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

We are one team. We are Leviat.

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

Under the Leviat brand, we are uniting 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
- Connolly
- HALFEN
- HELIFIX
- ISEDIO
- PLAKA


60 locations

sales in 30+ countries

3000 people worldwide

Leviat.com
Who We Are

Leviat designs and manufactures high integrity steel products for the construction industry, supplying customers worldwide in a variety of sectors from small-scale residential developments to major infrastructure projects.

What We Offer

Leviat has the in-house engineering design and manufacturing capabilities to meet the specialist fabrication requirements of a diverse range of industries. On a daily basis, Leviat's technical staff liaise with project teams throughout the world, advising on the most cost-effective and practical fixing solutions.

Our production facilities are capable of producing a high volume of standard products on very short lead times and bespoke products specifically engineered to meet individual project requirements. We are well-positioned to supply repeat orders of non-standard products, to exacting quality standards.

Due to its long-life, low-maintenance characteristics, stainless steel offers whole-life costing benefits. Leviat has a wealth of experience of working with a variety of material types and grades, specialising in the fabrication of Austenitic, Duplex and Super Duplex stainless steels. Leviat can advise on the selection of the most suitable material for any fabrication.

Large stocks of standard grade materials are maintained in order to meet urgent deliveries. Project-specific material requirements are efficiently sourced direct from steel producers.

The supply of fabricated components is project-managed and delivered anywhere in the world, to suit the demands of the site schedule.

Leviat is a member of the British Stainless Steel Association, Swiss Inox and the Australian Stainless Steel Development Association.
The Tunnelling Industry

Leviat is a member of the Australasian Tunnelling Society.
We have an impressive international project portfolio in this demanding Infrastructure sector.

This booklet provides brief details of just some of the projects with which we have been involved.


Enquiry
Technical
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Manufacturing
Supply

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Feasibility Assessment
Cost Analysis & Quotation
System Design
Value Engineering
Project Management
Site Scheduling

Corrosion Resistance
Regulatory Compliance
Material Specification
Prototype Fabrication & Testing
Low Maintenance Solutions
Supply Chain Management
Short Lead Times

Concept Evaluation
Cost Analysis & Quotation
Life-Cycle Costing Benefits
Prototype Fabrication & Testing

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The CLEM7 Tunnel, known as the North-South Bypass Tunnel during its construction, is a new toll road built under the Brisbane River. It comprises two 4.8 kilometre twin-lane tunnels which bypass the city’s central business district, significantly reducing surface traffic congestion.

In addition to being the longest road tunnel in the country, it is also the most advanced with many safety features. In the event of a fire or explosion, a high-tech ventilation system comprising 100 jet fans will rapidly extract smoke to a longitudinal duct high above the road deck.

Leviat designed and manufactured the stainless steel suspension system used to hold the immense concrete slabs which form the duct. Each component of the system performs an essential structural function within a highly corrosive environment. The welded sections were subject to particularly demanding quality standards and each underwent an intense test and inspection programme prior to despatch to confirm its integrity.

Leviat also fabricated the 33,000 light gauge stainless steel posts used to support the architectural lining around the tunnel walls. A dedicated production cell produced 1,900 posts per week to meet a strict site schedule.

**Project:** CLEM7 Tunnel (North-South Bypass Tunnel)  
**Client:** River City Motorway Limited / Brisbane City Council  
**Contractor:** Leighton Contractors, Baulderstone/Bilfinger Berger Joint Venture  
**Stainless Steel:** Duplex, grade 1.4462  
**Key Features:**  
- 2no. 4.8km, twin-lane tunnels  
- Advanced smoke extraction into longitudinal duct  
- Tunnel ceiling suspended from high integrity stainless steel system
The 762 metre long Clyde Tunnel has been a major transport link between north and south Glasgow for almost 50 years. On average 65,000 vehicles travel through it daily.

Contractor Byzak undertook the refurbishment contract that involved stripping the tunnel’s existing secondary lining back to the cast iron structure and replacing it with a new architectural fire-resistant version. To minimise traffic disruption, the maintenance work was carried out at night to a strict schedule, 7 days a week.

Leviat’s stainless steel support framework was fixed directly to the cast iron tunnel structure. The new lining was attached to the frame and joined with a stainless steel retaining strip. In the event of a fire the integrity of the structure must be protected, and as temperatures could reach over 1000°C in the case of a fuel tanker incident, the tunnel lining is designed to keep the temperature within the tunnel below 300°C.

A reputation for high quality stainless steel bespoke solutions, coupled with a proven track record in the tunnelling sector, made Leviat the obvious choice for this demanding contract.
Project Profile:
City West Cable Tunnel, Sydney, Australia
Transmission Cable Support System

The City West Cable Tunnel was constructed by Thiess as part of EnergyAustralia’s major upgrade of the electricity infrastructure of Sydney.

The new tunnel, measuring 1.7 kilometres long and 3.5 metres wide, carries transmission cabling across the city’s central business district. Stainless steel brackets support the heavy duty cables along the full length of the tunnel.

The maintenance-free life and proven integrity of stainless steel, combined with Leviat’s fabrication expertise, means no costly remedial measures will be required for the life of the structure.

Leviat was selected to manufacture this high specification support system due to its proven track record of supplying volume orders of standardised components.

<table>
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<th>Project:</th>
<th>City West Cable Tunnel</th>
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<tr>
<td>Client:</td>
<td>EnergyAustralia</td>
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<tr>
<td>Engineer:</td>
<td>Maunsell / AECOM</td>
</tr>
<tr>
<td>Stainless Steel:</td>
<td>Austenitic, grade 1.4401</td>
</tr>
</tbody>
</table>

**Key Features:**
- New 1.7km transmission cable tunnel
- Heavy duty, corrosion-resistant support brackets
Project Profile: East Tunnel Refurbishment, Dartford, UK

Road deck endplates

Spanning the river Thames, the Dartford River Crossing forms a vital part of Britain’s busiest orbital road, the M25. The Crossing comprises two dual-lane tunnels carrying traffic to the north and a four-lane cable-stayed bridge carrying traffic to the south. Essential remedial work on the East Tunnel required more than 1 kilometre of road deck to be replaced.

The new road deck was installed in 4.5 metre sections. To enable a fixing to be made with the adjacent section, each road slab was cast with a specially designed stainless steel plate at either end.

Leviat manufactured the 474 endplates required. Each measured over 7 metres in length and was fabricated from 25mm thick plate. Together, they totalled almost 400 tonnes of stainless steel.

Two road sections were replaced each night. Quick and accurate installation of the replacement deck was essential as the tunnel had to be available to the public from 5.30am.

For a perfect fit with the adjacent slab, the endplates were supplied as match-drilled pairs. This guaranteed the precise positioning of 34 bolts at each shear connection. Leviat’s dedicated production team ensured all units were delivered to site over a 10 month period to suit the casting yard schedule.

| Project: | Dartford East Tunnel |
| Client: | Dartford River Crossing |
| Contractor: | Kvaerner / Skanska |
| Stainless Steel: | Austenitic, grade 1.4401 |

Key Features:
- Road deck replaced in 4.5 metre sections
- Bespoke endplates supplied as match-drilled pairs
Engineered Fixing Solutions, Fabricated in Stainless Steels

Project References:
- Brisbane North-South Bypass, Australia
- City West Cable Tunnel, Australia
- Kogarah Cable Tunnel, Australia
- Perth City Metro Rail Tunnel, Australia
- Blackwall Tunnel, UK
- Clyde Tunnel, UK
- Dartford River Crossing, UK
- Heathrow Express, UK
- Waterloo International Terminal, UK
- Thessaloniki Metro, Greece
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