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Flex

Slab formwork

**H20 BEAMS & FORMWORK SHEETS
FLOOR PROPS
FALL-PROTECTION BARRIER
ACCESSORIES**

**LET'S
BUILD**



RINGER
GERÜSTE + SCHALUNGEN



COMPANY HEADQUARTERS
AND MAIN YARD FACILITY,
REGAU, AUSTRIA

The firm's centrepiece is company HQ and main yard facility in Regau, Upper Austria, where development, production and dispatching are at home. We have additional facilities with support and competent consulting by specialists in the field strategically sited across Austria, at Oberwaltersdorf, Emmersdorf, Klagenfurt, Gratkorn, Langkampfen and Dornbirn. RINGER has international trading agency agreements in place all over Europe.

RINGER products are used on jobsites in more than 50 countries around the world.

**Your reliable partner for scaffolding
and formwork.**

RINGER quality since 1944:

- Versatile, fast solutions
- Total reliability
- Our experts in the field
- Speedy special solutions
- We keep our word
- With complete passion
- A real family-owned company

Why wait any longer?

Let's build.





Slab formwork with more flexibility

RINGER FLEX SLAB FORMWORK GIVES YOU PERFECT SUPPORT ON YOUR JOBSITE.

On builds large or small, for layouts simple or complex, RINGER Flex slab formwork is always the right choice. Our extensive range of accessories makes the system well-rounded.

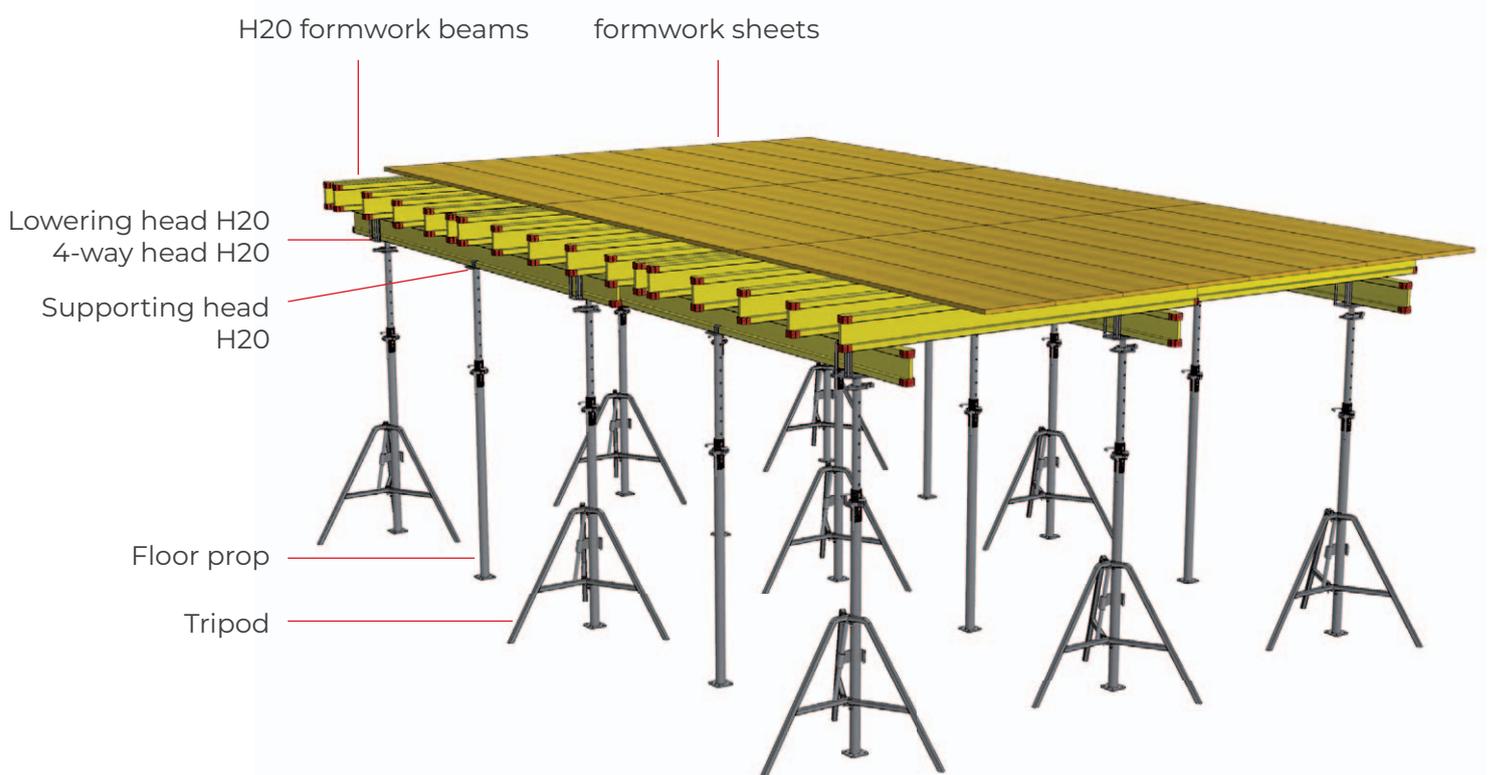
- Props 30kN / 20kN / industry class B
- RINGER H20 formwork beams
- RINGER 3S formwork sheets
- Range of heads and accessories
- Edge protection
- Accessories

Flexibly usable

Universal and economical

RINGER Flex is a flexible and cost-effective system that ensures fast and easy handling. The system can be used to form slabs of any thickness, for any layout and at any room height.

The positioning of the beams and props is not predetermined and can be adapted in planning to suit slab thickness.



Product features

Flex - Slab formwork

- > **High efficiency because number of individual parts is limited**
 - Range of props and heads
 - H20 beams are solid wood
 - RINGER 3S formwork sheets
- > **Adaptable to wide range of differing layouts and slab thicknesses**
 - Flexibly adaptable to any layout, any slab size or thickness
- > **Primary beam and secondary beam spacing without grid**
- > **Quick, easy handling**
 - Quick, easy formwork set-up even when the layout is complicated
- > **Cost-effective and economical after even only a few use cycles**
 - Build-specific calculation to help minimise material stocks on site
 - High numbers of use cycles because system components are robust
- > **Safety throughout assembly and disassembly**
 - Working from floor level
 - Lowering head with quick-lowering function for fast, safe stripping of the formwork

Flex - Slab formwork

H20 beam

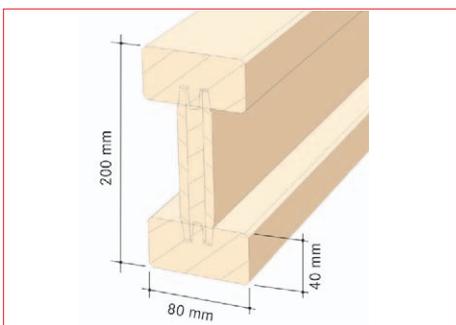


H20 timber beam

- Versatile
- Webs are solid wood
- Plastic cap to reinforce each beam end
- Waterproof coloured varnish finish as surface protection

Standard lengths:

- 1.25 / 1.80 / 1.95 / 2.45 / 2.65 / 2.90 / 3.30 / 3.60 / 3.90 / 4.90m
- Custom lengths up to 12.0 m possible on request



Weight: 4.4 kg/lin.m.

Permitted bending moment 5 kNm

Permitted shear force: 11 kN

Packed in units of: 50



Art. n°	Designation	Weight
10003724	H20 timber beam 4.90m	21.60 kg
10003713	H20 timber beam 3.90m	17.20 kg
10003715	H20 timber beam 3.60m	15.80 kg
10003712	H20 timber beam 3.30m	14.50 kg
10001688	H20 timber beam 2.90m	12.80 kg
10003909	H20 timber beam 2.65m	11.70 kg
10001655	H20 timber beam 2.45m	10.80 kg
10004355	H20 timber beam 1.95m	8.60 kg
10003087	H20 timber beam 1.80m	7.90 kg
10004452	H20 timber beam 1.25m	5.50 kg

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Formwork sheets



RINGER 3S formwork sheets

- Triple glue bonding
- Waterproof coloured varnish finish as surface protection

Thicknesses:

- 27mm / 21mm

Width:

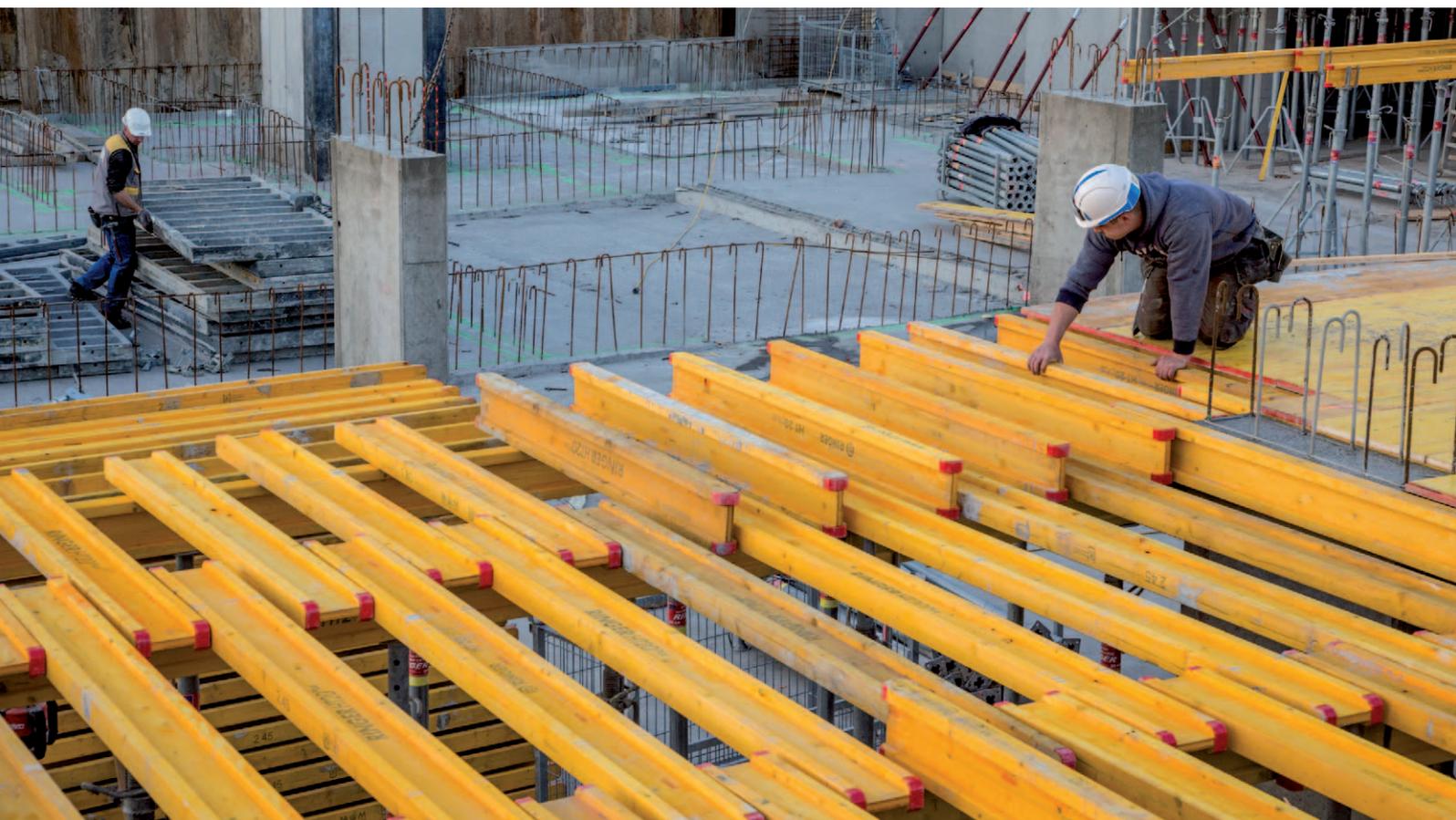
- 50 cm

Standard lengths:

- 150 / 200 / 250 / 300cm



Art. n°	Designation	Weight
10003640	3S formwork sheet 27mm 1.5 x 0.5m	9.10 kg
10003641	3S formwork sheet 27mm 2.0 x 0.5m	12.10 kg
10003642	3S formwork sheet 27mm 2.5 x 0.5m	15.10 kg
10003643	3S formwork sheet 27mm 3.0 x 0.5m	18.20 kg
10004552	3S formwork sheet 21mm 2.0 x 0.5m	9.70 kg



Floor props

20 kN / 30 kN



EU prop 20 kN

- hot-dip galvanised
- EN 1065 compliant
- Head plate 120 x 120 x 8 mm or 140 x 140 x 8 mm, hole \varnothing 41 mm
- Compatible with all common heads
- Fixing peg diameters 14 mm & 15 mm
- Smooth-action external thread
- Long lifespan
- Drop-out stop and anti-trap guard
- Hole numbering
- Loadable **up to 45.0 kN** (see data sheet)
- Permitted load as per table below at full extension

Art. No.	Class	Range of adjustment	Weight	Perm. load
10001788	BD25	1.51 - 2.50 m	14.50 kg	23 kN
10001789	BD30	1.80 - 3.00 m	15.50 kg	21 kN
10001084	CD35	1.98 - 3.50 m	20.00 kg	22 kN
10001085	CD40	2.25 - 4.00 m	22.00 kg	21 kN
10006657	CD45	2.50 - 4.50 m	27.00 kg	21 kN
10004454	CD55	3.10 - 5.50 m	35.00 kg	22 kN



EU prop 30 kN

- hot-dip galvanised
- EN 1065 compliant
- Head plate 120 x 120 x 8 mm or 140 x 140 x 8 mm, hole \varnothing 41 mm
- Compatible with all common heads
- Fixing peg diameter 16 mm
- Smooth-action external thread
- Long lifespan
- Drop-out stop and anti-trap guard
- Hole numbering (not E40)
- Loadable **up to 42.0 kN** (see data sheet)
- Permitted load as per table below at full extension

Art. n°	Class	Range of adjustment	Weight	Perm. load
10004221	CE30	1.80 - 3.00 m	18.50 kg	31 kN
10004222	CE35	2.00 - 3.50 m	22.40 kg	31 kN
10004223	CE40	2.25 - 4.00 m	26.10 kg	31 kN

Floor props

Class B / Trench struts



Floor prop industry class B

- EN 1065 compliant
- Head plate 120 x 120 x 6 mm, hole \varnothing 41 mm
- Compatible with all common heads
- Slip-ring for easy adjustment
- Fixing peg diameter 14 mm
- Greased, smooth-running, covered thread
- Long lifespan: dip-painted, galvanised thread sleeve and peg
- Drop-out stop and anti-trap guard
- Loadable **up to 30 kN** (see data sheet)
- Permitted load as per table below at full extension

Art. n°	Class	Range of adjustment	Weight	Perm. load
10001759	B30	1.84 - 3.00 m	14.00 kg	13.70 kN
10001760	B35	2.05 - 3.50 m	15.50 kg	11.80 kN
10001761	B40	2.35 - 4.00 m	22.00 kg	10.30 kN



Trench struts, standard type

- Covered thread
- Single-acting
- Large range of adjustment
- Thick-walled tubes:
 - Outer tube \varnothing 57 / 2.9 mm
 - Inner tube \varnothing 48.3 / 3.2 mm
- Permitted load 20 - 25 kN

Art. n°	Designation	Weight
10001951	Trench strut standard size 1 / 0.60 - 1.00m	6.00 kg
10001952	Trench strut standard size 2 / 0.90 - 1.50m	7.50 kg

Flex - Slab formwork

Accessories



Lowering head H20

- hot-dip galvanised
- With strong head plate
- With slot for securing
- Suitable for H20 and H24 profiles

Art. n°	Designation	Weight
10001782	Lowering head H20 galvanised without spring bolt	5.40 kg



4-way head H20

- hot-dip galvanised
- With strong head plate
- With slot for securing
- Suitable for H20 and H24 formwork beams

Art. n°	Designation	Weight
10001778	4-way head H20 galvanised without spring bolt	3.60 kg



Supporting head H20

- hot-dip galvanised
- With strong head plate
- With slot for securing
- Suitable for H20 and H24 profiles

Art. n°	Designation	Weight
10003621	Supporting head for H20 beam galv. w/o spring bolt	1.00 kg



Spring pin

- hot-dip galvanised
- Suitable for all heads

Art. n°	Designation	Weight
10003619	Spring bolt \varnothing 14mm suitable for all heads galv.	0.20 kg

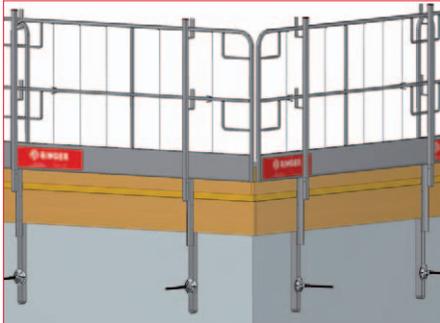


Tripod

- hot-dip galvanised
- With square-section profiles
- Clamping range from \varnothing 48 mm to \varnothing 90 mm

Art. n°	Designation	Weight
10002978	Tripod EU for props (foldable) galvanised	10.60 kg

Fall-protection barrier



Slab stop-end

- Attachment by tie rod and Combi plate or mushroom-head anchor
- Stepless height adjustment up to 25 cm

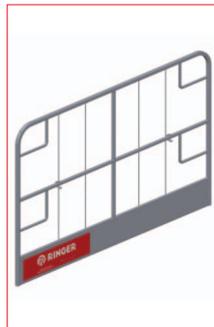
- galvanised



Slab end post adjustable

- Attachment by tie rod and Combi plate or mushroom-head anchor
- Range of horizontal adjustment up to 30 cm
- Stepless height adjustment

- galvanised



Side protection grids

- Side protection grid height: 1.20 m
- Side protection grid length: 2.70 / 2.20 / 1.75 / 1.45m
- Centre-to-centre spacing between uprights with guardrail posts 2.50m
- galvanised

Art. n°	Designation	Weight
10004385	Slab-end post adjustable galvanised	9.30 kg
10001109	Slab-end post galvanised	7.50 kg
10003054	Railing for concreting bracket galvanised	3.90 kg
10000872	Side protection grid 2.7m galvanised	21.30 kg
10005025	Side protection grid 2.2m galvanised	18.00 kg
10005026	Side protection grid 1.75m galvanised	15.20 kg
10004510	Side protection grid 1.45m galvanised	13.00 kg
10000873	Guardrail post for side protection grid galvanised	3.70 kg
10000220	Pallet for side protection grid galvanised	29.00 kg

Guardrail clamp

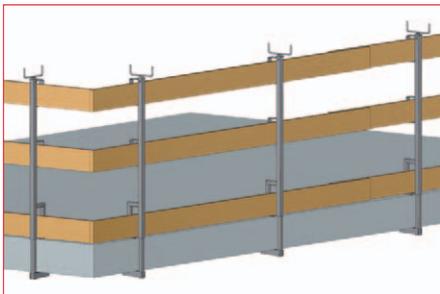


Advantages

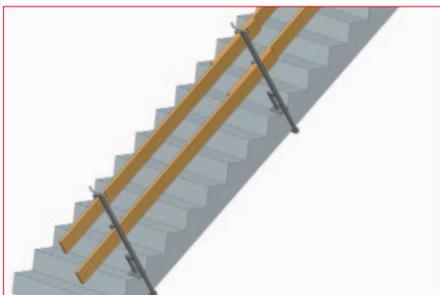
- Stepless clamping range max. 60 cm
- Simple, time-saving installation
- Best possible protection against falls (EN 13374 class "A")
- No losable parts
- Smooth action due to DW15 spindle
- Long-lasting due to hot-dip galvanisation
- Upright operation possible

Art. n°	Designation	Weight
10000851	Guardrail clamp 0- 0.60m galvanised	8.50 kg

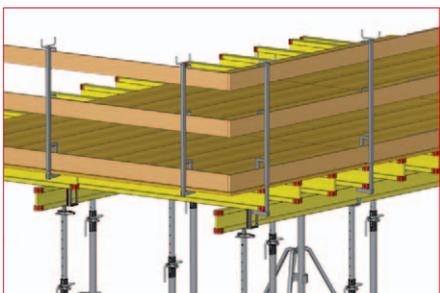
Floors



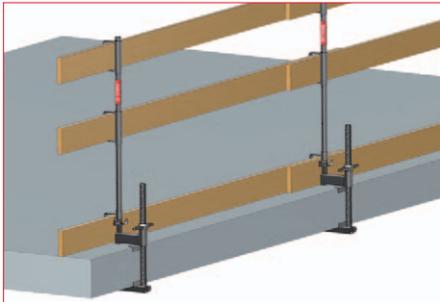
Stair stringers



Projecting scaffold on H20 beams

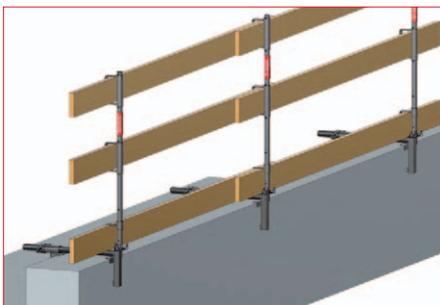


Protective railing



Advantages

- Quick and easy erection of safety barrier
- Guardrail board holders can be turned 360°
- Toe-board holder height-adjustable
- Slab thickness up to 40 cm with adjusting spindle
- Universally usable for parapets and railing parapets
- Durable because galvanised

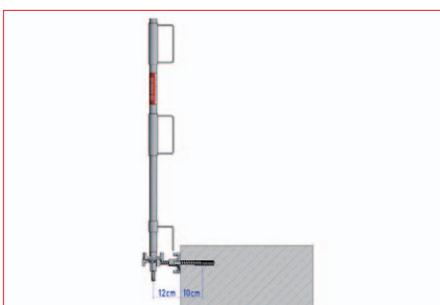


Installation with UNI clamp

- Attachment at slab edge
- Attachment to roof parapet
- Range of adjustment 5-45 cm



Installation of edge protection barrier with anchor sleeve



Installation of edge protection barrier with anchor sleeve and angle adapter

Art. n°	Designation	Weight
10001367	Protection railing screwable	5.53 kg
10001368	Uni clamp for protection railing	4.50 kg
10001366	Angle adapter for protection railing	1.40 kg
10003131	Anchor sleeve DW15, GRP L = 12.5cm	0.07 kg

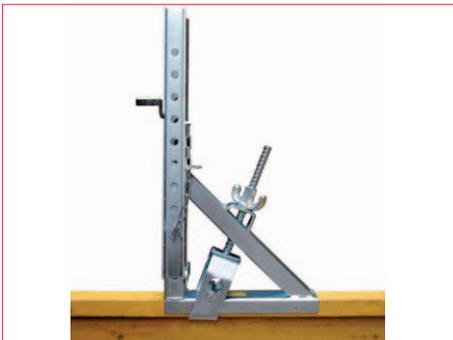
Beam forming support



Beam forming support

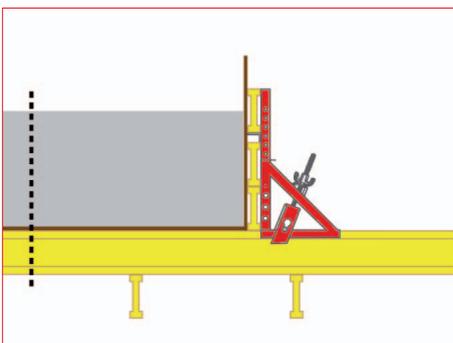
The beam forming support enables professional forming of downstand beams and slab stop ends on H20 timber beams. The clamp locks into position by itself, ensuring smooth concrete surfaces and tightly jointed edges.

- Dimensions (l x h) 30 cm x 35 cm



Extension for beam forming support 60cm

Beam forming support and extension for beam forming support, when combined, permit precision height adjustment. This makes the job of forming stop ends up to 60 cm high quick and easy. This solution puts an end to the time-consuming construction of wooden stopgap structures by site.



Straightforward installation

Position the extension for beam forming support on the H20 secondary beam and push it against the formwork.

- Max. formwork height 60 cm

The large contact surface of the beam forming support with extension for beam forming support enables an exact 90° angle.



Art. n°	Designation	Weight
10001000	Beam forming support 20cm galvanised	6.90 kg
10001001	Extension for beam forming support 60cm galv.	4.40 kg

Pallets and transport boxes



Pallet for floor props

Can accommodate:

- 50 floor props, class B or class A/residential construction
- 25 guardrails double railing
- 200 speedy scaffolding horizontal or diagonal braces

Outside dimensions (l x w x h) 100 x 80 x 73 cm

Art. n°	Designation	Weight
10001940	Pallet for props dip-coated	21.00 kg
10003451	Pallet for props galvanised	23.60 kg



Pallet for EU props

Can accommodate:

- 60 EU floor props (20 kN) up to size 3.5 m
- 50 EU floor props (20 kN) 4.0 m or larger
- 50 EU heavy-duty floor props (30 kN)

Outside dimensions (l x w x h) 157.5 x 107.5 x 73 cm

Art. n°	Designation	Weight
10003810	Pallet for EU props galvanised	43.00 kg



UNI container

Load-bearing capacity max. 1500 kg

Versions with or without flap

Imposed load max. 10000 kg

Dimensions (l x w x h) 120 x 80 x 71 cm

Art. n°	Designation	Weight
10003660	UNI container with flap galvanised	72.00 kg
10004321	UNI container without flap galvanised	70.00 kg



RINGER pallet cage

Load-bearing capacity max. 700 kg

Imposed load max. 2400 kg

Bottom made of 15mm plywood

Dimensions (l x w x h) 170 x 80 x 110 cm

Art. n°	Designation	Weight
10004323	RINGER pallet cage with flap galvanised	87.00 kg

LET'S BUILD



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