The Formwork Experts.

Safety with Formwork

Doka Formwork Pte. Ltd.

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Safety with Formwork

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Safety with Formwork

What are responsibilities of the formwork supplier:
Safety with Formwork

Responsibility of supplier: Provide safe product & minimize risks in all areas

Products:
- Safe formwork system
- Tested and certified product
- Integrated safety features & accessories

Documentation:
- User Information
- Method statements
- Product Quality criteria
- Static calculations

Trainings:
- Safety trainings on site
- Customer training
- Workshops

Project- and customer oriented formwork solution

What are responsibilities of the User?
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Formwork systems

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Slab formwork

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Formwork systems

Slab formwork: Conventional...
Formwork systems

Slab formwork: Dokamatic Tables

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Formwork systems

Slab formwork: Table Lifting system (TLS)

The Table Lifting System TLS is used for safe, craneless vertical repositioning of Doka tableforms.
Formwork systems

Slab formwork: Good practice example

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Slab formwork: Good practice example
Formwork systems

Slab formwork: Incident with the tower crane...
Formwork systems

Shoring: Conventional...
Formwork systems
Shoring: Staxo100 towers

1. assembly battens
2. Integrated ladders
3. non-skid rungs
4. unmistakable "top and bottom", hitching point for safety harness, stamped type designation
5. Captive connection sleeve with Quick-acting frame connector
6. Assembly railings
Formwork systems
Shoring: Good practice example - erecting the towers in horizontal position
Formwork systems

Shoring: Good practice example
Formwork systems

Shoring: Good practice example
Formwork systems

Shoring: Site accident...
Formwork systems

Wall formwork: Crane lifting platforms (MF240)

1st casting

2nd casting

Fixing rebar

3rd & typical casting
Formwork systems

Wall formwork: Good practice example
Formwork systems

Wall formwork: Autoclimbing platforms (SCP)

Full closure

Equipment storage

sealed gap

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Wall formwork: Autoclimbing platforms (SCP) – Integrated safety features

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Wall formwork: Autoclimbing platforms (SCP) – Rebar installation
Formwork systems

Wall formwork: Autoclimbing platforms (SCP) – Prevent of falling objects

A … Decking  
B … Rubber sheet  
C … lining disc  
D … screw all 20cm  

... prevent the falling of small parts.
Formwork systems
Wall formwork: Autoclimbing platforms (SCP) - Reference projects
Formwork systems
Protection screen

Before

Now
Formwork systems

Protection screen

Mount the portable hydraulic unit

Hydraulic climbing operation

Dismount the portable hydraulic unit
Formwork systems

Protection screen: Reference projects
Conclusion

Safety features are not always appreciated…
Conclusion

Is it worth to compromise on safety?

- System formwork reduces risk of accidents
- Safety cost money
- No safety cost MORE MONEY!
Doka Safety Systems

GUARDRAIL SYSTEMS
Edge protection system XP, Guardrails

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