Leviat®

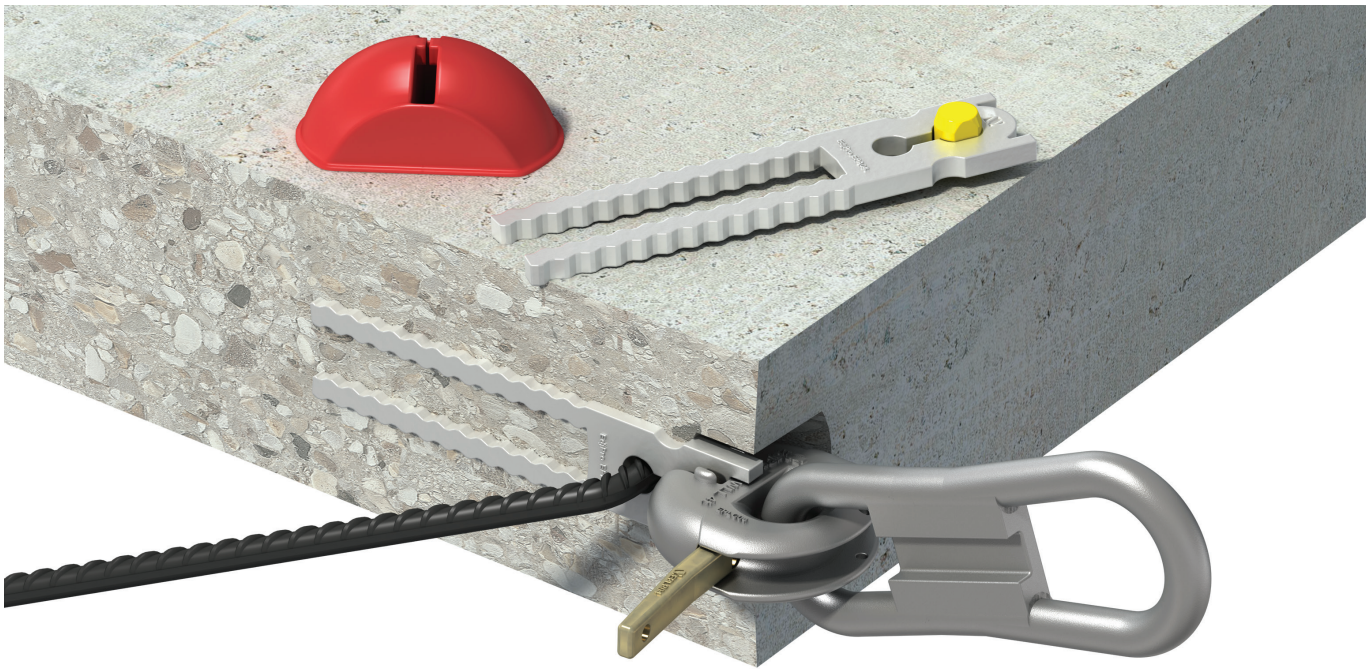
Ancon®

Ancon EdjPro EPNA04

Edge Lifting System

For light precast panels from 100mm thickness

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

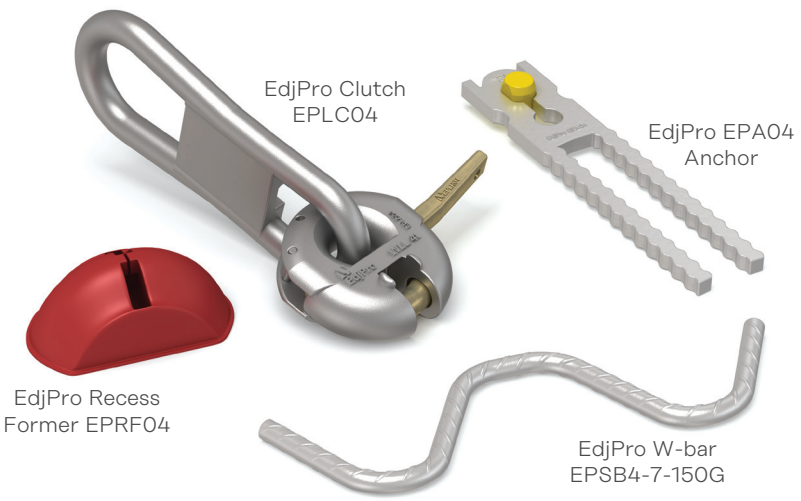
- Up to 4T WLL when used with a 12mm tension bar

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 AS3850.1:2024



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System Performance

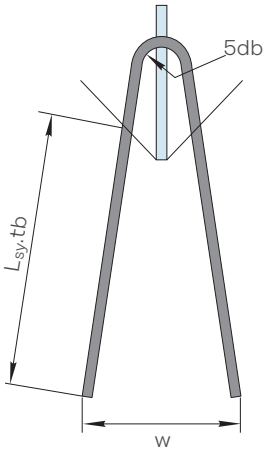
Working Loads in Tension

Anchor Code Colour	Tension bar	Recommended development length $L_{sy.tb}$ (mm)	Total cut length (mm)	Spread width W (mm)	WLL (tonnes)
EPNA04 **Sliver**	**N12**	365	885	280	**4**

Note: The development length for the tension bar is based on a concrete strength of 15MPa and a panel thickness of 100mm. EdjPro EPA04 anchors are designed to be used with an N12 tension bar in accordance with AS3850:2015.

Working Loads Limits in Shear (tonnes); During demoulding by tilting from horizontal to vertical (One edge of panel Supported on Ground)

Panel Thickness (mm)	Perimeter (edge) bar	Concrete strength at the time of lift f_{lift} (MPa)	Edge lift capacity (tonnes)	
			With edge bar only	With edge bar and N12 Shear bar
		10	12	15
Maximum recommended shear load to avoid concrete cracking.				
100-125	N12 or N16	15	0.8	1.2
		30	0.9	1.2
150	N16	15	0.9	1.2
		30	1.0	1.2



Notes: Locate the perimeter bar above the EdjPro anchor to control flexural cracking. N12 shear "w" bars may help control shear cracking at higher loads. Panel cracking and shear spalling is possible if the recommended loads are exceeded. Some anchor deflection is normal, particularly at high sling angles. For other panel thicknesses, please consult the Leviat technical team for design advice.
The WLLs shown in the tables above are based on a minimum distance equal to the panel thickness between an anchor and any edge or penetration (e.g. a duct) and twice this distance between any two anchors.
If the shear load is sustained after demoulding, supplementary shear reinforcement is required in addition to the trimmer bar. Please contact Leviat engineering team for advice.

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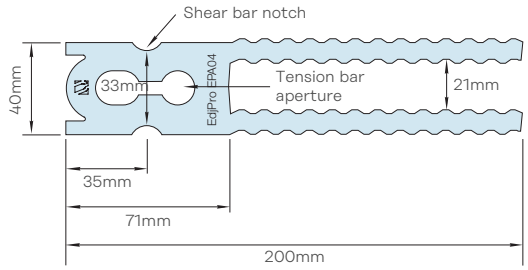
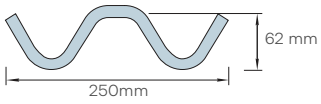
EdjPro EPA04 Anchor

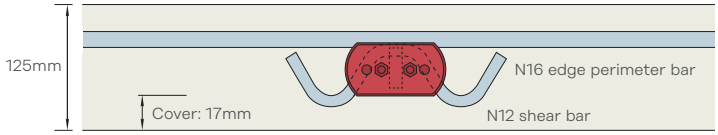
Narrow body and high capacity, perfect for thin panels.



Standard Hot Dip Galvanised N12 W Shear Bar EPSB4-7-150G

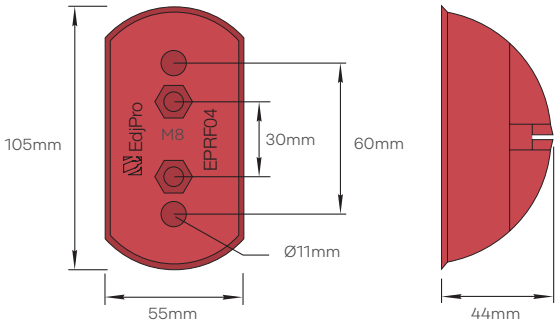


Edge Elevation of N16 Edge Bar, N12 Shear Bar and EdjPro Anchor in 125mm Panel

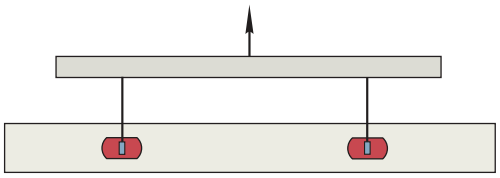


Narrow Recess Former (EPRF04)

Slender design, perfect for thin panels.



Recommended Rigging



A lifting beam and vertical slings i.e. sling angle = 0° minimises concrete stress in the thin edge.
When lifting with slings without a beam, limit sling angles to 60°.

Important! The EPA04 is designed to be installed with the EPRF04 recess and lifted with the EPLC04 clutch (or the compatible but now superseded EPLC05 clutch). This system is not compatible with other components without written authorisation from Leviat.