

Mezzanines — Crane rail beams
Perfect integration and optimised building solutions



Mezzanines

Mezzanines are an important feature of many industrial and commercial/retail buildings, both to suit requirements of modern stocking and storage techniques and to maximise the efficiency of machinery layouts and production flows.

Hollow-core concrete solutions:

INODEK SYSTEM:

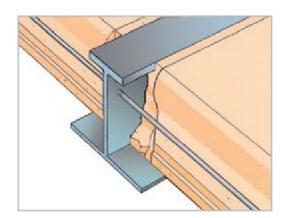
A floor beam system based on a steel frame which provides the full advantage of slim floor construction, yet avoids the disadvantages of downstanding beams:

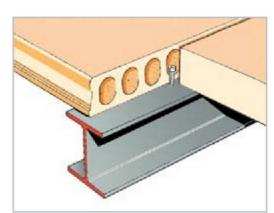
- · Pre-engineered and prefabricated elements
- Faster construction
- Spans up to 7.5m
- Anti-fire protection easy to achieve, only the lower flange has to be protected
- · No downstand beams/no service obstruction



Beams are designed to accept precast concrete slabs (hollow-core concrete elements).

- · Spans between 5 and 9m
- · Fast and easy erection
- · Economical construction





In-situ concrete solution:

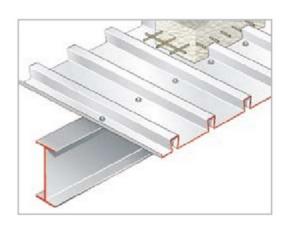
MULTIDEK SYSTEM:

Generally the concrete is cast on metal decking, which can be laid continuously, allowing design optimisation of sections to reduce weight and cost.

- Maximum flexibility for positioning and size of openings, even after completion of the mezzanine design and construction
- · Multidek beam spans up to 9m
- · Floor beam spacing are usually 3m

ADVANTAGES:

- · Single source supply for mezzanine and building
- · Integrated design of the mezzanine in the building
- · Maximized use of building space
- Reduced construction time: simultaneous erection of mezzanine and the building
- Guaranteed quality by use of precast elements, in steel or in concrete





Crane rail beams

Perfectly adapted crane rail beams can be integrated in the Astron structure.

STANDARD SUPPLY:

- · Beams with rails 50 x 30mm fixed by intermittent welding
- · All fixing components, cleats and fasteners
- Standard finish: shot blast SA 2.5 and shop primer 80 microns
- · Static calculations and erection drawings

Options:

- · Heavy-duty rails
- · Laminated rails for easy replacement of the crane rail
- · Continuous welding of crane rail to crane beam
- · End stop, excluding rubber buffers
- · Final paint

CRANE RAIL BEAMS DESIGNED FOR:

- · Standard crane capacity: < 15 tons
- · Standard crane span: < 25m
- · Classification:
 - H2, B3 (according to DIN)
 - French group II (following CTICM)
- Span of beam: from 6 to 9m bay spacing, with a limit of 8m for crane capacity above 12.5 tons
- One crane per crane beam, or in case of several cranes, by adding spacers to preserve the design integrity of the beam.
- Crane types: I (single girder) and II (double girder)
- Hoisting tool: hook







NB: Higher classifications or loads on special request.

ADVANTAGES:

- Perfect integration in Astron buildings
- Optimisation between bay spacing and crane beams span
- · Single source supply for crane beams and building
- · Integrated design of the crane rail beams in the building



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Lindab-Astron produce up to 1,000 buildings a year, distributed either through a network of 400 certified independent Builders, spanning nearly 40 countries or through our Key Accounts Unit. Our headquarters is located in Diekirch (Luxembourg). Lindab's concept is clear and simple:

We simplify construction

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