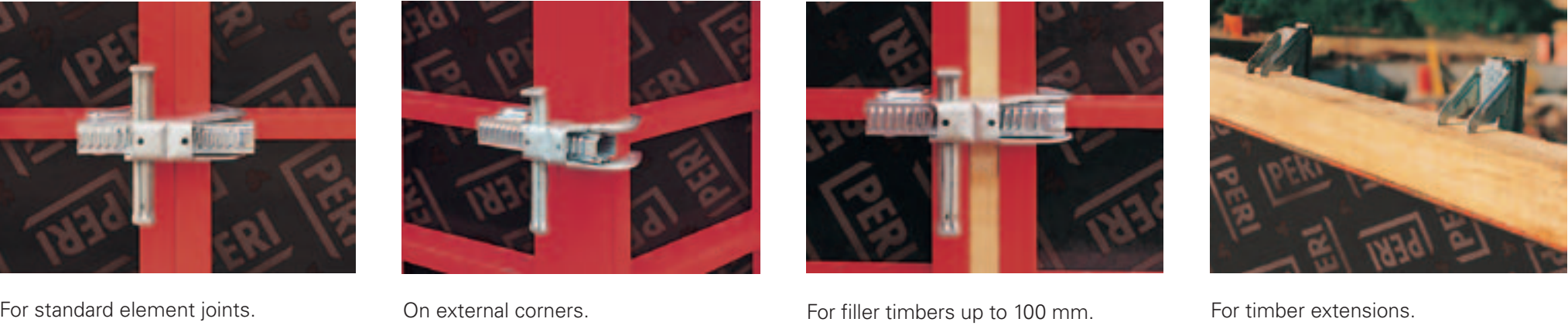




# TRIO 330

Extremely cost-effective 3.30 m high panel formwork

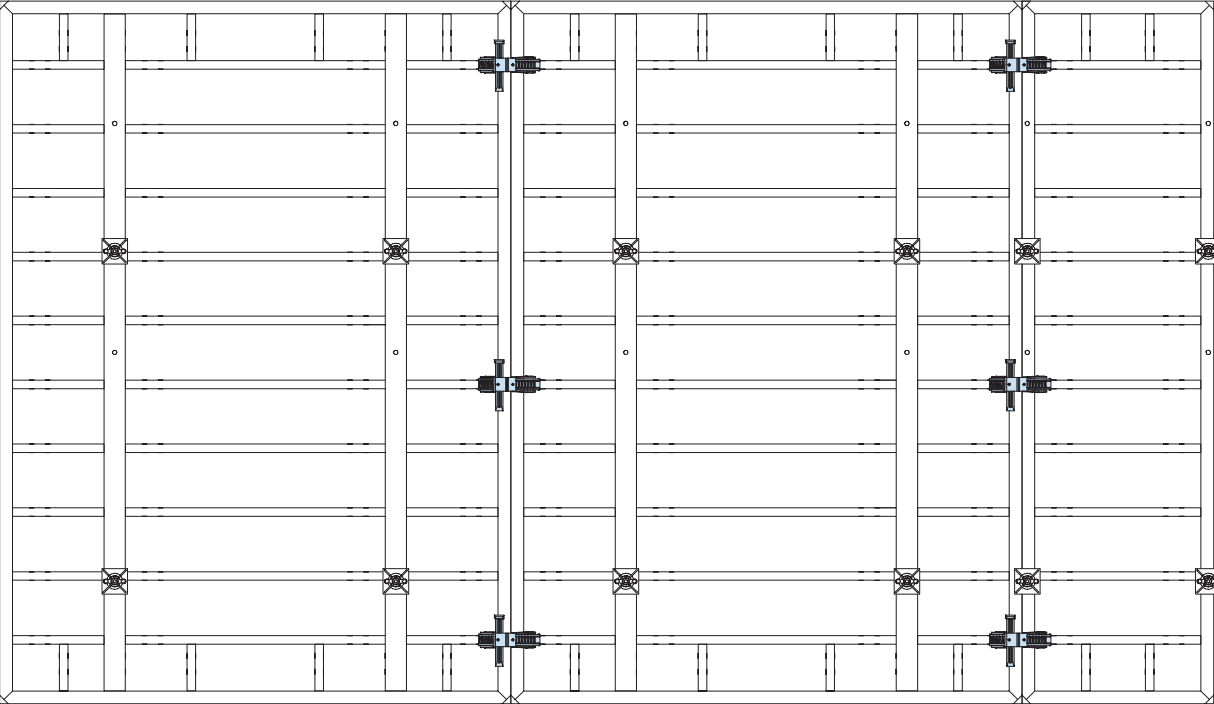


Only one component is required for all connections. The TRIO BFD alignment coupler ensures that all panel joints are:

- flush
- aligned
- tight
- in only one step!

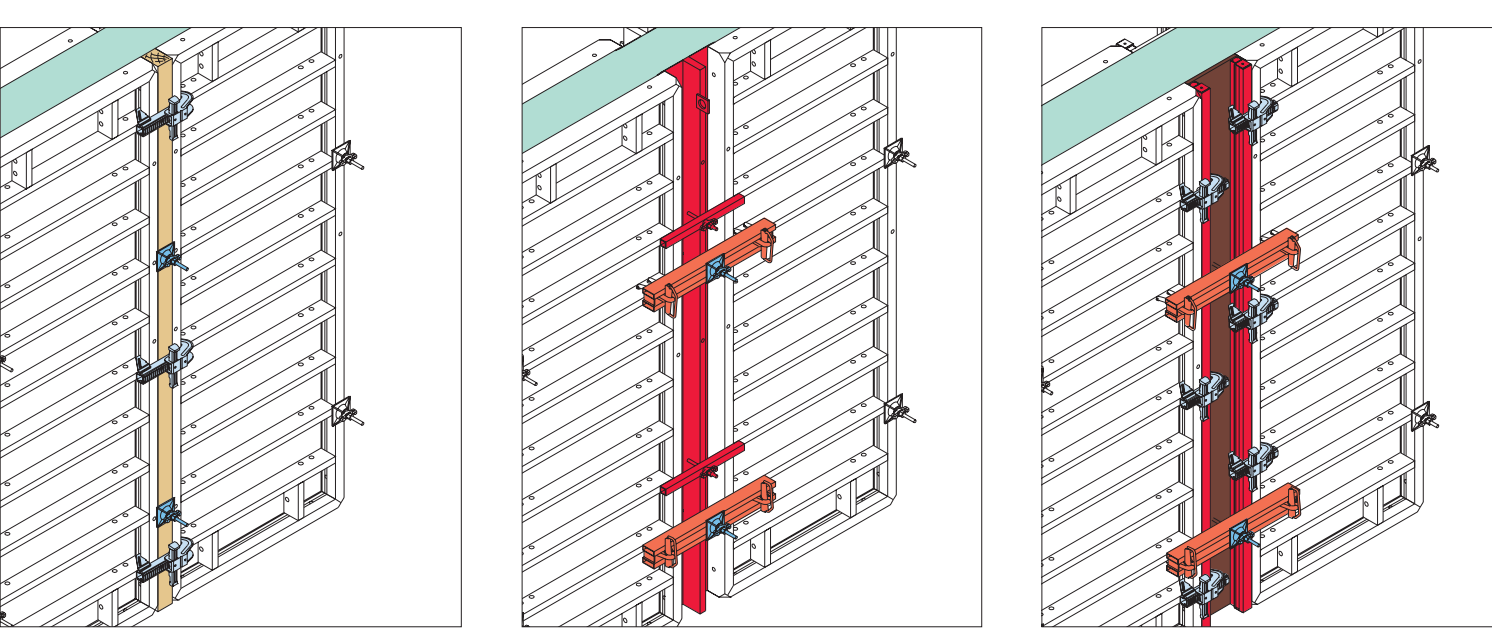


## 1. Standard Panel Connections



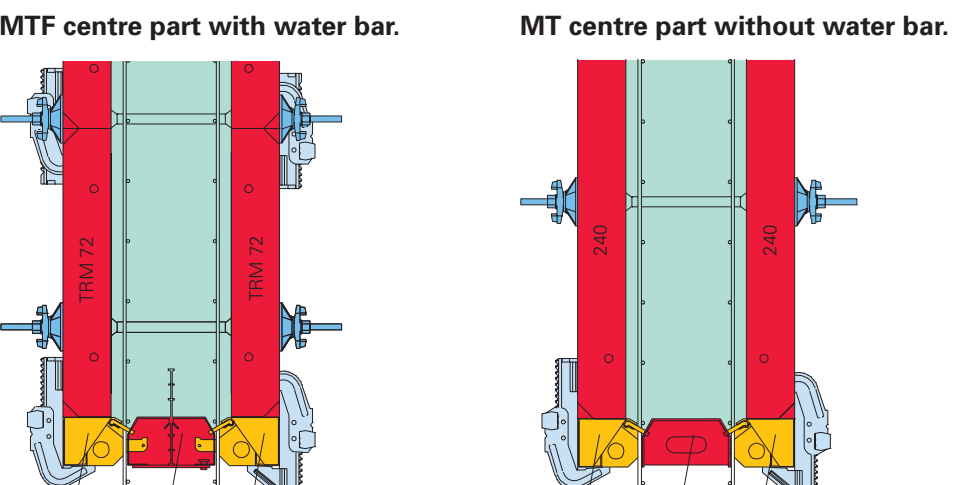
## 2. Length Adjustment

Quick and easy solution up to 100 mm. With timber, or timber and formling plus BFD alignment coupler.



## 7. Stopend Formwork

Using the TRIO MT/MTF stopend panel with continuous reinforcement, with or without water bars.



## Push-Pull Props and Kicker Braces

Push-pull props and kicker braces for aligning the formwork as well as transferring wind loads are to be arranged as shown in the drawings and table below. The first element must always have 2 push-pull props attached.

Table for PERI push-pull props and kicker braces

Formwork height h [m]	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0
Max. width of influence [m]	3.53	2.73	2.19	1.82	1.58	1.42	1.30	1.21	1.13	1.06
Actual prop load $F_{p1}$ [kN] at maximum prop spacing	9.7	9.7	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
Actual kicker load $F_{p2}$ [kN] at maximum prop spacing	2.1	2.3	2.2	2.2	2.3	2.6	2.6	2.3	2.1	1.9
x = dist. of base plate from real edge of formwork	1.2	1.6	2.0	2.4	2.9	3.6	4.3	4.7	5.3	5.9
y = top connection point from top of formwork	1.0	1.2	1.5	1.8	2.0	2.6	3.1	3.5	4.0	4.6

## TRIO Panels

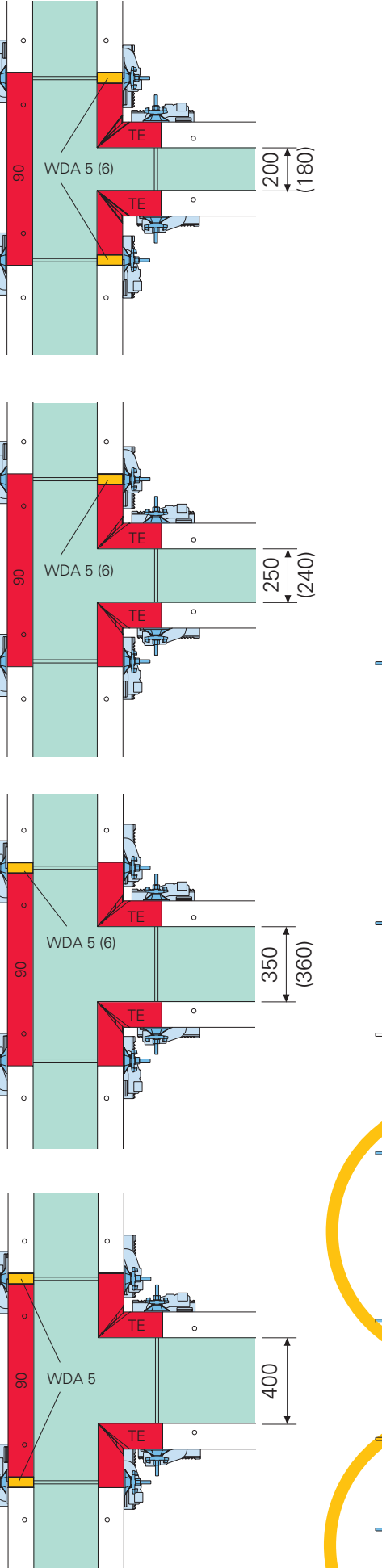
Width	240	120	90	60	30	72	TE	TRM 72	TGE
Height	330	270	120	60	30	72	TE	TRM 72	TGE
TR 330									
Item no.	05430	05431	05432	05433	05434	05435	05436	05437	05438
Weight	388.00 kg	190.00 kg	135.00 kg	89.40 kg	44.70 kg	107.00 kg	122.00 kg	121.00 kg	121.00 kg
TR 270									
Item no.	02250	02251	02252	02253	02254	02255	02256	02257	02258
Weight	329.00 kg	169.00 kg	112.00 kg	80.30 kg	40.15 kg	89.80 kg	93.80 kg	94.80 kg	94.80 kg
TR 120									
Item no.	02259	02260	02261	02262	02263	02264	02265	02266	02267
Weight	132.00 kg	67.50 kg	45.00 kg	24.30 kg	12.15 kg	24.30 kg	25.00 kg	25.00 kg	25.00 kg
TR 60									
Item no.	02268	02269	02270	02271	02272	02273	02274	02275	02276
Weight	66.00 kg	33.75 kg	22.50 kg	12.15 kg	6.075 kg	12.15 kg	12.50 kg	12.50 kg	12.50 kg

## 6. T-junctions

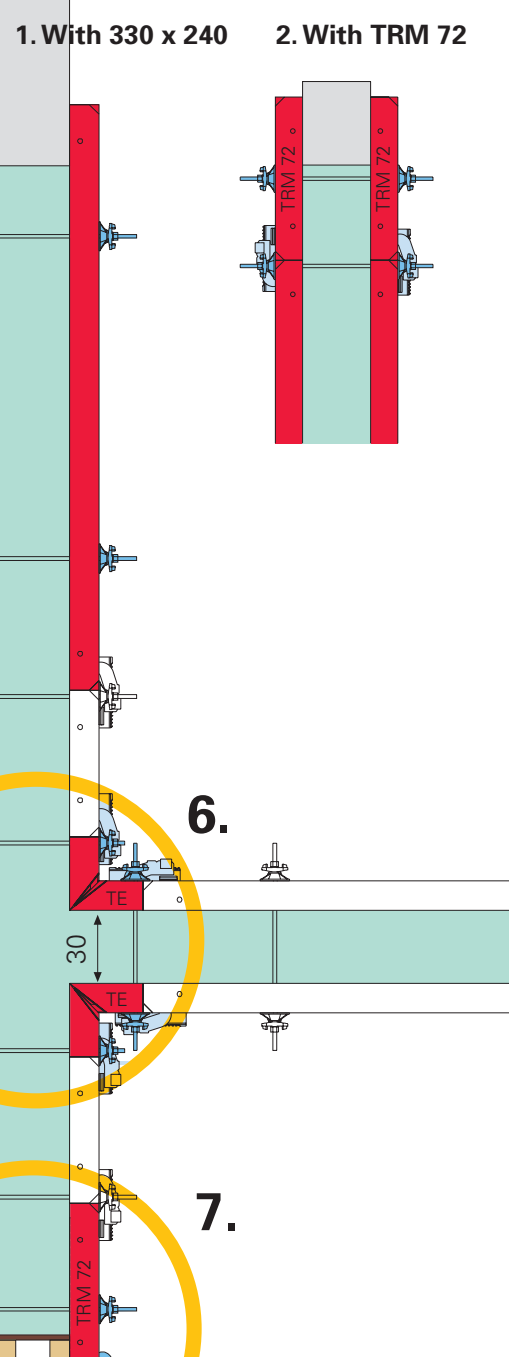
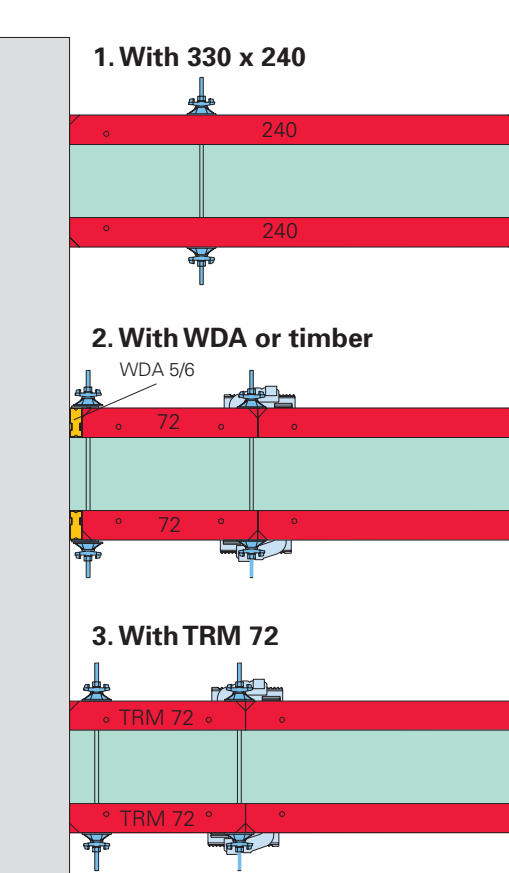
Basic rules for T-junctions: Wall thicknesses 180 – 400 mm

External formwork: with panel TR 90 Internal formwork: with TRIO Corner TE

Adapting to wall thicknesses using TRIO wall thickness compensation WDA 5, WDA 6 or timber infills.



## 8. Wall Connections



## 5. Wall Offsets

Up to max. 200 mm



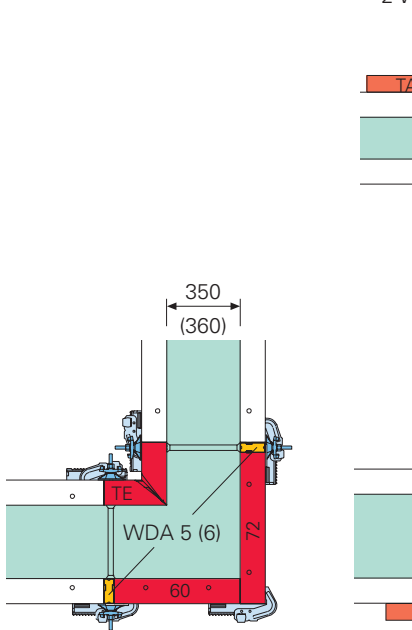
Up to max. 860 mm



## 3. Corners

Basic rules for corners: Wall thicknesses 180 – 400 mm.

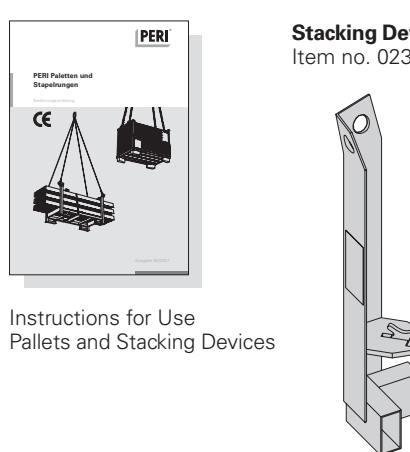
Adapting to wall thicknesses using TRIO wall thickness compensation WDA 5, WDA 6 or timber infills.



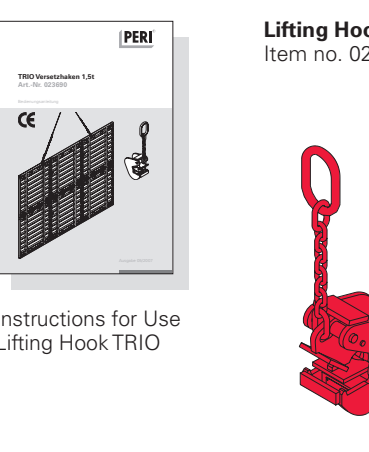
## Transport and Storage

Stacking Device TRIO, galv. Perm. load of 500 kg/plate. The pins are used to move stacks of panels of any size.

Follow Instructions for Use!



Follow Instructions for Use!



Lifting Hook TRIO. Perm. load of 2.9 t with 45° lifting gear angle. The pins are used to move stacks of panels of any size.

Follow Instructions for Use!



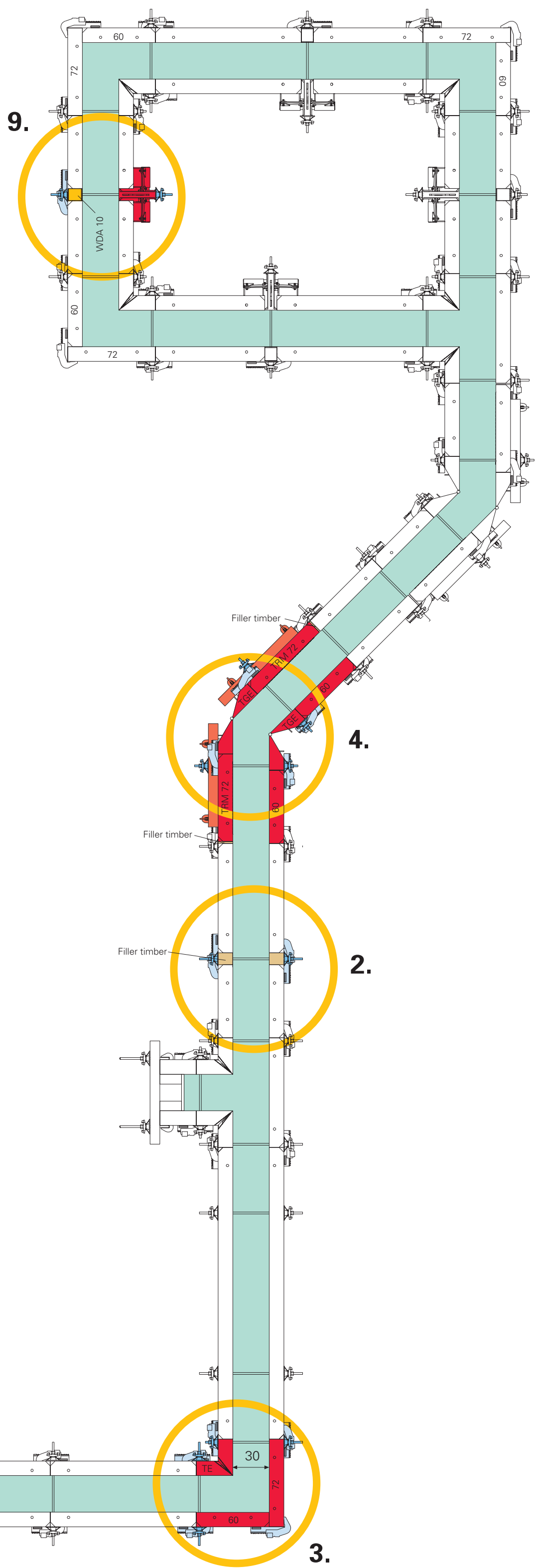
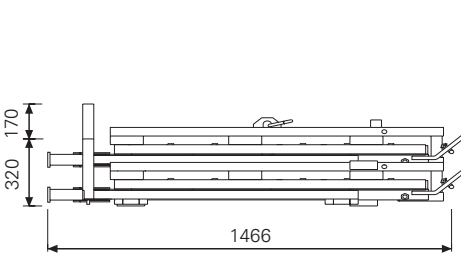
## Working Platforms

Scaffold Bracket TRIO 80. Item no. 023670 TRG 120. Item no. 023680

Planking and Guardrails for working platforms are to be fitted according to current valid guidelines. Maximum spacing of the scaffold brackets = 1.35 m with a permissible load of 150 kg/m².

## Concreting Platform 120 x 270

A single platform unit is only 32 cm high when folded. Each additional unit adds only 17 cm in height. 13 concreting platforms 120 x 270 stacked on top of each other is equal to the loading height of a truck.



9.

4.

2.

5.

3.

PERI®

## Tips

for trouble-free usage

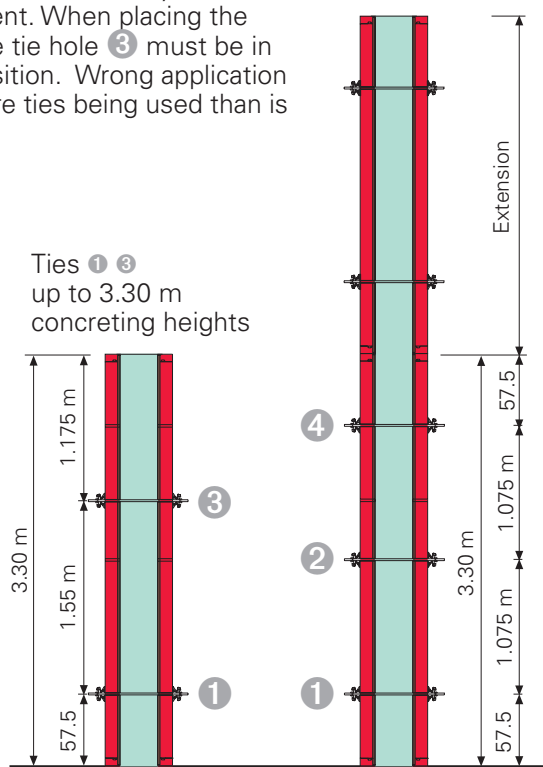
- Check correct orientation of tie holes when installing TRIO 330 elements. (See Ties-below)
- Spray formwork on all sides with PERI BIO Clean before every use.
- Spray back of formwork with water immediately after concreting to reduce the cleaning work.
- Always start at a corner or difficult area. Pay attention to the wall thickness. See corners.
- Only use the required number of ties. Unused tie holes must be sealed with plugs ø 20/24, item no. 030300.
- More information can be found in the TRIO assembly instructions.

Without exception, valid safety regulations must be observed in those countries where our products are used.

## Ties

Basic rule: TRIO 330 panels have an asymmetrical tie arrangement. When placing the elements, the tie hole ⑥ must be in the upper position. Wrong application results in more ties being used than is necessary.

Ties ①-⑥ for extended formwork



Permissible fresh concrete pressure for the TRIO 330. Elements certified according to guidelines issued by the Güteschutzverband Betonschalungen (Quality Protection Association for Concrete Formwork). GSV

GSV geprüft durch Güteschutzverband Betonschalungen. Güteschutzverband Betonschalungen. Test report available on request.

## 9. Shafts

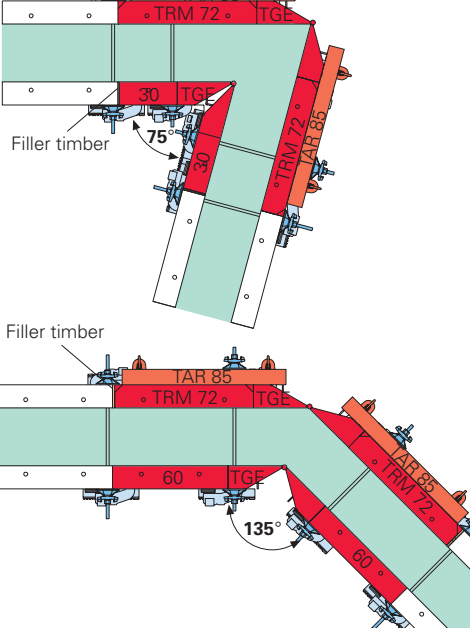
The TRIO shaft element allows complete shaft formwork units to be moved as one unit. A 25 mm all-round clearance for striking is created when the formwork panels are pulled.

Shaft Element TSE 330, Item no. 105525 Shaft Element TSE 270, Item no. 105523 Shaft Element TSE 120, Item no. 105524 4 pieces per shaft



## 4. Oblique Angles

TRIO articulated corner TGE for angles of 75° and more – for internal and external corners alike.



Internal formwork: with TR 60 or TR 30 panels and articulated corners

Internal element connection: 5 BFD couplers

External formwork: with multi-panel TRM 72 and articulated corners

External element connection: 2 compensation wafers TAR 85, 5 BFD couplers

## Extension Units

Formwork should be assembled to its full height on the ground!

Formwork height h [m]	330	240	Extensions with 120 x 240 panels	120	90	72	60	30	TE	TGE Internal	TGE External	TE External
330												
240												
360												
390												
420												
450												
480												
510												
540												
570												
600												
630												
660												

For heights of 5.40 m, we recommend using 2 x 2.70 m

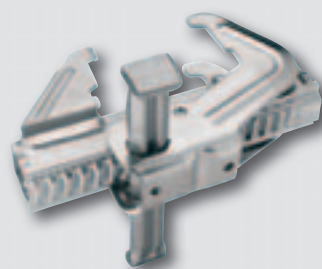
Using 2.70 m panels reduces the number of ties at the bottom.



# TRIO 330

## Panel Formwork

Poster



# PERI Product Range



## Wall Formwork

Panel Formwork  
Girder Formwork  
Circular Formwork  
Facade Formwork  
Brace Frame



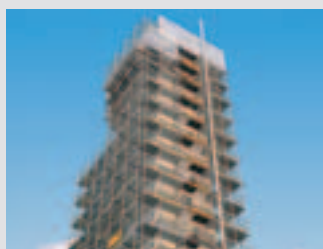
## Climbing Systems

Climbing Scaffold  
Self-Climbing System  
Climbing Protection Panel  
Platform Systems



## Column Formwork

Square  
Rectangular  
Circular



## Scaffold, Stairways, Working Platforms

Facade Scaffold  
Working Platform  
Weather Protection Roof  
Stairway Access



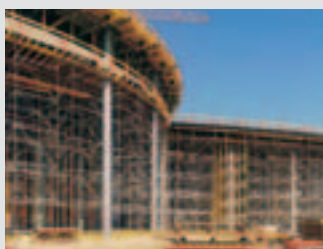
## Slab Formwork

Panel Formwork  
Beam Grid Formwork  
Girder Formwork  
Slab Table  
Beam Formwork



## Bridge and Tunnel Formwork

Cantilevered Parapet Carriage  
Cantilevered Parapet Platform  
Engineer's Construction Kit



## Shoring Systems

Steel Slab Props  
Aluminium Slab Props  
Tower Systems  
Heavy-Duty Props



## Services

Formwork Assembly  
Cleaning / Repairs  
Formwork Planning  
Software  
Statics  
Special Constructions

Additional Systems  
Plywood  
Formwork Girders  
Stopend Systems  
Pallets  
Transportation Containers



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