

www.ringer.at/en



Alu Master

**LET'S
BUILD**

 **RINGER**
SCAFFOLDING + FORMWORK



HEADQUARTERS IN REGAU

Your reliable partner for scaffolding and formwork.

RINGER quality since 1944:

- Flexible and quick solutions
- Absolute reliability
- Personal consultation on site
- Fast customised solutions
- We keep our promises
- With absolute passion
- A real family-run company

**What are we waiting for?
Let's build.**

Our head office and the heart of the company is the 111.000 m² manufacturing and logistic facility based in Regau, Austria. Incorporating worldwide distribution to over 50 countries and providing a centre of excellence for research and development makes RINGER a formidable formwork and scaffolding manufacturer.

With subsidiaries in Slovenia, Croatia, Hungary, Czech Republic and Germany, RINGER provides first class design solutions and on-site supervision for the most complex of projects.

Supporting international customers worldwide makes RINGER the ideal partner for all construction needs.





Master wall formwork for your construction site

RINGER WALL FORMWORK SYSTEMS ARE A MATCH FOR THE TOUGHEST APPLICATIONS. THE MASTER SYSTEM, AVAILABLE IN STEEL AND ALUMINIUM, SAVES RESOURCES, TIME AND MONEY ON THE CONSTRUCTION SITE.

Alu Master System

- Extensive variety of panels
- Crane independent forming
- Efficient and flexible
- Compatible with Steel Master and Master PRO
- Easy and cost-efficient handling



ALU MASTER

A LIGHTWEIGHT FORMWORK SYSTEM, FOR SECURE AND QUICK HANDLING EVEN WITHOUT CRANE.

Light weight and convenient carry handles ensure safe and particular quick handling of the Alu Master formwork even without crane.

High quality design of the powder coated profile allows a fresh concrete pressure of up to 60 kN/m² and guarantees trouble free and quick cleaning.

Protector corners prevent the fracture of welded seams, increase stability and simplify the stripping.

To exclude the possibility of confusion of the panels, we also offer this formwork system in all RAL colours. In addition, panels are serially engraved with sizes.

Product Features

ALU MASTER

> Performance

- 60 kN/m² fresh concrete pressure

> Versatile

- Panel height: 0,90m / 1,35m / 1,50m / 2,70m / 3,00m
- Panel width: 0,25m / 0,30m / 0,45m / 0,50m
0,55m / 0,60m / 0,75m / 0,90m

> Light weight

- Reduced workload in hand-set forming

> Crane independent

> Compatible with Steel Master

> Stable and ergonomic geometry

- Closed hollow profile from aluminium
- High quality powder coating
- Easy cleaning
- Simple handling due to practical grips
- Innovative protector corner
- Reinforced frame-profile

> Distinctive

- Engraved panel dimensions
- Engraved company name as an option
- Available in every RAL colour desired

Quality is in the details

ALU MASTER



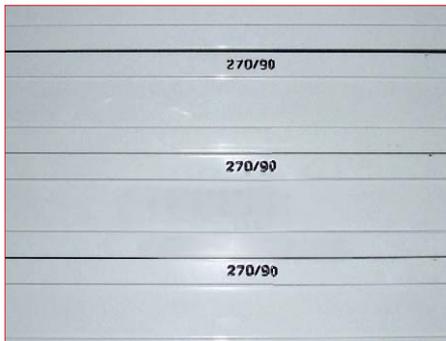
Reinforced hollow profile

The Alu Master panel is designed as a dimensionally stable, torsion-resistant hollow chamber profile. It is extremely light-weight and durable. The cross-strut provides additional stiffening and increases robustness. Alu Master is designed for a maximum fresh concrete pressure of 60kN/m².



Improved handling

The carry handles are welded to the frame profile and cross profile thus ensuring safe and comfortable handling.



Unmistakeable

The panel size is serially engraved on the top and bottom side, and enables prompt identification. Your company name can be engraved on request.



Customizability

Alu Master aluminium frames are available in every RAL- colour on request. Which is why it is almost impossible to mix up the panel at the jobsite.



Manual connection

The robust forged steel uni clamp makes the perfect inter-panel connection. Due to integrated clamp wedge, it can be mounted and locked single-handedly.



Aligning clamp

With its aligning effect, the aligning clamp ensures perfect connection of the panels. In addition it enables timber and compensation infills up to 10cm.



Corner protector

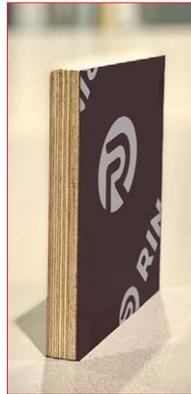
The protector corner allows easy leverage, prevents tearing of weld seams, increases structural stability and simplifies dismantling.



Effortless forming/stripping

The slot in the protector corner allows easy set up and stripping of the formwork using an alignment tool.

Plywood suitable for for perfect concreting results



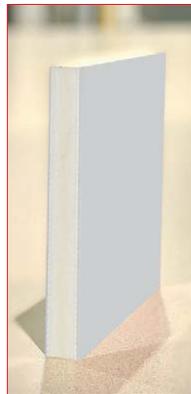
Phenolic coated plywood

- Sturdy multi-layered board of cross-glued birch wood, 18mm thick
- Double-side phenolic resin sealing [220g/m²]
- Edges sealed with water resistant varnish
- Smooth surface for high quality fair-faced concrete finish
- Excellent strength to weight ratio
- Simple recycling



Plastic coated plywood

- Sturdy multi-layered board from cross-glued birch wood, 18mm thick
- Double-side plastic coating [1.8mm]
- Resistant to chemicals and UV
- Easy nailing, no fragmentation
- Maximum abrasion resistance, no jolting marks
- No onion effect & no embrittlement
- No moisture penetration of the wood core
- Simple recycling



Solid-plastic plywood (ALKUS)

- Alkus solid plastic plywood, 19mm thick
- No moisture absorption
- More than 1000 applications
- No shrinking, swelling or rotting
- No rippling or discolouration of the concrete
- High UV resistance and abrasion resistance
- High resistance to acids, alkalis and chemicals
- Easy nailing & simple repairs
- Perfect fair-faced concrete quality
- Easy and fast cleaning using the high pressure cleaner



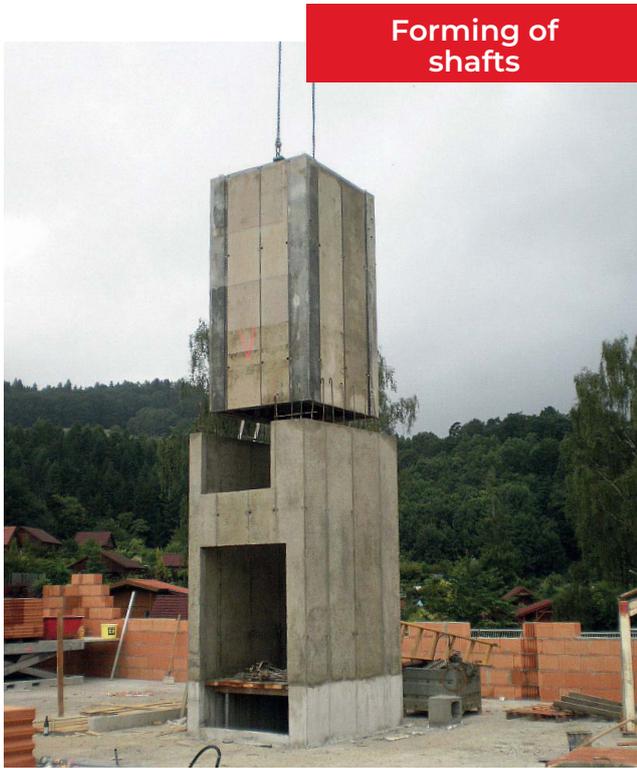
RINGER QUALITY

SINCE 1944

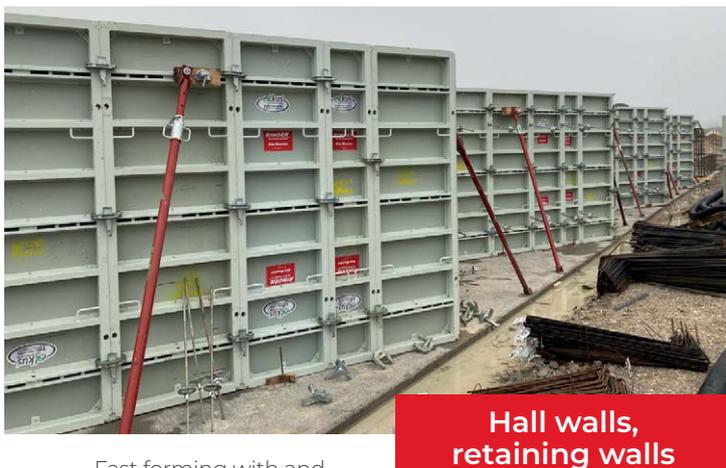
**LET'S
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Comprehensive configuration

Flexible in use



Ideal with Master Stripping Corner



Fast forming with and without crane





Circular tanks

Master Formwork combined with Master Circular Forming Plates

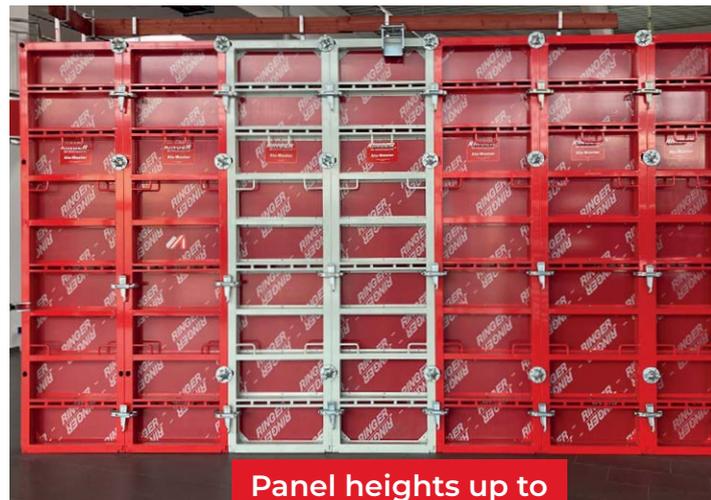


Columns

Forming columns with Uni Panels



Safety



Panel heights up to 3 meter

Concreting platforms, props and brace frames complete the product portfolio

Article list

Alu Master



Panel height 3.00m (plastic coated plywood)

Art. No.	Description	m ²	weight	Art. No.	Description	weight
E704 75	Panel 300/75	2.25m ²	68.50 kg	703V133	Outside corner 300	43.50 kg
E704 60	Panel 300/60	1.80m ²	63.50 kg	E803 51	Inside corner 300/30/30	57.00 kg
E704 55	Panel 300/55	1.65m ²	60.00 kg	703V341	Hinged outside corner 300/6/6	65.50 kg
E704 50	Panel 300/50	1.50m ²	59.00 kg	703V34	Hinged inside corner 300/30/30	143.50 kg
E704 45	Panel 300/45	1.35m ²	55.00 kg	709V5	Stripping corner 300/30/30	225.00 kg
E704 30	Panel 300/30	0.90m ²	43.50 kg	704V822	Compensation panel 300/10	17.00 kg
E704 25	Panel 300/25	0.75m ²	39.00 kg	704V812	Compensation panel 300/5	16.00 kg
E704 751	Uni-Panel 300/75	2.25m ²	75.00 kg	704V872	Compensation panel 300/3	13.50 kg
				704V882	Compensation panel 300/2	11.80 kg

Panel height 2.70m (plastic coated plywood)

Art. No.	Description	m ²	weight	Art. No.	Item	weight
E701N90	Panel 270/90	2.43m ²	69.50 kg	703V13	Outside corner 270	38.00 kg
E701 75	Panel 270/75	2.02m ²	60.00 kg	E703 212S	Inside corner 270/30/30	49.00 kg
E701 60	Panel 270/60	1.62m ²	51.00 kg	E703B112S	Inside corner 270/25/25	41.00 kg
E701 55	Panel 270/55	1.48m ²	47.00 kg	703V141	Hinged outside corner 270/6/6	57.00 kg
E701 50	Panel 270/50	1.35m ²	46.00 kg	703V14	Hinged inside corner 270/30/30	124.00 kg
E701 45	Panel 270/45	1.22m ²	43.00 kg	706V2	Stripping corner 270/30/30	202.00 kg
E701 30	Panel 270/30	0.81m ²	33.00 kg	704V9	Stripping panel 270/10	49.50 kg
E701 25	Panel 270/25	0.68m ²	30.00 kg	704V82	Compensation panel 270/10	15.00 kg
E701 751	Uni-Panel 270/75	2.02m ²	66.00 kg	704V81	Compensation panel 270/5	14.00 kg
				704V87	Compensation panel 270/3	11.20 kg
				704V88	Compensation panel 270/2	10.70 kg

Panel height 1.50m (plastic coated plywood)

Art. No.	Description	m ²	weight
E702 490	Panel 150/90	1.35m ²	42.50 kg
E702 475	Panel 150/75	1.13m ²	37.50 kg
E702 460	Panel 150/60	0.90m ²	32.50 kg
E702 455	Panel 150/55	0.83m ²	31.00 kg
E702 450	Panel 150/50	0.75m ²	29.00 kg
E702 445	Panel 150/45	0.68m ²	27.50 kg
E702 430	Panel 150/30	0.45m ²	22.50 kg
E702 425	Panel 150/25	0.38m ²	20.50 kg
E702 752	Uni-Panel 150/75	1.13m ²	41.00 kg

Art. No.	Item	weight
703V134	Outside corner 150	22.00 kg
703B216S	Inside corner 150/30/30	29.00 kg
703V146	Hinged outside corner 150/6/6	33.00 kg
703V147	Hinged inside corner 150/30/30	72.50 kg
704V89	Compensation panel 150/10	10.00 kg
704V90	Compensation panel 150/5	8.00 kg

Panel height 1.35m (plastic coated plywood)

Art. No.	Description	m ²	weight
E702 390	Panel 135/90	1.24m ²	38.00 kg
E702 375	Panel 135/75	1.01m ²	33.00 kg
E702 360	Panel 135/60	0.81m ²	27.00 kg
E702 355	Panel 135/55	0.74m ²	25.00 kg
E702 350	Panel 135/50	0.67m ²	23.00 kg
E702 345	Panel 135/45	0.61m ²	21.00 kg
E702 340	Panel 135/40	0.54m ²	20.00 kg
E702 330	Panel 135/30	0.40m ²	18.00 kg
E702 325	Panel 135/25	0.34m ²	16.00 kg
E702 751	Uni-Panel 135/75	1.01m ²	39.00 kg

Art. No.	Description	weight
703V131	Inside corner 135	20.00 kg
E703 214S	Inside corner 135/30/30	25.00 kg
803V241	Hinged outside corner 135/6/6	26.00 kg
803V24	Hinged Inside corner 135/30/30	68.00 kg
706V1	Stripping corner 135/30/30	107.00 kg
704V10	Stripping panel 135/10	26.00 kg
704V84	Compensation panel 135/10	8.50 kg
704V83	Compensation panel 135/5	7.50 kg

Panel height 0.90m (plastic coated plywood)

Art. No.	Description	m ²	weight
E702 90	Panel 90/90	0.81m ²	27.00 kg
E702 75	Panel 90/75	0.68m ²	23.00 kg
E702 60	Panel 90/60	0.54m ²	18.50 kg
E702 55	Panel 90/55	0.50m ²	19.00 kg
E702 50	Panel 90/50	0.45m ²	17.00 kg
E702 45	Panel 90/45	0.41m ²	16.00 kg
E702 30	Panel 90/30	0.27m ²	13.00 kg
E702 25	Panel 90/25	0.23m ²	12.00 kg
E702 752	Uni-Panel 90/75	0.68m ²	28.00 kg

Art. No.	Description	weight
703V16	Outside corner 90	13.90 kg
E703 213S	Inside corner 90/30/30	18.00 kg
E703B122S	Inside corner 90/25/25	16.00 kg
703V241	Hinged outside corner 90/6/6	20.00 kg
703V24	Hinged inside corner 90/30/30	48.00 kg
704V11	Stripping panel 90/10	18.00 kg
704V86	Compensation panel 90/10	5.50 kg
704V85	Compensation panel 90/5	5.00 kg

Accessories

Alu Master



Uni clamp
friction locked connection
with a hammer blow



Master aligning clamp
friction locked connection
up to 10cm opening width



Master adjustable clamp
up to 20cm



Master stop end coupler
up to 40cm wall thickness



**Combi plate DW15 and
Tie rod DW15**



Spacer tube
waterproof



**Foundation clamp and
Perforated tape for founda-
tion formwork**



Master crane hook
Load capacity up to 1.800 kg



Push-Pull Prop Size 1/2/C
with extension up to 10m
formwork height



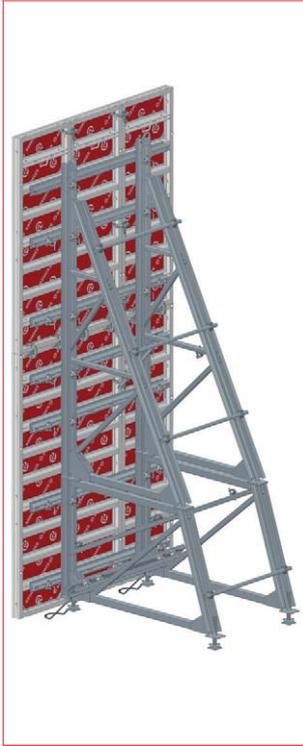
Mounting Push-Pull Prop
mounted with RS-Clamp to
the functional profile



Concreting bracket
with railing



Concreting Platform „L“
width 2.70m



Brace frame „S“
incl. attachable frame up
to 6m



Waler 100 and 150



**Master uni fixing bolt and
RS-clamp**



UNI-Container
stackable, with or without
flap (800x1.200mm)



Brace Frame „L“
up to 4.5m



Pallet
up to 4 pallets stackable on
top of each other



Accessory box
stackable, e.g. also with
pallet for formwork



Compensation panels
2/3/5/10cm



Hinged corners
for inside and outside



Circular forming plate



Stripping corner
for rational internal forming
of shafts

Reference projects

**Recycling center
Vöcklabruck**



The retaining wall was formed using Alu Master panels with Alkus plywood



**Water protection basin
Packsattel**

Individually powder coated Alu Master panels equipped with Alkus plywood



**Office building
refurbished**

Alu Master equipped with plastic plywood- also suitable for inclined applications



**Family home in
Mondsee**

Efficient forming with and without crane

Reference projects



**Circular tank
Kundl**

In combination with the Master circular forming plate, round tanks are quickly formed. In the picture Alu Master is combined with Steel Master.



**Construction project
Kritzendorf**

Single sided forming with RINGER brace frames.



Hospital Liezen

Alu Master panels can be combined as desired, which makes them readily adaptable to any layout.



Basement Braunau

Basement forming done the easy way. Alu Master and Steel Master panels match each other perfectly.

LET'S BUILD



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