

# RASTO<sup>®</sup> G2

The new generation of our 60 kN wall formwork system for small to medium-sized projects, especially in the residential sector, is more efficient than ever.

- ▶ Technical data
- ▶ Product advantages – Work productively
- ▶ Product advantages – Work safely
- ▶ Application & use
- ▶ Logistics
- ▶ Engineering-Services

At Work For You



**HÜNNEBECK** 

BY BRAND SAFWAY

# RASTO® G2

## Technical data

RASTO G2 makes anchoring flexible and easy. Single-sided anchoring is possible, as is the use of traditional DW 15 anchors.

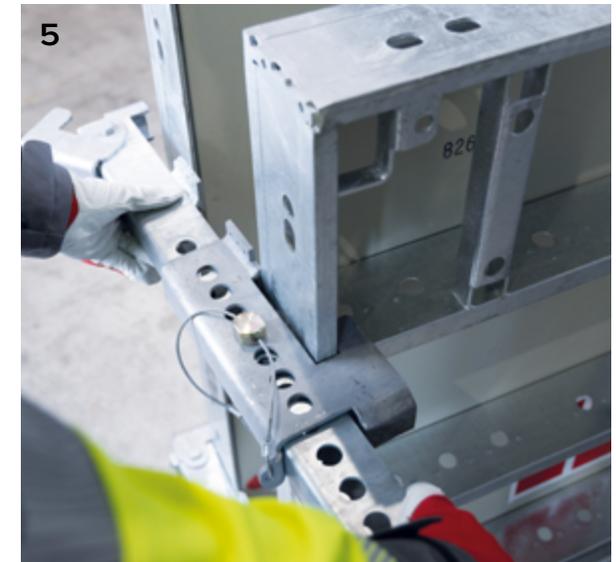
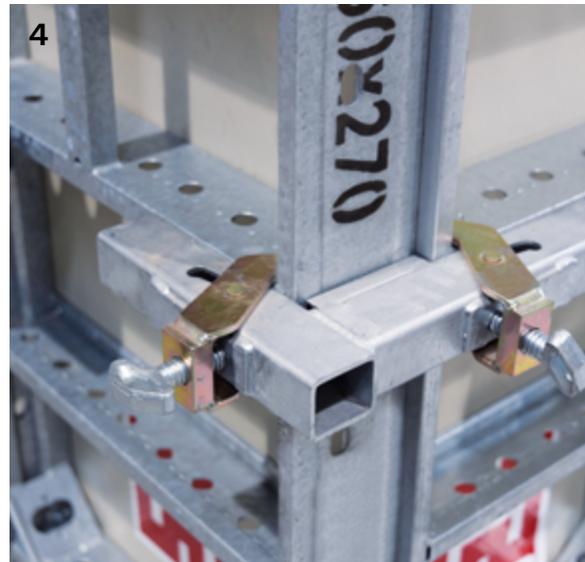
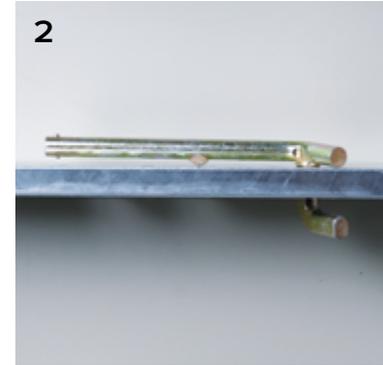


Product description	Versatile panel formwork system
Panel widths	30   45   60   75   90   240 cm
Panel heights	120   150   270 cm
Multi-purpose panels	70 x 120   70 x 270
Profile thickness	12 cm steel frame profile
Form lining	ECOPLY full plastic composite sheet   Max. concrete pressure 60 kN/m <sup>2</sup>
Form lining thickness	ECOPLY full plastic composite sheet = 15 mm
Average weight	40 to 65 kg/m <sup>2</sup> (including connection elements)
Corrosion protection	Fully galvanised steel frame and connection elements
Relevant standards	Complies with EN 1993   DIN 18202   18216   18218
Standard connection	RASTO® aligning clamp (aligned and flush connection)
Special connection	RASTO® adjustable clamp   Corner clamp   RASTO® clamping lever
Inner corners	30/30 cm
Hinged corners	From 60° to max. 150° angle
Outer corners	Basic panel with outer corner clamps
Forming/stripping times	t = 0.4 – 0.6 h/m <sup>2</sup>
Special features	<ul style="list-style-type: none"> <li>• XXL panel 240 x 270 cm</li> <li>• RASTO® shaft corner adapter   Panel clamp</li> <li>• High quality form lining on all panels</li> </ul>

# RASTO® G2

## Work productively

- ▶ Optional single-sided tying increases efficiency (1)
- ▶ RASTO Clip: lightweight, quick, no tools required (2)
- ▶ One third fewer connectors required than with comparable systems (3)
- ▶ XXL panels (6.48 m<sup>2</sup>) make the system especially economical
- ▶ Outer corners made of standard panels – no special panels required (4)
- ▶ Outstanding concreting results with ECOPLY plastic form sheet; easy cleaning and minimal wear
- ▶ Clever accessories: Bulkhead clamp can be used in place of up to eight components; wall thickness only needs to be set once. Can also be used as a dry tie (5)

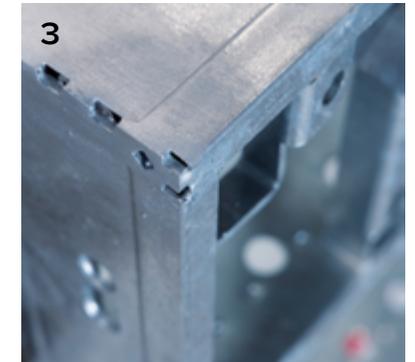
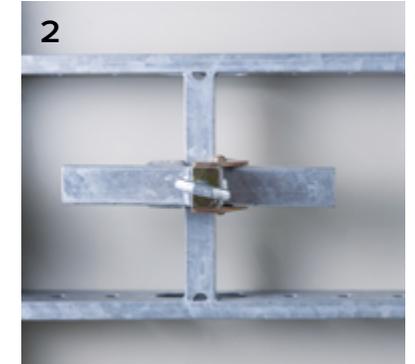


# RASTO® G2

## Work safely

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- ▶ Platform can be pre-assembled, with 360° side protection and integrated stairs (1)
- ▶ Lightweight panels reduce fatigue
- ▶ Connectors stored on the formwork, where they are easily accessible (2)
- ▶ Hot-dip galvanised steel frame ensures long serviceable life (3)
- ▶ Transport Hook G2: lightweight, powerful, operable from ground level



# RASTO® G2

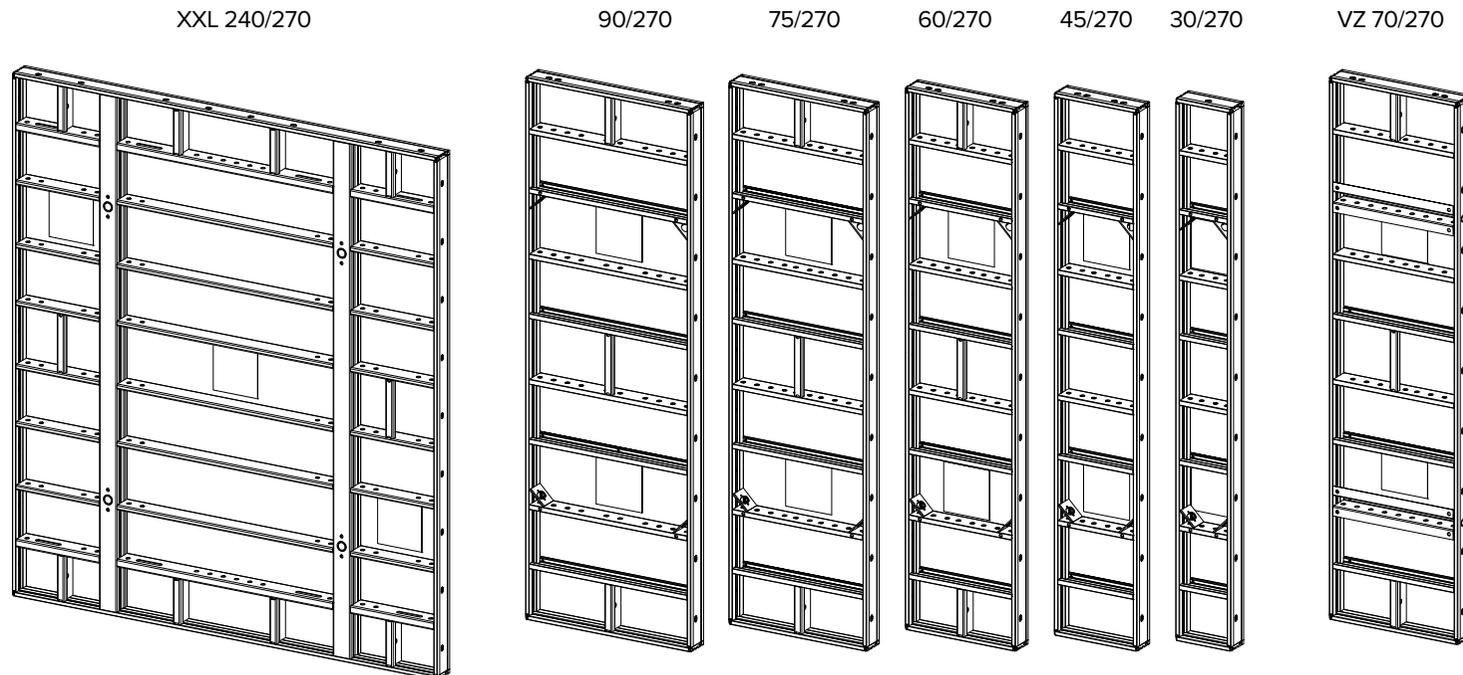
## Application & use

On the following pages you will find excerpts from our user manuals. The complete instructions are available at [www.huennebeck.com](http://www.huennebeck.com).

### RASTO/TAKKO Panels – Overview

There are two generations of RASTO Panels available. The new generation RASTO G2 has a distinctive optimised frame design that offers a wide range of new possibilities. These include e.g. one-sided tying or the connection of Alignment Struts in the centre of panels.

### RASTO G2 Panels



# RASTO® G2

## Application & use

### One-sided tying

When the one-sided RASTO G2 MR tie system is used to tie RASTO G2 panels, the ties can be operated from only one side of the formwork. The benefits of this system are:

- Tying does not take as much time.
- Fewer persons are needed.
- Access to the ties is needed only on one side of the formwork.
- The ties create a connection between the advancing side and the opposite side that is resistant to tension and pressure. Additional spreaders are not needed.

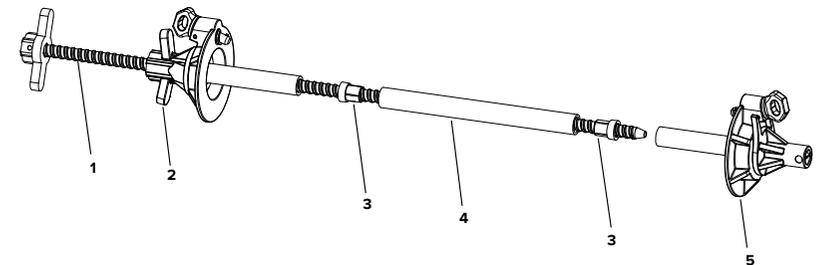
One-sided tying is particularly helpful when it is difficult to access one side of the formwork, e.g. in shafts. Walls up to 45 cm thick can be constructed with the one-sided tie system.

Typical steps for constructing formwork with one-sided tying:

1. Erect the advancing side of the formwork.
2. Add reinforcement.
3. Attach the Counter Nuts for the one-sided tie system in the corresponding tie holes on the opposite side while it is still lying flat.
4. Erect the opposite side of the formwork.
5. Connect the Tie Rod with Cladding Tube, the Sealing Cones and the Operating Nuts from the advancing side of the formwork.

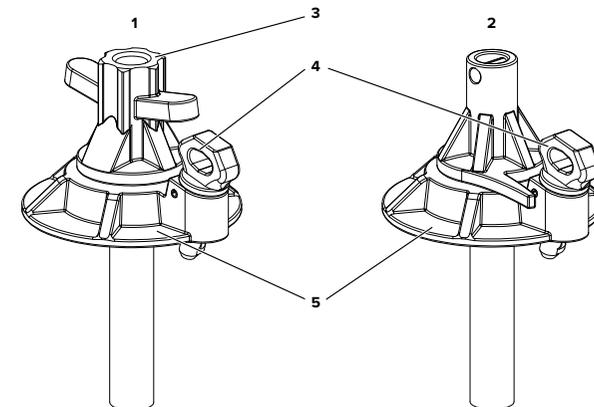
### Components of the one-sided tie system – Overview

- 1 Tie Rod with grip
- 2 Operating Nut
- 3 Sealing Cone
- 4 Cladding Tube 26/22
- 5 Counter Nut



### RASTO Operating Nut and Counter Nut (galvanized yellow)

- 1 Operating Nut
- 2 Counter Nut
- 3 Twist grip
- 4 Fixing screw
- 5 Tie plate



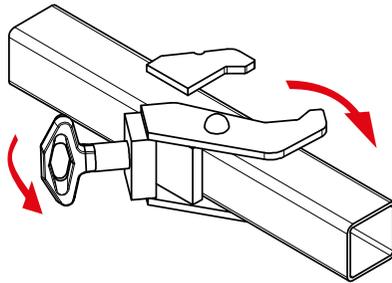
# RASTO® G2

## Application & use

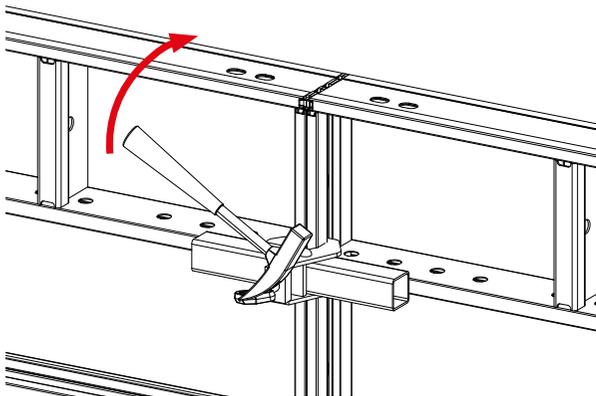
### Connecting formwork elements

#### With the RASTO Aligning Panel Clamp

**Step 1** Release the tensioning screw on the RASTO Aligning Panel Clamp and unscrew it far enough that the claws can be pushed around the panel joint.

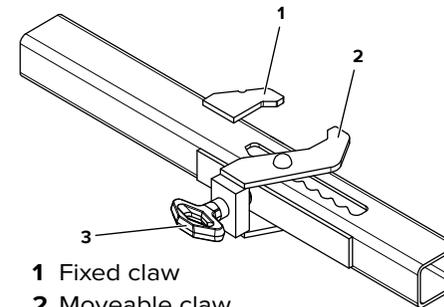


**Step 2** Push the Aligning Panel Clamp onto the panel joint and tighten the tensioning screw.



#### With the RASTO Adjustable Aligning Clamp

The RASTO Adjustable Aligning Clamp connects RASTO/TAKKO Panels to one another in the same way as the RASTO Aligning Panel Clamp. But this connector has an adjustable claw that can accommodate an infill of up to 150 mm in the panel joint.



- 1 Fixed claw
- 2 Moveable claw
- 3 Tensioning screw

# RASTO® G2

## Logistics

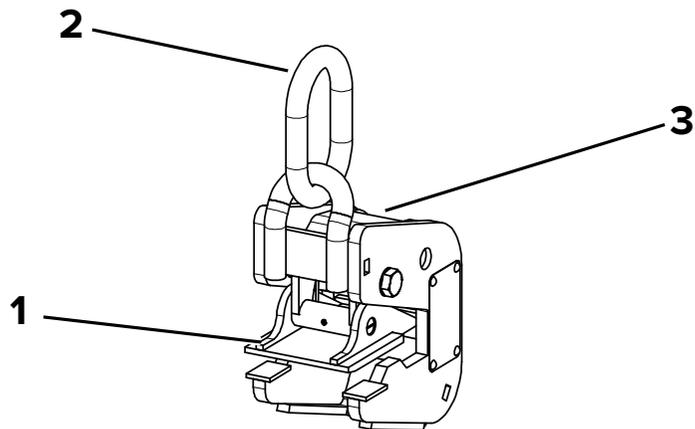
### Transporting formwork elements

#### Transporting single or connected formwork elements with a crane

##### With the RASTO G2 Transport Hook

Use the new RASTO G2 Transport Hook to hoist, align and move single or connected formwork elements by crane.

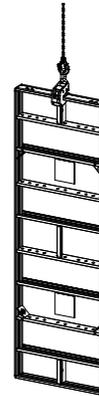
- 1 Profile lock; locks the Transport Hook to the edge profile of the panel.
- 2 Suspension link; for attaching a suitable sling
- 3 Lever; for releasing the profile lock



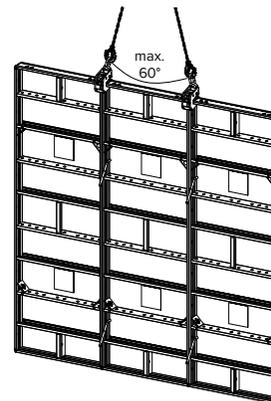
The following illustrations show examples of how the Transport Hook is used. Single formwork elements can be moved with a single Transport Hook. Always attach the Transport Hook to the centre of the panel.

Always use 2no. Transport Hooks to move panel assemblies. Always attach the Transport Hooks over a panel joint.

Single RASTO G2 Panels



Panel assembly made of RASTO G2 Panels



### Application & use

- › For smaller to medium-sized objects
- › Crane-independent use possible

### RASTO® G2 integrates with

- › TOPMAX®
- › Aligning struts
- › Support frames

If you would like to find out more, take a look at our **Video**.

# RASTO<sup>®</sup> G2

## Engineering-Services

**Phase 1**  
**We analyse the situation.**

**Phase 2**  
**We develop the technical drawings and calculate the costs.**

We can design the most complex projects on your behalf quickly and thoroughly. Starting with the ground plan and facade dimensions, we produce the required structural drawings, determine the precise quantities of materials and supply all the required quantity lists.

We help in finding the right safety and access solution. Transparency, flexibility, cost-effectiveness and safety are a matter of course for us and an integral part of our corporate philosophy.

Whatever it takes! We assist you throughout complex construction projects including the engineering of one-off structures. Our mission at all times is to protect you from any unnecessary risks and help you arrive at the best-possible results in every respect.

**Phase 3**  
**We plan and implement the realisation.**

**Phase 4**  
**We assist with project finalisation.**