

INDIAN CONCRETE INSTITUTE BENGALURU CENTRE

ONE DAY NATIONAL SEMINAR ON SCAFFOLDING & FORMWORK

On Wednesday, 19th October 2022 at 9.00 AM

Er.N. Srinivasan, Senior General Manager –Southern Region PERI INDIA PVT LTD

Venue: Glitter Hall, The Rialto Hotel, No.20-21 | Seshadri Road | Bangalore 560009 Karnataka | INDIA

PERI HANDSET ALPHA – Simple Panel System for Walls & Columns



Handset Alpha | Product features



Modular robust steel panels ~ 34.5 kg/Sq.m

100% Multi-panels

Panel height 120/150/300 | Width 90/60/30

Column size 15x15 till 90x90

Concrete pressure 60kN/sqm (Column 75kN/sqm)

Sloping profiles ~ easy cleaning



Easy wedge clip | In-built brace connector | Handle

☑ 12mm PERI Plywood

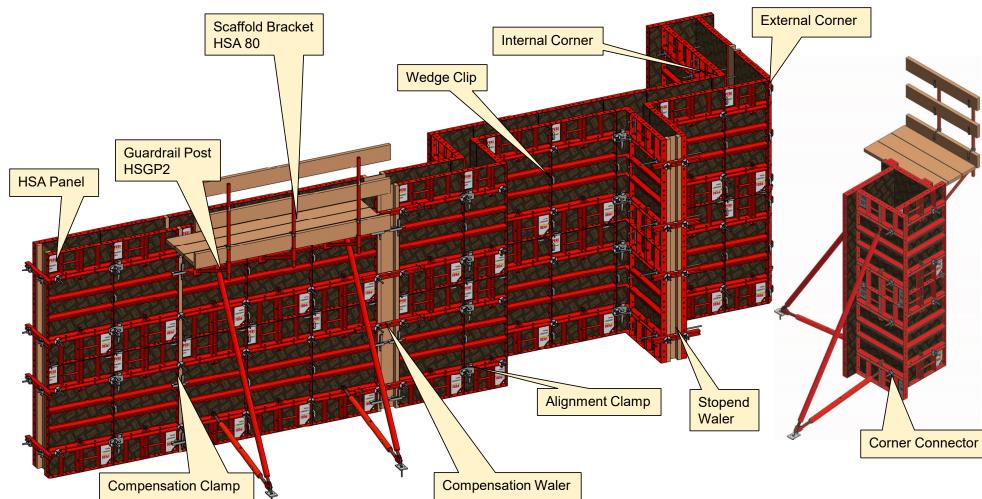
☑ No waler required for horizontal alignment





Handset Alpha | Overview



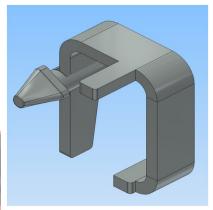




Handset Alpha | Panel Connection | Wedge Clip



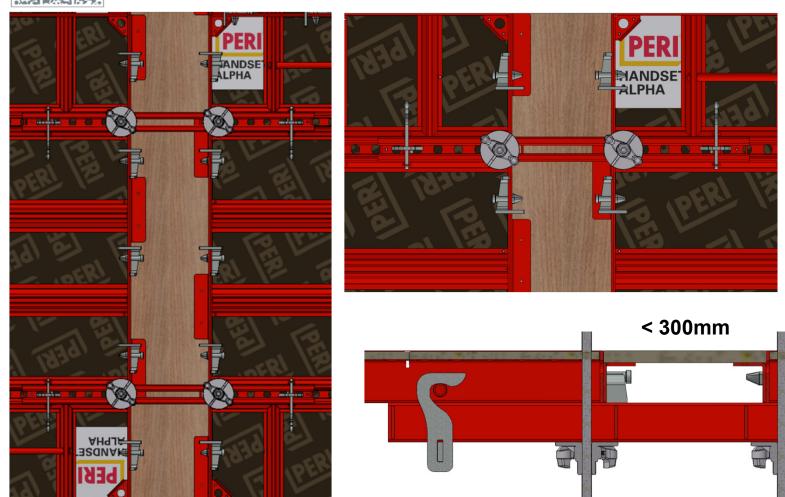




- Simple wedge clip
- Wedge is captive
- Shape of wedge avoids rotation of wedge during hammering



Handset Alpha | Compensation Waler & HFS





- To compensate gaps between 100mm to 300mm
- Aligns panels for horizontal as well as vertical
- Length is 950mm. Only the waler is the Stopend waler.

P



Handset Alpha |Liftwall Formwork







Handset Alpha |Column Formwork







Handset Alpha | Circular Tank Formwork





PERI ALPHADECK – Large Area Panel System for Flat Slabs



Alphadeck | Product features



3 basic parts | Panel, Prop & Drophead

Only 2 Std panels – 240x120 & 180x120

17 Kg/m² (2.4m/49kg, 1.8m/38kg)

9mm PERI ply

Powder-coated Aluminium frames

Can be used upto 550 thk slab



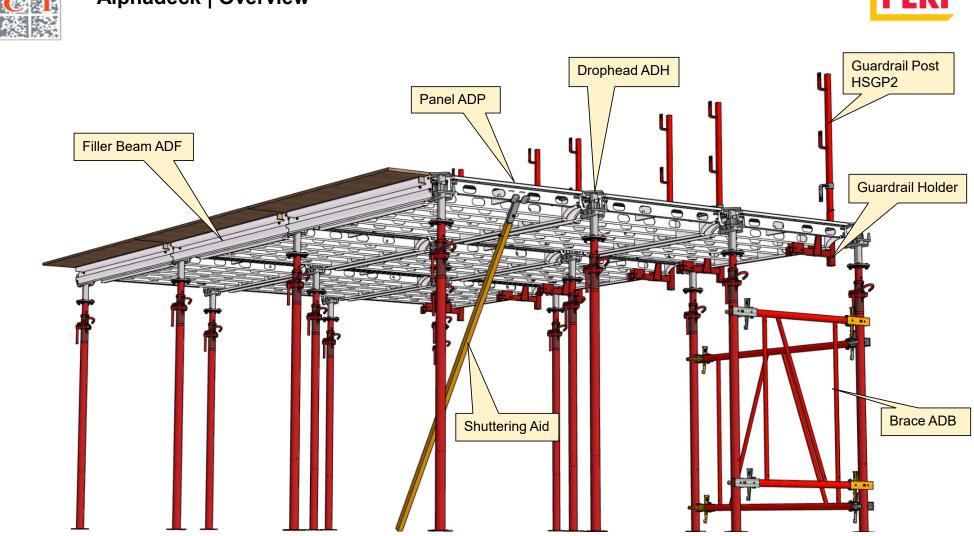
kg

Compatible with PERI Props, PU MI, (even Cuplock)

- ☑ Minimum panel contact ~ less cleaning
- ☑ 2 way erection & striking
- ☑ For rentable panels composite ply is possible







Alphadeck | Overview



Alphadeck | Video



Alphadeck | Site Photos





69 Sqm erected by 5 workers in 2.5 hours ~ 0.18 manhrs/sqm



COMMERCIAL TECH PARK-BANGALORE

Formwork Area :6000 Sq.m Floor to floor Height : 4.05m Cycle Time Achieved : 7 days



Alphadeck | Compatibility with PU MI / Cuplock





PERI SHORE – Heavy Duty Shoring Tower



Our present Infrastructure Construction World.....







Our solution to tackle the present World





Light Duty

Medium Duty

Heavy Duty



Application Field







PERI UP MI | Ledger





Ledger Gravity lock → Wedge drops by gravity and secures automatically Rectangular shape → Easy handling at jobsite Safe & secure → One man handling Robust → Forged ledger heads



PERI Shore (IN) | Ahmedabad Metro Project







PERI Shore (IN) | Ahmedabad Metro Project







Max leg load = 6.4 MT



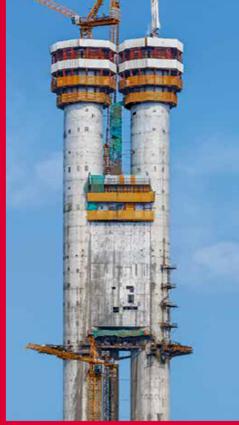
PERI Shore (IN) | Successful Project!





PERI Rail Climbing System-RCS – Most efficient self climbing system







Storage area

Wind load

Capacity

Type

Availability

Boom Reach

Assembly area

Space

Wind

Crane

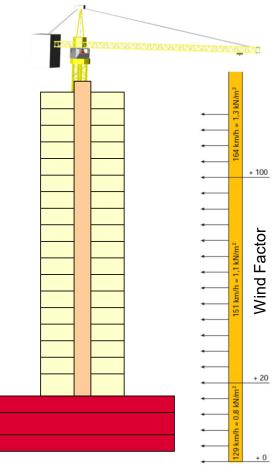
High-rise Projects – External Parameters

Constraint of existing road or building

- Safety
 - Special requirement at high-rise building
- Construction planning
 - Milestones
 - Working schedules / Shifts
 - Project duration
 - Religious holidays
 - Weather conditions
- Local rules & regulations
 - Permits
 - Restricted noise at night
 - Safety requirement







Active Road



Need for Self Climbing in High Rise Buildings?

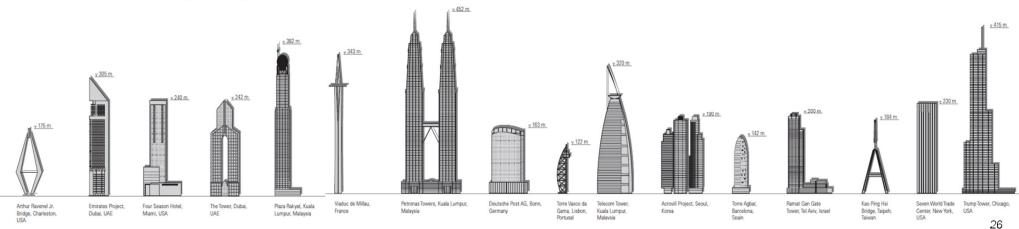


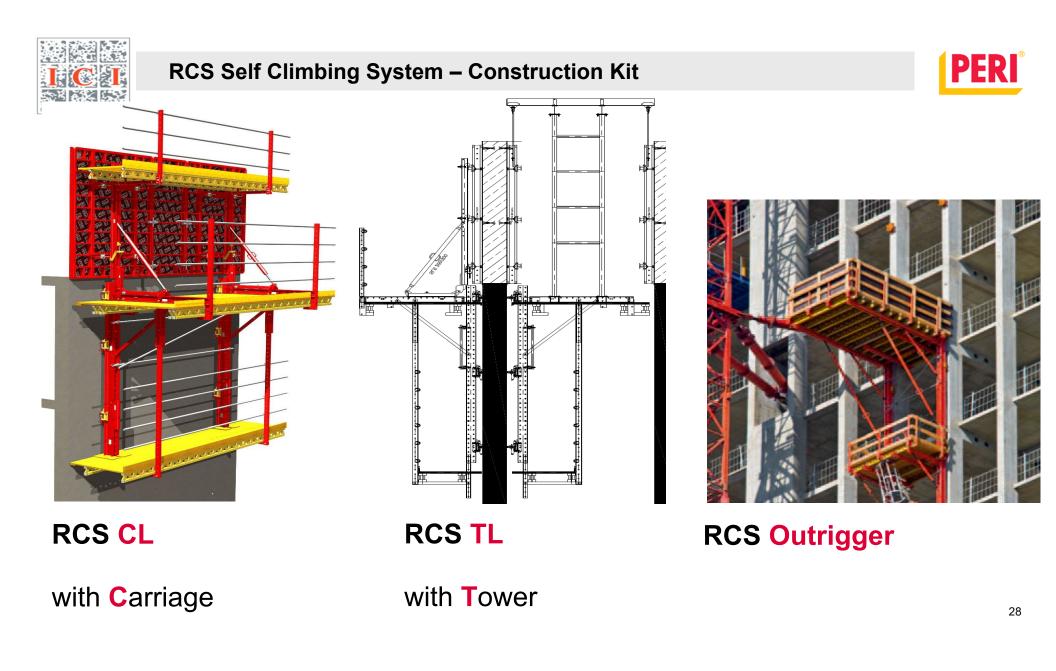
The Core when self climbed is out of the critical path of construction. A Self Climbing system for the Core & a good slab formwork system can reduce the overall construction period.

Ensures high safety as using conventional or crane handled system is very risky as high wind loads can disturb formwork operation.

The system drastically reduces Tower Crane time which is very crucial for a High-Rise Building.

The self–climbing system for the Core acts as a guide to the whole structure. A faster cycle time of the core creates a psychological effect on the slab team to speed up.









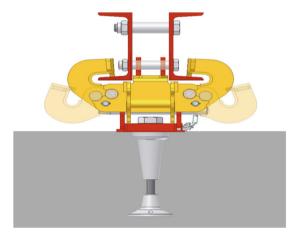
- The versatile girder wall formwork system, customized and assembled specially for the project:
- Form-lining shall be 18mm PERI Plywood (no plywood replacement till last pour)
- Specially designed large elements, makes shutter handling efficient in the Climbing System. Reduces element connections.
- Multiple Levels of Steel Walers to create robust panels.
- Permissible fresh concrete pressure of 50 kN/sqm

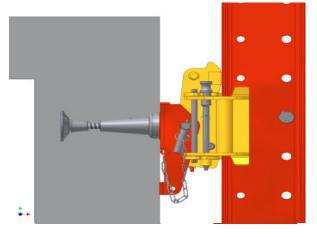




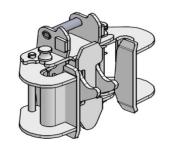
RCS Climbing Shoe







- RCS Climbing Shoe
- Guides the climbing rail during crane-climbing
- Pawl secures system every 50 cm automatically
- Anchoring on the slab with slab shoe
- Anchoring on the wall with wall shoe
- Inclinations up to 4° adjustable









PERI RCS – Climbing sequence



Light weight mobile Hydraulic Unit.

Climbing Device of 5MT capacity with 50cm stroke length

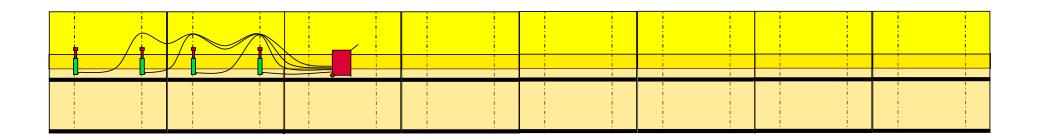
Integrated hydraulic flow divider for synchronous climbing.















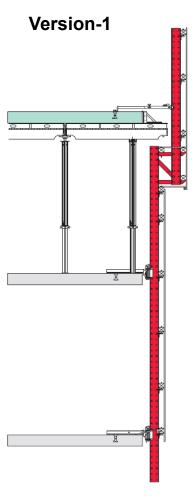


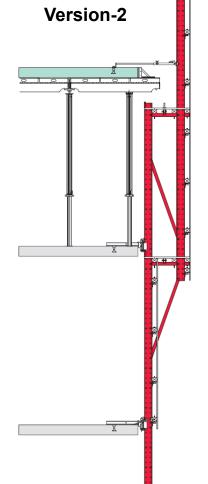


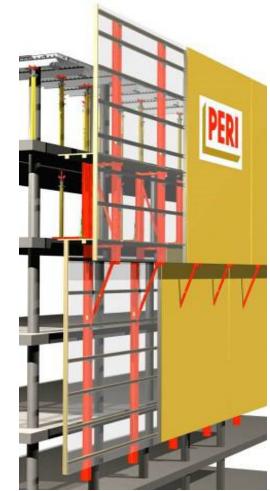
Edge Protection System















The Enclosure enhances the feeling of Safety of site personnel and increases the work productivity at great heights.

Site personnel and material is secured against falling at all times and protected against strong winds when working at great heights.

The Rail guidance ensures a fast and safe climbing procedure in all weather conditions.

Eliminate installation of guardrails for 3 floors.

Crane independent climbing is possible thereby not affecting Tower Crane time.

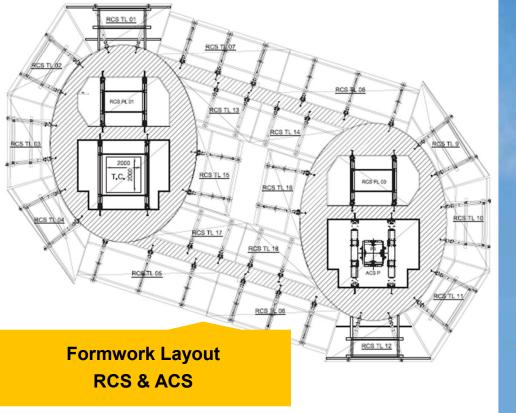
Advertising opportunities (large exposure)







PROJECT: STATUE OF UNITY





PERI®

STATUE OF UNITY PROJECT

Structure Height:240m Formwork Area : 792 Sq.m Total RCS Units :22 Cycle Time Achieved: 5 Days





Wish you a flexible – safe – fast forming & scaffolding experience

Thank You

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