

# **RUNDFLEX Plus-2**

The new Generation of Circular Formwork



Edition 03/2010

### **PERI GmbH**

### Formwork Scaffolding Engineering

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### Important Notes:

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

The illustrations in this brochure are photographs of real site situations. Safety or formwork anchor details are therefore not to be taken as a definitive guide to the way the equipment is to be used.

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.



## **Content**

### **RUNDFLEX Plus-2**

- 3 the circular formwork for radii greater than 2.00 m
- 4 High-quality concrete surfaces due to the formlining being screwed on at the rear
- 6 Fewer adjustable spindles for fast and easy use
- 8 Complete platform system for safe and efficient working operations
- 10 Well thought-out details for easier forming
- 12 Construction site-compliant solutions for cost-effective material use
- 14 Components
- 28 PERI International

## **RUNDFLEX Plus-2**

## the circular formwork for radii greater than 2.00 m



For the construction of sewage treatment plants, spiral ramps for multistorey car parks, biogas facilities, silos and other circular structures, there are always different radii to form.

The low amount of usage per formwork panel and radius is the norm here. Assembly, modifications and re-assembly of the formwork is extremely expensive.

PERI RUNDFLEX Plus-2 solves this problem with rentable, adjustable standard panels. From 2.00 m upwards, each radius can be continuously adjusted and formed.

Safe working conditions at all heights - the platform system of the RUNDFLEX Plus-2 makes this possible.









Assembly of the accessories is carried out on the horizontally-positioned panel. During the moving procedure, everything remains mount-

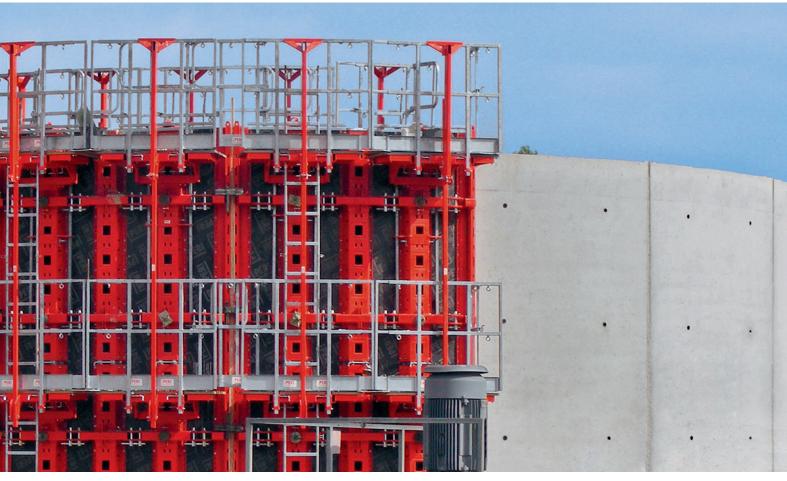
ed in position.

ture and high-quality concrete surfaces.

The RUNDFLEX Plus-2 ensures uniform curva-

# **High-quality concrete surfaces**

## due to the formlining being screwed on at the rear



### **RUNDFLEX Plus-2 panels**

Here, a high-quality, 18 mm thick Fin-Ply sheet with a 1.6 mm thick polypropylene coating is used. This sheet allows radii greater than 2.00 m and a high amount of utilisation. The panels are available as internal and external panels in five heights - 1.20 m, 1.80 m, 2.40 m, 3.00 m und 3.60 m with 2 widths in each case.

The innovative construction with continuous fitted walers - each rigidly connected by 2 pins - allows perfect curvatures also for large radii without requiring any additional measures. This detail makes the formwork insensitive to differences in the pouring height during concreting.





### Top-class concrete surfaces

With RUNDFLEX Plus-2 panels, the formlining is screwed on at the rear. As a result, high-quality concrete surfaces without impressions from screws or other fastening means are achieved.



Using the RUNDFLEX Plus-2 results in highquality concrete surfaces and a uniform curvature.



Formlining screwed on at the rear leaves no impressions on the concrete surface.



Only the tie holes and formlining joints are visible after using RUNDFLEX Plus-2.

### Permissible fresh concrete pressure

RUNDFLEX Plus-2 has been designed for a fresh concrete pressure of 60 kN/m<sup>2</sup> according to DIN 18202, Table 3, Line 6. This allows fast concreting to take place.



## Fewer adjustable spindles

## for fast and easy use

### Setting the radii

By means of the Combi Ratchet Spanner SW 24, the RUNDFLEX Plus-2 panels are easily adjusted to suit the required radius.

The "rough adjustment" takes place by measuring the waler spacings (see table). After this, fine adjustment is carried out with help of a radius template.



Thanks to the ingenious construction of the RUNDFLEX Plus-2, only a few spindles are to be operated.

Adjustments or changes to the radii can also be carried out with completely mounted platforms.



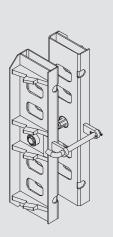
With the help of the radius template, panels are accurately adjusted to suit the required radius.



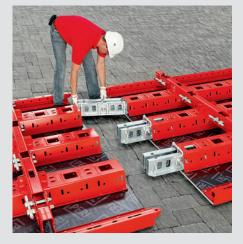
Combi Ratchet Spanner SW 24 Item no. 021790

### **Panel extensions**

RUNDFLEX Plus-2 panels can be extended in 60 cm increments up to 8.40 m by means of the Extension Coupler RFP-2. Extensions are carried out on horizontally-positioned panels. With heights > 8.40 m, pre-assembly is in two parts and extensions are then done vertically.



Extension Coupler RFP-2 Item no. 111960



For assembling the one-piece Extension Coupler RFP-2, only the Combi Ratchet Spanner SW 24 is necessary.

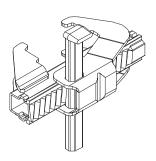


The rigid and non-slip extensions make the connections flush, aligned and tight, along with allowing the creation of large moving units.



### **Panel connections**

RUNDFLEX Plus-2 panels are quickly and easily connected using the BFD alignment coupler. It connects continuously and allows the use of filler timber up to a thickness of 10 cm.



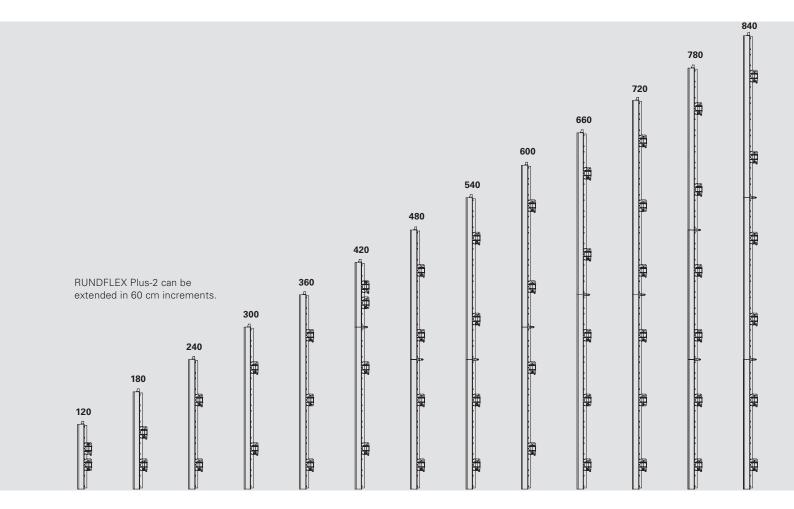
**Alignment Coupler BFD** Item no. 023500



The panel joint without ...



... and with filler timber up to 10 cm thick.



## Complete platform system

## for safe and efficient working operations

With the RUNDFLEX Plus-2, the concreting and working platforms consist of standard system components.

At the same time, the system can be adapted to every radius.

### Simple and safe assembly

Assembly safely takes place on horizontally-positioned elements. Once assembled, the elements complete with platforms and push-pull-props are moved to the place of use. For loading and transportation, the platforms can be folded up and remain attached to the element.

### **Conventional platforms**

Instead of the complete platform system, naturally individual brackets with guardrail holders - plus planking and guardrail boards supplied by the contractor - can also be used. Here, assembly can be carried out on horizontally-positioned elements as well.



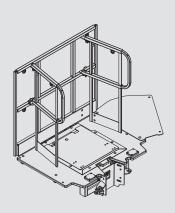
Complete element with platforms, access ladder and push-pull-props being moved to its place of use.



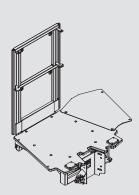
With the system components:

- internal platform
- external platform
- access ladder
- ladder support

working platforms for both the internal and external formwork can be assembled.



Platform RFP-2 A with Hatch Item no. 115859 Platform RFP-2 A without Hatch Item no. 115101



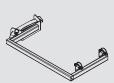
Platform RFP-2 I with Hatch Item no. 115861 Platform RFP-2 I without Hatch Item no. 115111



Front Handrail RFP-2 A Item no. 115253 Front Handrail RFP-2 I Item no. 115250



**Ladder RFP-2 90** Item no. 114871 **Ladder RFP-2 180** Item no. 114870



Ladder Strut RFP-2 Item no. 115226

Safe and cost-effective working conditions on the RUNDFLEX Plus-2 platforms.



All platform components are safely mounted on the element on the ground.



## Well thought-out details

# for easier forming

### Transportation and storage

The small overall height of the RUNDFLEX Plus-2 elements of only 26 cm allows space-saving transportation and storage.



With a 26 cm stacking height, up to 8 elements can be transported one on top of the other depending on the truck.

### Crane hook and covering

For moving the element, the Crane Hook RFP-2 is used. It can also be used as a top tie bracket for anchoring above the element.

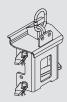
As protection against dirt from above and as a sliding surface below, the Slide Plate RFP-2 is used.



The load-bearing capacity of the Crane Hook RFP-2 is 1.5 t. It is also used at the same time as a top tie bracket for anchoring above the element.



Fast assembly of the slide plate with wedge.









Anchoring above the formwork saves a lot of money in particular for the construction of waterproof structures.

For moving the elements, the ties are simply inserted in the hat profile.



## **Anchoring**

Depending on the element combination, only 0.54 ties per m<sup>2</sup> of wall surface are required. RUNDFLEX Plus-2 does not require any additional walers for anchoring. Anchoring takes place through the walers which are securely fixed to the element. For a 2.50 m element width, only 2 ties are necessary. For reducing the number of tie points in the concrete, the ties in the topmost row of walers can be omitted and arranged above the formwork.

### **Push-pull prop connections**

For assembling the push-pull-props and kickers, the PERI RUNDFLEX Plus-2 does not require any additional components. The connections are integrated on the walers or platforms, and are available on every element. This saves time and money.

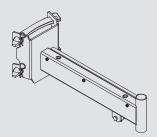


All RUNDFLEX Plus-2 elements have integrated push-pull prop connections ...



... to which the kicker is also fixed.

If several platforms are arranged one above the other when using individual brackets, the push-pull props are mounted on the Brace Bracket RFP-2. This means that the push-pull props do not collide with the platforms positioned below.



**Brace Bracket RFP-2** Item no. 112306

When using the RFP-2 platform, the push-pull props are attached directly to the platform itself



## **Construction site-compliant solutions**

## for cost-effective use of materials

### Stopend formwork

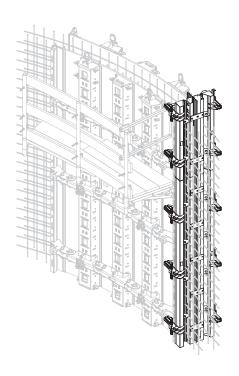
The edge profile of the RUNDFLEX Plus-2 elements, allow the use of TRIO stopend panels. However, conventional jobsite solutions are also simple to implement.

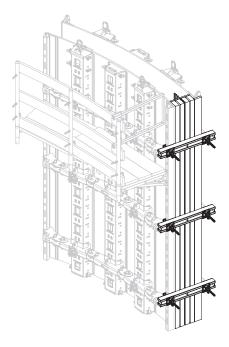
### With TRIO Stopend Panel MT/MTF

This allows the installation of water stops as well as execution of the reinforcement work at the same time.

### **Conventional solution**

Stopends from the contractor are fixed to the edge profile of the RUNDFLEX Plus-2 element with walers and stopend ties or hook ties.







The TRIO Stopend Panel MT/MTF is secured with the Alignment Coupler BFD.

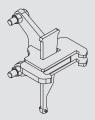


Conventional stopend formwork is mounted with walers and stopend ties.



### Use with single-sided formwork

RUNDFLEX Plus-2 elements are mounted on the Brace Frames A0, A, B by means of the Connector SB-A,B,C/ RFP-2.



Connector SB-A,B,C / RFP-2

Item no. 109587



### **Connection RUNDFLEX Plus-2 with MAXIMO, TRIO or RUNDFLEX**

RUNDFLEX Plus-2 elements are connected with MAXIMO or TRIO using the Alignment Coupler BFD. Connecting with RUNDFLEX for radii from 1.00 m upwards is also possible.



Only one connecting component

The Alignment Coupler BFD



Complete units can be moved with the crane.



The TRIO Alignment Coupler BFD is also used here.



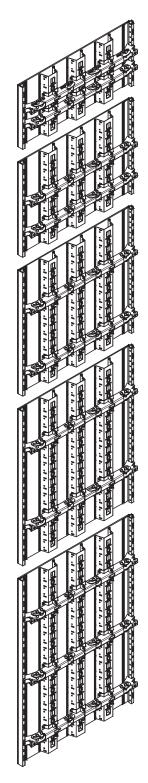
Item no.	Weight kg
112460	315,000
112565	381,000
112590	446,000
112610	512,000
112615	667 000

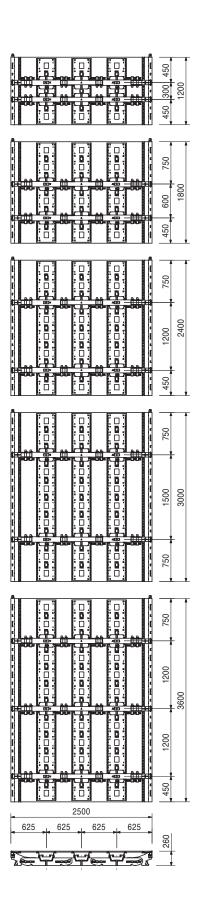
Outside Panels RFP-2 A 250 Outside Panels RFP-2 A 250 x 120 Outside Panels RFP-2 A 250 x 180 Outside Panels RFP-2 A 250 x 240 Outside Panels RFP-2 A 250 x 300 Outside Panels RFP-2 A 250 x 360

Ready-to-use formwork panel for circular structures.

### **Technical Data**

Minimum radius 2.0 m.







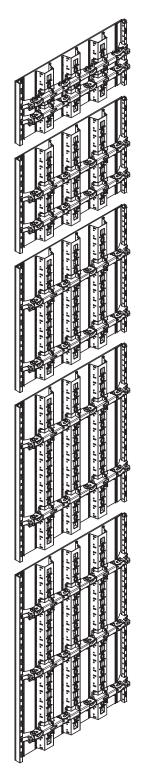
Item no.	Weight kg
112630	299,000
112635	364,000
112640	429,000
112650	494,000
112655	642.000

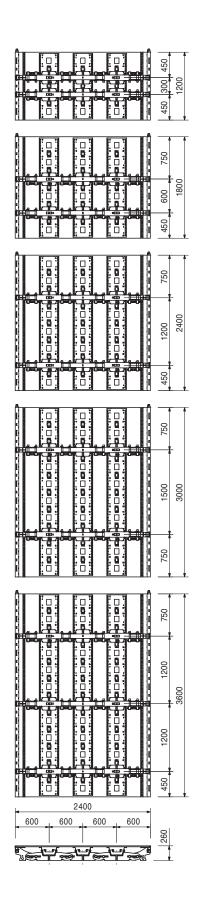
Inside Panels RFP-2 I 240 x 120 Inside Panels RFP-2 I 240 x 120 Inside Panels RFP-2 I 240 x 180 Inside Panels RFP-2 I 240 x 240 Inside Panels RFP-2 I 240 x 300 Inside Panels RFP-2 I 240 x 360

Ready-to-use formwork panel for circular structures.

### Technical Data

Minimum radius 2.0 m.





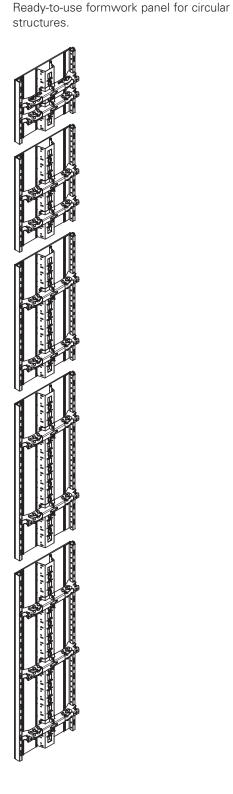


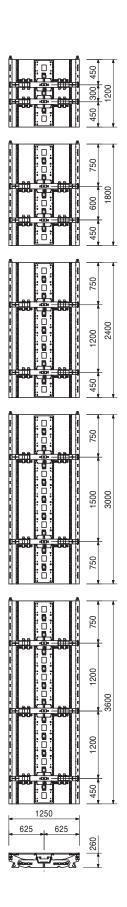
Item no.	Weight kg
112738	156,000
112530	192,000
112740	228,000
112741	263,000
112742	339,000

Outside Panels RFP-2 A 125 Outside Panels RFP-2 A 125 x 120 Outside Panels RFP-2 A 125 x 180 Outside Panels RFP-2 A 125 x 240 Outside Panels RFP-2 A 125 x 300 Outside Panels RFP-2 A 125 x 360

**Technical Data** 

Minimum radius 2.0 m.







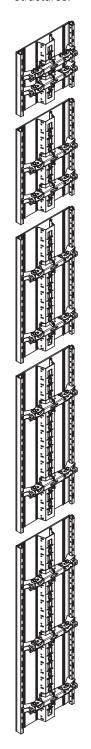
Item no.	Weight kg
112745	148,000
112747	183,000
112750	218,000
112753	253,000
112755	325.000

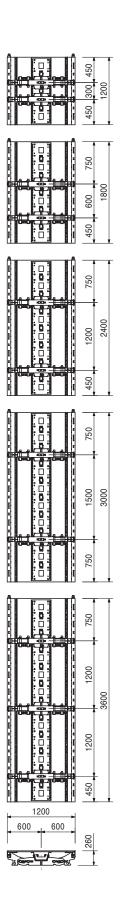
Inside Panels RFP-2 I 120 Inside Panels RFP-2 I 120 x 120 Inside Panels RFP-2 I 120 x 180 Inside Panels RFP-2 I 120 x 240 Inside Panels RFP-2 I 120 x 300 Inside Panels RFP-2 I 120 x 360

Ready-to-use formwork panel for circular structures.

### Technical Data

Minimum radius 2.0 m.



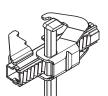




Item no. Weight kg 023500 4,350

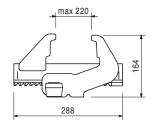
Alignment Coupler BFD, galv.

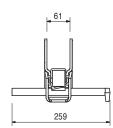
For all panel connections for MAXIMO, TRIO and RUNDFLEX. Fillers up to 10 cm.



Technical Data

Permissible tension force 20.0 kN.



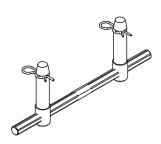


107998

4,700

**Adjusting Spindle RFP-2 500** 

For connecting RUNDFLEX Elements when they are moved in units.

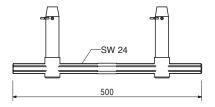


Complete with

2 pc. 022230 Cotter Pin 5/1, galv.

Note

Wrench size SW 24.



112298 12,200

**Crane Hook RFP-2** 

For transporting RUNDFLEX Plus elements by crane.

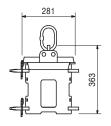
Complete with

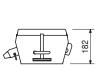
2 pc. 112301 Waler RFP-2 galv. 2 pc. 022230 Cotter Pin 5/1, galv.

**Safety Instructions** 

Use 2 pieces per transportation unit. Load-carrying capacity with 1.5 t.







112315

3,570

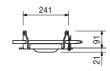
Slide Plate RFP-2

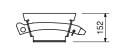
As slide plate as well as covering for the top-hat profile with RUNDFLEX Plus elements.



Complete with

1 pc. 112301 Waler RFP-2 galv. 1 pc. 022230 Cotter Pin 5/1, galv.



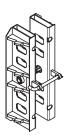




Item no. Weight kg
111960 16,900

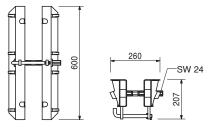
**Extension Coupler RFP-2** 

For extending RUNDFLEX Plus elements: large panels up to max. 8.40 m Half-sized panels up to max. 6.60 m.



### Note

1 piece per cap profile. Wrench size SW 24.



113629

7,410

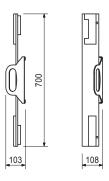
### **Extension Splice RFP-2**

For assembly on the edge profile when extending 120 cm high panels if these are used as subpanels and with only one row of ties.



### Note

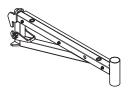
1 piece per edge profile.



112325 5,410

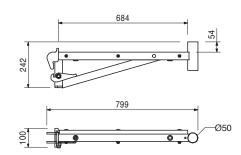
O Scaffold Bracket RFP-2 80

For assembly of a working and concreting scaffold with RUNDFLEX Plus elements. With nailing batten. Mounted on top-hat or edge profiles.



### **Technical Data**

Permissible load 150 kg/m $^{2}$  with maximum width of influence 1.25 m.





Item no.	Weight kg
112306	21 300

### **Brace Bracket RFP-2**

For connecting push-pull props outside of the waler line and for assembly of a work and concreting scaffold with RUNDFLEX Plus elements. With nailing batten. Mounted to top hat profile.

### Complete with

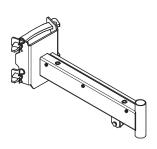
2 pc. 112301 Waler RFP-2 galv. 2 pc. 022230 Cotter Pin 5/1, galv.

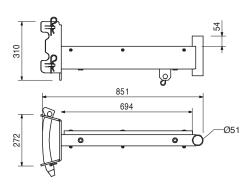
1 pc. 027170 Bolt Ø 16 x 42, galv.

1 pc. 018060 Cotter Pin 4/1, galv.

### **Technical Data**

Permissible load 150 kg/m $^{2}$  with maximum width of influence 1.25 m.

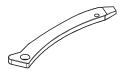


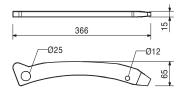


112301

1,610

Waler RFP-2 galv.





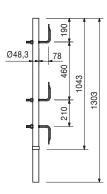
110633

6,000

### **Guardrail Post RFP-2**

As safety equipment when using guardrail handrail boards supplied by contractor.





021790

1,000

### Ratchet Spanner SW 24 "Combi"

For adjusting RUNDFLEX elements and Cantilevered Parapet Platform GKB.



### Note

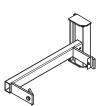
Length approx. 500 mm.



Item no. Weight kg 109411 6,450

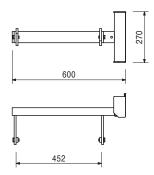
**Ladder Connector RFP-2** 

For connecting ladders at RUNDFLEX Plus elements.



### Complete with

2 pc. 710266 Bolt ISO 4017 M12 x 25-8.8, galv. 2 pc. 701763 Clamping Plate FI 25 x 10 x 90



051410

11,700

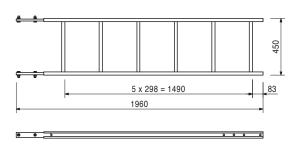
Ladder 180/6, galv.

As access for PERI formwork systems.



### Complete with

4 pc. 710224 Bolt ISO 4017 M12 x 40-8.8, galv. 4 pc. 710381 Nut ISO 7042 M12-8, galv.



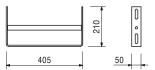
051460

2,180

Ladder Base, galv.

As bottom ladder connection and for securing ladders against sliding on the scaffold decks.





103718

0,684

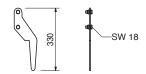
Ladder Hook, galv.

For adjusting the bottom ladder. Always use in pairs.



### Complete with

2 pc. 710266 Bolt ISO 4017 M12 x 25-8.8, galv. 2 pc. 710381 Nut ISO 7042 M12-8, galv.





Item no.	Weight kg
104132	15,600
051450	25,200

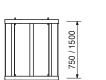
Ladder Safety Cages, galv. Ladder Safety Cage 75, galv. Ladder Safety Cage 150, galv.

Ladder safety cage for PERI access ladders.



### Complete with

4 pc. 710266 Bolt ISO 4017 M12 x 25-8.8, galv. 4 pc. 701763 Clamping Plate FI 25 x 10 x 90

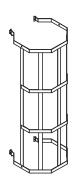




109420 27,000

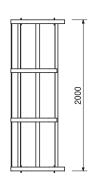
### Ladder Safety Cage RFP-2 200

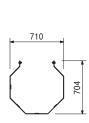
Ladder Safety Cage for PERI access ladders.



### Complete with

4 pc. 710266 Bolt ISO 4017 M12 x 25-8.8, galv. 4 pc. 701763 Clamping Plate FI 25 x 10 x 90

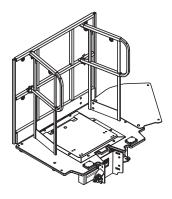




115859 129,000

### Platform RFP-2 A with hatch

As working and concreting platform for RUNDFLEX Plus, foldable. For external formwork.

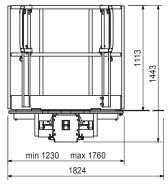


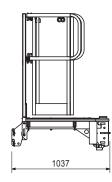
### Complete with

1 pc. 115283 End Handrail Frame RFP-2 left 1 pc. 115287 End Handrail Frame RFP-2 right

### **Technical Data**

Permissible load 150 kg/m<sup>2</sup>.







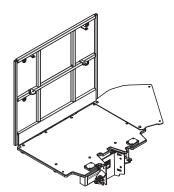
Item no. Weight kg
115101 107,000

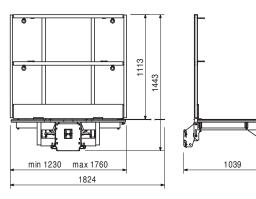
Platform RFP-2 A without hatch

As working and concreting platform for RUNDFLEX Plus, foldable. For external formwork.

### **Technical Data**

Permissible load 150 kg/m<sup>2</sup>.





115861 111,000

### Platform RFP-2 I with hatch

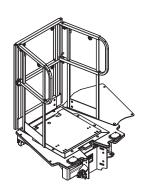
As working and concreting platform for RUNDFLEX Plus, foldable. For internal formwork.

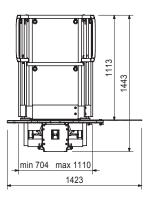
### Complete with

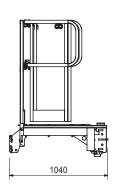
1 pc. 115283 End Handrail Frame RFP-2 left 1 pc. 115287 End Handrail Frame RFP-2 right

### **Technical Data**

Permissible load 150 kg/m<sup>2</sup>.







115111

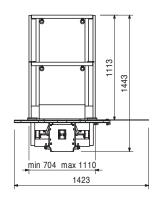
88,400

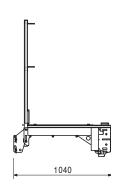
### Platform RFP-2 I without hatch

As working and concreting platform for RUNDFLEX Plus, foldable. For internal formwork.

### **Technical Data**

Permissible load 150 kg/m².



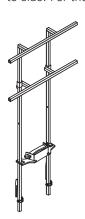


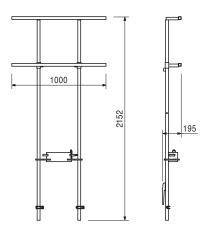


Item no. Weight kg 115253 18,100

### Front Handrail RFP-2 A

As guardrail for the RFP-2 Platform on the concrete side. For the external formwork.



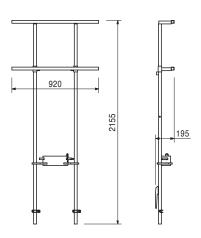


115250 17,800

### Front Handrail RFP-2 I

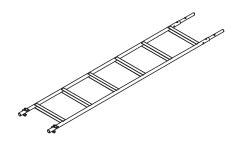
As guardrail for the RFP-2 Platform on the concrete side. For the internal formwork.

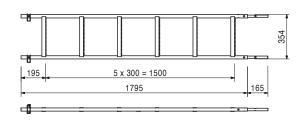




114871 4,900 114870 8,540 Ladders RFP-2 Ladder RFP-2 90 Ladder RFP-2 180

As access for Platform Systems RFP-2.







Item no. Weight kg 115226 7,810

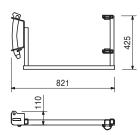
**Ladder Strut RFP-2** 

Bracket at the base for Ladders RFP-2 90 and 180.

### Complete with

1 pc. 112301 Waler RFP-2 galv. 1 pc. 022230 Cotter Pin 5/1, galv.





114840

4,380

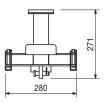
### Stacking Aid RFP-2

For stacking and transportation of RUNDFLEX Plus elements with mounted and folded Platforms RFP-2.

### Complete with

1 pc. 027170 Bolt Ø 16 x 42, galv. 1 pc. 018060 Cotter Pin 4/1, galv.



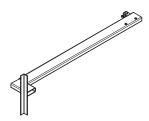




115235 15,500

### **Erection Bracing RFP-2**

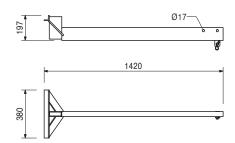
As reinforcement of the guardrail for erecting RUNDFLEX Plus elements with assembled Platforms RFP-2.



### Complete with

Complete with

1 pc. 027170 Bolt Ø 16 x 42, galv. 1 pc. 018060 Cotter Pin 4/1, galv.



115240

14,100

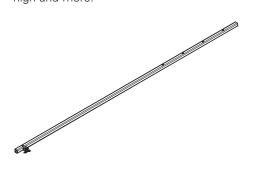
### Vertical Strut RFP-2

For vertical reinforcement of the Platform RFP-2 when erecting RUNDFLEX Plus elements 4.80 m high and more.

# 3300

1 pc. 027170 Bolt Ø 16 x 42, galv.

1 pc. 018060 Cotter Pin 4/1, galv.







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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



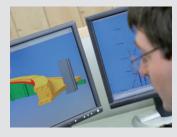
Slab Formwork
Panel Formwork
Beam Grid Formwork
Girder Formwork
Slab Table
Beam Formwork



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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