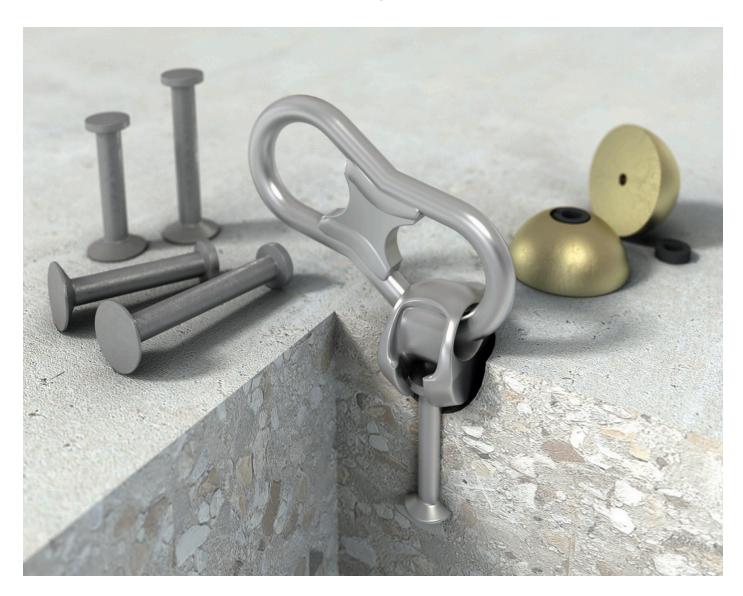




Ancon Unilift Lifting Systems





Leviat® A CRH COMPANY

We imagine, model and make engineered products and innovative construction solutions that help turn architectural visions into reality and enable our construction partners to build better, safer, stronger and faster.

Leviat is a world leader in connecting, fixing, lifting and anchoring technology.

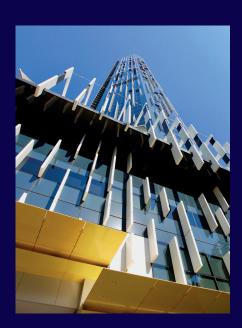
From the build of new schools, hospitals, homes and infrastructure, to the repair and maintenance of heritage structures, our engineering skills are making a difference around the world.

We provide technical design assistance at every stage of a project, from initial planning to installation and beyond.

Our technical support services range from simple product selection through to the development of a fully customised project-specific design solution.

Every promise we make locally, has the commitment and dedication of our global team behind it. We employ almost 3,000 people at 60 locations across North America, Europe and Asia-Pacific, providing an agile and responsive service worldwide.

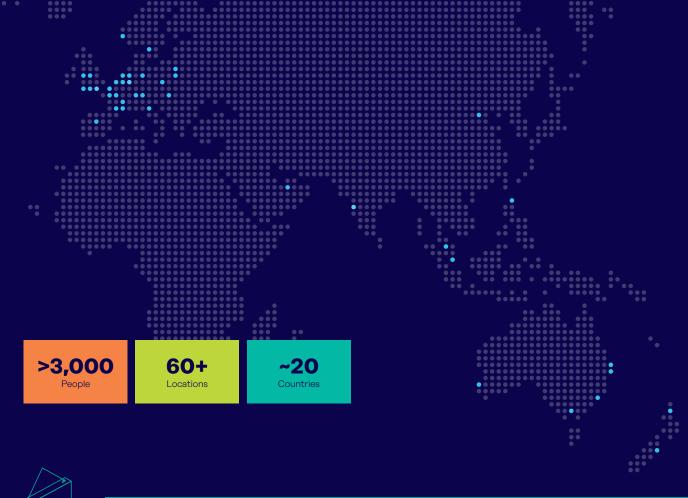
Leviat, a CRH company, is part of the world's leading building materials business.













Lifting & Bracing

Systems for the safe and efficient transportation, lifting and temporary bracing of cast concrete elements and tilt-up panels before permanent structural connections are made.

- Precast Lifting
- Tiltup Lifting
- Bracing & Anchorage

Other areas of expertise:



Structural Connections

Systems to form robust, efficient connections, and continuity of concrete reinforcement as necessary, between walls, slabs, columns, beams and balconies, providing structural integrity as well as enhanced thermal and acoustic performance.



Façade Support & Restraint

Systems for the safe and thermally-efficient fixing of the external building envelope, including brick and natural stone, insulated sandwich panels, curtain walling and suspended concrete façades, and also the repair and strengthening of existing masonry installations.



Anchoring & Fixing

Systems for fixing secondary fixtures to concrete, including anchor channels, bolts and inserts; also tension rod systems for roofs and canopies.



Formwork & Site Accessories

Non-structural accessories that complement our engineered solutions and help keep your construction environment operating safely and efficiently, including moulds for casting standard and special concrete elements and construction essentials such as reinforcing bar spacers.



Industrial Technology

Mounting channels, pipe clamps and other versatile framing systems that provide safe fixing in a wide range of industrial applications.

Leviat product ranges:

Ancon I Aschwanden I Connolly I Halfen I Helifix I Isedio I Meadow Burke I Modersohn I Moment I Plaka I Scaldex I Thermomass

Unilift Lifting Systems

Unilift Systems

Unilift is the ideal lifting and handling system for a wide variety of precast concrete products, particularly in civil engineering applications. The system is typically used for lifting panels, pipes, pits, manholes, road barriers, bridge beams, planks, sound walls, culverts etc.

The Ancon Unilift Lifting System consists of a range of lifting anchors, clutches and recess formers used for the safe, fast and efficient handling of a wide range of precast concrete items during manufacture, transport and installation. Unilift components are available in 6 load classes with working loads reaching from 1.3t - 32t.

Unilift CA Cone Anchors and Unilift RA Reo Anchors are forged headed anchors that are cast into the concrete. Recess formers create a spherical recess around the anchor head. Unilift LK Locking Klaws engage with the anchor head and transfer the lifting loads safely into the anchor. Unilift components of different load groups are not interchangeable for maximum safety.

Locking Klaw Safety clutch which locks to the anchor head

Anchor

Forged anchor set below the concrete surface

Recess

Formed in the concrete by a recess former to permit attachment of the Locking Klaw to the anchor head.



COMPLIANT AS 3850.1:2015

- Locking Klaw can be connected with the tail towards the load and the tail away from the load preventing unsafe situations caused by mis-engagement.
- ✓ Standard load classes of 1.3, 2.5, 5, 10, 20 and 32 tonnes available.
- ✓ Fast, efficient handling of products in the factory, during transport and on the job-site.
- Unique, patented design of the Unilift Locking Klaw prevents disconnection between clutch and anchor.

- Easy to train operators how to use the system with minimal supervision.
- Components of different load groups are not interchangeable for maximum safety.
- ✓ Unilift Locking Klaws and Anchors exceed the requirements for lifting systems in AS 3850.1:2015 - Prefabricated Concrete Elements
- Anchors are hot-dip galvanised for superior corrosion resistance.

Unilift Locking Klaw

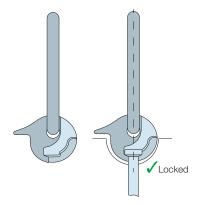
These strong, safe, lightweight clutches suit all spherical head lifting anchors. They protect against dangerous disconnection where there is a risk of fouling, which is a common problem when lowering precast drainage products into confined spaces like trenches. They also help to safely rotate civil prefabricated concrete units.

Unilift Locking Klaws are the strongest clutches on the market. Their capacity exceeds the factor of safety of 4.0 for lifting clutches as specified in AS 3850.1:2015, table 2.1.

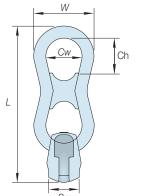


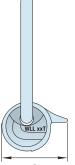


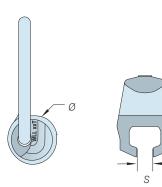


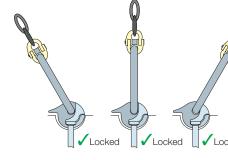


Locking Well interlocks with the Anchor Head









Unique design ensures safe engagement for all load directions

Working Load Limits

WLL	Annual Proof Load kN	Nominal WLL Anchor	Part Code
2	24	1.3	01LK
3	36	2.5	02LK
5	60	5	05LK
10	120	10	10LK
20	240	20	20LK
32	384	32	32LC*

Part Codes and Nominal Dimensions

Tart Godo and Homman Emiliano									
Part		Dimensions (mm)							
Code	L	W	Ch	Cw	Sw	SI	Ø	S	
01LK	170	66	44	40	33	72	56	11	
02LK	215	85	59	52	42	88	68	16	
05LK	270	110	62	70	57	113	88	22	
10LK	365	145	83	90	73	144	112	31	
20LK	550	176	155	76	110	195	152	43	
32LC*	680	272	189	172	160	300	180	52	
32LK	850	286	291	166	155	233	182	55	

^{*} Halfen clutches carry a CE mark, more information is available on request.



Product Description	Part Code
5 Tonne Remote Release	05LKRR

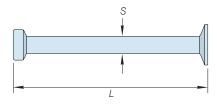


Unilift Lifting Systems

Cone Anchors

This classic spherical-headed, forged foot anchors are the first choice for most applications. They are manufactured from hot-dip galvanised, forged, high impact strength construction steel. Genuine Unilift anchors are stamped with a 'U' on the head, as well as load class and length.

The Working Load Limit (Load Class) of Unilift CA Cone Anchors is based on a factor of safety of 3.0. This exceeds the working load limit factor FoS for cast-in lifting inserts of 2.25 as specified in AS 3850.1:2015 - table 2.1.





Part Codes, Dimensions and Pack Size

Load Class	Dimensio	ons (mm)	LK Locking	Part	Quantity per
(Tonnes)	L	S	Klaw	Code	Bag
	35	10	01LK	CA01035	200
	45	10	01LK	CA01045	200
	55	10	01LK	CA01055	200
1.3	65	10	01LK	CA01065	200
	85	10	01LK	CA01085	100
	120	10	01LK	CA01120*	100
	240	10	01LK	CA01240	50
	55	14	02LK	CA02055	100
	75	14	02LK	CA02075	100
2.5	85	14	02LK	CA02085*	50
2.0	120	14	02LK	CA02120*	50
	170	14	02LK	CA02170*	25
	280	14	02LK	CA02280	25
	75	20	05LK	CA05075	50
	95	20	05LK	CA05095	50
	120	20	05LK	CA05120*	25
5.0	150	20	05LK	CA05150	25
5.0	170	20	05LK	CA05170*	25
	240	20	05LK	CA05240*	20
	340	20	05LK	CA05340	10
	960	20	05LK	CA05960	1
	150	28	10LK	CA10150*	10
10.0	200	28	10LK	CA10200*	10
	340	28	10LK	CA10340*	5
	200	39	20LK	CA20200*	1
20.0	340	39	20LK	CA20340*	1
	500	39	20LK	CA20500	1
32.0	500	50	32LC	CA32500	1
UZ.U	700	50	32LC	CA32700	1

^{*} Type 316 stainless steel anchors in stock, other sizes on request.





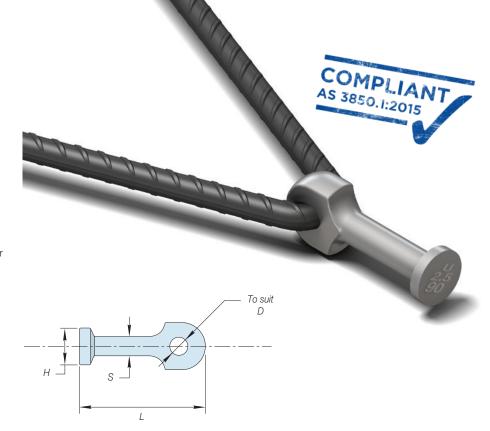
Unilift RA Reo (Eye) Anchors

Unilift RA Reo Anchors are used with a hanger bar, also known as a tension bar, where the concrete is too weak for a cone anchor. They are ideal for thin panels and other applications where the concrete cone developed by traditional foot anchors is insufficient to provide the working load limit of the anchor.

The bar is threaded through the hole in the anchor and embedded deep in the concrete. Like Unilift CA Cone Anchors they are manufactured from hot-dip galvanised, forged, high impact strength construction steel, and are stamped with a Unilift 'U', the load class and length.

The Working Load Limit (Load Class) of Unilift RA Reo Anchors is based on a factor of safety of 3.0. This exceeds the working load limit factor FoS for cast-in lifting inserts of 2.25 as specified in AS 3850.1:2015.

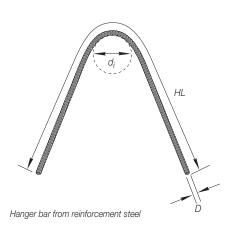
The cut lengths for the hanger bar given in the table are suitable for 15MPa concrete and calculated in accordance with AS 3600:2018 - Concrete Structures based on a FoS of 2.25.



Load Class		Dimension	ıs (mm)		Bending	Part	Quantity per
(Tonnes)	L	S	D	HL	Diameter d _i	Code	Bag
1.3	50	10	R10	500*	50	RA01050	200
1.3	65	10	R10	500*	50	RA01065	200
2.5	65	14	N10	620	50	RA02065	100
2.5	90	14	N10	620	50	RA02090	100
5.0	120	20	N16	840	80	RA05120	25
10.0	180	28	N20	1330	100	RA10180	10
20.0	250	39	N28	2030	140	RA20250	1
32.0	300	50	N40	2600	200	RA32300	1

 $^{^{\}star}$ Development length of plain bar increased by factor of 1.5 in accordance with AS 3600

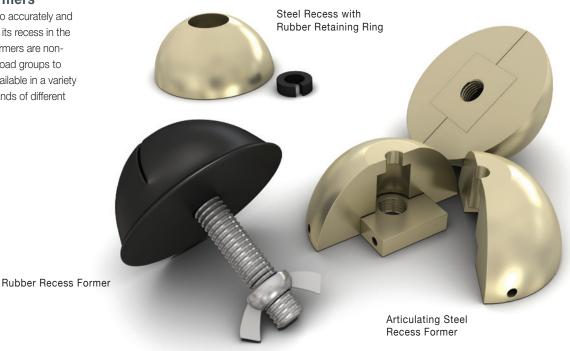




Unilift Lifting Systems

Unilift Recess Formers

These products are used to accurately and reliably set the anchor into its recess in the concrete panel. Recess formers are non-interchangeable between load groups to minimise errors and are available in a variety of types to meet the demands of different applications.



Rubber Recess Former

Our most economical recess former, used for a wide variety of applications. Made from a hard, yet flexible, oil resistant rubber, they are ideal for attachment to steel and timber forms as well as floats for top surface installation. Supplied complete with attachment bolt and wing nut.

Unilift / Anchor WLL (Tonne)	Diameter (mm)	Part Code
1.3	66	RRF01
2.5	80	RRF02
5	100	RRF05
10	128	RRF10
20	170	RRF20
32	236	RRF32

Steel Recess with Rubber Retaining Ring

Featuring a replaceable rubber retaining ring, these steel recess formers offer a long service life and are an economical alternative to rubber recesses for production precasting.

Unilift / Anchor WLL (Tonne)	Diameter (mm)	Recess Part Code	Ring Part Code
1.3	60	SRF01	RR01
2.5	74	SRF02	RR02
5.0	94	SRF05	RR05
10.0	130	SRF10	RR10

Articulated Steel Recess Former

These products are similar in action to the semi-spherical rubber recess, but are manufactured from steel, offering a long service life for production precasting.

Unilift / Anchor WLL (Tonne)	Diameter (mm)	Part Code
1.3	60	SRF01A
2.5	74	SRF02A
5.0	94	SRF05A
10.0	130	SRF10A

Plastic Recess Former with Steel Collets

These recess formers are manufactured from a hard, oil resistant plastic, providing a long service life and economical alternative to rubber recesses for production precasting.

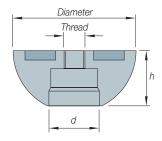
Unilift / Anchor WLL (Tonne)	Diameter (mm)	Part Code
10	130	PRFC10
20	175	PRFC20





Halfen Magnetic Recess Formers

These magnetic recess formers are used in metal formwork when drilling is not an option.



Unilift / Anchor WLL (Tonne)	Part Code	Diameter (mm)	h (mm)	Thread	d (mm)
1.3	SRFM01	60	27.5	M8	20.5
2.5	SRFM02	74	33	M12	30
5.0	SRFM05	94	42	M12	38
10.0	SRFM10	118	53	M12	48



Halfen Magnetic Recess Formers

Tilt-Up Site Cast Lifting Systems

These systems use the forged steel Unilift 5 tonne anchor and can be used with the remote release 5 tonne QwikTilt Klaw for maximum efficiency on site.

QwikTilt Face Lift Anchor Sets

The anchor is housed in a robust plastic chair with four stable legs and several tie-in points on the ring to prevent movement during casting. There is no requirement for a cross bar. They are available from stock, in pre-packed cartons, to suit the most popular panel thickness i.e. 125, 150, 170, 175, 200, 250mm. Units to suit other panel thicknesses are available on request.







Panel Thickness (mm)	Anchor Length (mm)	Embedment Depth h _{eff} (mm)	Part Code	Quantity per Box
100	75	86	FLA05100	40
125	95	106	FLA05125	40
150			FLA05150	40
170	120	131	FLA05170	30
175			FLA05175	30
200			FLA05200	25
250	150	161	FLA05250	-

Worldwide contacts for Leviat:

Australia

Leviat

98 Kurrajong Avenue, Mount Druitt Sydney, NSW 2770 Tel: +61 - 2 8808 3100 Email: info.au@leviat.com

Austria

Leviat

Leonard-Bernstein-Str. 10 Saturn Tower, 1220 Wien Tel: +43 - 1 - 259 6770 Email: info.at@leviat.com

Belaium

Leviat

Industrielaan 2 1740 Ternat

Tel: +32 - 2 - 582 29 45 Email: info.be@leviat.com

China

Leviat

Room 601 Tower D, Vantone Centre No. A6 Chao Yang Men Wai Street Chaoyang District Beijing · P.R. China 100020 Tel: +86 - 10 5907 3200 Email: info.cn@leviat.com

Czech Republic

Leviat

Business Center Šafránkova Šafránkova 1238/1 155 00 Praha 5 Tel: +420 - 311 - 690 060 Email: info.cz@leviat.com

Finland

Leviat

Vädursgatan 5 412 50 Göteborg / Sweden Tel: +358 (0)10 6338781 Email: info.fi@leviat.com

France

Leviat

6, Rue de Cabanis FR 31240 L'Union Toulouse

Tel: +33 - 5 - 34 25 54 82 Email: info.fr@leviat.com

Germany

Leviat

Liebigstrasse 14 40764 Langenfeld Tel: +49 - 2173 - 970 - 0 Email: info.de@leviat.com

India

Leviat

309, 3rd Floor, Orion Business Park Ghodbunder Road, Kapurbawdi, Thane West, Thane, Maharashtra 400607 Tel: +91 - 22 2589 2032 Email: info.in@leviat.com

Italy

Leviat

Via F.Ili Bronzetti 28 24124 Bergamo Tel: +39 - 035 - 0760711 Email: info.it@leviat.com

Malaysia

Leviat

28 Jalan Anggerik Mokara 31/59 Kota Kemuning, 40460 Shah Alam Selangor Tel: +603 - 5122 4182 Email: info.my@leviat.com

Netherlands

Leviat

Oostermaat 3 7623 CS Borne Tel: +31 - 74 - 267 14 49 Email: info.nl@leviat.com

New Zealand

Leviat

2/19 Nuttall Drive, Hillsborough, Christchurch 8022 Tel: +64 - 3 376 5205 Email: info.nz@leviat.com

Norwa

Leviat

Vestre Svanholmen 5 4313 Sandnes Tel: +47 - 51 82 34 00 Email: info.no@leviat.com

Philippines

Leviat

2933 Regus, Joy Nostalg, ADB Avenue Ortigas Center Pasig City

Tel: +63 - 2 7957 6381 Email: info.ph@leviat.com

Poland

Leviat

UI. Obornicka 287 60-691 Poznań Tel: +48 - 61 - 622 14 14 <u>Email: info.pl@</u>leviat.com

Singapore

Leviat

14 Benoi Crescent Singapore 629977 Tel: +65 - 6266 6802 Email: info.sg@leviat.com

Spain

Leviat

Polígono Industrial Santa Ana c/ Ignacio Zuloaga, 20 28522 Rivas-Vaciamadrid Tel: +34 - 91 632 18 40 Email: info.es@leviat.com

Sweden

Leviat

Vädursgatan 5 412 50 Göteborg Tel: +46 - 31 - 98 58 00 Email: info.se@leviat.com

Switzerland

Leviat

Grenzstrasse 24 3250 Lyss Tel: +41 - 31 750 3030 Email: info.ch@leviat.com

United Arab Emirates

Leviat

RA08 TB02, PO Box 17225 JAFZA, Jebel Ali, Dubai Tel: +971 (0)4 883 4346 Email: info.ae@leviat.com

United Kingdom

Leviat

President Way, President Park, Sheffield, S4 7UR Tel: +44 - 114 275 5224 Email: info.uk@leviat.com

United States of America

Leviat

6467 S Falkenburg Rd. Riverview, FL 33578 Tel: (800) 423-9140 Email: info.us@leviat.us

For countries not listed

Email: info@leviat.com

Leviat.com

Notes regarding this catalogue

For more information on the following products, please contact:

Masonry, Structural and Precast Concrete products:

Tel: 1300 304 320

Email: info.ancon.au@leviat.com

Web: Ancon.com.au

Concrete Floor Jointing products:

Tel: 1800 335 215

Email: info.connolly.au@leviat.com Web: Connollykeyjoint.com

Email: info.isedio.au@leviat.com

Web: Isedio.com.au

Remedial Masonry products:

Tel: 1300 667 071

Email: info.helifix.au@leviat.com

Web: Helifix.com.au

General Enquiries

Tel: 1300 304 320 Email: info.au@leviat.com Web: Leviat.com

Sales Offices and Production

New South Wales, Sydney

98 Kurrajong Avenue Mount Druitt | Sydney NSW 2770

Queensland

4/15 Terrace Place Murarrie | Brisbane QLD 4172 **New South Wales, Casino**

10 Irving Drive Casino NSW 2470

Western Australia

18 Tennant Street Welshpool | Perth WA 6106

Victoria

9/63-69 Pipe Road Laverton North | Melbourne VIC 3026

Leviat.com

