



Ancon°
EdjPro Lifting Systems

We are one team. We are Leviat.

Leviat is the new name of CRH's construction accessories companies worldwide.



Under the Leviat brand, we have united the expertise, skills and resources of Ancon and its sister companies to create a world leader in fixing, connecting and anchoring technology.

The products you know and trust will remain an integral part of Leviat's comprehensive brand and product portfolio. As Leviat, we can offer you an extended range of specialist products and services, greater technical expertise, a larger and more agile

supply chain and better, faster innovation.

By bringing together CRH's construction accessories family as one global organisation, we are better equipped to meet the needs of our customers, and the demands of construction projects, of any scale, anywhere in the world.

This is an exciting change. Join us on our journey.

Read more about Leviat at Leviat.com

Our product brands include:







Ancon EdjPro Lifting Systems

Why Choose Ancon EdjPro?

- ✓ EdjPro anchors have a removable plug to prevent concrete entering the lifting hole
- ✓ Recess formers fit like a glove, providing a gap between the anchor and concrete
- ✓ The clutch is clear of the concrete edge and has a safer locking ring design
- ✓ Clutches are compatible with previous anchor versions
- ✓ EdjPro systems are compliant with AS 3850.1:2015

Conventional Lifting Systems

Worn or poorly fitted conventional recess formers frequently cause lifting holes to become blocked. The use of Ancon EdjPro lifting systems prevents this and avoids difficult and time consuming on-site hole cleaning, reducing installation costs.







Examples of blocked lifting holes



On-site maintenance work required to clean lifting holes

Ancon EdjPro Lifting Systems

An integrated plug prevents concrete ingress into the lifting hole. The plug is simply removed on-site.





Clean, maintenance-free lifting holes

Our aim:

No cracking, no spalling, no patching.

Faster, safer manufacture,
handling and installation

The Ancon EdjPro Range

Anchor code	System colour	Compatible clutch code	Compatible recess code	Head style	Maximum WLL (tonnes)	Anchor length (mm)	Anchor width (mm)	Recess width (mm)
EPA04	Silver	EPLC04	EPRF04	Classic Flat	4	200	40	55
NEW EPHIMini	Purple	EPLCMini	EPRFMini	HI	8.5	200	40	50
EPNA10	Green	EPLCMax	EPNRF10	Classic Flat	10	275	70	70
NEW EPHIMax	Green	EPLCMax	EPRFMax	Н	15	250	55	65

Detailed design specifications are provided in the EdiPro Design Guide, including dimensions for all components and tension bars.



Ancon EdjPro Lifting Systems

Ancon EdjPro EPA04 Edge Lifting System

The EdjPro EPA04 Edge Lifting System is the smallest anchor in the EdjPro range. The narrow system components provide a Working Load (WLL) of 4 tonnes in tension for panels as thin as 100mm. All components are designed around the thin EPA04 anchor to provide the maximum possible concrete cover while ensuring the required clearance to the surrounding concrete. This avoids concrete spalling during the introduction of shear loads.

Reliable

All the benefits of the established EdjPro system with a narrow 4T WLL anchor & recess for thin panels from 100mm

Strong

✓ Up to 4T WLL when used with a 12mm tension bar

Versatile

✓ The EdjPro clutch and EPA04 provide high performance for edge lifting in the factory, during transportation and erection

Safe

- ✓ Anchor code, WLL and batch number are clearly visible when cast into concrete
- ✓ Complies with the requirements of AS 3850.1:2015



For light precast panels from 100mm thickness

For light precast panels

Ancon EdjPro EPA10 Edge Lifting System

The EdjPro EPNA10 Edge Lifting System provides a Working Load (WLL) of up to 10 tonnes when used with 20mm tension bar for panels as thin as 125mm. All components have been designed to provide the maximum clearance from the clutch to the concrete panel edge to avoid concrete spalling. For step-joint panels the anchor can also be used in combination with the EdjPro EzyTurn Clutch.

Reliable

- ✓ All the benefits of the established EdjPro system with a narrower anchor and recess for thin panels from 125mm
- ✓ Ideal for thin panels with step joints

Strong

✓ Up to 10T WLL when used with a 20mm tension bar

Safe

- ✓ Anchor code, WLL and batch number are clearly visible when cast into concrete
- ✓ Complies with the requirements of AS 3850.1:2015



Ancon EPHIMini and EPHIMax Lifting Systems

The Ancon EdjPro EPHI range offers ultra-slim, high load edge lifting solutions for thin precast concrete elements. Our range has been specifically designed for the Australian construction industry and comprises the EdjPro EPHIMax, which allows two-point lifts of precast panels of up to 21.7 tonnes, and the EdjPro EPHIMini which is suitable for panels up to 12.3 tonnes when lifted with 2 anchors and incorporating a sling angle of 60°.







Ultra-slim, high working loads

✓ Easily fits into double layer congested reinforcement



I-beam shear foot

✓ No need for shear bars in most applications



EdjPro EPLCMini Clutch

The EdjPro EPHIMini Anchor works in conjunction with the EdjPro EPLCMini Clutch



Unique I-beam heads

- ✓ Exceptional stiffness & load transfer
- ✓ Prevents head distortion or shear failure
- ✓ Interlocks with the clutch to limit rotation
- ✓ Prevents bearing, concrete cracking and spalling





Easily identifiable

✓ I-beam head is unmistakeable identification is easy for clutch compatibility. Integrated plug prevents concrete ingress into clutch holes.



Clutch clearance even in step-joints



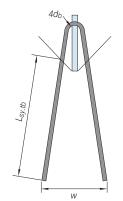
Ultra tough forged alloy steel

✓ Hot dip galvanised high strength alloy steel



Optimised tension bar WLLs

 New anchor shape maximises tension bar WLL and reliability



Fast lifting off the bed

✓ No need to creep the crane when lifting off the bed



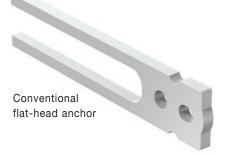


Ancon EdjPro Lifting Systems

How EdjPro Systems Prevent Cracks

Conventional flat-head systems can spall edges. Ancon EdjPro lifting systems provide fast, clean, safe connections in all directions including clutch and anchor concrete clearance.

Conventional flat-head anchor systems





Conventional clutch has a round locking ring so the clutch is free to rotate around the anchor under shear load.



Rotation causes the side of the clutch to bear against the top of the anchor causing a shearing force to the side.

Clutch shear load deforms the anchor to the side.

The clutch fully rotates and the concrete spalls away.

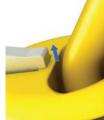
The deformed anchor bears on the concrete resulting in cracking, causing further rotation. This results in the



Anchor bearing crack



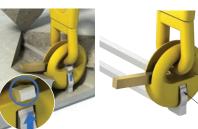




clutch torus and handle spalling the concrete.

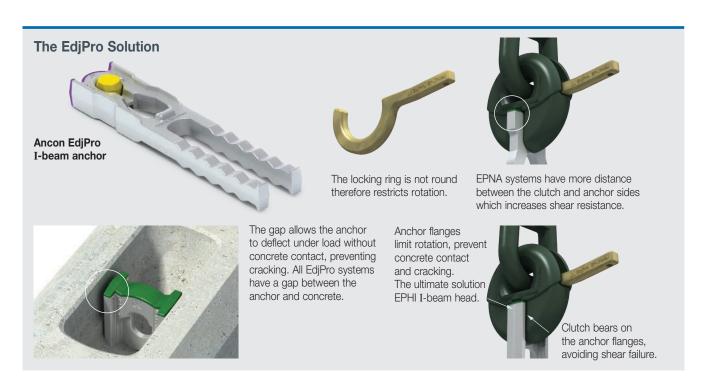






Anchor sheared by the clutch

Complete rotation and failure



Ancon EdjPro Anchor Systems comply with AS 3850.1:2015

AS 3850 Clause	Requirement
1.4.35	A lifting insert is a component or a system. EdjPro Anchors and tension bars are two components of a lifting insert system.
1.4.12	A tension bar (component reinforcement) is a component which is required to achieve the working load of a lifting system.
1.4.37	EdjPro Anchors are plate style inserts, essentially planar in form.
2.2	The Working Load Limit (WLL) has a factor of Safety of 2.25 against the critical characteristic strength $R_{\scriptscriptstyle u}$ (effectively the minimum breaking strength), determined by testing according to Appendix A.
2.5.2.1	EdjPro EPHI Anchors are forged from fully killed steel with grain size less than 6 (AS 1733), elongation not less than 15% for martensitic or 20% for pearlitic steels, and a 100% fibrous failure surface consistent with ductile failure when loaded in tension. EdjPro Anchors are tested in and out of concrete in accordance with Appendix A and are marked for visible confirmation of compatibility. EdjPro Anchors and Recess Formers are marked for compatibility.
Table 2.2	Maximum Carbon 0.25%, Phosphorous 0.05%, Sulphur 0.05%.
2.5.2.2	Plate style inserts must have a tension bar (component reinforcement). EdjPro Anchors are designed to always be used with a tension bar.
2.5.2.2 C2.5.2.2	An edge lift insert must be tested in accordance with Appendix A, with and without its tension bar to determine the characteristic strength R _u and WLL.
	The tension bar is one component of the lifting insert system, the other component is the plate style insert. The WLL for the system is based on the minimum characteristic strength of the system.
	The critical mode of failure of tension bars is "double shear" at the anchor aperture. R _u of tension bars is limited to the tested shear strength of AS 4671 N class bars manufactured with the minimum tensile strength (540MPa).
	When tested in concrete of the design lifting strength, the $R_{\rm u}$ of the anchor without the tension bar is not less than the anchor WLL.
Appendix A	Anchor testing must conform with Appendix A, parts A1, A2, A3, A4, A6 & A7.
Appendix A1.5	R _u is the critical characteristic strength which has a 95% probability of being exceeded at a confidence of 90%, of a component or system.
Appendix A3.1 Appendix A6	Each component and the insert system (plate style insert + tension bar) to determine the critical mode of failure and critical characteristic strength.





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

Belgium

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

Norway

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 Email: info.pl@leviat.com

Singapore

Leviat

14 Benoi Crescent Singapore 629977 Tel: +65 - 6266 6802 <u>Email:</u> 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

Email. imo.cn@leviat.cc

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

