







AUSTRALIAN PARTNER

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RINGER

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1 General information



REFERENCE

Draws attention to other documents containing information of relevance.



TECHNICAL INFORMATION Draws attention to important product features.

1

TIP Draws attention to useful practical tips.





Safety instructions

FOREWORD

Country-specific laws, standards and applicable codes of practice must be complied with for the safe deployment and use of our products. They constitute part of the obligations of employers and employees in relation to occupational health and safety. The employer's obligation to ensure the stability of formwork structures throughout all build phases is one of the resultant obligations. This includes the basic assembly, disassembly and transport of these structures and their component parts. The overall structure must be checked during the assembly process and on completion of assembly.

INSTRUCTIONS FOR ASSEMBLY AND USE (IA&U)

Formwork is technical equipment intended exclusively for industrial/commercial use. Work involved in use as intended by the manufacturer must be undertaken only by competent and qualified personnel. The present Instructions for Assembly and Use (IA&U) manual is an integral part of the formwork structure. It contains safety instructions, information about standard procedures and intended use, and also a description of the system. It also contains drawings and explanatory illustrations.

AVAILABILITY OF THE INSTRUCTIONS FOR ASSEMBLY AND USE

It is an obligation for the contractor to ensure that the IA&U manual(s) made available by RINGER is/are present on the jobsite and is/ are accessible to the employees and that the employees are familiar with the content.

INSTRUCTIONS

The instructions for function and use ((standard procedure) in this manual must be followed strictly. Deviations require separate verification by the contractor in compliance with the relevant laws, standards and safety codes.

ILLUSTRATIONS

Some illustrations in this manual show the situation during formwork assembly and therefore depict structures that are not always complete from the safety point of view. Safety equipment not shown in these depictions must nevertheless be used by the contractor in every instance.

STORAGE AND TRANSPORT

Due consideration must be given to the special requirements of formwork in relation to transport operations and storage.

CHECK OF MATERIALS

On its arrival at the jobsite and again before each use, the formwork material has to be checked to ensure that it is in perfect condition and fully functional. Alterations and modifications are not permitted. All connectors must be checked to ensure that they are secure and fully functional. This is necessary particularly after exceptional events (e.g. severe winds/thunderstorms).

SPARE PARTS AND REPAIRS

Use only the manufacturer's original parts as spare parts. Repairs must be carried out by RINGER or authorised facilities.

USE OF OTHER-MAKE PRODUCTS

Mixing RINGER systems with other-make parts involves risks that can lead to injury to persons and damage to property.

HAZARD ASSESSMENT

The contractor is responsible for drawing up, documenting, implementing and continually updating a hazard assessment for every jobsite. Contractor's employees are legally bound to implement the resulting measures in a manner that is compliant with all applicable laws. The Instructions for Assembly and Use constitute one of the bases for drawing up the hazard assessment.

ASSEMBLY INSTRUCTIONS

The contractor is responsible for drawing up written assembly instructions. The Instructions for Assembly and Use constitute one of the bases for drawing up these assembly instructions.

CHANGES

We reserve the right to make changes in the interests of technical progress.



System 2000 Wall formwork





2 Product Description

Our AL2000 and ST2000 framed formwork are complete formwork systems with a wire-ranging area of application. The formwork systems are suitable both for handset usage and for the crane-lifting of large gangforms.

For both systems, the maximum permissible fresh-concrete pressure is **60 kN/m²**.

Assuming compliance with the surface flatness tolerance specified in DIN 18202, Table 3, line 6, the maximum permissible fresh-concrete pressure is **50 kN/m²**

The panel grid with 8 panel widths (25–90 cm) and 3 panel heights (135/270/300 cm) offers numerous possible combinations, so the formwork system adapts perfectly to all site requirements.

FRAME

The frames of the **ST2000** panels are strong, torsionally rigid rolled profiles made of fine-grained steel. The profile height is 100 mm. The surface is galvanised to ensure durable surface protection. This makes the panels easy to clean.

The frames of the **AL2000** panels are strong, torsionally rigid aluminium box-section profiles. They are extremely light and durable.

FORMWORK SHEETING

The sheeting is riveted to the frame. The panels are available with the following sheeting:

- Phenolic-resin coated sheeting

Birch plywood, 11 layers glue-bonded, film-coated on both sides

- Plastic-coated sheeting

Birch plywood, 11 layers glue-bonded, plastic coating 1.8 mm thick on both sides

- Alkus

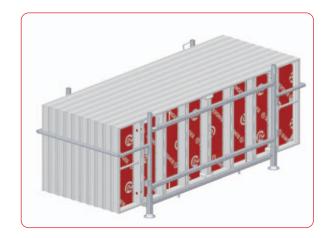
Extremely durable all-plastic sheet

EFFICIENCY ON THE JOBSITE

The panels of the AL2000 and the ST2000 systems are fully compatible with each other, making for extra-high flexibility on the jobsite.



Transport and storage



Consult the data sheet for the stacking pallet!

Stacking pallet

The system 2000 panels are transported in the space-saving stacking pallet. The frames can be stacked up to 4 high. Panels of different widths can be stored in combination. 600 kg per stacking pallet is the maximum permissible total weight of the panels. Loadable for example with

- 10 AL2000 panels 270/90

- 10 ST2000 panels 270/45



Panel widths 50-90 cm 2 stirrups Panel widths 25-45 cm stacked on top of each other 4 stirrups



Max. permissible load 600 kg!

UNI container

Ideal for transporting and storing small items, available with or without flap.



Length 1.2 m Width 0.8 m Height 0.78 m Load-bearing capacity 1500 kg



Consult the data sheet!

Accessories box

Ideal for transporting and storing small items used for formworking.



Length 1.89 m Width 1.11 m Height 0.63 m Load-bearing capacity 1500 kg

Consult the data sheet!



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Repositioning by crane





Max. permitted load Crane hook AL, art. No. 408V5 1600 kg

Crane hook AL, art. No. 408V4 1000 kg

Distinction by type plate, see Page 10

Consult the operating instructions of the crane hook AL!

Crane hook

Individual panels or large gang-forms can be repositioned safely with the crane hook AL. The crane hook has to be hooked into the profile of the formwork panel in the area of the inter-panel joint or at the stiffeners. This is done by lifting the clamping bar by hand.

When panels turned on their side are to be lifted, make sure that the direction of loading is correct. Before lifting the formwork panels with the lifting equipment, make sure that the formwork profile is fully seated in the recess of the crane hook AL and that the bottom edge of the clamping bar is seated against the formwork profile. Otherwise there is a risk of the crane hook AL disengaging.

Operation

Only competent persons (crane operator, crane rigger) are permitted to operate the equipment.

- Push the grip of the clamping part up against spring force
- Position the crane hook AL on the frame profile of the formwork panel. This is easy to do because the centre of gravity is in the middle.
- Release the grip and shake the crane hook AL slightly to make sure that it is securely seated on the edge profile. Choose the position on the edge profile so that the panel or gangform will hang vertically when lifted clear.
- Engage the hook of the slewing crane/construction crane in the suspension link and lift the load. The crane should be moved in such a way that the hook's direction of loading is always upward (crane cable as vertical as possible by following the curve of movement of the panel/gang-form).

Installation

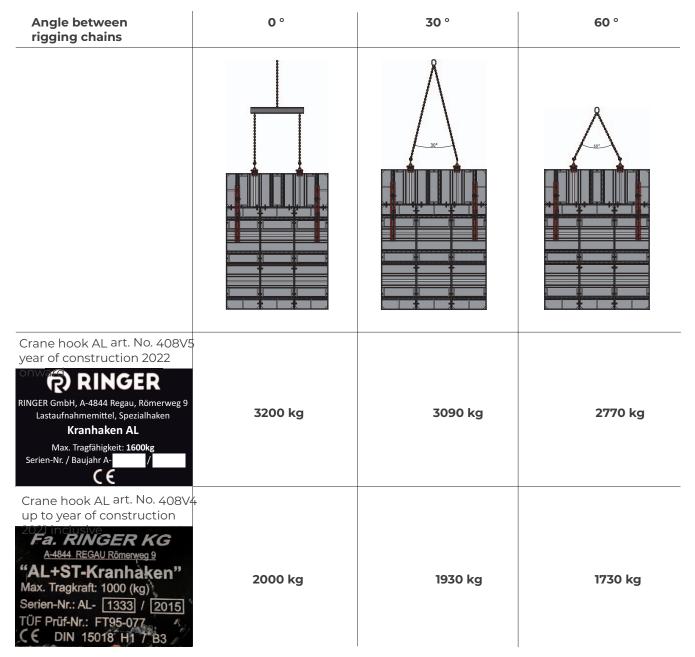
To prevent slippage, position the crane hook AL either centred (to lift a single panel) or at the inter-panel joint (to lift a gang-form). Suspend the gang-form symmetrically (centre-of-gravity position). Vertically stacekd gang-form pre-assembled flat on floor level need walers 150 as stiffeners to prevent the gang-form from buckling in on itself as it is being raised.

Repositioning by crane

Use of more than one crane hooks

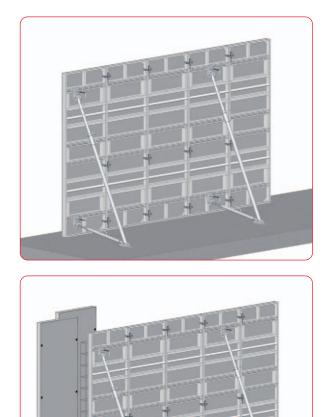
Single panels - and more particularly gangforms - can be moved using 2 crane hooks at the same time. Make sure that the spread angle of the chains does not exceed 60° (see sketch, bottom right). This condition is satisfied when the chain length is at least equal to the horizontal distance between the crane hooks AL. Attach the hooks in such a way that they cannot slip sideways toward the middle (secured at inter-panel joint, at the shaped tubes or at the

cap and function profiles for lifting panels turned on their side). When a load spreader is used the working load limit of 1600 kg can be assumed for both hooks if the hooks are loaded vertically or within a maximum deviation of 7.5 ° from the vertical. When 2 rigging chains are attached to one hook of the slewing crane/construction crane, the maximum permissible load is reduced as a factor of the angle between the chains:



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Setting up the formwork and pouring the concrete



Setting up the formwork

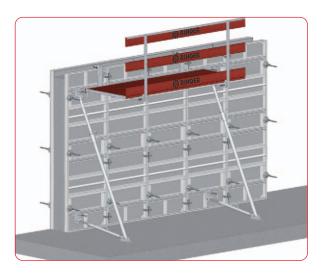
Single the panels and spray the sheeting of each panel with RINGER special release agent. This will make it easier to detach the panels from the concrete when the formwork is being stripped out and it also makes the panels easier to clean after stripping. In addition, it improves the appearance of the finished concrete surface. Crane-lift the panels or gang-forms to the correct position and secure the push-pull props to the formwork first and then to the floor.



Do not unsling panels or gang-forms from the crane until the push-pull props are secured and/or appropriate measures have been implemented to secure the formwork against wind loads!

When the panels have been precision-adjusted, the next panels or gang-forms can be brought into position. Using suitable accessoirs, connect the panels in accordance with the specifications.

After the reinforcement has been installed, erect the closing formwork and install the tie rods.

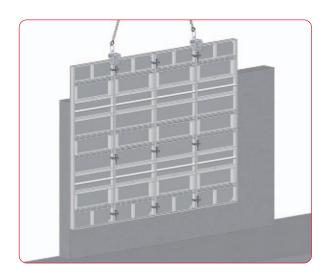


Pouring the concrete

The permissible fresh-concrete pressure is 60 kN/m² in accordance with DIN 18218. Do not exceed the maximum permissible pouring rate when pouring the concrete. Consult DIN 4235 Part 2 for instructions on compacting the concrete by vibrating.

Immediately after the concrete has been poured, clean the rear of the formwork with water.

Stripping out the formwork



Stripping out the formwork

The job of stripping out the formwork can begin when the concrete has hardened to the required minimum strength.

- Secure the opposing formwork so that it cannot tip over, then loosen the combi plates and remove the tie rods
- Loosen the clamps and remove the formwork panels
- Remove concrete residues from the formwork and spray the formwork with RINGER special release agent

Assuming compliance with the working load limits, entire gang-forms complete with pushpull props, scaffolding brackets or pouring platforms can be repositioned.



Do not use the crane to forcibly separate the gang-form from the concrete!

Cleaning and care

Before pouring

- Lightly spray the formwork sheeting with RINGER release agent

After pouring

- Immediately remove residues of fresh concrete from the back of the formwork sheeting, Combi Plates and tie rods with water

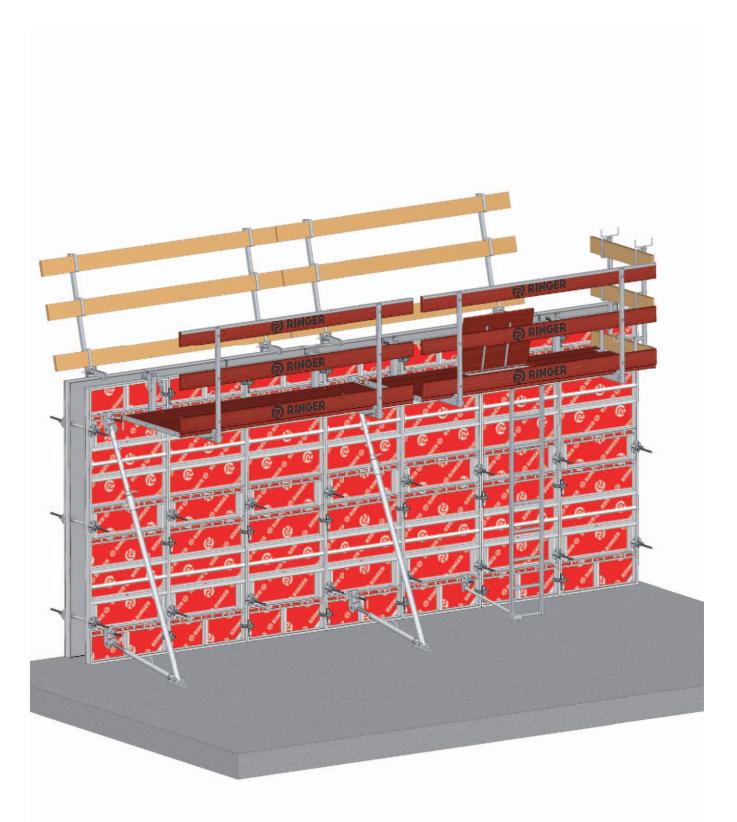
After stripping the formwork

- Clean the formwork sheeting with scrapers or if necessary with a high-pressure spray cleaner. Do not use wire brushes, rotary grinding wheels or other, similar tools.

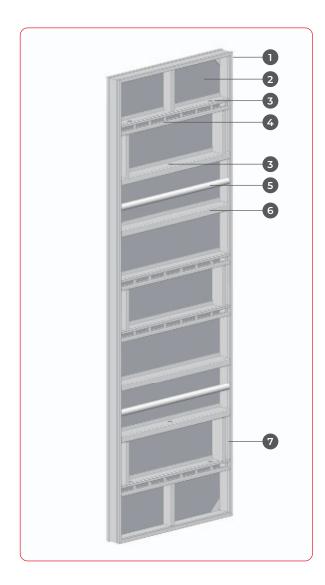


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3 Product overview



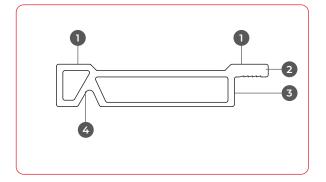
AL2000 The panel



The panel in detail

The AL2000 panels have a strong, torsionally rigid box-section profile. The panels are suitable for a maximum fresh-concrete pressure of 60 kN/m^2 .

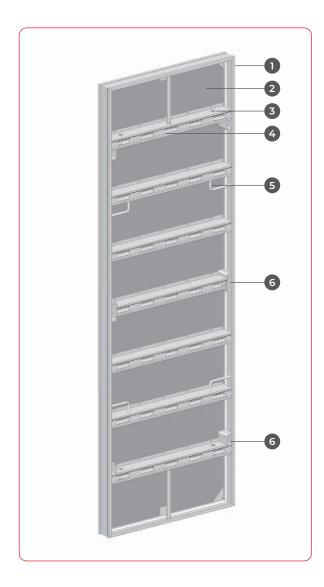
- 1 Frame profile
- **2** Formwork sheeting
- **3** Suspension holes for scaffolding brackets
- **4** Functional profile
- **5** Carrying handles
- 6 Cap profile
- 7 Form-tie point



Cross-section of frame profile

- 1 Contact surface
- 2 Nub for edge protection
- **3** Seating surface for formwork sheeting
- **4** Bearing surface for connectors

ST2000 The panel

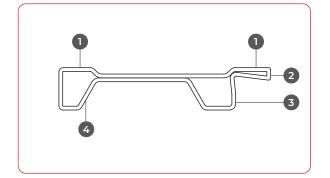


The panel in detail

The profiles of the framed panel are made of rolled fine-grained steel. The panels are suitable for a maximum fresh-concrete pressure of 60 kN/m^2 .

All crossbars are function profiles to maximise flexibility of use.

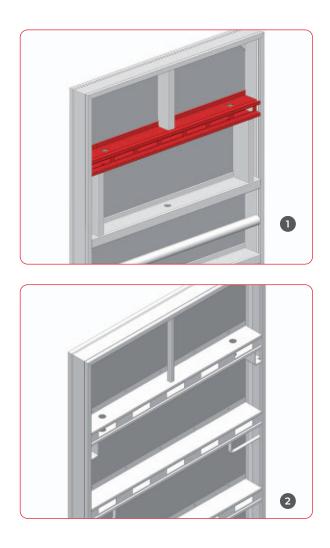
- 1 Frame profile
- **2** Formwork sheeting
- **3** Suspension holes for scaffolding brackets
- **4** Functional profile
- 5 Handle
- 6 Form-tie point



Cross-section of frame profile

- 1 Contact surface
- 2 Nub for edge protection
- **3** Seating surface for formwork sheeting
- **4** Bearing surface for connectors

Functional profile



Functional profiles

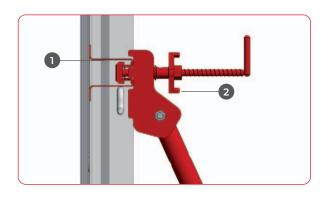
Function profiles that form the seating surface for the formwork sheeting are welded in to stiffen the frame.

The shape of the function profiles makes it easy to secure accessories such as push-pull props and adapters for pouring platforms. In addition, the two outer functional profiles have holes to accommodate scaffolding brackets.

All crossbars of the ST2000 panels are functional profiles.

1 AL2000 panel 2 ST2000 panel

Functional profile



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Attachment of push-pull props

Functional profile
 Push-pull prop

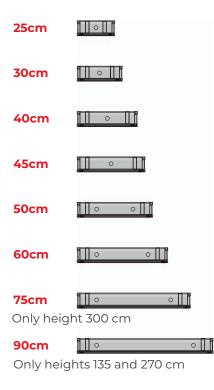
Engagement of scaffolding brackets

- 1 Functional profile
- 2 Scaffolding bracket

Attachment of walers See Page 21



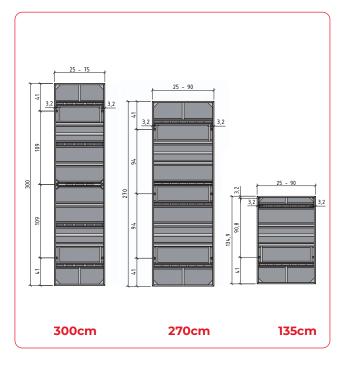
AL2000 panel and form-tie grids



Panel heights and widths

The panel dimensions enable any floor plan to be formed. The panels can be combined either upright or turned on their side

The panels are available in a range of 8 widths and 3 heights. The 90-cm wide panels are available only in the heights of 135 cm and 270 cm. The 75-cm wide panel is available only in the height of 300 cm.



Form-tie grid

Panels 135 cm high have 4 form-tie holes. Panels 270 cm and 300 cm high have 6 form-tie holes.



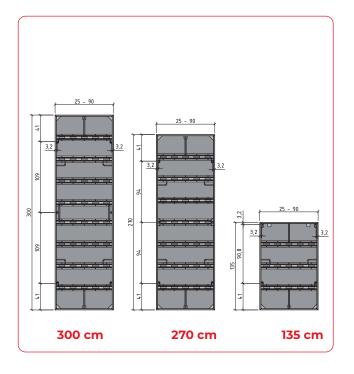
ST2000 panel and form-tie grids



Panel heights and widths

The panel dimensions enable any floor plan to be formed. The panels can be combined either upright or turned on their side.

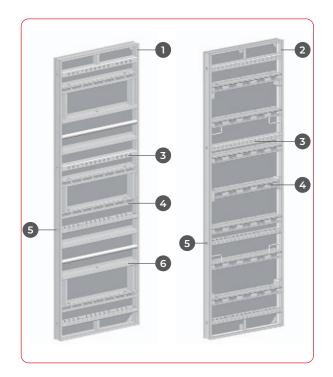
The panels are available in a range of 8 widths and 3 heights. The 75-cm wide panel is available only in the height of 300 cm.



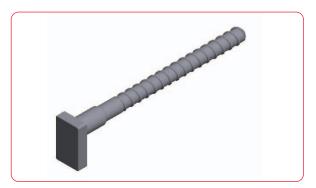
Form-tie grid

Panels 135 cm high have 4 form-tie holes. Panels 270 cm and 300 cm high have 6 form-tie holes.









Uni panel

The 5-cm end-to-end hole grid of the adjustment waler permits the formwork to be set up for wall thicknesses from 20 cm to 80 cm. The uni panel is ideal for:

- Columns
- Corners
- Stop-ends
- Wall junctions

The spacing of the form-tie holes matches that of the design-identical System 2000 panels.

1 AL2000 uni panel

Panel width 90 cm Heights 270/135 cm

- 2 ST2000 uni panel Panel width 90 cm Heights 300/ 270/135 cm
- 3 Adjustment waler
- 4 Functional profile
- 5 Cross borehole
- 6 Cap profile

Form-tie material

- 1 Spacer tube with plugs
- 2 Tie rod
- 3 Combi plate galvanised

Universal fixing bolt

For connecting panels through the cross boreholes in the short sides, e.g. for colums, stopends or corners formed using uni panels.



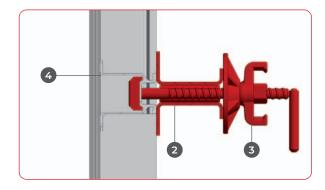


Waler

Vertical stacking with panels 90cm wide or more requires the installation of walers 150 to stiffen the gang-form.

Walers 100 can be used at infills or casting-cycle junctions.

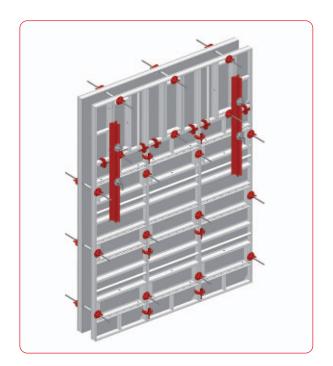
- 2 Waler 150
- 3 RS clamp
- **4** Functional profile



Installation

Walers are secured to the functional profiles by RS clamps. The waler can also be additionally tied by the form ties.

The waler ensures optimum transfer of forces in the gang-form. They framed panels are aligned flush with each other by the walers.





Quick wedge clamp galvanised

System 2000 framed panels can be interconnected with Quick wedge clamps. They are self-closing, which means that the clamp can be secured with one hand. A blow with a hammer establishes the friction-locked connection.

Panels upright Panel height 135 cm 2 clamps Panel height up to 300cm 3 clamps



Panels turned on their side Panel width up to 50 cm 1 clamp Panel width up to 90 cm 2 clamps



See the section headed "Forming corners" for the number of Quick wedge clamps needed at corners



Adjustable clamp galvanised

Adjustable clamps are ideal for inter-panel connections at infills up to max. 20 cm and at casting-cycle junctions.



Panel height up to 300 cm 3 clamps

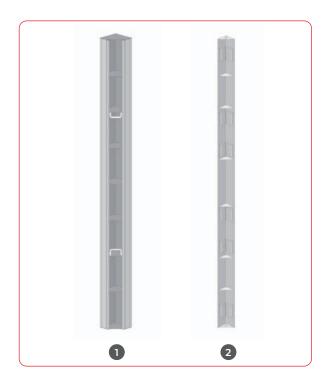


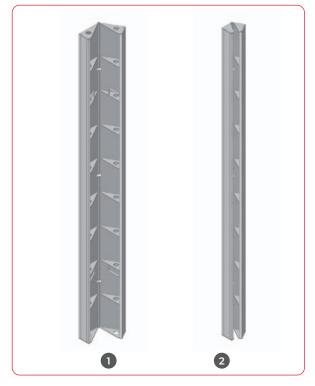
Stop-end coupler

Stop-end couplers can be used for forming any wall thickness up to 40 cm.



Panel height up to 270 cm 3 stop-end couplers Panel height 300 cm 4 stop-end couplers





System 2000 inside and outside corners

The appropriate corner panels are an efficient way of forming corners.

- 1 System 2000 inside corner Heights 300/270/135 cm Width 20 cm
- 2 System 2000 outside corner Heights 300/270/135 cm

System 2000 hinged corner

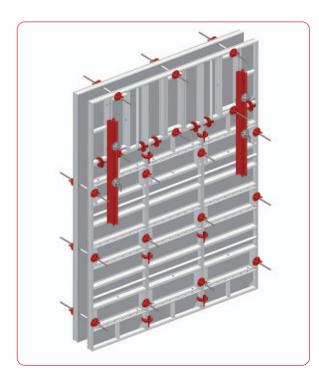
System 2000 hinged corners can be used to form acute or obtuse-angled corners in the range from 80 $^\circ$ to 180 $^\circ.$

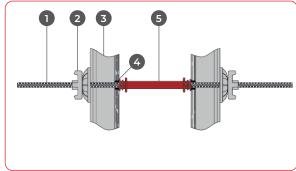
- 1 System 2000 hinged inside corner Heights 300/270/135 cm Wing length 10 cm
- 2 System 2000 hinged outside corner Heights 300/270/135 cm

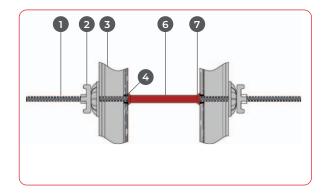
Wing length 10 cm



Tie-rod system







Form-tie components

The System 2000 panels are tied with tie rods DW15 and 2 combi plates per tie rod. Use only approved form-tie components. Whenever panels of different widths are tied, always tie through the wider panel.



Do not heat or weld tie rods - risk of breakage!

Number of form ties per inter-panel joint



Panel height 135 cm 2 form ties in the vertical Panel height 270/300 cm 3 form ties in the vertical

Spacing

Spacers can be used to space the opposing formwork panels the correct distance apart. Alternatively, a spacer tube can be cut to length and installed with 2 chuck cones. Seal all unused form-tie points with uni plugs.

- 1 Tie rod
- 2 Combi plate
- 3 System 2000 panel
- 4 Form-tie gland
- 5 Spacer
- 6 Spacer tube
- 7 Pressure cone

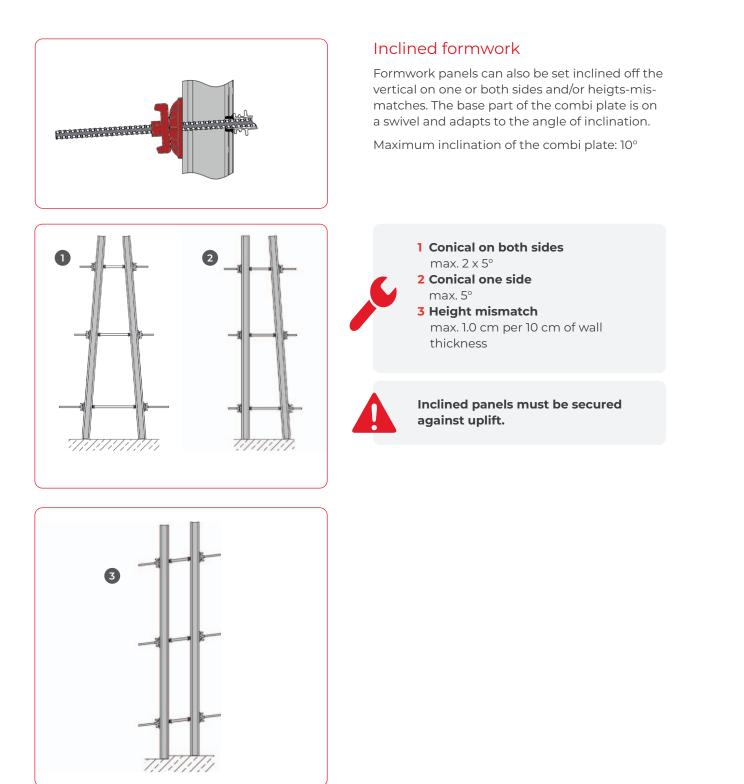
Form-tie loads



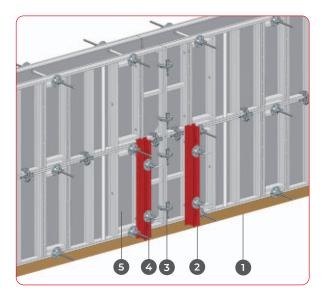
Max. permitted concrete pressure 60 kN/m² Max. tensile force 90 kN



Tie-rod system



4 Accessories and use Panels turned horizontal

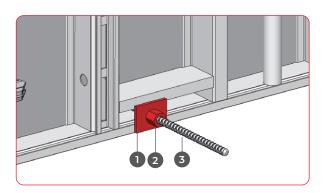




Whenever System 2000 panels are installed horizontal, there are two possible procedures for tying close to the floor.

One possibility is to use a squared timber as sleeper. The panels are tied using combi plates in the usual way. Walers are used to secure formwork and squared timber against slippage.

- **1** Squared timber
- 2 Waler 100
- 3 Quick wedge clamp
- 4 RS clamp
- 5 System 2000 panel



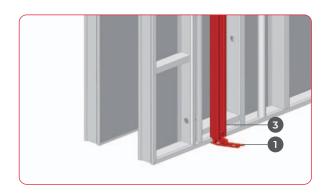
Without squared timber

Whenever a framed panel is set directly on the floor, counter plates KL in combination with hexagon nuts DW15 can be used instead of combi plates at bottom level.

- 1 Counter plate KL
- 2 Hexagon nut DW15
- 3 Tie rod DW15
- 4 Quick wedge clamp
- 5 System 2000 panel

Foundation formwork

5



Panels turned on horizontal

Framed panels can be turned on their side to form foundations.

Advantages:

- The use of perforated tape and foundation clamps avoids form-tie holes in the concrete
- Saves space in narrow excavations



Perforated tape adjustable in 5-cm grid. Load max. 12 kN/perforated tape Perforated tape length = wall thick-

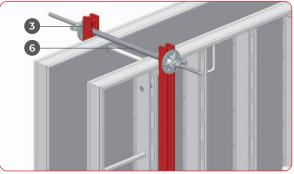
Pouring height up to 90 cm

- **1** Perforated metal strip
- 2 System 2000 panel
- **3** Foundation clamp
- 4 Tie rod DW15

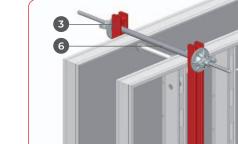
ness + 45 cm

- **5** Combi plate
- 6 Spacer

- Spacing of anchor points < 1.35 m



We recommend the use of spacer tubes to prevent dirtying of the tie rods when the concrete is being poured



Closure



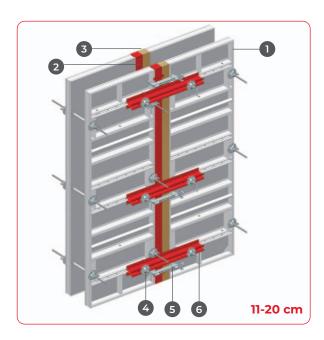
Compensation panel

Closures can be made with the compensation panel and also with fitting timbers. Compensation panels are available in the following widths:

- Width 2/3/5/10 cm
 Heights 300/270 cm
 Width 5 cm
- Height 135 cm

Closure 0 to 10 cm

- 1 System 2000 panel
- 2 System 2000 compensation panel
- **3** Adjustable clamp

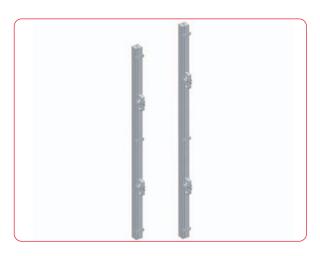


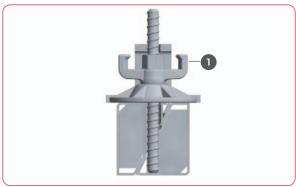
Closure 11 to 20 cm

- 1 System 2000 framed panel
- 2 System 2000 compensation panel
- **3** Fitting timber
- 4 RS clamps
- **5** Adjustable clamp
- 6 Waler 100

Two or more compensation panels can be combined to make up the desired closure width.

Stripping panel





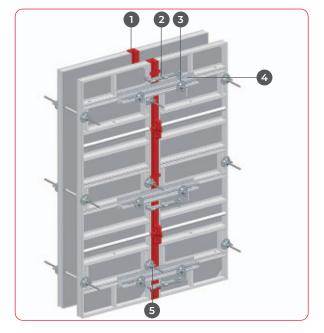
Stripping panels

To facilitate the job of stripping out the formwork in tight spaces such as elevator shafts, stairwells, etc.

> **Stripping panel 10 cm** Heights 300/270 cm

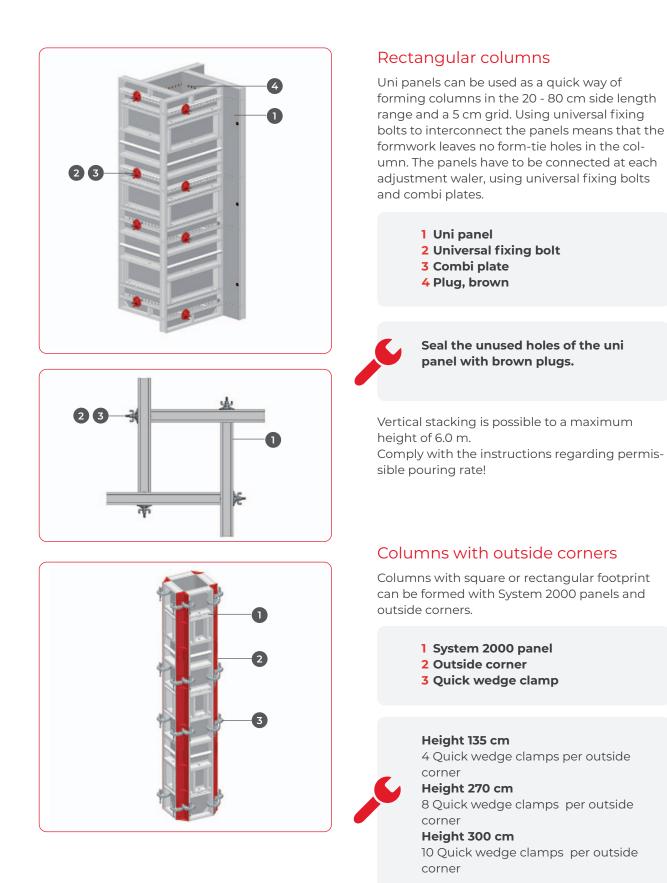
Backing off the wingnut counterplate separates the two halves of the stripping panel. This makes the first panel in the gang-form much easier to strip out.

1 Wingnut counterplate



- 1 Stripping panel
- 2 Adjustable clamp
- 3 RS clamp
- 4 Waler 100
- **5** Tie rod with combi plate

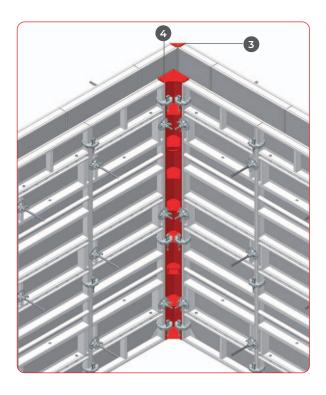
Columns with uni panel



30 Assembly instructions AL2000/ST2000

RINGER

90° corner with System 2000 corners



System 2000 inside and outside corners

The System 2000 inside corner is the basic element for forming corners. It is available in heights of 300/270/135 cm. It combines with the System 2000 outside corner for fast forming of 90 ° corners in the 5-cm wall-thickness grid.



For outside corners: Height 135 cm 4 Quick wedge clamps Height 270 cm 8 Quick wedge clamps Height 300 cm 10 Quick wedge clamps

C

For inside corners: Height 135 cm 2 Quick wedge clamps per side Height 300/270 cm 3 Quick wedge clamps per side

Since there is a large number of framed panels to choose from, the common wall thicknesses can all be formed without extra closures.

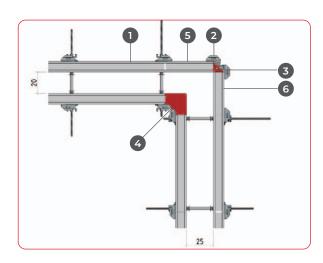


Width of the framed panel adjacent to the outside corner = wall thickness + 20 cm

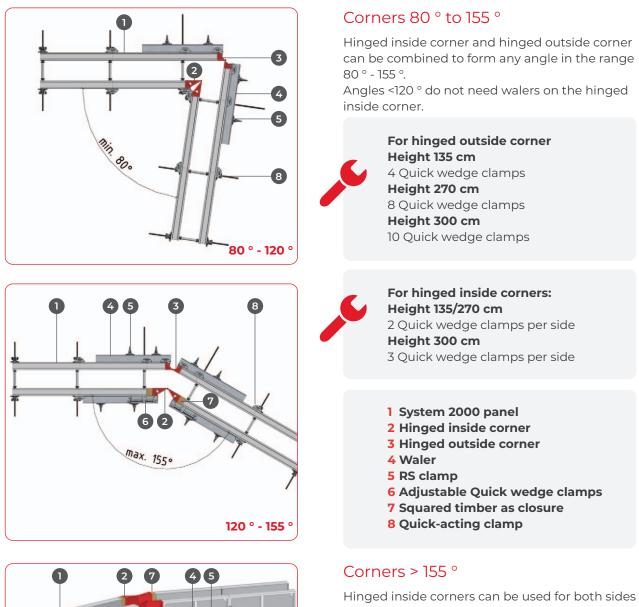
Transitions between wall thicknesses

Corner solutions that also involve a change in wall thickness can be formed by combining System 2000 panels with the appropriate corner elements.

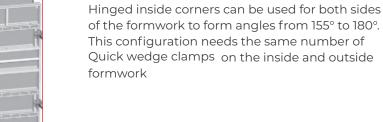
- 1 System 2000 panel
- 2 Quick-acting clamp
- **3** Outside corner
- 4 Inside corner
- 5 Panel 45 cm (wall thickness+20 cm)
- 6 Panel 40 cm (wall thickness+20 cm)



Acute and obtuse-angled corners

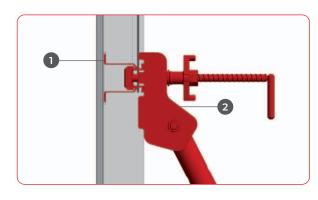


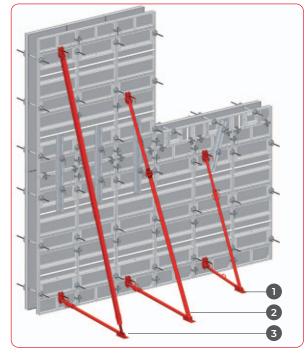
>155 °



RINGER

Plumbing accessories





Loads

Туре	Range of adjustment	Max. com- pressive load	Max. ten- sile load
Size 1	2.15 - 3.60 m	12 kN	18 kN
Size 2	3.10 - 5.50 m	20 kN	30 kN
Size G	3.55 - 5.90 m	30 kN	40 kN
Extension size G	6.20 - 8.40 m	20 kN	40 kN

Push-pull props

The push-pull props are used to plumb the formwork. They ensure stability and brace the formwork against wind loads The push-pull props are designed to attach to the function profiles of the System 2000 panels.

Function profile
 Push-pull prop



The push-pull props have to be anchored to the floor in such a way that they can withstand tensile and compressive loads. The stability of the formwork gang and its ability to withstand wind loads must be ensured in every build phase!

- 1 Push-pull prop size 1
- 2 Push-pull prop size 2
- 3 Push-pull prop G
 - Push-pull prop G with extension

Anchoring

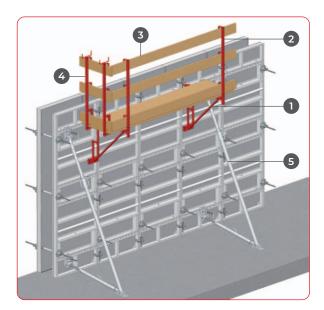
Secure the push-pull props to the floor with Hilti coils and coil anchors 16 x 90mm or Hilti HKD M16 anchors (follow the directions in the manufacturer's installation instructions).

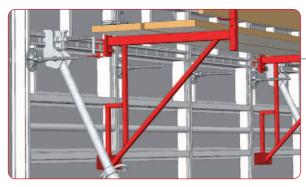
Number of push-pull props

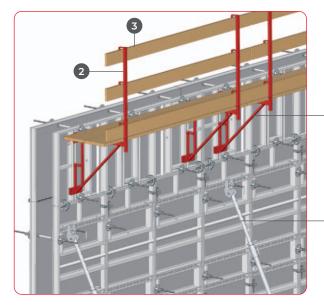
Example, gang-form 2.70 m wide

Formwork height [m]	Size 1	Size 2	Size G	Size G with extension
4.00	1			
5.40		1		
6.00		1		
6.60			1	
7.20	1			1
8.10		1		1

Working platforms







Scaffolding bracket

Light scaffolds can be attached to the formwork by means of scaffolding brackets. The brackets can be engaged in upright panels or in panels turned on their side. Each bracket has to be secured against lift-out by insertion of the safety pin.



Width of bracket 75 cm Centre-to-centre distance of brackets max. 1.5 m Permitted load 200 kg/m²

Platforms that do not continue all the way round the formwork have to be closed at each end by end protection consisting of chest-high board, waist-high board and toeboard! Attachment by guardrail clamps.

- 1 Scaffolding bracket
- 2 Railing for bracket
- 3 Guardrail board min. 15x2.4 cm
- 4 Guardrail clamp
- 5 Push-pull prop

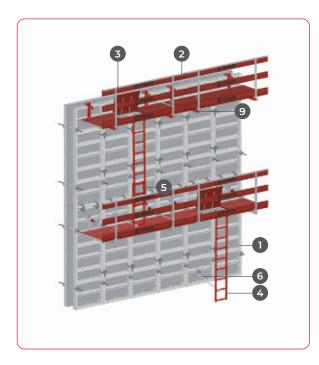
Use on formwork panels turned horizontally

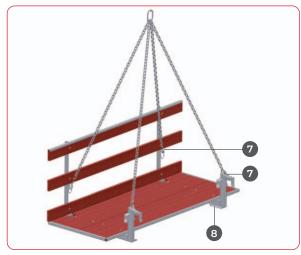
When formwork panels are installed horizontally, the scaffolding brackets are hooked into the function profile.

All components must be inspected for visible defects prior to use. Damaged material must be withdrawn from use. Fall hazard!



Working platforms





All components must be inspected for visible defects prior to use. Damaged material must be withdrawn from use. Fall hazard!



For more details see the datasheet of the concreting platform "L".

Concreting platform "L"

Concreting platform "L" is a fully pre-assembled working platform The platform can be either hooked into the function profile of the formwork or hooked into the top of the formwork.



Length of platform 2.7 m Width of platform 1.0 m Height of guardrail 1.0 m Centres between brackets max. 1.86 m Permitted load 200 kg/m²

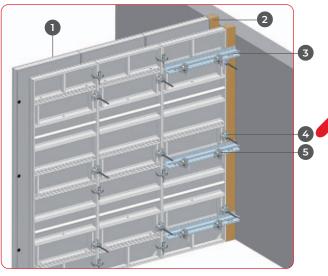
Step-by-step instructions for installation

- Raise the guardrail and fix it in position with pins secured by linchpins
- Attach the crane rigging to the two safety bows and the two eyelets on the guardrail with a 4-part chain
- Lift the platform into position and hook it into the edge profile.
- Disengage the lifting tackle and engage the safety bows
- if needed attach the ladder to the plattform and secure it with safetybolts. attach the spacer bracket to the panel and the ladder and secure it with safetybolts
 - 1 System 2000 panels
 - 2 Concreting platform "L" 2.7 m, complete
 - **3** Concreting platform "L" 2,7m with hatch and ladder
 - 4 Ladder 270 galvanized
 - 5 Rise Ladder 330 galvanized
 - 6 Spacer bracket
 - 7 Attachment points for lifting tackle
 - 8 Holder for H20 beam when panels are turned horizontally placed
 - 9 Railing lock

For horizontal formwork, a H20 beam with a length = 1.8m must be inserted between the brackets!



5 Areas of use T-Wall connections



with squared timber

- No walers are necessary for squared timbers from 3 to 5 cm thick.



Panel height 135 cm 2 walers 100 per side 2 RS clamps per side

Panel height 270/300 cm 3 walers 100 per side 6 RS clamps per side

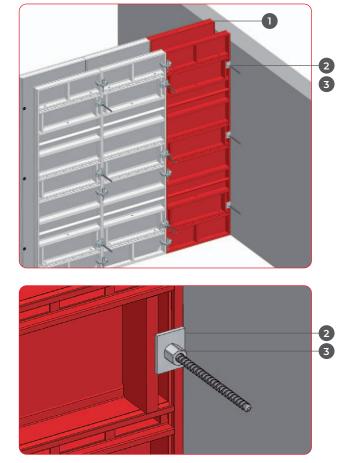
System 2000 panels
 Squared timber (min. 3 cm)

- **3** Waler 100
- 4 Combi plate
- 5 RS clamp

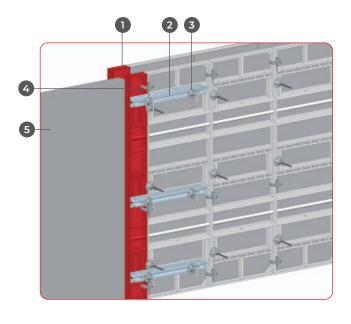
without squared timber

When wall T-junctions are formed without squared timbers, instead of the combi plate use the counter plate KL and a hexagon nut DW15.

- 1 System 2000 panels
- 2 Counter plate KL
- 3 Hexagon nut DW15



In-line connections



with System 2000 panel

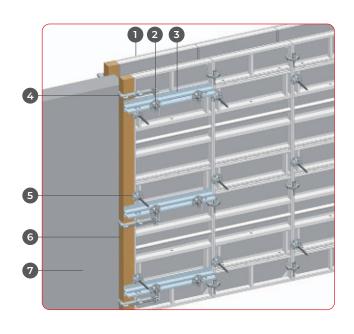
In-line junction to an existing wall can be formed with System 2000 panels or squared timbers.

- 1 System 2000 panels
- 2 Waler 100
- 3 RS clamp
- 4 Quick wedge clamp
- **5** Existing wall

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Panel height 135 cm 2 walers 100 per side 4 RS clamps per side

Panel height 270/300 cm 3 walers 100 per side 6 RS clamps per side



with squared timber

- 1 System 2000 panels
- 2 RS clamp
- **3** Waler 100
- 4 Adjustable clamp
- 5 Combi plate
- 6 Squared timber (max. 10 cm wide)
- 7 Existing wall

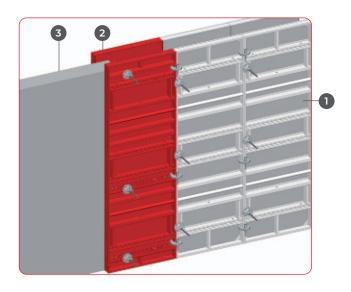
Panel height 135 cm

2 walers 100 per side 4 RS clamps per side 2 Quick wedge clamps per side

Panel height 270/300 cm

- 3 walers 100 per side
- 6 RS clamps per side
- 3 Quick wedge clamps per side

In-line connections





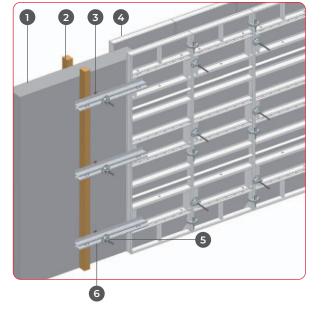
In-line junctions can also be formed using uni panels.

- System 2000 panels
 Uni panel
- 3 Existing wall

Panel height 135 cm 2 tie rods with combi plates

Panel height 270/300 cm 3 tie rods with combi plates

through existing form-tie hole



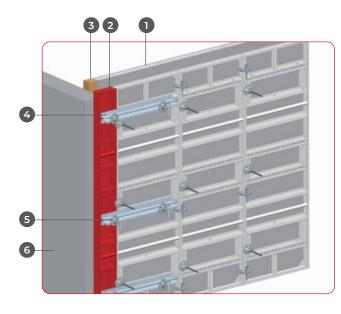
Existing wall
 Squared timber
 Existing form-tie hole
 System 2000 panel
 Tie rod with combi plate
 Waler

Panel height 135 cm 2 walers 100 per side 2 tie rods with combi plates

Panel height 270/300 cm 3 walers 100 per side 3 tie rods with combi plates

RINGER

Corner junctions



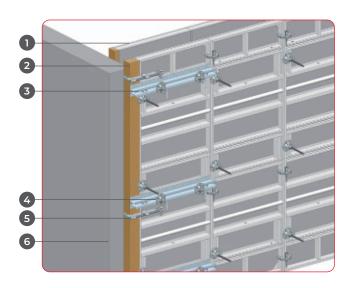
with System 2000 panel

A corner junction to an existing wall can be formed with System 2000 panels or squared timbers.

- 1 System 2000 panel
- 2 System 2000 panel, width 25 cm
- **3** Squared timber
- 4 Waler 100
- 5 RS clamp
- 6 Existing wall

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Panel height 135 cm
2 walers
4 RS clamps
Panel height 270/300 cm
3 walers
6 RS clamps



with squared timber

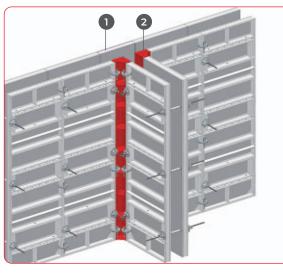
When squared timbers up to 5 cm thick are used to form corner junctions, no walers are needed. In all other cases:



Panel height 135 cm
2 walers
4 RS clamps
Panel height 270/300 cm
3 walers
6 RS clamps
To secure the squared timbers
3 adjustable clamps

- 1 System 2000 panels
- 2 Squared timber
- 3 Waler 100
- 4 RS clamp
- 5 Adjustable clamp
- 6 Existing wall

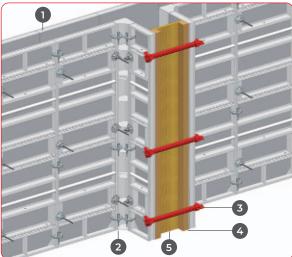
T-junctions and pilasters





T-shaped wall footprints can be formed with inside corners.

System 2000 panels
 Inside corner



Pilaster

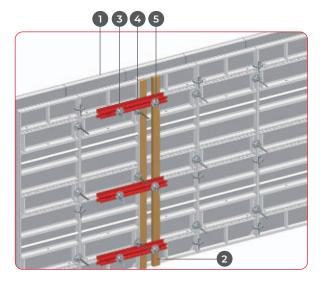
Pilasters can be formed with inside corners in combination with System 2000 panels. The stopend is formed with squared timbers and a strip of formwork sheeting

- 1 System 2000 panel
- 2 Inside corner
- 3 Stop-end coupler
- **4** Squared timber
- 5 Formwork sheet



Panel height 135 cm 2 stop-end couplers Panel height 270 cm 3 stop-end couplers Panel height 300 cm 4 stop-end couplers

Wall offset



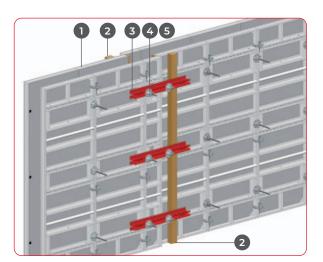
Wall offset on one side

A wall offset up to a maximum of 10 cm in the gang-form is possible. If the wall is short, additional support is necessary



Panel height 135 cm 2 walers Panel height 270/300 cm 3 walers

- System 2000 panels
 Squared timber
- 3 RS clamp
- 4 Waler 100
- 5 RS clamp, long



Wall offset 0-8 cm

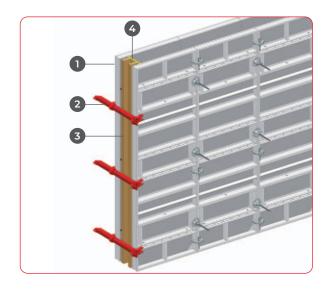
A wall offset up to max. 8 cm is possible with this method. The holes in the panel sides open toward the concrete in the offset have to be sealed with suitable plugs, or alternatively a narrow strip of wood can be inserted.



Panel height 135 cm 2 walers per formwork side Panel height 270/300 cm 3 walers per formwork side

- 1 System 2000 panels
- 2 Squared timber
- 3 Waler 100
- 4 Tie rod with combi plate
- 5 Combi plate

Stop-end formwork



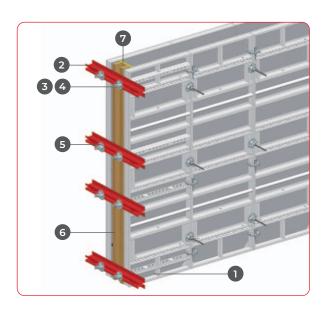
with stop-end couplers

This is a method for forming stop-ends without form-tie points up to a wall thickness of 45 cm (stepless variation of wall thickness).



Panel height 135 cm 2 stop-end couplers Panel height 270 cm 3 stop-end couplers Panel height 300 cm 4 stop-end couplers

- 1 System 2000 panels
- 2 Stop-end coupler
- **3** Squared timber
- 4 Formwork sheet



with waler

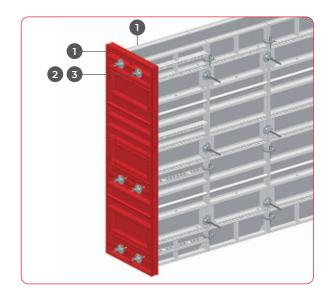
The walers are installed with stop-end anchors or universal fixing bolts They have to be centred between 2 cross profiles to ensure uniform load distribution.



Panel height 135 cm 2 walers Panel height 270 cm 3 walers Panel height 300 cm 4 walers

- 1 Uni panel or 300cm Standard panel
- 2 Waler 100
- **3 Universal fixing bolt** or
- 4 System 2000 stop-end anchor
- 5 Combi plate
- 6 Squared timber
- 7 Formwork sheeting

Stop-end formwork



with uni panel

The uni panel permits stop-ends to be formed for wall thicknesses in the 5-cm grid.

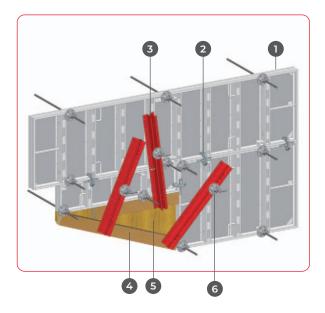


Panel height 135 cm 4 anchorages Panel height 270/300 cm 6 anchorages

1 Uni panel or 300cm Standard panel

- 2 Universal fixing bolt
- **3** Combi plate

Stepless height offset and infills



Any combination of System 2000 panels

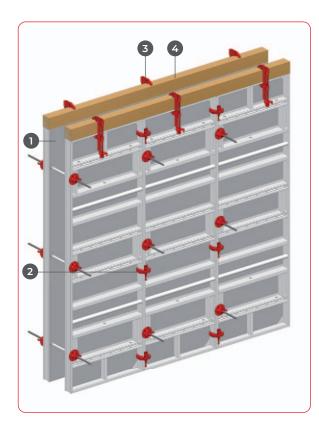
The edge profile of the System 2000 panels permits any combination of panels of different sizes, independently of a fixed grid.

So steps, gradients and irregularities can be formed without significant additional work.

Infills and gradients are easily managed with walers and RS clamps. Formwork panels of suitable size can be used together with squared timbers and strips of formwork sheeting.

- 1 System 2000 panels
- 2 Quick-acting clamp
- 3 Waler 100
- **4** Squared timber
- **5** Formwork sheets
- 6 RS clamps

Vertical stacking of panels



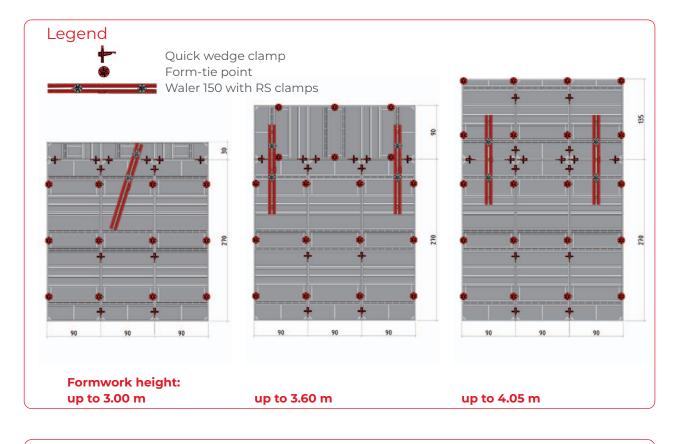
Upward extension with squared timber

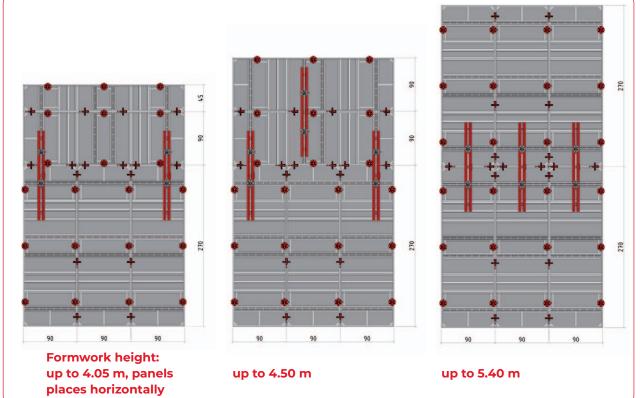
If pour high exceeds the height of the System 2000 panel used, the formwork can be extended up to 10 cm upward with squared timber. Secure the squared timbers to the frame with adjustable clamps.

- 1 System 2000 panels
- 2 Quick wedge clamp
- **3** Adjustable quick-acting clamp
- **4** Squared timber

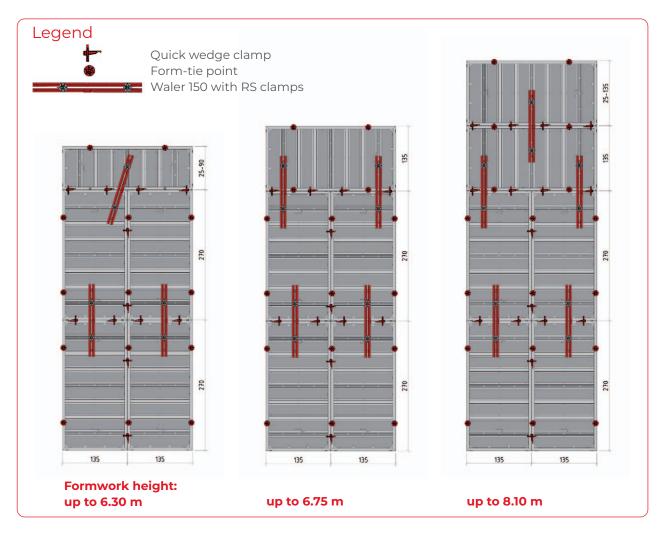
Rules for vertical stacking of the formwork

AL2000/ST2000 panels Height 270 cm



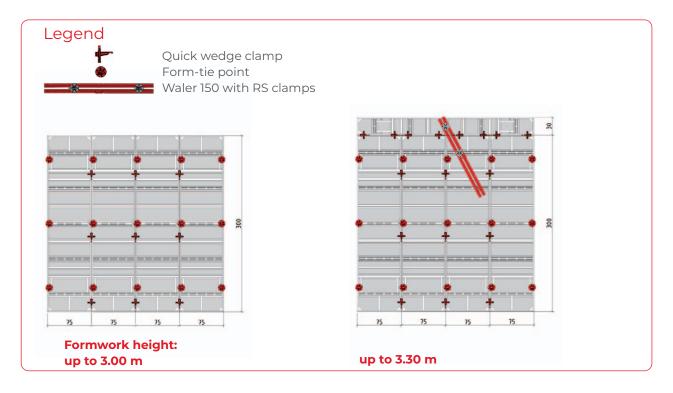


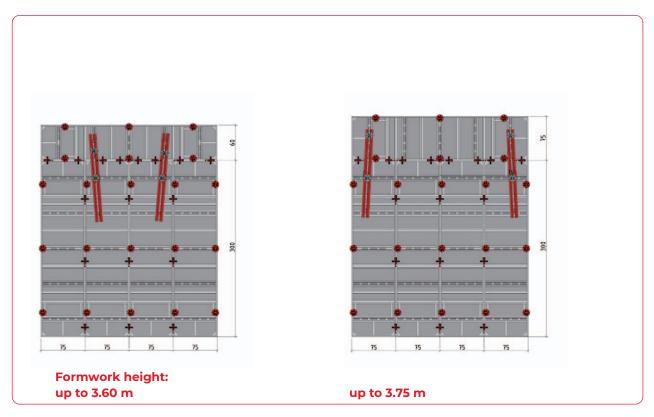
AL2000/ST 2000 panels Height 270 cm



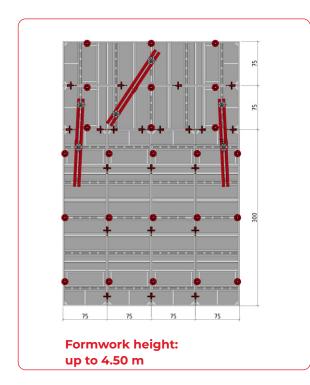
Rules for vertical stacking of the formwork

AL2000/ST2000 panels Height 300 cm



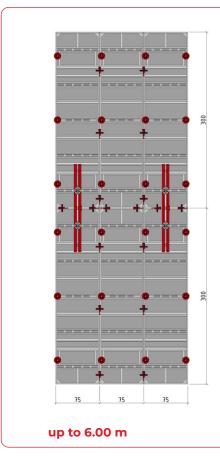


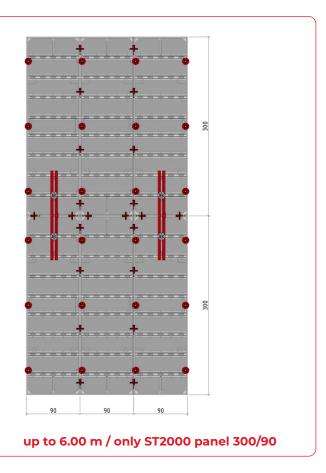
AL2000/ST2000 panels Height 300 cm



Legend

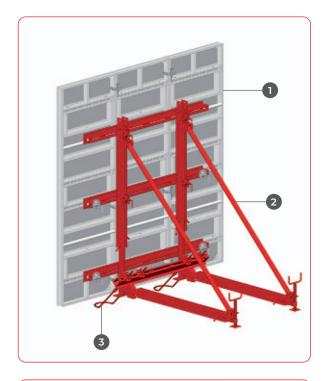
Quick wedge clamp Form-tie point Waler 150 with RS clamps

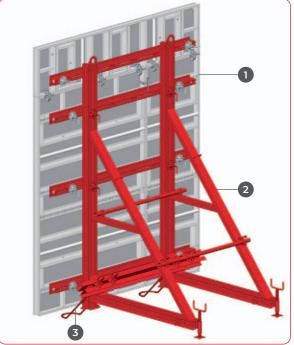






Single-sided formwork





Brace frame "L"

The lightweight RINGER brace frame for single-sided formwork. The brace frame can be taken apart for easy transportation.

- Max. formwork height 2.7 m
- Concrete pressure max. 50 kN/m²
- Max. centre-to-centre distance of brace frames 1.0 m.

System 2000 panels
 Brace frame "L"
 Anchor loop 0.55m

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Follow the directions in the Instructions for Assembly and Use of the brace frames!

Brace frame "M"

The medium-heavy RINGER brace frame for single-sided formwork.

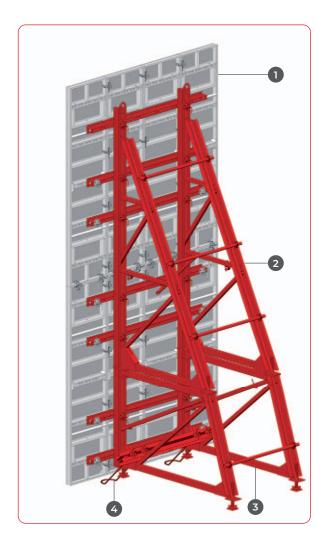
- Max. formwork height 3.3 m
- Concrete pressure max. 60 kN/m²
- Max. centre-to-centre distance of brace frames 1.35 m.

System 2000 panels
 Brace frame "M"

3 Anchor loop 0.55m

Follow the directions in the Instructions for Assembly and Use of the brace frames!





Brace frame "S"

The heavy RINGER brace frame for single-sided formwork.

- Max. formwork height 4.5 m without attachable frame
- Max. formwork height 6.0 m with attachable frame
- Concrete pressure max. 50 kN/m²
- Max. centre-to-centre distance of brace frames 1.35 m.
 - 1 System 2000 panels
 - 2 Brace frame "S"
 - **3** Attachable frame 1.5m
 - 4 Anchor loop 0.55m
- ÷

Follow the directions in the Instructions for Assembly and Use of the brace frames!

6 Overview of components AL2000 Panels

Art. No.		Item	Weight [kg]	Unit	
AL200	0 3	00 Phenolic Coated Plywood			
433 75	*	AL2000 Panel 300/75 with Phenolic-ply	52.00	pc.	200
433 60	*	AL2000 Panel 300/60 with Phenolic-ply	45.00	pc.	
433 50	*	AL2000 Panel 300/50 with Phenolic-ply	40.00	pc.	
433 45	*	AL2000 Panel 300/45 with Phenolic-ply	38.00	pc.	
433 40	*	AL2000 Panel 300/40 with Phenolic-ply	35.00	pc.	
433 30	*	AL2000 Panel 300/30 with Phenolic-ply	30.00	pc.	
433 25	*	AL2000 Panel 300/25 with Phenolic-ply	27.50	pc.	
AL200	0 2'	70 Phenolic Coated Plywood			
431 90	*	AL2000 Panel 270/90 with Phenolic-ply	52.00	pc.	
431 60	*	AL2000 Panel 270/60 with Phenolic-ply	40.00	pc.	
431 50	*	AL2000 Panel 270/50 with Phenolic-ply	36.00	pc.	
431 45	*	AL2000 Panel 270/45 with Phenolic-ply	33.00	pc.	
431 40	*	AL2000 Panel 270/40 with Phenolic-ply	30.00	pc.	
431 30	*	AL2000 Panel 270/30 with Phenolic-ply	25.00	pc.	
431 25	*	AL2000 Panel 270/25 with Phenolic-ply	23.00	pc.	
AL200	0 13	35 Phenolic Coated Plywood			
432 90	*	AL2000 Panel 135/90 with Phenolic-ply	27.50	pc.	
432 60	*	AL2000 Panel 135/60 with Phenolic-ply	20.00	pc.	
432 50	*	AL2000 Panel 135/50 wiht Phenolic-ply	18.00	pc.	
432 45	*	AL2000 Panel 135/45 with Phenolic-ply	16.00	pc.	
432 40	*	AL2000 Panel 135/40 with Phenolic-ply	15.00	pc.	
432 30	*	AL2000 Panel 135/30 with Phenolic-ply	12.00	pc.	
432 25	*	AL2000 Panel 135/25 with Phenolic-ply	10.00	pc.	
AL200	0 U	ni Panels Phenolic Coated Plywoo	d		
431 901	*	AL2000 Uni Panel 270/90 with Phenolic-ply	59.00	pc.	
431 903	*	AL2000 Uni Panel 135/90 with Phenolic-ply	29.00	pc.	



360 AL2000 Panel 300/60 with Plastic-ply 46.50 pc. 350 AL2000 Panel 300/50 with Plastic-ply 41.00 pc. 345 AL2000 Panel 300/45 with Plastic-ply 36.00 pc. 340 AL2000 Panel 300/45 with Plastic-ply 36.00 pc. 340 AL2000 Panel 300/45 with Plastic-ply 36.00 pc. 340 AL2000 Panel 300/25 with Plastic-ply 30.50 pc. 350 AL2000 Panel 300/25 with Plastic-ply 30.50 pc. 2000 270 Plastic Coated Plywood 28.00 pc. 190 AL2000 Panel 270/90 with Plastic-ply 54.00 pc. 160 AL2000 Panel 270/90 with Plastic-ply 37.00 pc. 150 AL2000 Panel 270/40 with Plastic-ply 32.00 pc. 145 AL2000 Panel 270/45 with Plastic-ply 32.00 pc. 145 AL2000 Panel 270/50 with Plastic-ply 32.00 pc. 125 AL2000 Panel 270/25 with Plastic-ply 26.00 pc. 125 AL2000 Panel 35/50 with Plastic-ply 26.00 pc. 245 AL2000 Panel 135/50 with Plastic-ply 18.50 <t< th=""><th>Art. No.</th><th>Item</th><th>Weight [kg]</th><th>Unit</th></t<>	Art. No.	Item	Weight [kg]	Unit
360 AL2000 Panel 300/60 with Plastic-ply 46.50 pc. 350 AL2000 Panel 300/50 with Plastic-ply 41.00 pc. 345 AL2000 Panel 300/45 with Plastic-ply 36.00 pc. 340 AL2000 Panel 300/45 with Plastic-ply 36.00 pc. 340 AL2000 Panel 300/25 with Plastic-ply 36.00 pc. 340 AL2000 Panel 300/25 with Plastic-ply 30.50 pc. 355 AL2000 Panel 300/25 with Plastic-ply 30.50 pc. 2000 270 Plastic Coated Plywood 28.00 pc. 190 AL2000 Panel 270/90 with Plastic-ply 54.00 pc. 150 AL2000 Panel 270/90 with Plastic-ply 37.00 pc. 155 AL2000 Panel 270/40 with Plastic-ply 34.00 pc. 145 AL2000 Panel 270/45 with Plastic-ply 32.00 pc. 125 AL2000 Panel 270/50 with Plastic-ply 26.00 pc. 125 AL2000 Panel 270/25 with Plastic-ply 26.00 pc. 125 AL2000 Panel 135/50 with Plastic-ply 18.50 pc. 240 AL2000 Panel 135/50 with Plastic-ply 18.50 <	AL2000	300 Plastic Coated Plywood		
350 * AL2000 Panel 300/50 with Plastic-ply 41.00 pc. 345 * AL2000 Panel 300/45 with Plastic-ply 39.00 pc. 340 * AL2000 Panel 300/45 with Plastic-ply 36.00 pc. 340 * AL2000 Panel 300/40 with Plastic-ply 36.00 pc. 330 * AL2000 Panel 300/25 with Plastic-ply 30.50 pc. 325 * AL2000 Panel 300/25 with Plastic-ply 30.50 pc. 2000 270 Plastic Coated Plywood 28.00 pc. 190 AL2000 Panel 270/50 with Plastic-ply 54.00 pc. 160 AL2000 Panel 270/60 with Plastic-ply 42.00 pc. 150 AL2000 Panel 270/46 with Plastic-ply 34.00 pc. 145 AL2000 Panel 270/45 with Plastic-ply 32.00 pc. 140 AL2000 Panel 270/40 with Plastic-ply 32.00 pc. 125 AL2000 Panel 270/25 with Plastic-ply 26.00 pc. 126 AL2000 Panel 135/90 with Plastic-ply 26.00 pc. 127 AL2000 Panel 135/90 with Plastic-ply 10.00 pc. 2800 AL2000 Panel 135/90 with Plastic-ply 15.00	E433 75	* AL2000 Panel 300/75 with Plastic-ply	54.00	pc.
345 * AL2000 Panel 300/45 with Plastic-ply 39.00 pc. 340 * AL2000 Panel 300/45 with Plastic-ply 36.00 pc. 330 * AL2000 Panel 300/30 with Plastic-ply 36.00 pc. 330 * AL2000 Panel 300/30 with Plastic-ply 30.50 pc. 325 * AL2000 Panel 300/25 with Plastic-ply 28.00 pc. COUD 270 Plastic Coated Plywood Plastic Coated Plywood 190 AL2000 Panel 270/90 with Plastic-ply 54.00 pc. 160 AL2000 Panel 270/60 with Plastic-ply 42.00 pc. 150 AL2000 Panel 270/45 with Plastic-ply 32.00 pc. 1440 AL2000 Panel 270/45 with Plastic-ply 32.00 pc. 130 AL2000 Panel 270/25 with Plastic-ply 26.00 pc. 125 AL2000 Panel 270/25 with Plastic-ply 26.00 pc. 290 AL2000 Panel 35/90 with Plastic-ply 28.50 pc. 215 AL2000 Panel 35/50 with Plastic-ply 10.0 pc. 245 AL2000 Panel 35/50 with Plastic-ply 15.00 pc. 245 AL2000 Pan	E433 60		46.50	pc.
AL2001 dilet/300 (b) With Plastic-ply 30.00 pc. 340 * AL2000 Panel 300/40 with Plastic-ply 36.00 pc. 330 * AL2000 Panel 300/30 with Plastic-ply 30.50 pc. 325 * AL2000 Panel 300/25 with Plastic-ply 28.00 pc. 20000 270 Plastic Coated Plywood	E433 50	* AL2000 Panel 300/50 with Plastic-ply	41.00	pc.
10 AL2000 Panel 300/30 with Plastic-ply 30.00 pc. 330 * AL2000 Panel 300/30 with Plastic-ply 30.50 pc. 2000 270 Plastic Coated Plywood 28.00 pc. 190 AL2000 Panel 270/90 with Plastic-ply 54.00 pc. 160 AL2000 Panel 270/60 with Plastic-ply 42.00 pc. 150 AL2000 Panel 270/50 with Plastic-ply 37.00 pc. 145 AL2000 Panel 270/45 with Plastic-ply 34.00 pc. 144 AL2000 Panel 270/40 with Plastic-ply 32.00 pc. 145 AL2000 Panel 270/40 with Plastic-ply 32.00 pc. 140 AL2000 Panel 270/25 with Plastic-ply 32.00 pc. 130 AL2000 Panel 270/26 with Plastic-ply 26.00 pc. 125 AL2000 Panel 35/90 with Plastic-ply 24.00 pc. 2000 I35 Plastic Coated Plywood 28.50 pc. 240 AL2000 Panel 135/90 with Plastic-ply 18.50 pc. 250 AL2000 Panel 135/40 with Plastic-ply 18.50 pc. 245 AL2000 Panel 135/40 with Plastic-ply 16.50 pc.	E433 45	* AL2000 Panel 300/45 with Plastic-ply	39.00	pc.
325 * AL2000 Panel 300/25 with Plastic-ply 28.00 pc. 2000 270 Plastic Coated Plywood 28.00 pc. 190 AL2000 Panel 270/90 with Plastic-ply 54.00 pc. 160 AL2000 Panel 270/60 with Plastic-ply 42.00 pc. 150 AL2000 Panel 270/50 with Plastic-ply 37.00 pc. 145 AL2000 Panel 270/45 with Plastic-ply 34.00 pc. 144 AL2000 Panel 270/45 with Plastic-ply 32.00 pc. 140 AL2000 Panel 270/40 with Plastic-ply 32.00 pc. 130 AL2000 Panel 270/25 with Plastic-ply 26.00 pc. 125 AL2000 Panel 270/25 with Plastic-ply 24.00 pc. 2000 135 Plastic Coated Plywood 24.00 pc. 290 AL2000 Panel 135/90 with Plastic-ply 28.50 pc. 2100 AL2000 Panel 135/90 with Plastic-ply 18.50 pc. 240 AL2000 Panel 135/40 with Plastic-ply 18.50 pc. 244 AL2000 Panel 135/40 with Plastic-ply 15.00 pc. 230 AL2000 Panel 135/40 with Plastic-ply 15.00 pc.	433 40	* AL2000 Panel 300/40 with Plastic-ply	36.00	pc.
2000 270 Plastic Coated Plywood 2000 270 Plastic Coated Plywood 190 AL2000 Panel 270/90 with Plastic-ply 54.00 pc. 160 AL2000 Panel 270/60 with Plastic-ply 42.00 pc. 150 AL2000 Panel 270/50 with Plastic-ply 37.00 pc. 145 AL2000 Panel 270/45 with Plastic-ply 32.00 pc. 145 AL2000 Panel 270/45 with Plastic-ply 32.00 pc. 140 AL2000 Panel 270/40 with Plastic-ply 32.00 pc. 130 AL2000 Panel 270/25 with Plastic-ply 26.00 pc. 2000 135 Plastic Coated Plywood 24.00 pc. 2000 135 Plastic Coated Plywood 24.00 pc. 2100 AL2000 Panel 135/90 with Plastic-ply 28.50 pc. 2100 AL2000 Panel 135/50 with Plastic-ply 18.50 pc. 245 AL2000 Panel 135/50 with Plastic-ply 18.50 pc. 245 AL2000 Panel 135/40 with Plastic-ply 19.00 pc. 240 AL2000 Panel 135/40 with Plastic-ply 12.00 pc. 230 AL2000 Panel 135/2	433 30	* AL2000 Panel 300/30 with Plastic-ply	30.50	pc.
199 AL2000 Panel 270/90 with Plastic-ply 54.00 pc. 160 AL2000 Panel 270/60 with Plastic-ply 42.00 pc. 150 AL2000 Panel 270/50 with Plastic-ply 37.00 pc. 145 AL2000 Panel 270/45 with Plastic-ply 34.00 pc. 145 AL2000 Panel 270/45 with Plastic-ply 32.00 pc. 130 AL2000 Panel 270/30 with Plastic-ply 26.00 pc. 125 AL2000 Panel 270/25 with Plastic-ply 24.00 pc. 2000 135 Plastic Coated Plywood 24.00 pc. 290 AL2000 Panel 135/90 with Plastic-ply 28.50 pc. 260 AL2000 Panel 135/90 with Plastic-ply 28.50 pc. 250 AL2000 Panel 135/50 with Plastic-ply 18.50 pc. 245 AL2000 Panel 135/45 with Plastic-ply 16.50 pc. 240 AL2000 Panel 135/40 with Plastic-ply 12.00 pc. 230 AL2000 Panel 135/25 with Plastic-ply 12.00 pc. 240 AL2000 Panel 135/25 with Plastic-ply 12.00 pc. 255 AL2000 Panel 135/25 with Plastic-ply 10.00 <	433 25	* AL2000 Panel 300/25 with Plastic-ply	28.00	pc.
160 AL2000 Panel 270/60 with Plastic-ply 42.00 pc. 150 AL2000 Panel 270/50 with Plastic-ply 37.00 pc. 145 AL2000 Panel 270/45 with Plastic-ply 34.00 pc. 140 AL2000 Panel 270/40 with Plastic-ply 32.00 pc. 130 AL2000 Panel 270/30 with Plastic-ply 26.00 pc. 125 AL2000 Panel 270/25 with Plastic-ply 26.00 pc. 2000 135 Plastic Coated Plywood 24.00 pc. 290 AL2000 Panel 135/90 with Plastic-ply 28.50 pc. 260 AL2000 Panel 135/60 with Plastic-ply 28.50 pc. 250 AL2000 Panel 135/50 with Plastic-ply 18.50 pc. 245 AL2000 Panel 135/40 with Plastic-ply 16.50 pc. 240 AL2000 Panel 135/40 with Plastic-ply 15.00 pc. 230 AL2000 Panel 135/25 with Plastic-ply 12.00 pc. 240 AL2000 Panel 135/25 with Plastic-ply 12.00 pc. 250 AL2000 Panel 135/25 with Plastic-ply 12.00 pc. 250 AL2000 Panel 135/25 with Plastic-ply 10.0 <t< td=""><td>L2000</td><td>270 Plastic Coated Plywood</td><td></td><td></td></t<>	L2000	270 Plastic Coated Plywood		
150 AL2000 Panel 270/50 with Plastic-ply 37.00 pc. 145 AL2000 Panel 270/45 with Plastic-ply 34.00 pc. 140 AL2000 Panel 270/40 with Plastic-ply 32.00 pc. 130 AL2000 Panel 270/30 with Plastic-ply 26.00 pc. 125 AL2000 Panel 270/25 with Plastic-ply 26.00 pc. 2000 135 Plastic Coated Plywood 24.00 pc. 290 AL2000 Panel 135/90 with Plastic-ply 28.50 pc. 260 AL2000 Panel 135/60 with Plastic-ply 28.50 pc. 250 AL2000 Panel 135/50 with Plastic-ply 28.50 pc. 245 AL2000 Panel 135/50 with Plastic-ply 18.50 pc. 245 AL2000 Panel 135/40 with Plastic-ply 16.50 pc. 240 AL2000 Panel 135/40 with Plastic-ply 15.00 pc. 230 AL2000 Panel 135/25 with Plastic-ply 12.00 pc. 245 AL2000 Panel 135/25 with Plastic-ply 11.00 pc. 255 AL2000 Panel 135/20 with Plastic-ply 10.00 pc. 240 AL2000 Panel 135/20 with Plastic-ply 10.00 <	431 90	AL2000 Panel 270/90 with Plastic-ply	54.00	pc.
145 AL2000 Panel 270/45 with Plastic-ply 34.00 pc. 140 AL2000 Panel 270/40 with Plastic-ply 32.00 pc. 130 AL2000 Panel 270/30 with Plastic-ply 26.00 pc. 125 AL2000 Panel 270/25 with Plastic-ply 24.00 pc. 2000 135 Plastic Coated Plywood 28.50 pc. 260 AL2000 Panel 135/90 with Plastic-ply 28.50 pc. 260 AL2000 Panel 135/60 with Plastic-ply 21.00 pc. 260 AL2000 Panel 135/50 with Plastic-ply 21.00 pc. 250 AL2000 Panel 135/50 with Plastic-ply 18.50 pc. 245 AL2000 Panel 135/40 with Plastic-ply 16.50 pc. 240 AL2000 Panel 135/40 with Plastic-ply 12.00 pc. 240 AL2000 Panel 135/40 with Plastic-ply 12.00 pc. 230 AL2000 Panel 135/25 with Plastic-ply 12.00 pc. 240 AL2000 Panel 135/25 with Plastic-ply 12.00 pc. 250 AL2000 Panel 135/20 with Plastic-ply 10.00 pc. 240 AL2000 Panel 135/20 with Plastic-ply 10.00 <	431 60	AL2000 Panel 270/60 with Plastic-ply	42.00	pc.
140 AL2000 Panel 270/40 with Plastic-ply 32.00 pc. 130 AL2000 Panel 270/30 with Plastic-ply 26.00 pc. 125 AL2000 Panel 270/25 with Plastic-ply 24.00 pc. 2000 135 Plastic Coated Plywood 2000 135 Plastic Coated Plywood 2 90 AL2000 Panel 135/90 with Plastic-ply 28.50 pc. 2 60 AL2000 Panel 135/60 with Plastic-ply 21.00 pc. 2 50 AL2000 Panel 135/60 with Plastic-ply 21.00 pc. 2 50 AL2000 Panel 135/50 with Plastic-ply 18.50 pc. 2 45 AL2000 Panel 135/45 with Plastic-ply 16.50 pc. 2 40 AL2000 Panel 135/40 with Plastic-ply 15.00 pc. 2 40 AL2000 Panel 135/40 with Plastic-ply 12.00 pc. 2 40 AL2000 Panel 135/25 with Plastic-ply 12.00 pc. 2 30 AL2000 Panel 135/25 with Plastic-ply 10.00 pc. 2 50 AL2000 Panel 135/25 with Plastic-ply 10.00 pc. 2 400 AL2000 Panel 135/90 with Plastic-ply 10.00 pc. 2 400 AL	431 50	AL2000 Panel 270/50 with Plastic-ply	37.00	pc.
130 AL2000 Panel 270/30 with Plastic-ply 26.00 pc. 125 AL2000 Panel 270/25 with Plastic-ply 24.00 pc. 2000 135 Plastic Coated Plywood 2 90 AL2000 Panel 135/90 with Plastic-ply 28.50 pc. 2 60 AL2000 Panel 135/90 with Plastic-ply 28.50 pc. 2 60 AL2000 Panel 135/50 with Plastic-ply 21.00 pc. 2 50 AL2000 Panel 135/50 with Plastic-ply 18.50 pc. 2 45 AL2000 Panel 135/40 with Plastic-ply 16.50 pc. 2 40 AL2000 Panel 135/40 with Plastic-ply 15.00 pc. 2 40 AL2000 Panel 135/40 with Plastic-ply 12.00 pc. 2 40 AL2000 Panel 135/25 with Plastic-ply 12.00 pc. 2 40 AL2000 Panel 135/25 with Plastic-ply 12.00 pc. 2 50 AL2000 Panel 135/25 with Plastic-ply 10.00 pc. 2000 Uni Panel 270/90 with Plastic-ply 10.00 pc. 2000 Uni Panel 270/90 with Plastic-ply 60.00 pc.	431 45	AL2000 Panel 270/45 with Plastic-ply	34.00	pc.
125 AL2000 Panel 270/25 with Plastic-ply 24.00 pc. 2000 135 Plastic Coated Plywood 290 AL2000 Panel 135/90 with Plastic-ply 28.50 pc. 260 AL2000 Panel 135/60 with Plastic-ply 21.00 pc. 250 AL2000 Panel 135/60 with Plastic-ply 18.50 pc. 245 AL2000 Panel 135/45 with Plastic-ply 18.50 pc. 245 AL2000 Panel 135/45 with Plastic-ply 16.50 pc. 240 AL2000 Panel 135/40 with Plastic-ply 15.00 pc. 240 AL2000 Panel 135/25 with Plastic-ply 12.00 pc. 240 AL2000 Panel 135/25 with Plastic-ply 12.00 pc. 250 AL2000 Panel 135/25 with Plastic-ply 12.00 pc. 255 AL2000 Panel 135/25 with Plastic-ply 10.00 pc. 2000 Uni Panel 270/90 with Plastic-ply 10.00 pc. 2901 AL2000 Uni Panel 270/90 with Plastic-ply 60.00 pc.	431 40	AL2000 Panel 270/40 with Plastic-ply	32.00	pc.
2000 135 Plastic Coated Plywood 290 AL2000 Panel 135/90 with Plastic-ply 28.50 pc. 260 AL2000 Panel 135/60 with Plastic-ply 21.00 pc. 250 AL2000 Panel 135/50 with Plastic-ply 18.50 pc. 245 AL2000 Panel 135/45 with Plastic-ply 16.50 pc. 240 AL2000 Panel 135/40 with Plastic-ply 15.00 pc. 230 AL2000 Panel 135/30 with Plastic-ply 12.00 pc. 245 AL2000 Panel 135/30 with Plastic-ply 12.00 pc. 25 AL2000 Panel 135/25 with Plastic-ply 10.0 pc. 2000 Uni Panels Plastic Coated Plywood 2000 pc. 2901 AL2000 Uni Panel 270/90 with Plastic-ply 60.00 pc.	431 30	AL2000 Panel 270/30 with Plastic-ply	26.00	pc.
2 90 AL2000 Panel 135/90 with Plastic-ply 28.50 pc. 2 60 AL2000 Panel 135/60 with Plastic-ply 21.00 pc. 2 50 AL2000 Panel 135/50 with Plastic-ply 18.50 pc. 2 45 AL2000 Panel 135/45 with Plastic-ply 16.50 pc. 2 40 AL2000 Panel 135/40 with Plastic-ply 15.00 pc. 2 40 AL2000 Panel 135/40 with Plastic-ply 15.00 pc. 2 40 AL2000 Panel 135/30 with Plastic-ply 15.00 pc. 2 30 AL2000 Panel 135/30 with Plastic-ply 12.00 pc. 2 25 AL2000 Panel 135/25 with Plastic-ply 11.00 pc. 2 000 Uni Panels Plastic Coated Plywood 2000 pc. 2 901 AL2000 Uni Panel 270/90 with Plastic-ply 60.00 pc.	431 25	AL2000 Panel 270/25 with Plastic-ply	24.00	pc.
2 60 AL2000 Panel 135/60 with Plastic-ply 21.00 pc. 2 50 AL2000 Panel 135/50 with Plastic-ply 18.50 pc. 2 45 AL2000 Panel 135/45 with Plastic-ply 16.50 pc. 2 40 AL2000 Panel 135/40 with Plastic-ply 15.00 pc. 2 40 AL2000 Panel 135/40 with Plastic-ply 15.00 pc. 2 30 AL2000 Panel 135/30 with Plastic-ply 12.00 pc. 2 25 AL2000 Panel 135/25 with Plastic-ply 12.00 pc. 2 2000 Uni Panels Plastic Coated Plywood 11.00 pc. 2 901 AL2000 Uni Panel 270/90 with Plastic-ply 60.00 pc.	AL2000	135 Plastic Coated Plywood		
2 50 AL2000 Panel 135/50 with Plastic-ply 18.50 pc. 2 45 AL2000 Panel 135/45 with Plastic-ply 16.50 pc. 2 40 AL2000 Panel 135/40 with Plastic-ply 15.00 pc. 2 40 AL2000 Panel 135/40 with Plastic-ply 15.00 pc. 2 30 AL2000 Panel 135/30 with Plastic-ply 12.00 pc. 2 25 AL2000 Panel 135/25 with Plastic-ply 11.00 pc.	432 90	AL2000 Panel 135/90 with Plastic-ply	28.50	pc.
2 45 AL2000 Panel 135/45 with Plastic-ply 16.50 pc. 2 40 AL2000 Panel 135/40 with Plastic-ply 15.00 pc. 2 30 AL2000 Panel 135/30 with Plastic-ply 12.00 pc. 2 25 AL2000 Panel 135/25 with Plastic-ply 11.00 pc. 2000 Uni Panels Plastic Coated Plywood 2 901 AL2000 Uni Panel 270/90 with Plastic-ply 60.00 pc.	432 60	AL2000 Panel 135/60 with Plastic-ply	21.00	pc.
2 40 AL2000 Panel 135/40 with Plastic-ply 15.00 pc. 2 30 AL2000 Panel 135/30 with Plastic-ply 12.00 pc. 2 25 AL2000 Panel 135/25 with Plastic-ply 11.00 pc. 2000 Uni Panels Plastic Coated Plywood 2 901 AL2000 Uni Panel 270/90 with Plastic-ply 60.00 pc.	432 50	AL2000 Panel 135/50 with Plastic-ply	18.50	pc.
2 30 AL2000 Panel 135/30 with Plastic-ply 12.00 pc. 2 25 AL2000 Panel 135/25 with Plastic-ply 11.00 pc. 2000 Uni Panels Plastic Coated Plywood 2000 2000 Uni Panel 270/90 with Plastic-ply 60.00 pc.	432 45	AL2000 Panel 135/45 with Plastic-ply	16.50	pc.
2 25 AL2000 Panel 135/25 with Plastic-ply 11.00 pc. 2000 Uni Panels Plastic Coated Plywood 2 901 AL2000 Uni Panel 270/90 with Plastic-ply 60.00 pc.	E432 40	AL2000 Panel 135/40 with Plastic-ply	15.00	pc.
2000 Uni Panels Plastic Coated Plywood 2 901 AL2000 Uni Panel 270/90 with Plastic-ply 60.00 pc.	432 30	AL2000 Panel 135/30 with Plastic-ply	12.00	pc.
2 901 AL2000 Uni Panel 270/90 with Plastic-ply 60.00 pc.	432 25	AL2000 Panel 135/25 with Plastic-ply	11.00	pc.
	AL2000	Uni Panels Plastic Coated Plywood		
1 903 AL2000 Uni Panel 135/90 with Plastic-ply 28.50 pc.	432 901	AL2000 Uni Panel 270/90 with Plastic-ply	60.00	pc.
	E431 903	AL2000 Uni Panel 135/90 with Plastic-ply	28.50	pc.

ST2000 Panels

Art. No.	Item	Weight [kg]	Unit
ST200	0 300 Phenolic Coated Plywood		
533 90	* ST2000 Panel 300/90 galvanized with Phenolic-ply	87.50	pc.
533 75	* ST2000 Panel 300/75 galvanized with Phenolic-ply	78.00	pc.
533 60	* ST2000 Panel 300/60 galvanized with Phenolic-ply	70.50	pc.
533 50	* ST2000 Panel 300/50 galvanized with Phenolic-ply	60.50	pc.
533 45	* ST2000 Panel 300/45 galvanized wtih Phenolic-ply	55.00	pc.
533 40	* ST2000 Panel 300/40 galvanized wtih Phenolic-ply	50.60	pc.
533 30	* ST2000 Panel 300/30 galvanized wtih Phenolic-ply	45.10	pc.
533 25	* ST2000 Panel 300/25 galvanized wtih Phenolic-ply	40.70	pc.
ST200	0 270 Phenolic Coated Plywood		
531 90	* ST2000 Panel 270/90 galvanized with Phenolic-ply	79.50	pc.
531 60	* ST2000 Panel 270/60 galvanized with Phenolic-ply	64.00	pc.
531 50	* ST2000 Panel 270/50 galvanized with Phenolic-ply	55.00	pc.
531 45	* ST2000 Panel 270/45 galvanized with Phenolic-ply	50.00	pc.
531 40	* ST2000 Panel 270/40 galvanized with Phenolic-ply	46.00	pc.
531 30	* ST2000 Panel 270/30 galvanized with Phenolic-ply	41.00	pc.
531 25	* ST2000 Panel 270/25 galvanized with Phenolic-ply	37.00	pc.
ST200	0 135 Phenolic Coated Plywood		
532 90	* ST2000 Panel 135/90 galvanized with Phenolic-ply	42.00	pc.
532 60	* ST2000 Panel 135/60 galvanized with Phenolic-ply	31.00	pc.
532 50	* ST2000 Panel 135/50 galvanized with Phenolic-ply	29.00	pc.
532 45	* ST2000 Panel 135/45 galvanized with Phenolic-ply	27.00	pc.
532 40	* ST2000 Panel 135/40 galvanized with Phenolic-ply	25.00	pc.
532 30	* ST2000 Panel 135/30 galvanized with Phenolic-ply	22.00	pc.
532 25	* ST2000 Panel 135/25 galvanized with Phenolic-ply	18.00	pc.
ST200	O Uni Panels Phenolic Coated Plywood		
533 901	* ST2000 Uni Panel 300/90 galvanized with Phenolic-ply	91.30	pc.
531 901	* ST2000 Uni Panel 270/90 galvanized with Phenolic-ply	83.00	pc.
531 903	* ST2000 Uni Panel 135/90 galvanized with Phenolic-ply	43.00	pc.



RINGER

Art. No.	Item	Weight [kg]	Unit
ST2000	300 Plastic Coated Plywood		
E533 90	ST2000 Panel 300/90 galvanized wtih Plastic-ply	91.30	pc.
E533 75	ST2000 Panel 300/75 galvanized with Plasitc-ply	80.50	pc.
E533 60	ST2000 Panel 300/60 galvanized wtih Plastic-ply	72.60	pc.
E533 50	ST2000 Panel 300/50 galvanized wtih Plastic-ply	61.60	pc.
E533 45	ST2000 Panel 300/45 galvanized wtih Plastic-ply	56.10	pc.
E533 40	ST2000 Panel 300/40 galvanized wtih Plastic-ply	51.70	pc.
E533 30	ST2000 Panel 300/30 galvanized wtih Plastic-ply	46.20	pc.
E533 25	ST2000 Panel 300/25 galvanized with Plastic-ply	41.80	pc.
ST2000	270 Plastic Coated Plywood		
E531 90	ST2000 Panel 270/90 galvanized with Plastic-ply	83.00	pc.
E531 60	ST2000 Panel 270/60 galvanized with Plastic-ply	66.00	pc.
E531 50	ST2000 Panel 270/50 galvanized with Plastic-ply	57.00	pc.
E531 45	ST2000 Panel 270/45 galvanized with Plastic-ply	51.00	pc.
E531 40	ST2000 Panel 270/40 galvanized with Plastic-ply	47.00	pc.
E531 30	ST2000 Panel 270/30 galvanized with Plastic-ply	42.00	pc.
E531 25	ST2000 Panel 270/25 galvanized with Plastic-ply	38.00	pc.
ST2000	135 Plastic Coated Plywood		
E532 90	ST2000 Panel 135/90 galvanized with Plastic-ply	43.00	pc.
E532 60	ST2000 Panel 135/60 galvanized with Plastic-ply	32.00	pc.
E532 50	ST2000 Panel 135/50 galvanized with Plastic-ply	30.00	pc.
E532 45	ST2000 Panel 135/45 galvanized with Plastic-ply	28.00	pc.
E532 40	ST2000 Panel 135/40 galvanized with Plastic-ply	26.00	pc.
E532 30	ST2000 Panel 135/30 galvanized with Plastic-ply	23.00	pc.
E532 25	ST2000 Panel 135/25 galvanized with Plastic-ply	20.00	pc.
ST2000	Uni Panels Plastic Coated Plywood		

E533 901	ST2000 Uni Panel 300/90 galvanized with Plastic-ply	95.70	pc.
E531 901	ST2000 Uni Panel 270/90 galvanized with Plastic-ply	87.00	pc.
E531 903	ST2000 Uni Panel 135/90 galvanized with Plastic-ply	44.00	pc.









Corners

Art. No.	ltem	Weight [kg]	Unit
Inside Co	rners for System 2000		
403V01N 403V11N 403V21N	Inside Corner 300/20/20 galvanized System 2000 Inside Corner 270/20/20 galvanized System 2000 Inside Corner 135/20/20 galvanized System 2000	59.00 53.00 27.00	рс. рс. рс.
Outside (Corners for System 2000		
403V03 403V13 403V23	Outside Corner 300 galvanized System 2000 Outside Corner 270 galvanized System 2000 Outside Corner 135 galvanized System 2000	28.50 27.50 13.50	рс. рс. рс.
Hinged In	nside Corners for System 2000		
403 042 403 142 403 242	Hinged Inside Corner I 300/20/20 galvanized System 2000 Hinged Inside Corner I 270/20/20 galvanized System 2000 Hinged Inside Corner I 135/20/20 galvanized System 2000	67.00 60.00 32.00	pc. pc. pc.
Hinged C	outside Corners for System 2000		
403 04	Hinged Outside Corner A 300/10/10 galvanized System 200) 44.50	pc.

403 04	Hinged Outside Corner A 300/10/10 galvanized System 2000	44.50	pc.
403 14	Hinged Outside Corner A 270/10/10 galvanized System 2000	40.00	pc.
403 24	Hinged Ouside Corner A 135/10/10 galvanized System 2000	21.00	pc.

Stripping and Compensation Panels

Strippin	ng Tools for System 2000		
403V27 403V28	Stripping Panel 300/10 galvanized System 2000 Stripping Panel 270/10 galvanized System 2000	50.00 46.00	pc. pc.
704V52	Stripping Tool for Formwork galvanized	3.80	pc.

Compensation Panels for System 2000

403\/363	Compensation Panel 300/10 galvanized System 2000	19.00	pc.
403V36	Compensation Panel 300/5 galvanized System 2000	13.30	pc.
403V362	Compensation Panel 300/3 galvanized System 2000	12.30	pc.
403V361	Compensation Panel 300/2 galvanized System 2000	11.10	pc.
403V163	Compensation Panel 270/10 galvanized System 2000	17.00	pc.
403V16	Compensation Panel 270/5 galvanized System 2000	12.00	pc.
403V162	Compensation Panel 270/3 galvanized System 2000	11.00	pc.
403V161	Compensation Panel 270/2 galvanized System 2000	10.00	pc.
403V26	Compensation Panel 135/5 galvanized System 2000	7.20	pc.



Art. No.	Item	Weight [kg]	Unit
Circular I	Forming Plates	l	
403V52	Circular Forming Plate 270/25 galvanized System 2000	56.00	pc.
403V51	Circular Forming Plate 270/20 galvanized System 2000	54.00	pc.
407V94	Uni Waler 40 for Circular Forming Plate galvanized	4.90	pc.

System 2000 Connecting Parts

Connectir	ng Parts		
404V6	Quick Wedge Clamp System 2000 galvanized	1.70	pc.
404V61	Adjustable Clamp System 2000 galvanized	4.13	pc.
280 0400	Corner Waler galvanized	14.50	pc.
703V152 703V151	Waler 150 galvanized Waler 100 galvanized	18.66 12.80	pc. pc.
704V5	RS-Clamp galvanized	1.60	pc.
403 151 *	Double Tenon 60	6.00	pc.
704V69	Master Stop End Coupler (up to 40cm wall thickness) galvanized	8.30	pc.
704V66	Slab Beam Clamp (up to 70cm wall thickness) galvanized	9.30	pc.
404V8	Stop End Anchor for System 2000 galvanized	1.50	pc.
407V91	Universal Fixing Bolt galvanized	0.50	pc.





Art. No.		Item	Weight [kg]	Unit
Tie Roo	d Sy	/stem		
407 050		Tie Rod 0,50m DW15 galvanized	0.75	pc.
407 100		Tie Rod 1,00m DW15 galvanized	1.50	pc.
407 125		Tie Rod 1,25m DW15 galvanized	1.75	pc.
407 150		Tie Rod 1,50m DW15 galvanized	2.15	pc.
407 200		Tie Rod 2,00m DW15 galvanized	3.00	pc.
407 300		Tie Rod 3,00m DW15 galvanized	4.30	pc.
407 1001	*	Tie Rod 1,00m DW15 raw	1.50	pc.
407 600	*	Tie Rod 6,00m DW15 raw	8.60	pc.
407 55	*	Anchor Loop 0,55m DW15	1.80	pc.
407 800	*	Pigtail Anchor DW 15 L= 550mm	0.80	pc.
407V77		Combi Plate DW15 galvanized (ø120mm)	1.00	pc.
407V75	*	Wingnut Counterplate galvanized (ø 100mm)	0.72	pc.
407\71	*	Wingnut galvanized	0.30	pc.
407V73	*	Counterplate 120 x 120 x 8mm galvanized	0.90	pc.
404V52		Counterplate "KL" 60 x 80 x 8mm galvanized	0.29	pc.
407V8		Hexagonal Nut DW15 galvanized length 50mm	0.22	pc.
407 56		Connector for Anchor Loop DW15 galvanized	0.60	pc.
703V154		Foundation Clamp galvanized	6.20	pc.
407 500	*	Perforated Tape for Foundation Formwork galvanized	17.50	RL
407 60	*	Rock Anchor for Drill Hole Ø 34 - 35 mm	0.37	pc.
407V76		Anchor Fixing Tool DW 15-20 galvanized	1.80	pc.
407V62		Tie Holder Bracket galvanized	1.40	pc.

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Accessories

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Art. No.

Weight [ka]

Unit

			[kg]	
Push-F	Pull	Props		
708V3		Push-Pull Prop size 1/2,15 - 3,60m galvanized	29.50	pc.
708V37		Push-Pull Prop Size 2/3,10 - 5,50m galvanized	55.00	pc.
708\/31		Push-Pull Prop G / 3,55 - 5,90m galvanized	70.00	pc.
708 36	*	Push-Pull Prop "L" dip-coated 2,10 - 3,60m	18.00	pc.
708V34		Extension for Push-Pull Prop "G" galvanized (length 3m)	27.00	pc.
254 21	*	Coil for Coil Anchor galvanized	1.50	100 pc.
254 2	*	Coil Anchor 16 x 90mm galvanized	0.15	pc.

Concreting Brackets

708V11	Bracket without Railing galvanized	6.30	pc.
408V12	Railing for Concreting Bracket galvanized	3.90	pc.
704V53	Master Railing Holder galvanized	4.40	pc.

Concreting Platforms

708V20	Concreting Platform "L" 2,70m preassembled unit	66.00	pc.
708V21	Concreting Platform "L" 2,70m with Access Hatch	66.00	pc.
708V206	Assembly Adapter for Concreting Platform "L"	2.00	pc.
708\211	Ladder for Concreting Platform "L" 2,7m galvanized	15.00	pc.
708V212	Extension 3,3m for Ladder for Concreting Platform "L" galvanized	12.00	pc.
708V222	Distance Bracket for Ladder for Concreting Platform "L"	6.00	pc.







Art. No. Item	Weight [kg]	Unit
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3S-Concreting Platform 3,0m including:

		Qty.
254V2	3S-Platform 3,0m size 2	1 pc.
255V1	3S-Concreting Bracket galvanized	2 pc.

Gesamtgewicht [kg] 187.00

Transportation Devices

408V5	Crane Hook AL galvanized capacity 1.600 kg serial number/	6.00	pc.
Transpo	rtation and Storage		
408V90	Pallet for Alu Formwork galvanized	80.00	pc.
408V91	Stirrup for Pallet galvanized	4.20	pc.
408V92	Stirrup for Pallet for Panels 3,0m galvanized	6.00	pc.
260V0006	Accessory Box galvanized	160.00	pc.
260V10	UNI Container with flap galvanized	72.00	pc.
260V11	UNI Container without flap galvanized	70.00	pc.
260V12	* RINGER Multi-Trip Transport Box galvanized	66.00	pc.













RINGER

Art. No.		Item	Weight [kg]	Unit
Spacer	Tu	bes and Cones		
44] 44	*	Spacer Tube WD 40cm (set)	6.50	50 pc.
44] 4]	*	Spacer Tube WD 30cm (set)	5.00	50 pc.
441 4	*	Spacer Tube WD 25cm (set)	4.50	50 pc.
441 43	*	Spacer Tube WD 20cm (set)	3.00	50 pc.
44] 42	*	Spacer Tube WD 15cm (set)	2.00	50 pc.
441 15	*	Plugs for Spacer Tube waterproof (long)	0.60	100 pc.
441 312	*	Spacer Tube ø 26/2mm length 2m	11.00	50 LM
441 22	*	Chuck Cone ø 26mm grey	2.30	100 pc.
441 12	*	Sealing Disc for Spacer Tube (for exposed concrete)	2.00	250 pc.

Plugs				
4411	*	Plug ø 20mm black System 2000	1.00	500 pc.
441 14	*	Plastic Plug ø 24mm brown for Uni Panels	0.60	200 pc.

Additional Accessories

230V3	*	Ground Anchor galvanized	4.00	pc.
408 5	*	Carbide Scraper with reversing plate width 10cm arm length 1,3m	1.40	pc.
408 51	*	Carbid Scraper with reversing plate width 10cm arm lenght 0,8 m	1.20	pc.



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LET'S BUILD

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AUSTRALIAN PARTNER

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