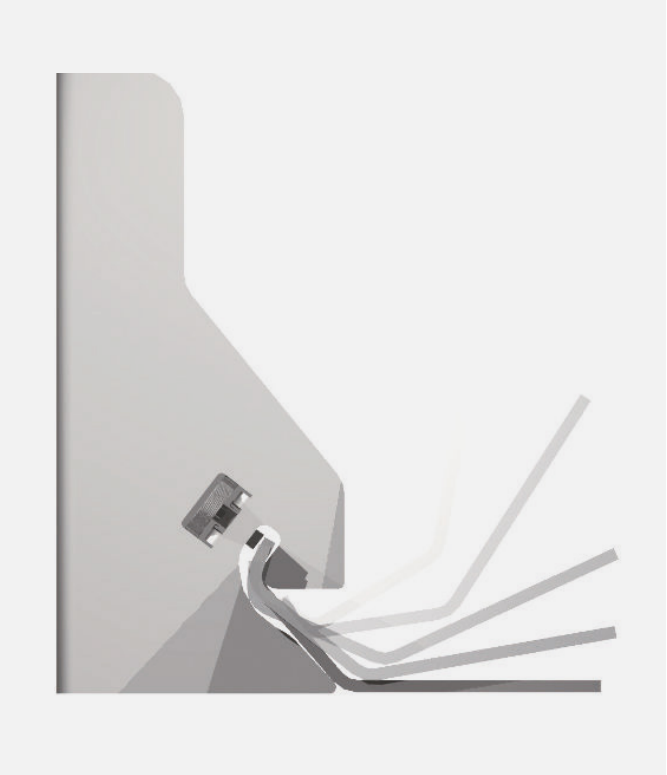


How the ACS Atlas system works

Two brackets are installed on the structure***, and the angle platform simply clips onto the front of the bracket within the printed zones.

— Finger-tightening of the integrated locking screw on the side of the bracket securely locks the angle in place.

— The process can easily be reversed where a different depth bracket is required.



** May differ on 14kn or above

*** 3 Brackets on corner systems

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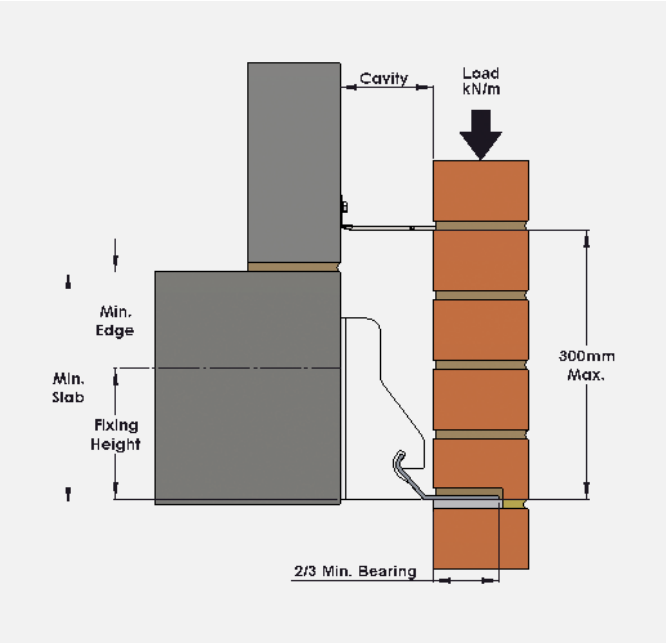
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Prepare for the unknown

Unlike bespoke welded support systems, Atlas can be instantly adjusted on site, to meet your requirements.

A co-ordinated range of interchangeable brackets and shims allow the system to be adjusted in 1mm increments. Printed fixed zones on each angle allow for lateral adjustments of 25mm on either side preventing unnecessary drilling. And our unique Alpha ii Bracket and Washer system offers 5mm more of vertical adjustment than traditional serrated systems. The system also includes a positive lock mechanism which increases load capacity and safeguards against catastrophic failure. This, enables fewer brackets to be used and could mean cost savings of 10% on a typical installation.

Always in stock

Atlas is supplied off-the-shelf from stock, uses component parts and is always ready for immediate despatch. This allows you to order components, as and when they are required, and reuse excess items on other projects.

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Proven performance

The Atlas system has been designed in-house by highly qualified engineers using cutting edge 3D Computer Aided Engineering & Design software.

All Atlas components have been independently tested and are supported by certified calculations and physical test data.

Atlas overview table

	Maximum Load (kN/m)	Angle Thickness (mm)	Angle Length (mm)	No. of Brackets	Bracket Centres (mm)	Bracket Height (mm)
Atlas 10	10	4	1000	2	500	195
Atlas 12	12	5	1000	2	500	195
Atlas 14	14	5	800	2	400	195

Atlas 10

Fixing	Min. Fixing Height (mm)	Min. Edge (mm)	Min. Slab (mm)	Maximum load (kN/m) for various cavity widths (mm)									
				60	70	80	90	100	110	120	130	140	150
Axis T-Head Bolt	150	75	225	10*	10	10	10	9.98	9.65	9.35	9.06	8.79	8.54
Atlas Concrete Anchor	150	75	240	10*	10	10	10	10	10	10	10	9.67	9.23
Atlas Set Screw	150	-	-	10*	10	10	10	10	10	10	10	10	10
Atlas Hollow Fixing	150	-	-	10*	10	10	10	10	10	10	10	10	10

* Load achieved using 60mm bracket depth within 0mm masonry offset

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Fixing	Min. Fixing Height (mm)	Min. Edge (mm)	Min. Slab (mm)	Maximum load (kN/m) for various cavity widths (mm)									
				60	70	80	90	100	110	120	130	140	150
Axis T-Head Bolt	150	75	225	11.53*	11.10	10.70	10.33	9.98	9.65	9.35	9.06	8.79	8.54
Atlas Concrete Anchor	150	75	240	12*	12	12	12	12	11.99	11.32	10.17	9.67	9.23
Atlas Set Screw	150	-	-	12*	12	12	12	12	12	12	12	12	12
Atlas Hollow Fixing	150	-	-	12*	12	12	12	12	12	12	12	12	12

Atlas 14

Fixing	Min. Fixing Height (mm)	Min. Edge (mm)	Min. Slab (mm)	Maximum load (kN/m) for various cavity widths (mm)									
				60	70	80	90	100	110	120	130	140	150
Axis T-Head Bolt	150	75	225	14*	13.87	13.37	12.91	12.47	12.07	11.69	11.33	10.99	10.68
Atlas Concrete Anchor	150	75	240	14*	14	14	14	14	13.77	13.07	12.42	11.84	11.3
Atlas Set Screw	150	-	-	14*	14	14	14	14	14	14	14	14	14
Atlas Hollow Fixing	150	-	-	14*	14	14	14	14	14	14	14	14	14

* Load achieved using 60mm bracket depth within 0mm masonry offset

ACS

Built on tradition. Driven by innovation.

Get in touch to learn more about how ACS can help you deliver your next project.

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