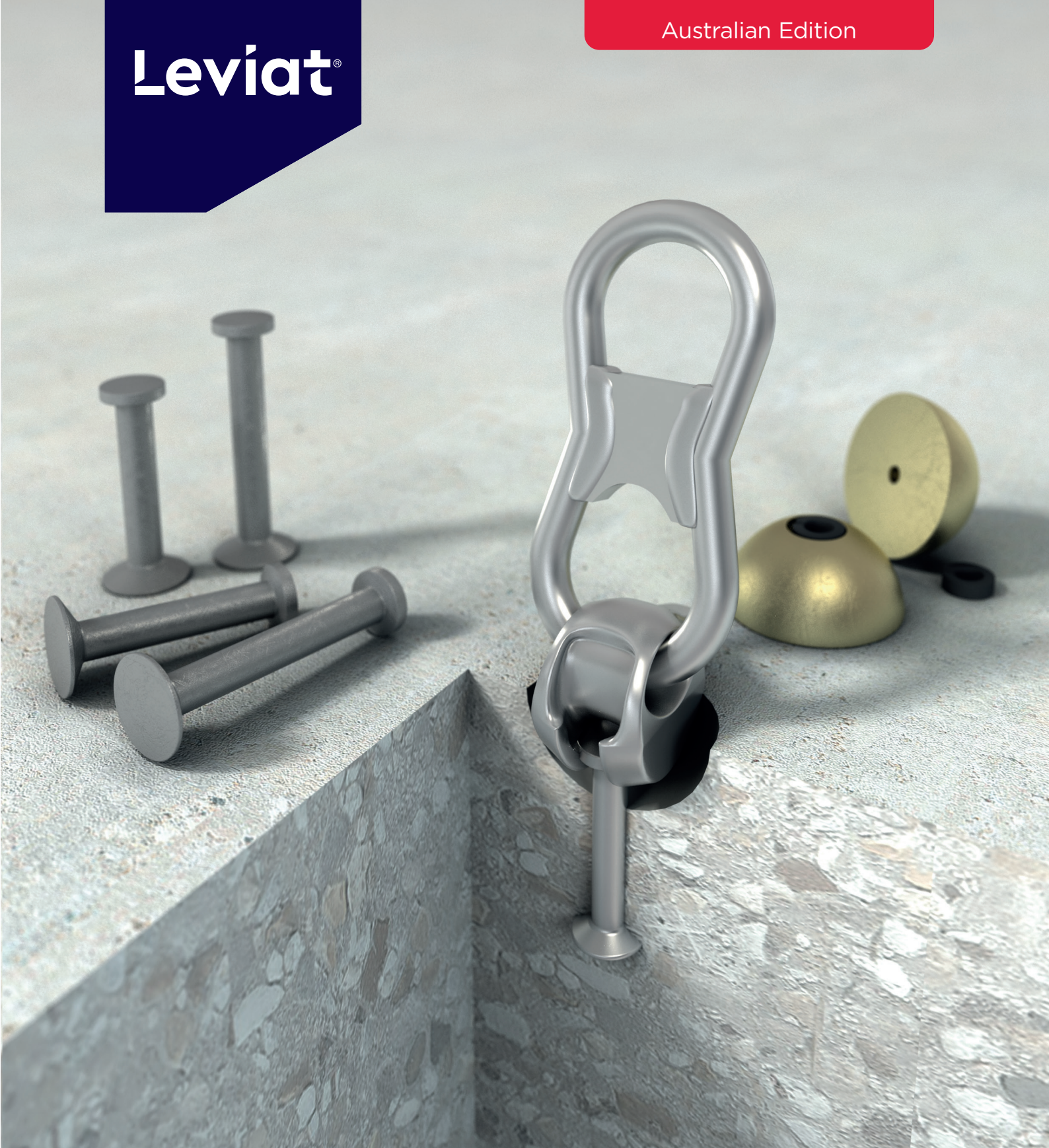


Leviat®

Australian Edition



COMPLIANT
AS 3850.1:2015



April 2023

Ancon®

**Ancon Unilift and
Ancon EdjPro Clutch
Discard Criteria**

Leviat

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.

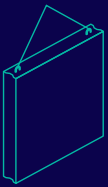




>3,000
People

60+
Locations

~20
Countries

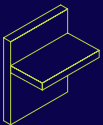


Lifting & Bracing

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:



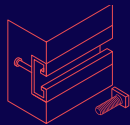
Structural Connections

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.



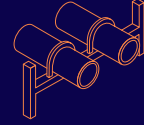
Anchoring & Fixing

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.

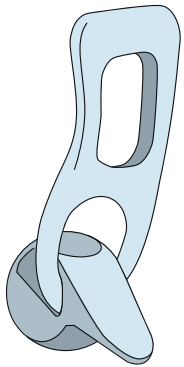
Leviat product ranges:

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

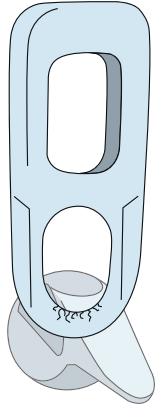
Ancon Unilift Locking Klaw Discard Criteria

Discard Criteria for Spherical Headed (SH) Anchor Systems

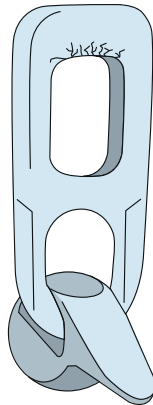
The following diagrams show the causes for immediate discard/replacement.



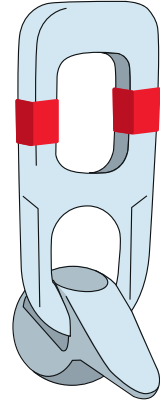
Bent or distorted handle



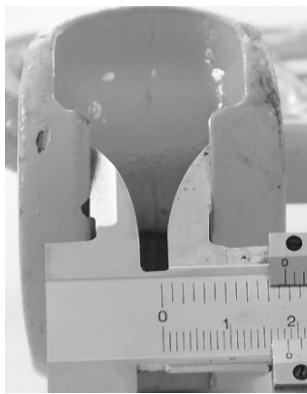
Excessive loop wear and deformation



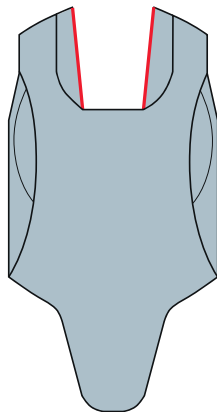
Excessive deformation with cracking in the handle



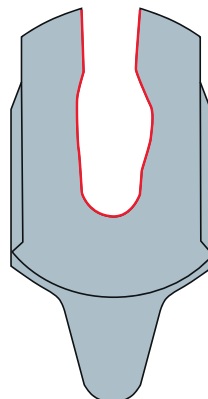
Unauthorised repair or modification e.g. welding



Out of tolerance slot



Bent lips, slot too wide



Bending, distortion of the loaded slot lips



Bent, worn slot

Immediate Discard Criteria for Ancon Unilift Locking Klaws

According to AS 3850.1: 2015, each clutch should be load tested to 1.2 x WLL at least annually.

Clutches should be immediately withdrawn from service and scrapped if:

- The Ancon Unilift Locking Klaw visibly deforms or fails during a proof load test.
- There is a defect or wear which could reduce the safe working capacity of the clutch.

Cracking

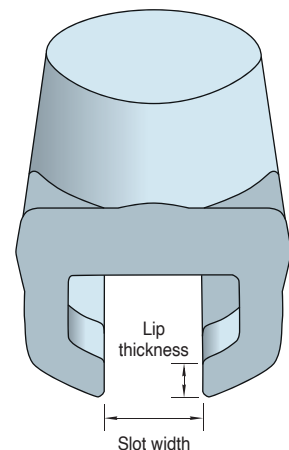
If there are any visible cracks in any part of the Locking Klaw, it should be discarded immediately.

Deformation

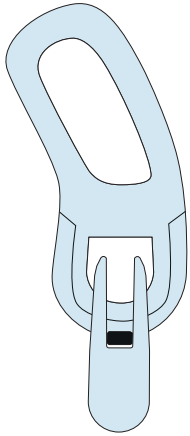
During the annual inspection the width of the slot and the width of the lip thickness should be measured.

The following table shows the threshold values.

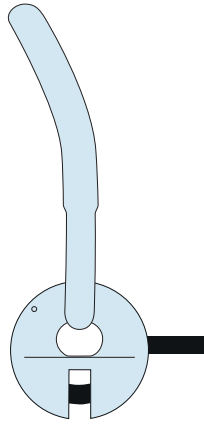
Working Load Limit	Max slot width (mm)	Min lip thickness (mm)
1.3	13	5.5
2.5	18	6
5	25	8
10	32	12
20	46	18
32	58	24



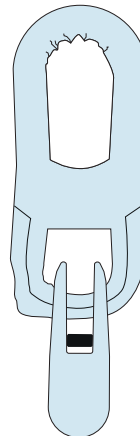
Discard Criteria for Ring Clutch (RC) Anchor Systems



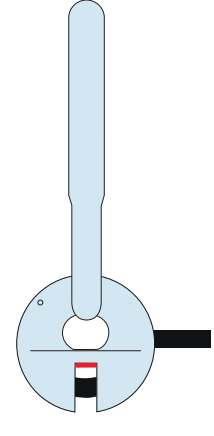
Distorted handle



Bent handle



Distortion or excessive wear and/or cracking of upper or lower loops



Wear, distortion in the "bridge" of the slot



Broken locking rings



Bent, distorted locking rings

Ancon EdjPro Clutch Discard Criteria

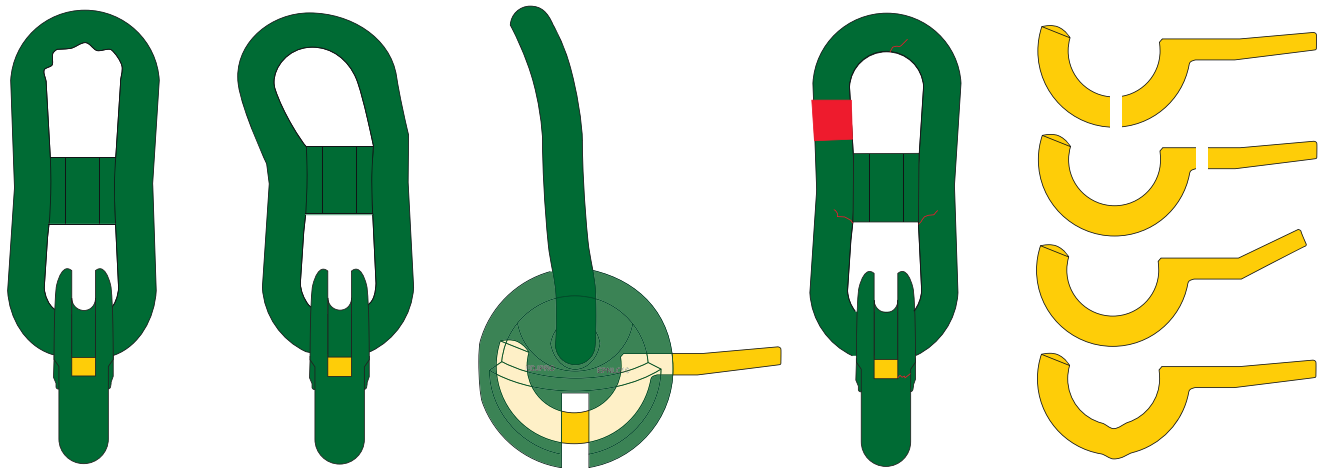
Ancon EdjPro Clutch Discard Criteria

This discard criteria applies to Ancon EdjPro clutch models manufactured from 2020, shown below.



Note: Discard criteria for superseded clutch models are available from Leviat upon request.

General criteria for immediate discard and replacement: damage, distortion or fracture



Severe wear, excessive bruising

Distortion

Bending

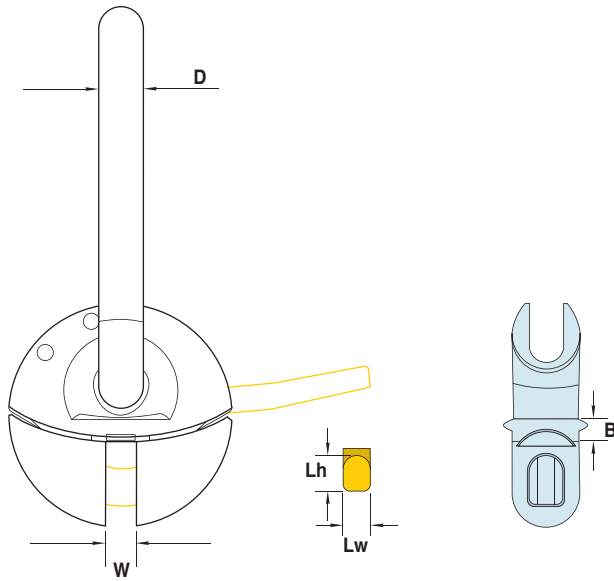
Evidence of weld repairs or cracking

Locking ring fracture, bending, distortion, wear

Any clutch which shows evidence of cracking, overloading or distortion more than 5 degrees out of plane from the original shape or dimension should be immediately withdrawn from service, destroyed and replaced with a genuine Ancon EdjPro clutch.

Ancon EdjPro clutches are not compatible with, and may not be substituted by, clutches made by others.

Discard Dimensions and Proof Test Load Requirements



Ancon EdjPro Clutch	Loop and Handle Diameter	Slot Width	Bridge Depth	Locking Ring Width	Locking Ring Height	WLL	Annual Proof Test Load
Dimension after wear	Average (minimum diameter)	Maximum	Minimum	Minimum	Minimum		
	D mm	W mm	B mm	Lw mm	Lh mm	tonnes	kN
EPLCMax	25	23	14	14.5	21	15	177
EPLCMini	17	20	6.5	12	15.5	8.5	100
EPLC04	14	19	8	12	12	4	47

Notes: Each clutch is tested to twice the WLL prior to first sale. This initial test always leaves a small “dent” inside the top loop and some wear and bruising caused by the attached lifting tackle is normal. The average diameter shown above should be made by taking at least 5 measurements around the circumference.

At least annually, each clutch must be visually inspected for wear, damage and distortion and proof tested to the load shown in the table above, by a third party accredited test authority in accordance with the requirements of AS 3850.1:2015.

A compatible Ancon EdjPro anchor or a test piece approved by Leviat shall be used for the proof test.

The clutch must attain the proof load without signs of distortion or failure. Failure to meet the proof load shall be a reason for immediate clutch destruction and replacement.

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