



# Ancon EdjPro System

## Building Product Information Sheet

The Ancon EdjPro System consists of a range of lifting anchors and ancillary items (clutches and recess formers) used for the safe and efficient handling of precast concrete items during manufacture, transport and installation. EdjPro anchors are cast into the concrete, most commonly into thin, factory-cast concrete panels where lifting from the panel edge is required. Recess formers (EPRF) create a void around the anchor head. EdjPro clutches (EPLC) engage with the head and transfer the lifting loads into the anchor. EdjPro components are available in a range of load classes with working loads reaching from 3 tonnes to 11.5 tonnes.

### Composition

- EdjPro anchors are manufactured from forged, high impact strength construction steel and hot-dip galvanised for durability.

### Supporting documentation

- Full product details are available in supporting technical documentation. See: EdjPro EPA03 Lifting System, EdjPro Narrow Lifting System, EdjPro EPHIMax and EdjPro EPHIMini. Available from: <https://www.ancon.co.nz/downloads/technical-literature>

### Product Identifier

- EPA03, EPNZ08, EPNA08, EPHIMini, EPHIMax

### Relevant Building Code clauses:

- Clause B1 Structure — B1.3.1, B1.3.2, B1.3.3, B1.3.4
- Clause B2 Durability — B2.3.1 (a)
- Clause F2 Hazardous Building Materials — F2.3.1
- Clause F5 Construction and Demolition Hazards — F5.3.1

### Contributions to Compliance:

#### Clause B1 Structure

- EdjPro anchors perform a function during construction only and will not contribute to building integrity. Misuse may nevertheless compromise the in-service performance of concrete items that otherwise must meet the provisions of Clause B1.

#### Clause B2 Durability

- B2.3.1 (a).** EdjPro anchors will meet the provisions of B2.3.1(a) of not less than 50 years subject to correct use, placement and maintenance in accordance with the design and required durability assessment of the designer working to the appropriate design and environmental standards

#### Clause F2 Hazardous Building Materials

- F2.3.1.** EdjPro anchors meet the performance requirements under Clause F2.3.1.

#### Clause F5 Construction and Demolition Hazards

- F5.3.1.** EdjPro anchors and EdjPro clutches meet the minimum factors of safety (FoS) for anchors and clutches as defined in the Good Practice Guidelines (GPG) of WorkSafe New Zealand's "Safe Work with Precast Concrete" (Oct 2018), Sections 6.6 and 10.11, and are manufactured and tested in accordance with AS3850.

### Manufacturer and Importer Details:

<b>Place of Manufacture:</b>	Overseas
<b>Manufacturer:</b>	CRH Consulting (Shanghai) Co. Ltd.* Unit 1001-5, Office Tower, Capital Square, No. 268 Hengtong Road, Jing'an District, Shanghai, China
<b>Manufacturer Phone:</b>	+86 21 5286 0599
<b>Importer Name:</b>	Leviat New Zealand Limited
<b>Importer Address:</b>	246D James Fletcher Drive, Otahuhu, Auckland, 2024
<b>Importer Website:</b>	<a href="http://www.leviat.com/en-nz">www.leviat.com/en-nz</a>
<b>Importer Email:</b>	<a href="mailto:info.nz@leviat.com">info.nz@leviat.com</a>
<b>Importer Phone:</b>	+64 9 276 2236
<b>Importer NZBN:</b>	9429031339056

\*CRH Consulting (Shanghai) Co. Ltd. oversee the supply of product manufactured in China to Leviat specifications.

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### Limitations on the use of the building product:

- EdjPro anchors are cast-in products that will remain part of the finished concrete item. The anchor head may remain exposed. The durability of coated steel anchors situated in concrete exposed to damp or exterior conditions is the responsibility of the designer. Guidelines helpful to the preparation of the durability assessment necessary to the use of anchors in environments subject to different conditions are presented in NZS 3101, Clause 3.13.

### Design requirements to support appropriate use:

- Competent persons (GPG, Section 1.4) shall be responsible for the design of precast concrete items and use of the EdjPro system.
- Designers must work in accordance with the GPG and consider both the capacity of the item to withstand the loads that are likely to be imposed during manufacture, transport and installation (including when lifting and handling), and the in-service performance the item is expected to provide as part of the completed structure.
- The working load limit capacity of EdjPro anchors is calculated in accordance with the Concrete Capacity Design (CCD) method.

### Installation requirements:

- The EdjPro system shall be installed by competent persons in accordance with Leviaat technical documentation, GPG and the lifting design prepared by a competent person.
- Recesses may be sealed and filled after the concrete items have been positioned and installed.
- Installation guidelines are available in supporting technical documentation. See: EdjPro EPA03 Lifting System, EdjPro Narrow Lifting System, EdjPro EPHIMax and EdjPro EPHIMini. Available from: <https://www.ancon.co.nz/downloads/technical-literature>

### Maintenance requirements:

- Maintenance of installed anchors shall be in accordance with the design and durability assessment of the designer. Maintenance of the anchor when installed in interior, dry and protected environments will not normally be required during the expected life of the anchor.
- Remedial work to the concrete surrounding the anchor will be required to restore integrity and prevent the ingress of moisture in those instances where repairable cracking or damage has occurred through error or misfortune experienced during lifting and handling.

### Warnings or ban:

- This product is not subject to any warning or ban under section 26 of the Building Act 2004