Zero Damage

Correctly using PERI formwork and scaffolding materials

Zero Damage Campaign – Issue 09/2017

Zero Damage
Correct use of PERI materials

PERI formwork and scaffolding stand for outstanding performance and highest safety standards and only proper material handling can guarantee best and safest results.

If you use PERI material at your jobsite, please make sure that your staff handles it properly and according to its intended use. If we receive returned rental material that has to be cleaned, refurbished or scrapped, additional costs have to be covered by you depending on the damage and contamination.

In this brochure you will find practical and helpful hints on how to use PERI material correctly.
The shown cases are examples to call on the awareness of site staff and to avoid mistakes as well as incorrect handling, regardless of specific systems or applications.

PERI technical supervision staff will be always ready at your call in order to assist you and to help reducing material damage and costs.

On the following pages, important topics will be displayed using the below mentioned symbols:

	Correct handling of PERI material
	Incorrect handling of PERI material
	Result of incorrect handling

Zero Damage
Quality Maintenance

Important information

All current safety regulations and guidelines must be observed in those countries where our products are used.

The photos shown in this brochure feature construction sites in progress. For this reason, safety and anchor details in particular cannot always be considered as conclusive or final. These are subject to the risk assessment carried out by the contractor.

The safety installations which have possibly not been shown in these detailed descriptions must nevertheless be available.

Safety instructions and load specifications are to be strictly observed at all times. Separate structural calculations are required for any deviations from the standard design data.

The information contained herein is subject to technical changes in the interests of progress. Errors and typographical mistakes reserved.

General on the jobsite

Use the right material

Always use the right material according to its designed purpose

Do not use panels as ramps or platforms

Result: Damaged of frames and plywood
= High cost incurred for replacement

Use of crate pallets and pallets

Only store small components in the crate pallets

Do not use crate pallets as a work surface or for storing of wastage

Result: Damaged of crate pallets
= High cost incurred for replacement

Mounting the formlining

Always use an appropriate size nails and hammer it in straightly

Do not use nails that are too long and do not hammer in at an angle

Result: Large spalling of the girder
= High cost incurred for repair / replacement

Standard use of girder according to their standard length

Only use standard length of girders for formwork according to the technical drawings

Do not shorten your girders for other purposes

Result: Damaged of girders
= High cost incurred for replacement

Zero Damage
Correct use of PERI materials

General **prior to return delivery**

Loading of materials

Proper grouping and securing of material load for transport

Do not load material loosely

Result: Damaged materials
= High cost incurred for repair / replacement

Cleaning the girder before return delivery

Clean the girders with a scraper before re-turning them

Do not return girders that have not been cleaned beforehand

Result: Dirty girders
= High cleaning costs

Wall Formwork on the jobsite

Seal anchor holes

Always seal unused anchor holes with plastic caps

Do not leave unused achor holes open

Result: Concrete spillage

Use of set anchor holes

Only use set anchor holes provided

Do not drill holes into the plywood or frames

Result: Damaged plywood or frames
= High cost incurred for repair / replacement

Protecting the formlining

Before shuttering, always apply PERI Clean to the formlining before each use

Never work without PERI Clean

Result: Heavily soiled formlining
= High cost incurred for replacement

Lifting

Always use defined lifting devices and hooks to lift panel formwork

Do not lift the panel formwork unevenly or without hooks

Result: Damaged corners and frames caused by dropping = High cost incurred for replacement

Zero Damage Campaign
Avoiding Damage Charges

Wall Formwork **on the jobsite**

Striking of wall formwork

Use suitable equipment to carefully remove the panel formwork after the concrete has hardened

Do not strike panel formwork by means of a tie rod or other objects

Result: Damaged frames
= High cost incurred for replacement

Use of proper base plates

Secure push-pull poprs with proper base plates

Never use push-pull props without base plates

Result: Bent spindle of push-pull prop
= High cost incurred for repair / replacement

Proper use of concrete vibrator

Use the concrete vibrator in safe distance to formwork

Do not touch the plywood with the concrete vibrator

Result: Damaged plywood
= High cost incurred for replacement

Wall Formwork

prior to return delivery

Storage of panel formwork

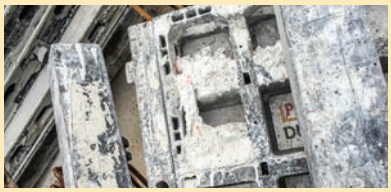
Always store the panel formwork with the formlining facing upwards and use timber supports

Do not lay the formlining directly on the ground

Result: Damaged material
= High cost incurred for repair / replacement

Cleaning the panel formwork after concreting

Remove excess concrete immediately after concreting by high-pressure cleaner



Never let excess concrete to harden on the formwork

Result: Dirty materials
= High cleaning costs

Cleaning the frame before return delivery

Clean both inside and outside of the frames carefully before return delivery

Do not return frames that have not been cleaned beforehand

Result: Dirty frames
= High cleaning costs

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Avoiding Damage Charges

Slab Formwork **on the jobsite**

Striking of props

Always lower the prop before striking and remove only after releasing the nut

Do not hit the prop with the hammer or let it fall to the ground

Result: Props are dent and kink
= High cost incurred for repair / replacement

Striking of main beam

Lower the main beam halfway before removing it from the supporting prop

Do no let the main beam drop freely

Result: Cracked and deformed profiles

Striking of panels

Carefully remove panels from elevated position

Do not penetrate panels with tie rods and do not drop panels from heights

Result: Damaged frames / plywood
= High cost incurred for repair / replacement

Storage of components

Always carefully handle all accessories, and store and transport in crate pallets

Do not throw materials or allow them to fall from heights

Result: Damaged materials
= High cost incurred for repair / replacement

Scaffolding on the jobsite

Assembly of stacking towers

Always insert frames on top of each other by hand

Do not use a hammer to carry out assembly

Result: Damaged material
= High cost incurred for repair / replacement

Scaffolding prior to return delivery

Cleaning the scaffold material before return delivery

Clean the scaffold materials with a scraper before returning them

Do not return scaffold materials that have not been cleaned beforehand

Result: Dirty materials
= High cleaning costs

The optimal System for every Project and every Requirement

Wall Formwork

Column Formwork

Slab Formwork

Climbing Systems

Bridge Formwork

Tunnel Formwork

Shoring Systems

Construction Scaffold

Facade Scaffold

Industrial Scaffold

Access

Protection Scaffold

Safety Systems

System-Independent Accessories

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