DOMINO
The lightweight panel formwork for building construction and civil engineering

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Important notes

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

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

In addition, the computer graphics used are to be regarded as system representations. To facilitate understanding, these and the detailed illustrations shown have been partially reduced to certain aspects. The safety installations that are not shown in these detailed descriptions must nevertheless be available. The systems or items shown might not be available in every country.

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.
DOMINO
The lightweight panel formwork for building construction and civil engineering

With the DOMINO panel formwork, PERI has a robust and lightweight wall formwork in its programme which is ideal for building construction and civil engineering projects.

With the appropriate frame, corner and stopend panels as well as compensations, a wide range of applications can be realised in the system.

The supplementary scaffold bracket is used to create safe working platforms. DOMINO frames are made of steel or aluminium.

All DOMINO system components can easily be moved into position without the use of a crane. The lightweight formwork is ideally suited for forming:

- foundations
- basement and storey-level walls
- beams
- swimming and adventure pools
- rectangular piers and columns
- parapets and retaining walls
- supply shafts and small traffic tunnels
- refurbishment projects
System Advantages

Proven high quality
For the production of the panel formwork, PERI places great importance on the highest possible resistance to mechanical stress and long service life of the components.

In the company’s state-of-the-art powder coating plant, PERI achieves highly scratch-resistant, durable painted surfaces of the formwork frames. All elements are galvanized on the inside and have a closed frame profile. The integrated corner castings provide a high degree of rigidity of the formwork elements.

Easy cleaning
The smooth surfaces and the closed frame profile avoid concrete adhesion to the greatest possible extent, and also make it easier to clean the elements.

- Lightweight
  Low dead weight, only 5 panel widths, also available with aluminum frames

- Simple
  One component for virtually all connections – the Alignment Coupler DRS

- Practical
  Inset tie points and a comprehensive range of accessories for fast working operations in all situations
DOMINO is the lightweight panelized formwork system with elements made of steel or aluminium for building construction and civil engineering projects. For easy distinction, the steel and aluminium elements are powder coated red and yellow respectively.

The weight of the largest aluminium panel (250 cm x 100 cm) is less than 60 kg, and it can also be carried by two workers without the use of a crane.

The selected DOMINO panel sizes are best suited to the frequently used small-scale applications.

However, the lightweight DOMINO formwork elements also allow much larger dimensions. For concreting heights to 2.50, only two anchors are required – that means 1.25 m² wall surface per tie.

Aluminium elements are yellow powder-coated. As a result, they are easy to distinguish from the steel elements.
With 5 perfectly matched widths (25 cm, 35 cm, 50 cm, 75 cm and 100 cm) and 4 different standard element heights (75 cm, 125 cm, 150 cm and 250 cm), a wide range of formworking tasks can be accomplished.

<table>
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<th>Articulated Corner</th>
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Key

A | Aluminium Panels with aluminium frames (yellow powder-coated)
S | Steel Panels with steel frames (red powder-coated)
**Simple**

One component for virtually all connections – the Alignment Coupler DRS

The Alignment Coupler DRS was designed specifically for the DOMINO system and has three advantages: the formwork elements are flush, aligned and tight in a single operation. The extremely accurate alignment thus provides the very best formwork results day after day.

The Alignment Coupler DRS is used for standard panel joints, external and internal angles, acute and oblique angles, stopend formwork, timber compensations and extensions.

Compensations with filler timber up to 10 cm are carried out with the Alignment Coupler only.

For compensations up to 12 cm, the supplementary Compensation Waler DAR takes over the bracing, aligning and force-transferring function.

Compensations up to 30 cm can be realised using the Filler Support DPA. The Compensation Waler DAR 80 transfers the anchor forces to the adjacent panels.

DOMINO DKS Wedge Coupler

As an alternative, the Wedge Coupler can be used for panel connections without high loads in the foundations area.
Practical
Inset tie points and a comprehensive range of accessories for fast working operations in all situations

The tie points are inset so that the ties do not collide with water bars or dense reinforcement. All cross struts on the DOMINO panels have connecting holes for the wide range of available accessories.

DOMINO Lifting Hook
The Lifting Hook can carry up to 500 kg. This allows the moving of large-sized vertically positioned panels or panel units. Always use 2 Lifting Hooks for each unit being moved.

Inset tie points
Thanks to the inset tie points, obstructions can be avoided without any problems. Thus, anchors positioned close to the ground are easy to install. As a result, DOMINO is extremely suitable for forming foundations. Due to the inset tie points, the panels (125 cm, 150 cm) can be used in both a vertical and horizontal position.

DOMINO Scaffold Bracket
The Scaffold Bracket DG 85 for assembling an 85 cm wide concreting scaffold. The maximum bracket spacing is a cost-effective 2.00 m with an imposed load of 150 kg/m². Planking and guardrails are installed in accordance with DIN 4420. The handrails are erected using handrail posts HSGP.

DOMINO Brace Connector
The Brace Connector DRA is used for connecting push-pull props and kickers to horizontal and vertical struts.

DOMINO Stacking Device
For crane and forklift transport operations, a min. 2 and max. 8 panels are stacked using 4 stacking devices.
**Foundation Tie Clamp and Top Tie Bracket for strip foundations and single footings**

The DOMINO Foundation Tie Clamp for easy shuttering of foundations, replacing the bottom tie position as well as saving work space and consequently earthmoving operations. Ties are tensioned accurately with a self-cleaning hexagonal spindle.

Using the top tie bracket for the top tie point avoids having to exactly position the DOMINO panels opposite each other. It is possible to tie at any position of the panel.

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**High permissible concrete pressure**

For concreting heights up to 2.50 m, DOMINO withstands the full hydrostatic pressure and conforms to DIN 18202, Table 3 line 7 (steel panels) and line 6 (aluminium panels). For greater heights, a fresh concrete pressure of 60 kN/m² for steel panels is permissible in compliance with DIN 18202, Table 3 Line 6. This allows fast concreting and ensures extremely flat concrete surfaces.
**DOMINO standard applications**

Corners, T-junctions and fillers can easily be realised within the system.

Corners and T-junctions can be realised with DOMINO system components. Here, too, the principle applies that all site-relevant situations can be accomplished using as few additional components as possible.

Two 50-sized panels, an Outside Corner Angle and a 90° Inside Steel Corner are all the elements that are required for forming a right-angled corner. Angles from 75° to 165° can be realised using the articulated corner.

T-junctions can usually be formed with one 75-sized panel and two Inside Steel Corners or alternatively by means of two Articulated Corners. Together with the Wall Thickness Compensator, wall thicknesses of 15 cm to 35 cm are possible in 5 cm increments. Other intermediate dimensions that are not covered by the DOMINO system can be accurately shuttered with longitudinal compensations.

Tight, aligned and flush connections are guaranteed using the Alignment Coupler DRS for longer longitudinal compensations in connection with Compensation Walers.

### Basic rules for right-angled corners

**External formwork**
Panel D 50, Corner Angle DAW.

**Internal formwork**
Inside Steel Corner DISE, adjusted to suit the wall thickness with Compensator DWD or timber.

### Basic rules for T-Junctions

**External formwork**
Panel D 75.

**Internal formwork**
Inside Steel Corner DISE, adjusted to suit the wall thickness with Compensator DWD or timber.
DOMINO Stoped Panel

AT/MTF with continuous reinforcement, with or without water stops:
■ Time savings min. 40%
■ No damage to the formlining

The rubber lip allows a continuous reinforcement thickness of max. 16 mm.
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  Services

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