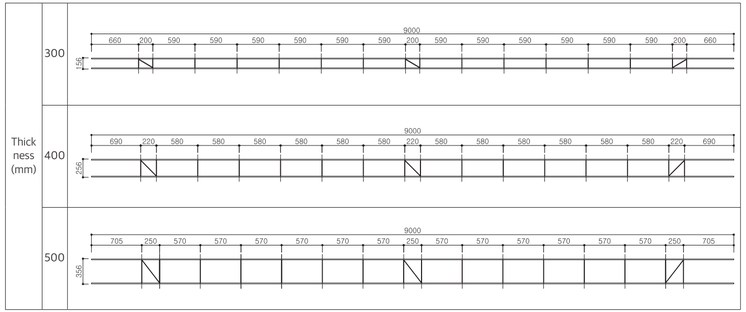
Bar-chair Types

The product is manufactured by calculating the stress induced by loads according to the thickness and applying an appropriate safety factor.If the reinforcement for the water-pressure-resistant slab and the reinforcement for the continuous safety bar-chair differ in specification, the spacing of the slab reinforcement is adjusted accordingly.

• When the continuous safety bar-chair's rebar is D13 (fy = 500 MPa)



On-site Application

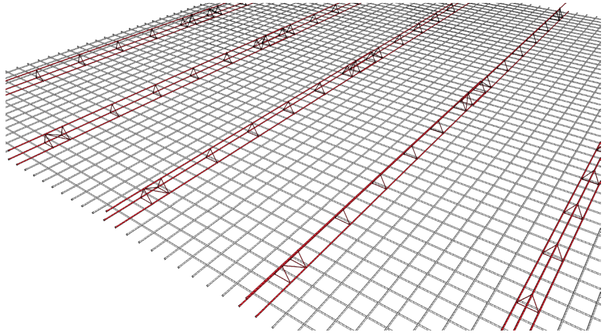
"We independently develop technologies that can innovate construction sites."

Barona

Safer and Faster than Rebar bar-chair!

Continuous Safety Bar-chair

Baro ConKey Co.,Ltd.
Office of Constructional Key Technology/Structural Engineers



Schedule-reducing method achieved by removing the installation process of rebar bar-chairs.

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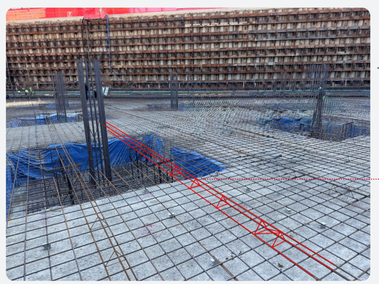
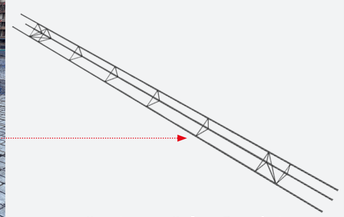
Baro ConKey Co.,Ltd.
Office of Constructional Key Technology/Structural Engineers

What's Barona Continuous Safety Bar-Chair?

It is a reinforcement support structure used for slabs or water-pressure-resistant slabs with thickness ranging from 250 mm to 500 mm. The main rebar, welded into a triangular steel bar, are simply placed in the position of the bottom reinforcement.





Continuous Safety Bar-chair

Cost Effective!

There's no need for installing individual rebar bar-chairs one by one, Reduction of Material cost, labor cost, and construction period (Compared to conventional rebar bar-chair type, cost is at 82-95%)

SAFE!

The continuous triangular truss form provides structural stability and allows for wider spacing, ensuring worker access and improving safety.

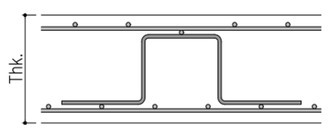
Easy Installation!

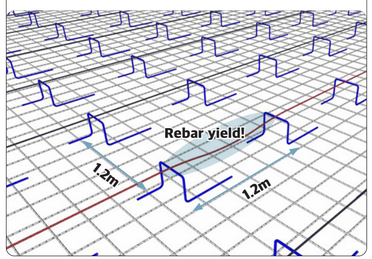
Pre-fabricated in the factory, it can be installed in long lengths at once — just place and go!
Installation speed is three times faster than with rebar bar-chairs.

Features

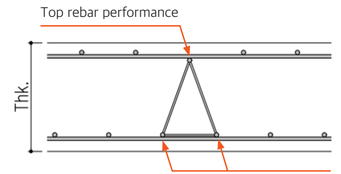
- **Rebar bar-chairs** are typically installed at 1.2m x 1.2m intervals, but when using a yoke (dori) rebar of Ø13, **calculated results show that permanent deflection may occur due to yielding** at that 1.2m spacing.
- **Continuous safety bar**-chair ensures stability by structurally calculating the support spacing.
- Thanks to this structural stability, **it can be spaced wider (up to 2m)** compared to conventional bar-chair types
- The main body of the continuous safety bar-chair itself functions as both bottom & top rebar.

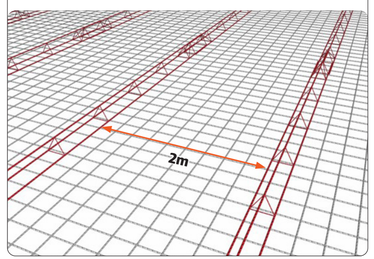
Rebar Bar-chair

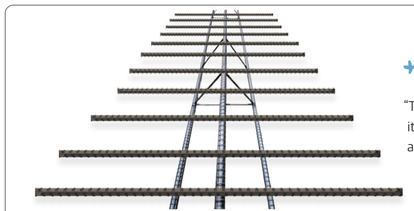




Continuous Bar-chair







+More details!

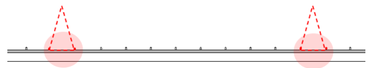
"To prevent slip at the ribbed joint of the top rebar, it is pre-fabricated with lateral adjustments aligned to the rib direction."

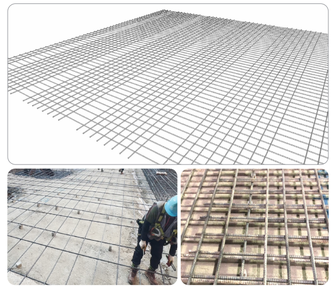
Construction sequence

01

Bottom reinforcement placement

The main bottom reinforcement is used as the bottom reinforcement for the continuous safety bar-chair.

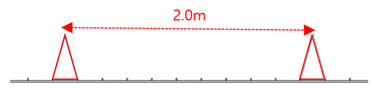


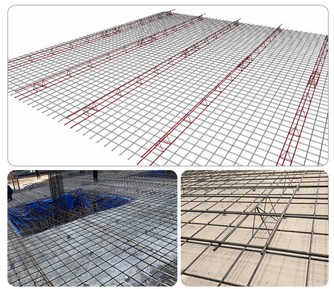


02

Manual installation of continuous safety bar-chair

Installed manually at wider intervals, with spacing not exceeding 2.0 m.





03

Placement of top rebar in foundation

The main top reinforcement is used as the top reinforcement for the continuous safety bar-chair.