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**alfer**<sup>®</sup>  
aluminium

Hardware catalogue

**combitech**<sup>®</sup> system | Model construction



# combitech<sup>®</sup> system | Model construction

## Explanations

### Colour guide materials

AGK	Aluminium casting, tumbling polished	MES	Brass, solid or brass, shiny solid
AGP	Aluminium casting, powder-coated	CU	Copper, solid
ALC	<b>alferceram</b> <sup>®</sup> , ceramic powder-coated aluminium	ABS	Plastic, acrylonitrile butadiene styrene
ALCR	Aluminium chrome-plated	EPDM	Plastic, ethylene propylene diene rubber
ALG	Aluminium, vibratory finish	EVA	Plastic, ethylene vinyl acetate
ALK	Aluminium, tumble polished	GUM	Rubber
ALM	Brass-plated aluminium	PA	Plastic, polyamide
ALO	<b>alferoxal</b> <sup>®</sup> , multicolour aluminium, anodized	PC	Plastic, polycarbonate
ALP	Powder-coated aluminium	PE	Plastic, polyethylene
ALU	Uncoated aluminium	PET	Plastic, polyethylene terephthalate
ALX	Anodized aluminium	POM	Plastic, polyoxymethylene
EDL	Stainless steel	PP	Plastic, polypropylene
FER	Hard ferrite	PS	Plastic, polystyrene
GUS	Cast iron	PU	Plastic, polyurethane
SGC	Injection moulded, chrome-plated	PVC	Plastic, polyvinylchloride
STA	Steel or steel, galvanized	TPE	Plastic, thermoplastic elastomers
		EHO	Real wood

### Packaging

**loose:** The item is not packed.

**shrink-wrapped:** The loose item is shrink-wrapped in transparent PE foil.

**shrink-wrapped SS:** The shrink-wrapped item comes with a SS Euro-perforation allowing it to be suspended.

**SS bag:** The item is packed in a transparent LDPE bag (Euro-perforation).

**SS polybag:** The article comes in a PE tube.

**SS box:** the item is packed in a transparent box with Euro-perforation.

**SS cardboard box:** The item comes in a SS cardboard box.

**on roll:** The item comes on a roll and can be cut to measure.

**sealed:** The item is sealed with a transparent PE foil.

**foil-wrapped, one-sided:** The item is covered on one side with a protective foil.

**rolled in a box:** The item is packed rolled up in a box.

**clap-pac:** The item comes in impact-resistant, transparent, PVC snapshut packaging (multi-perforation) and can be re-closed.

**Min. OU:** The minimum order unit specifies both the minimum order quantity of an item and the order unit.  
e. g.: Min. OU = 5 pcs.: means that orders must either be for a minimum of 5 pieces of this item, or multiples thereof.

**PU:** Packaging unit.

### Explanations Brand Names

#### Important Note!

The following trademarks (®, M. R.) are registered for the **alfer**<sup>®</sup> aluminium Gesellschaft mbH, D-79793 Wutöschingen, (as of: 01.09.2013)

<b>alfer</b> <sup>®</sup>	(EU) (CH)
<b>alferoxal</b> <sup>®</sup>	(B) (D) (F) (I) (L) (NL) (A) (P) (CH)
<b>alferceram</b> <sup>®</sup>	(B) (D) (F) (I) (L) (NL) (A) (P) (CH)
<b>clipstech</b> <sup>®</sup>	(EU) (MEX)
<b>combitech</b> <sup>®</sup>	(EU) (CH) (MEX)
<b>cabelino</b> <sup>®</sup>	(EU) (CH)
<b>logika</b> <sup>®</sup>	(EU)
<b>ferroplatan</b> <sup>®</sup>	(EU)
<b>coaxis</b> <sup>®</sup>	(EU) (USA) (MEX)
<b>x-star</b> <sup>®</sup>	(EU) (USA)
<b>easyrack</b> <sup>®</sup>	(EU)

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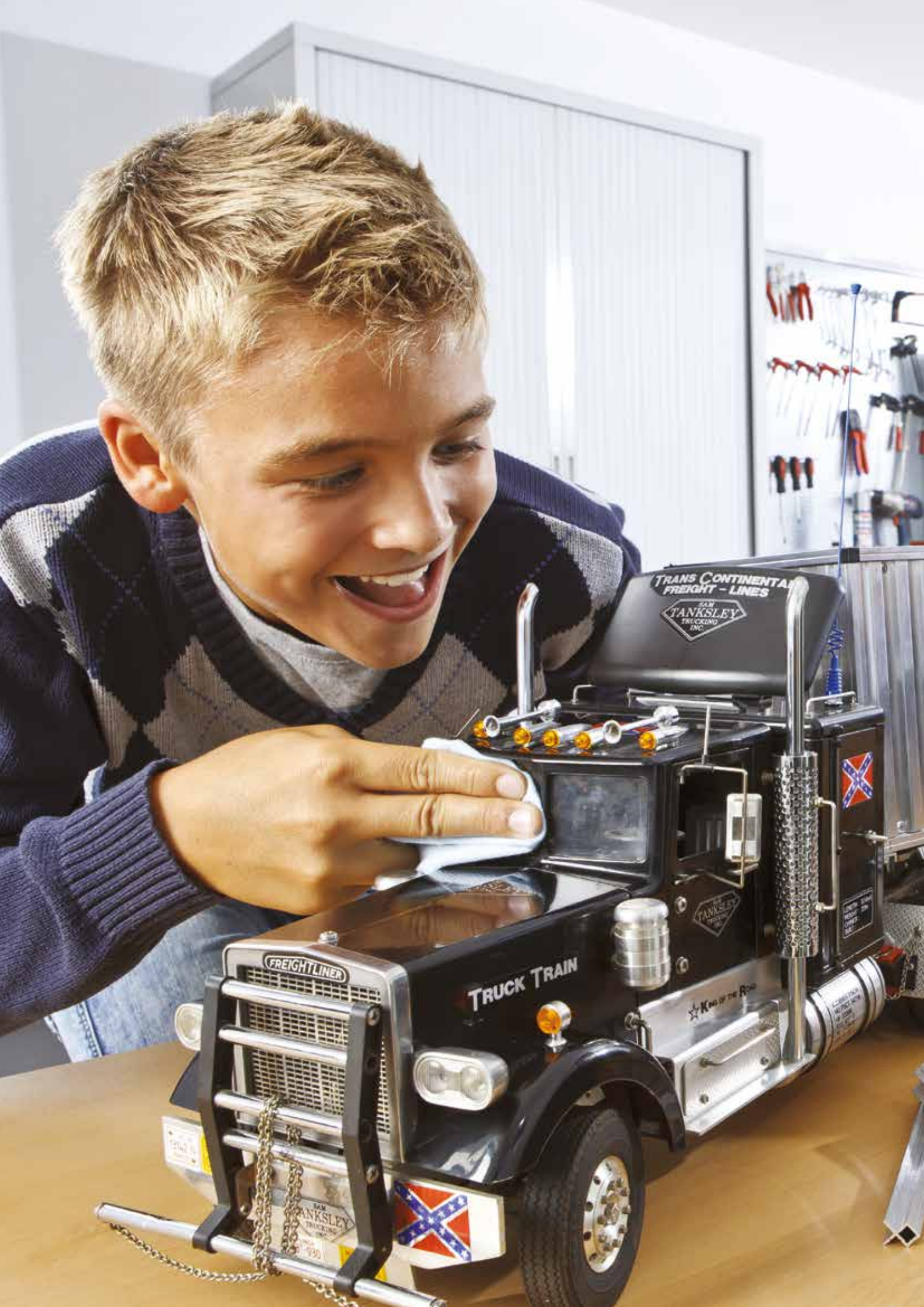




### In the heart of Europe

Nestled between the Upper Rhine and the Southern Black Forest is the Wutachtal Valley. Close to both Switzerland and France, this has been home to many world leading aluminium specialists for decades. Today, it is Europe's largest connected economic area for the production and processing of aluminium. It is therefore unsurprising that the region is also known as the 'Aluminium Valley'. This is also the place where the **alfer** success story began in 1973 in Wutöschingen, Baden-Württemberg. Since then, **alfer** has used this site to develop a whole range of aluminium profiles, primarily for DIY enthusiasts and tradespeople, which set even international standards.







# **combitech®** system | Model construction



# combitech<sup>®</sup> system | Model construction

## Range overview

### Model building made easy

#### The **combitech**<sup>®</sup>-connect system (7.5 mm)

**alfer**<sup>®</sup> has a penchant for model building. This is demonstrated, for example, by the practical **combitech**<sup>®</sup>-connect connectors (7.5 mm). These are made from robust plastic (polyamide) and make both recreational and professional model building projects easy. Whether crane systems, car parks or railway bridges: even the most demanding of models can be created in the shortest of times thanks to **combitech**<sup>®</sup>-connect.

**combitech**<sup>®</sup> -connect connectors are available in black and white as 45°, 90° and 150° versions as well as in several different shapes. They can be combined with all square tubes and special profiles in the 7.5 mm series.

#### Good advice regarding wheels

Want to build windmills, water wheels or Ferris wheels? By combining the 150° connect connectors with connect bearings, all kinds of wheel-based structures can be created. You can select the size of your wheel – simply based on the length of the profile.

#### Precision model building: **combitech**<sup>®</sup> system profiles

Square tubes and special profiles in the 7.5 mm series have been specially designed for model building. Whether in the architecture industry, the urban development sector or the automotive sector: with the aid of the sophisticated **combitech**<sup>®</sup> system, you can quickly and effectively create presentable 3D models of your ideas. Even delicate details such as stairs or fences can be easily created with the sturdy, lightweight and versatile **combitech**<sup>®</sup> system profiles made from aluminium. In combination with the many different **alfer**<sup>®</sup> sheet types, you can give your imagination free reign. Amaze your audience!

#### Authentic special profiles

Whether crash barrier, sheet piling or container wall profiles – an authentic look is a matter of course for **alfer**<sup>®</sup>.



# combitech<sup>®</sup> system | Model construction

## Range overview

### Sophisticated through and through

#### Suitable system accessories

Useful accessory ideas make model building easier than ever. The universal deburrer deburrs edges to make work easier and reduce the risk of injury. Suitable screw sets plus blind and round-headed rivets and double-sided adhesive tape provide reliable stability.

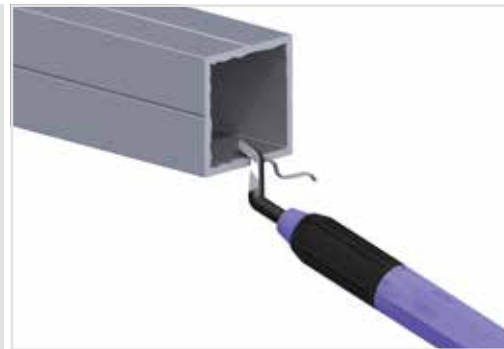
#### combitech<sup>®</sup> system logika<sup>®</sup>

The name says it all: the **logika**<sup>®</sup> range offers logically perforated profiles that prevent you from having to create your own holes. They also sensibly complement the **combitech**<sup>®</sup> system. With the **logika**<sup>®</sup> profiles you can build shelves, tables or steps in an instant. The **logika**<sup>®</sup> range is also the ideal solution for creating order in rooms, delivery vans and construction site vehicles. Furthermore, the **logika**<sup>®</sup> system profiles look great when used to construct designer furniture, for example in the form of sideboards, desks or shelving solutions for modern living environments.

Discover the **logika**<sup>®</sup> profile range and get to work right away. You will be amazed at the speed at which **logika**<sup>®</sup> profiles can create attractive and highly sturdy results.

#### Lightweight construction: Plastic system profiles

The ultra-light **alfer**<sup>®</sup> system profiles made from plastic (hard PVC) are available with several cross-sections and ideal for the broadest range of model building activities. The 7.5 mm system profiles come with easy-to-use, patented drilling alignment groove – making them ideal for accurate drilling and precisely aligned drill holes. Tip: the profiles can be easily connected together with the aid of suitable plastic adhesive. Any areas of dirt can be effortlessly cleaned using a cloth and detergent or a special plastic cleaner.





# combitech<sup>®</sup> system | Model construction

## Range overview

### Available in five versions: Brass system profiles

Round tubes, round bars, brackets with equal members, flat bars and square bars – these are the system profiles available in brass.

### Harder than hard: Steel system profiles

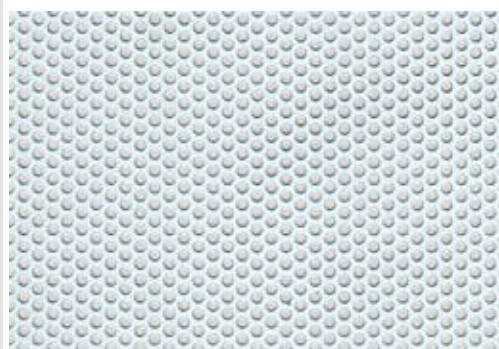
The **alfer**<sup>®</sup> model building range also offers you steel system profiles. Three different cross-section designs are available: round tube, round bar and square bar

### Completely solid: Metric threaded rods

Depending on requirements, **alfer**<sup>®</sup> metric threaded rods are available in stainless steel, brass and galvanised steel versions.

### Various different finishes: Plain and embossed sheets, plastic sheets, perforated sheets and expanded metal

The finish makes the difference! **alfer**<sup>®</sup> offers you the perfect finishes for your project – in various different materials and structures. Discover the astonishing diversity and give your model building projects the appearance you desire.





# combitech<sup>®</sup> system | Model construction

## Range overview

### connect connector 7.5 mm | Plastic (PA)

12–18



- 150° 3-D T-connector, 3 spigots
- 150° nodal connector, 4 spigots
- 150° square connector, 2 spigots
- 150° T-connector, 3 spigots
- 45° 3-D T-connector, left, 3 spigots
- 45° 3-D T-connector, right, 3 spigots
- 45° nodal connector, 4 spigots
- 90° edge connector, 3 spigots
- 90° square connector, 2 spigots
- 90° T-connector, 3 spigots
- Articulated connector, 2 spigots
- Articulated flange connector, 1 spigot
- Bearing, 6 spigots
- Cross connector, 4 spigots
- End block
- End cap
- Flange connector, 1 spigot
- Nodal connector, 4 spigots
- Nodal connector, 5 spigots
- Nodal connector, 6 spigots

PA

### System profiles | Aluminium

19–28



- Angle, equal-sided
- Angle, unequal-sided
- Container wall profile
- Covering profile, one-sided
- Covering profile, two-sided
- Flat bar
- Guard rail profile
- H section
- Hinge profile
- Hinge profile, short
- Rectangular tube
- Rectangular U
- Round bar
- Round tube
- Sheet pile wall profile
- Square edge profile
- Square T
- Square tube
- Square tube, 1 branch
- Square tube, 1 branch offset
- Square tube, 2 branches 180°
- Square tube, 2 branches inside
- Square tube, 2 branches offset
- Square U
- Square U, 2 branches 180°
- Support profile, one-sided
- Support profile, two-sided
- T-profile

ALU



### System accessories

29–30



- Adhesive tape, double-sided
- Blind rivet
- Countersunk screw set
- Round-headed rivet
- Universal deburrer

ALU

STA

### System profiles | logika<sup>®</sup>

31



- Angle, equal-sided, slotted
- Cylinder head screw set






ALU

ALX

STA

# combitech<sup>®</sup> system | Model construction

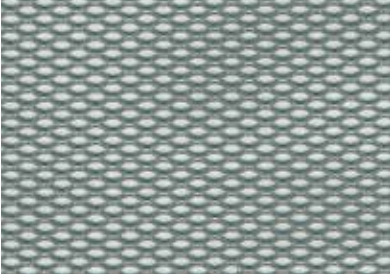
## Range overview

System profiles   Plastic (hard PVC)		32–34
	<ul style="list-style-type: none"> <li>· Angle, equal-sided</li> <li>· Angle, unequal-sided</li> <li>· Flat bar</li> <li>· Rectangular tube</li> <li>· Rectangular U</li> <li>· Round tube</li> <li>· Square T</li> <li>· Square tube</li> <li>· Square U</li> </ul>	PVC
System profiles   Brass, solid		35–36
	<ul style="list-style-type: none"> <li>· Angle, equal-sided</li> <li>· Flat bar</li> <li>· Round bar</li> <li>· Round tube</li> <li>· Square bar</li> </ul>	MES
System profiles   Steel		37
	<ul style="list-style-type: none"> <li>· Round bar, drawn steel</li> <li>· Round tube in cold rolled steel</li> <li>· Square bar, drawn steel</li> </ul>	STA
Metric threaded rods		38
	<ul style="list-style-type: none"> <li>· Metric threaded rod</li> </ul>	EDL
		STA
		MES
Smooth and embossed sheets, plastic panels		39–42
	<ul style="list-style-type: none"> <li>· Barleycorn</li> <li>· Checker plate</li> <li>· Corrugated sheet</li> <li>· Plastic panel (PC, transparent)</li> <li>· Sheet, aluminium, anodized</li> <li>· Sheet, aluminium, coated</li> <li>· Sheet, aluminium, uncoated</li> <li>· Sheet, raw steel</li> <li>· Sheet, solid copper</li> <li>· Sheet, stainless steel</li> <li>· Sheet, steel, galvanized</li> </ul>	PC
		ALU
		ALX
		ALP
		STA
		EDL
		CU



# combitech<sup>®</sup> system | Model construction

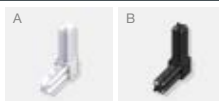
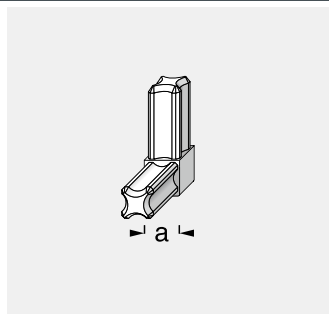
## Range overview

<b>Perforated sheets and stretch metal</b>	<b>43–44</b>
 <ul style="list-style-type: none"> <li>· Round hole sheet</li> <li>· Slotted hole sheet</li> <li>· Square hole sheet</li> <li>· Stretch metal</li> </ul>	ALU
	ALX
	ALP
	STA
<b>Explanations</b>	<b>page 2</b>
<b>alfer<sup>®</sup> makes you mobile</b>	<b>IND-1</b>
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# **combitech<sup>®</sup> system | Model construction** **connect connector 7.5 mm | Plastic (PA)**

## **90° square connector, 2 spigots**

PA

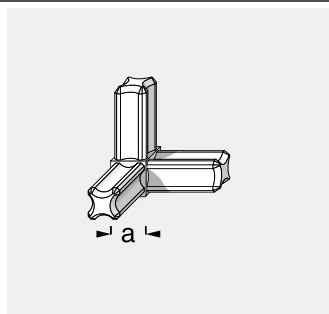


Min. OU: 5 pcs.

Plastic (PA)					EAN / Item no.
Colour	Dim. a	PU	Packaging		
A white	7.5 mm	4 pieces	SS box		4001116 28520 2
B black	7.5 mm	4 pieces	SS box		4001116 28500 4

## **90° edge connector, 3 spigots**

PA

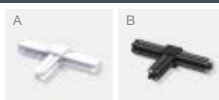
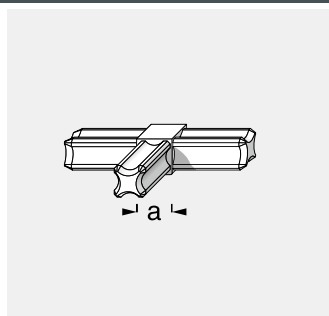


Min. OU: 5 pcs.

Plastic (PA)					EAN / Item no.
Colour	Dim. a	PU	Packaging		
A white	7.5 mm	4 pieces	SS box		4001116 28600 1
B black	7.5 mm	4 pieces	SS box		4001116 28580 6

## **90° T-connector, 3 spigots**

PA



Min. OU: 5 pcs.

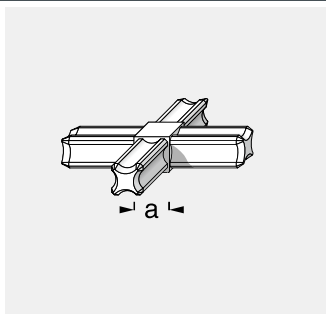
Plastic (PA)					EAN / Item no.
Colour	Dim. a	PU	Packaging		
A white	7.5 mm	4 pieces	SS box		4001116 28560 8
B black	7.5 mm	4 pieces	SS box		4001116 28540 0



# **combitech**<sup>®</sup> system | Model construction connect connector 7.5 mm | Plastic (PA)

## **Cross connector, 4 spigots**

PA



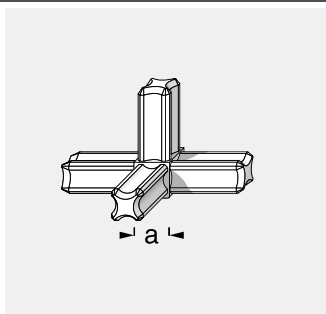
Min. OU: 5 pcs.

### **Plastic (PA)**

Colour	Dim. a	PU	Packaging	EAN / Item no.
A white	7.5 mm	4 pieces	SS box	4001116286025
B black	7.5 mm	4 pieces	SS box	4001116285820

## **Nodal connector, 4 spigots**

PA



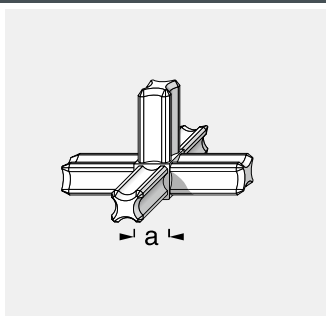
Min. OU: 5 pcs.

### **Plastic (PA)**

Colour	Dim. a	PU	Packaging	EAN / Item no.
A white	7.5 mm	4 pieces	SS box	4001116286407
B black	7.5 mm	4 pieces	SS box	4001116286209

## **Nodal connector, 5 spigots**

PA



Min. OU: 5 pcs.

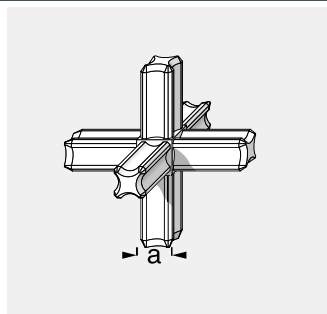
### **Plastic (PA)**

Colour	Dim. a	PU	Packaging	EAN / Item no.
A white	7.5 mm	4 pieces	SS box	4001116286421
B black	7.5 mm	4 pieces	SS box	4001116286223

# **combitech<sup>®</sup> system | Model construction** **connect connector 7.5 mm | Plastic (PA)**

## **Nodal connector, 6 spigots**

PA



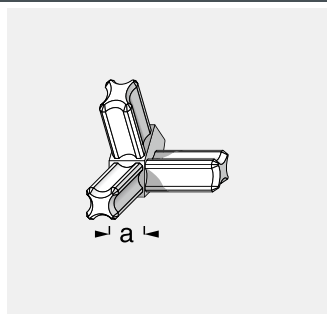
Min. OU: 5 pcs.

### **Plastic (PA)**

Colour	Dim. a	PU	Packaging	EAN / Item no.
A white	7.5 mm	4 pieces	SS box	4001116 28523 3
B black	7.5 mm	4 pieces	SS box	4001116 28503 5

## **45° 3-D T-connector, left, 3 spigots**

PA



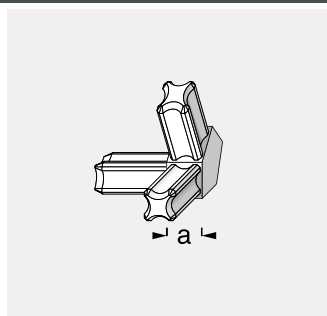
Min. OU: 5 pcs.

### **Plastic (PA)**

Colour	Dim. a	PU	Packaging	EAN / Item no.
A white	7.5 mm	4 pieces	SS box	4001116 28521 9
B black	7.5 mm	4 pieces	SS box	4001116 28501 1

## **45° 3-D T-connector, right, 3 spigots**

PA



Min. OU: 5 pcs.

### **Plastic (PA)**

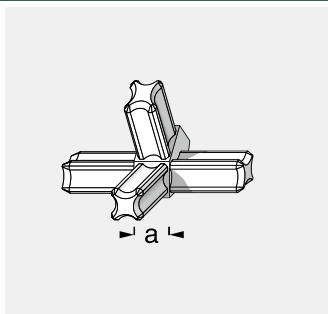
Colour	Dim. a	PU	Packaging	EAN / Item no.
A white	7.5 mm	4 pieces	SS box	4001116 28561 5
B black	7.5 mm	4 pieces	SS box	4001116 28541 7



# **combitech**<sup>®</sup> system | Model construction connect connector 7.5 mm | Plastic (PA)

## 45° nodal connector, 4 spigots

PA

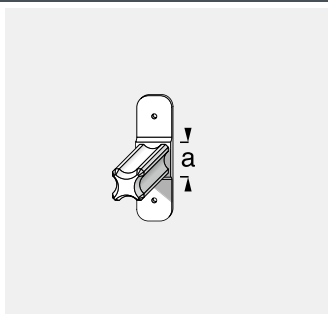


Min. OU: 5 pcs.

Plastic (PA)				
Colour	Dim. a	PU	Packaging	EAN / Item no.
A white	7.5 mm	4 pieces	SS box	4001116286018
B black	7.5 mm	4 pieces	SS box	4001116285813

## Flange connector, 1 spigot

PA

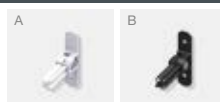
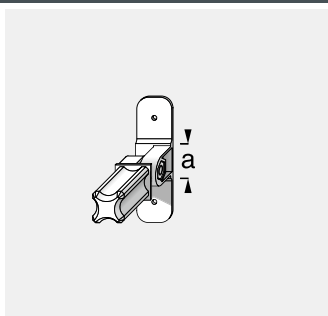


Min. OU: 5 pcs.

Plastic (PA)				
Colour	Dim. a	PU	Packaging	EAN / Item no.
A white	7.5 mm	4 pieces	SS box	4001116285226
B black	7.5 mm	4 pieces	SS box	4001116285028

## Articulated flange connector, 1 spigot

PA



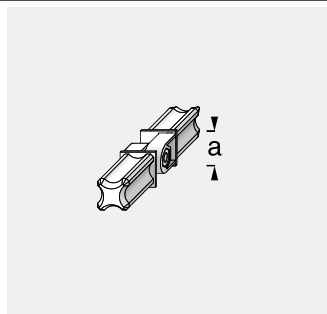
Min. OU: 5 pcs.

Plastic (PA)				
Colour	Dim. a	PU	Packaging	EAN / Item no.
A white	7.5 mm	1 piece	SS box	4001116285622
B black	7.5 mm	2 pieces	SS box	4001116285424

# **combitech<sup>®</sup> system | Model construction** **connect connector 7.5 mm | Plastic (PA)**

## **Articulated connector, 2 spigots**

PA

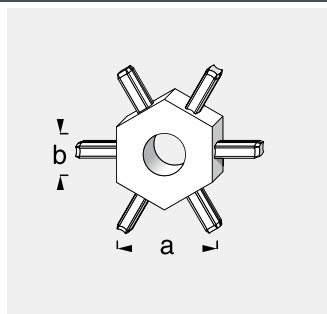


Min. OU: 5 pcs.

Plastic (PA)					
Colour	Dim. a	PU	Packaging	EAN / Item no.	
A white	7.5 mm	2 pieces	SS box	4001116 28641 4	
B black	7.5 mm	2 pieces	SS box	4001116 28621 6	

## **Bearing, 6 spigots**

PA

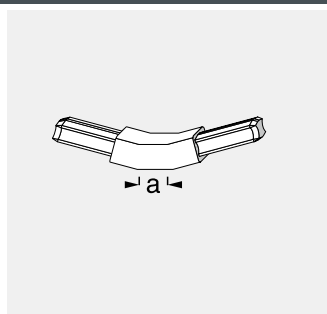


Min. OU: 5 pcs.

Plastic (PA)					
Colour	Dim. a	Dim. b	PU	Packaging	EAN / Item no.
A black	36.2 mm	16.0 mm	1 piece	SS box	4001116 28004 7

## **150° square connector, 2 spigots**

PA



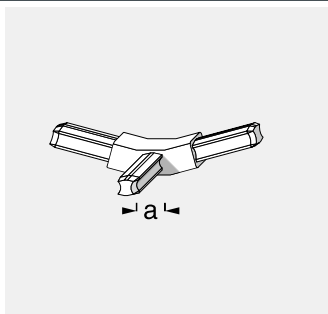
Min. OU: 5 pcs.

Plastic (PA)					
Colour	Dim. a	PU	Packaging	EAN / Item no.	
A black	7.5 mm	3 pieces	SS box	4001116 28000 9	

# **combitech**<sup>®</sup> system | Model construction connect connector 7.5 mm | Plastic (PA)

## 150° 3-D T-connector, 3 spigots

PA

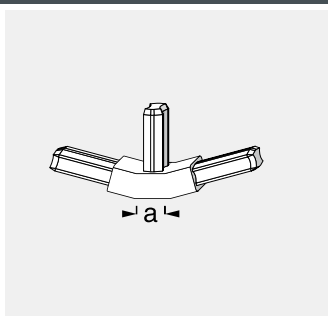


Min. OU: 5 pcs.

Plastic (PA)				
Colour	Dim. a	PU	Packaging	EAN / Item no.
A black	7.5 mm	3 pieces	SS box	4001116280016

## 150° T-connector, 3 spigots

PA

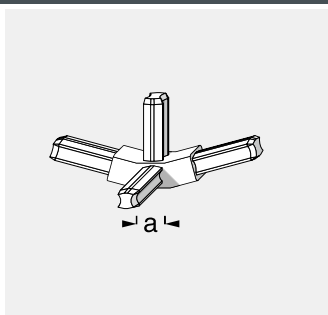


Min. OU: 5 pcs.

Plastic (PA)				
Colour	Dim. a	PU	Packaging	EAN / Item no.
A black	7.5 mm	3 pieces	SS box	4001116280023

## 150° nodal connector, 4 spigots

PA


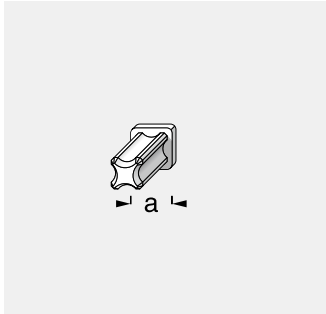





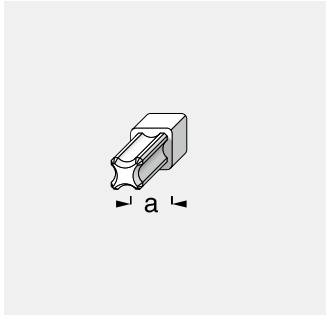


Min. OU: 5 pcs.

Plastic (PA)				
Colour	Dim. a	PU	Packaging	EAN / Item no.
A black	7.5 mm	3 pieces	SS box	4001116280030

# combitech<sup>®</sup> system | Model construction

## connect connector 7.5 mm | Plastic (PA)

End cap					PA
					 Min. OU: 5 pcs.
Plastic (PA)					
Colour	Dim. a	PU	Packaging	EAN / Item no.	
A black	7.5mm	4 pieces	SS box	4001116285837	

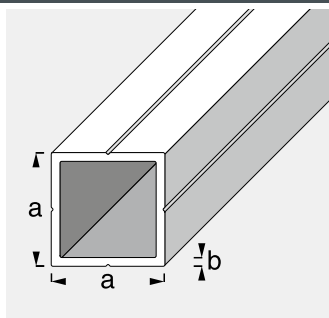
End block					PA
					 Min. OU: 5 pcs.
Plastic (PA)					
Colour	Dim. a	PU	Packaging	EAN / Item no.	
A black	7.5mm	4 pieces	SS box	4001116285431	



# combitech<sup>®</sup> system | Model construction

## System profiles | Aluminium

### Square tube



· Profiles with the unique drill alignment groove

ALU

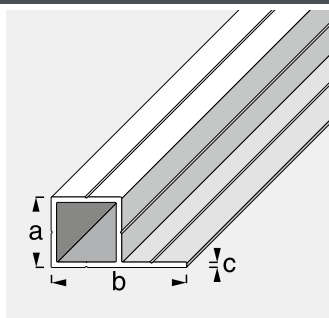


Min. OU: 5 pcs.

#### Uncoated aluminium

Colour	Dim. a	Dim. b	For	Packaging	length: 1.00 m EAN / Item no.
A uncoated	7.5 mm	1.0 mm	M5	loose	4001116251627

### Square tube, 1 branch



· Profiles with the unique drill alignment groove

ALU

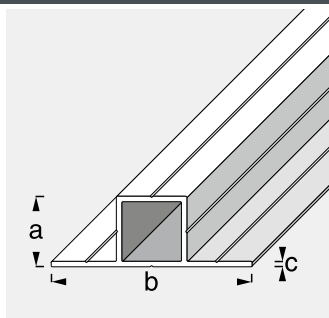


Min. OU: 5 pcs.

#### Uncoated aluminium

Colour	Dim. a	Dim. b	Dim. c	For	Packaging	length: 1.00 m EAN / Item no.
A uncoated	7.5 mm	14.0 mm	1.0 mm	M5	loose	4001116258824

### Square tube, 2 branches 180°



· Profiles with the unique drill alignment groove

ALU



Min. OU: 5 pcs.

#### Uncoated aluminium

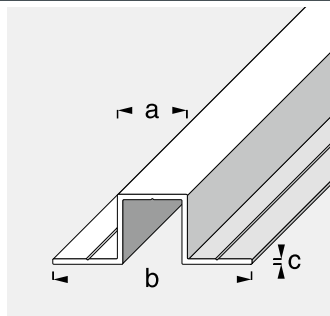
Colour	Dim. a	Dim. b	Dim. c	For	Packaging	length: 1.00 m EAN / Item no.
A uncoated	7.5 mm	20.5 mm	1.0 mm	M5	loose	4001116286698

# combitech<sup>®</sup> system | Model construction

## System profiles | Aluminium

### Square U, 2 branches 180°

ALU



Min. OU: 5 pcs.

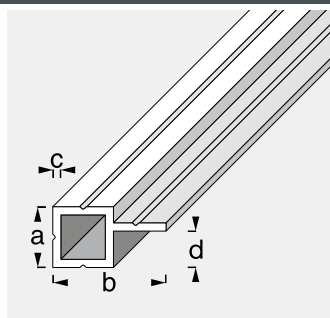
· Profiles with the unique drill alignment groove

#### Uncoated aluminium

Colour	Dim. a	Dim. b	Dim. c	Packaging	length: 1.00 m EAN / Item no.
A uncoated	7.5 mm	20.5 mm	1.0 mm	loose	4001116 <b>259623</b>

### Square tube, 1 branch offset

ALU



Min. OU: 5 pcs.

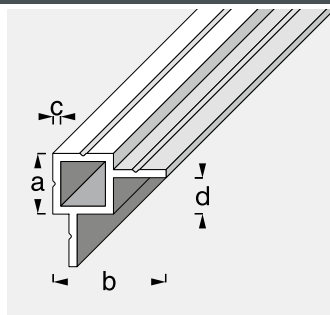
· Profiles with the unique drill alignment groove

#### Uncoated aluminium

Colour	Dim. a	Dim. b	Dim. c	Dim. d	For	Packaging	length: 1.00 m EAN / Item no.
A uncoated	7.5 mm	14.0 mm	1.0 mm	4.5 mm	M5	loose	4001116 <b>286728</b>

### Square tube, 2 branches offset

ALU



Min. OU: 5 pcs.

· Profiles with the unique drill alignment groove

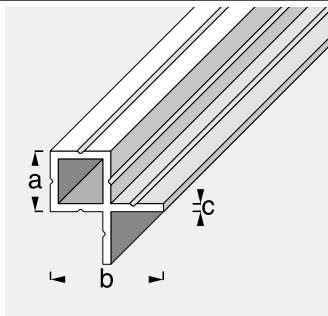
#### Uncoated aluminium

Colour	Dim. a	Dim. b	Dim. c	Dim. d	For	Packaging	length: 1.00 m EAN / Item no.
A uncoated	7.5 mm	14.0 mm	1.0 mm	4.5 mm	M5	loose	4001116 <b>260025</b>

# combitech<sup>®</sup> system | Model construction

## System profiles | Aluminium

### Square tube, 2 branches inside



· Profiles with the unique drill alignment groove

ALU

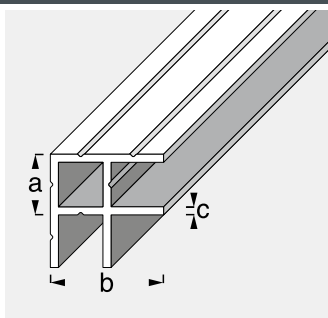


Min. OU: 5 pcs.

#### Uncoated aluminium

Colour	Dim. a	Dim. b	Dim. c	For	Packaging	length: 1.00 m EAN / Item no.
A uncoated	7.5 mm	14.0 mm	1.0 mm	M5	loose	4001116259227

### Square edge profile



· Profiles with the unique drill alignment groove

ALU

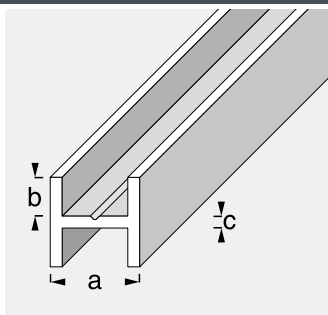


Min. OU: 5 pcs.

#### Uncoated aluminium

Colour	Dim. a	Dim. b	Dim. c	For	Packaging	length: 1.00 m EAN / Item no.
A uncoated	7.5 mm	14.0 mm	1.0 mm	M5	loose	4001116286735

### H section



· Profiles with the unique drill alignment groove

ALU



Min. OU: 5 pcs.

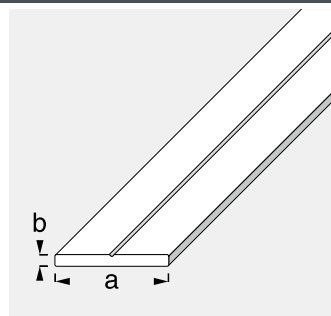
#### Uncoated aluminium

Colour	Dim. a	Dim. b	Dim. c	Packaging	length: 1.00 m EAN / Item no.
A uncoated	7.5 mm	3.25 mm	1.0 mm	loose	4001116286704

# combitech<sup>®</sup> system | Model construction

## System profiles | Aluminium

### Flat bar



· Profiles with the unique drill alignment groove

ALU

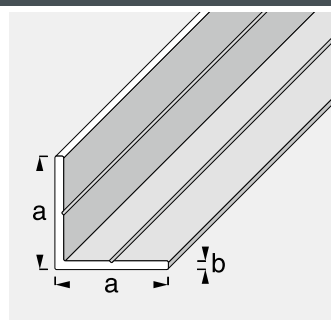


Min. OU: 5 pcs.

#### Uncoated aluminium

Colour	Dim. a	Dim. b	Packaging	length: 1.00 m EAN / Item no.
A uncoated	7.5 mm	1.5 mm	loose	4001116 258022

### Angle, equal-sided



· Profiles with the unique drill alignment groove

ALU

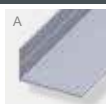
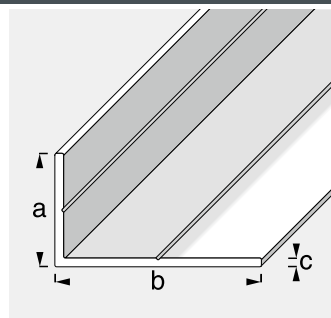


Min. OU: 5 pcs.

#### Uncoated aluminium

Colour	Dim. a	Dim. b	Packaging	length: 1.00 m EAN / Item no.
A uncoated	7.5 mm	1.0 mm	loose	4001116 255625

### Angle, unequal-sided



· Profiles with the unique drill alignment groove

ALU



Min. OU: 5 pcs.

#### Uncoated aluminium

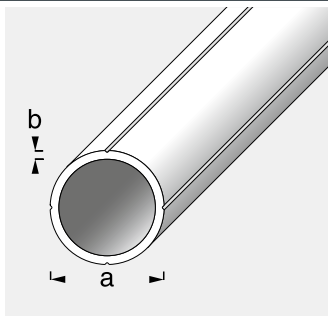
Colour	Dim. a	Dim. b	Dim. c	Packaging	length: 1.00 m EAN / Item no.
A uncoated	7.5 mm	12.5 mm	1.0 mm	loose	4001116 256424



# combitech<sup>®</sup> system | Model construction

## System profiles | Aluminium

### Round tube



· Profiles with the unique drill alignment groove

ALU

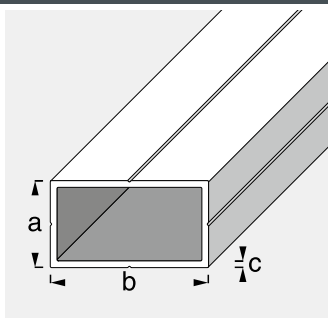


Min. OU: 5 pcs.

#### Uncoated aluminium

Colour	Dim. a	Dim. b	For	Packaging	length: 1.00 m EAN / Item no.
A uncoated	7.5 mm	1.0 mm	M5	loose	4001116250026

### Rectangular tube



· Profiles with the unique drill alignment groove

ALU

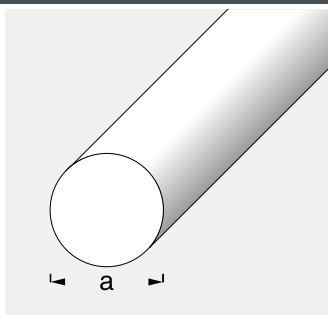


Min. OU: 5 pcs.

#### Uncoated aluminium

Colour	Dim. a	Dim. b	Dim. c	For	Packaging	length: 1.00 m EAN / Item no.
A uncoated	7.5 mm	12.5 mm	1.0 mm	M5	loose	4001116253225

### Round bar



· Round rod, 5.3 mm, short, item No. 26062 (dim. d = 5.5 mm) can be assembled on the hinge in combination with the hinge profile

ALU



Min. OU: 5 pcs.

#### Uncoated aluminium

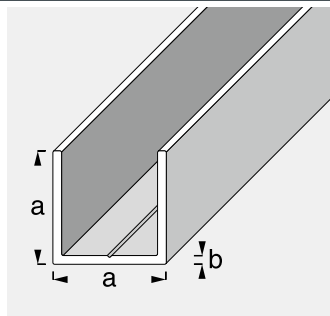
Colour	Dim. a	Packaging	length: 1.00 m EAN / Item no.
A uncoated	5.3 mm	loose	4001116286681
A uncoated	7.5 mm	loose	4001116250828

# combitech<sup>®</sup> system | Model construction

## System profiles | Aluminium

### Square U

ALU



Min. OU: 5 pcs.

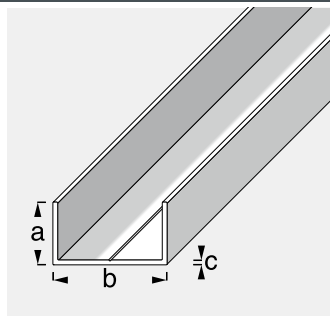
· Profiles with the unique drill alignment groove

#### Uncoated aluminium

Colour	Dim. a	Dim. b	Packaging	length: 1.00 m EAN / Item no.
A uncoated	7.5 mm	1.0 mm	loose	4001116 25402 4
A uncoated	11.5 mm	1.5 mm	loose	4001116 25404 8

### Rectangular U

ALU



Min. OU: 5 pcs.

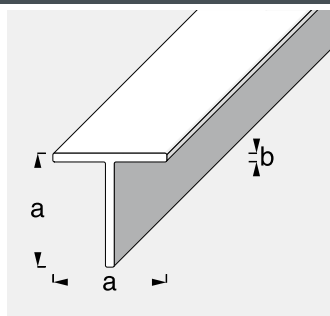
· Profiles with the unique drill alignment groove

#### Uncoated aluminium

Colour	Dim. a	Dim. b	Dim. c	Packaging	length: 1.00 m EAN / Item no.
A uncoated	7.5 mm	12.5 mm	1.0 mm	loose	4001116 25482 6

### Square T

ALU



Min. OU: 5 pcs.

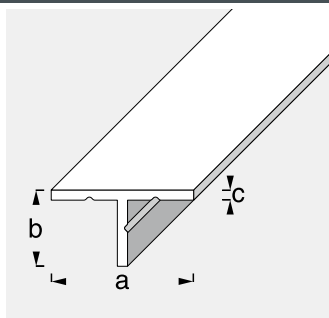
#### Uncoated aluminium

Colour	Dim. a	Dim. b	Packaging	length: 1.00 m EAN / Item no.
A uncoated	7.5 mm	1.0 mm	loose	4001116 25722 3

# combitech<sup>®</sup> system | Model construction

## System profiles | Aluminium

### T-profile



· Profiles with the unique drill alignment groove

ALU

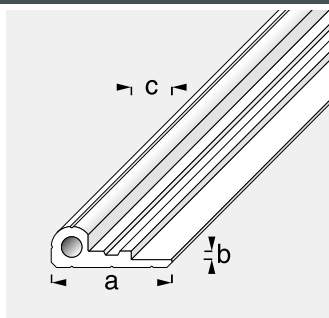


Min. OU: 5 pcs.

#### Uncoated aluminium

Colour	Dim. a	Dim. b	Dim. c	Packaging	length: 1.00 m EAN / Item no.
A uncoated	14.0 mm	7.5 mm	1.0 mm	loose	400111628671 1

### Hinge profile



· Profiles with the unique drill alignment groove

ALU

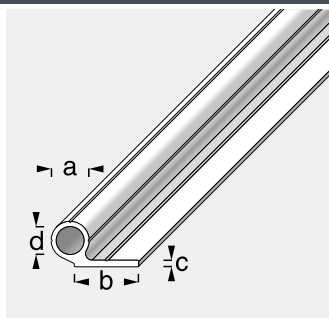


Min. OU: 5 pcs.

#### Uncoated aluminium

Colour	Dim. a	Dim. b	Dim. c	For	Packaging	length: 1.00 m EAN / Item no.
A uncoated	29.5 mm	1.2 mm	10.0 mm	M5	loose	400111627160 1

### Hinge profile, short



· Profiles with the unique drill alignment groove

ALU



Min. OU: 5 pcs.

#### Uncoated aluminium

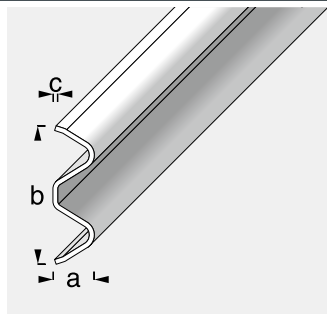
Colour	Dim. a	Dim. b	Dim. c	Dim. d	For	Packaging	length: 1.00 m EAN / Item no.
A uncoated	7.5 mm	12.5 mm	1.5 mm	5.5 mm	M5	loose	400111626062 9

# combitech<sup>®</sup> system | Model construction

## System profiles | Aluminium

### Guard rail profile

ALU



Min. OU: 5 pcs.

- Profiles with the unique drill alignment groove
- The profile can easily be bent around curves

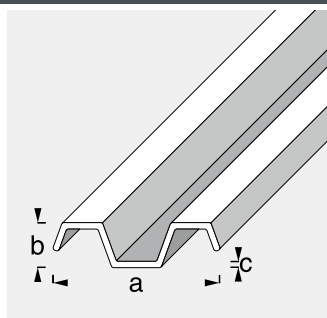
#### Uncoated aluminium

length: 1.00 m

Colour	Dim. a	Dim. b	Dim. c	Packaging	EAN / Item no.
A uncoated	6.2 mm	21.0 mm	0.75 mm	loose	4001116 28667 4

### Sheet pile wall profile

ALU



Min. OU: 5 pcs.

- Profiles cut to dimension and placed next to each other
- Easy and reliable edging using our 11.5-mm U profile

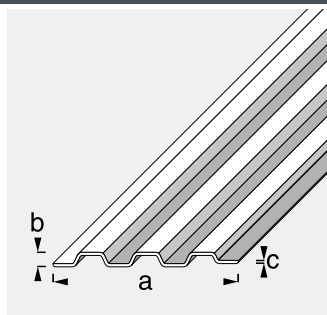
#### Uncoated aluminium

length: 1.00 m

Colour	Dim. a	Dim. b	Dim. c	Packaging	EAN / Item no.
A uncoated	31.4 mm	8.4 mm	1.2 mm	loose	4001116 28666 7

### Container wall profile

ALU



Min. OU: 5 pcs.

- Profiles with the unique drill alignment groove

#### Uncoated aluminium

length: 1.00 m

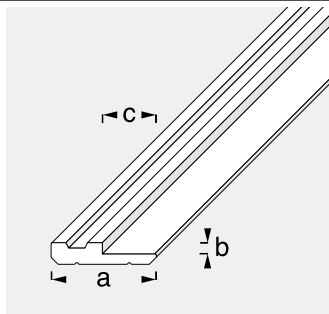
Colour	Dim. a	Dim. b	Dim. c	Packaging	EAN / Item no.
A uncoated	68.5 mm	5.4 mm	1.2 mm	loose	4001116 28665 0



# combitech<sup>®</sup> system | Model construction

## System profiles | Aluminium

### Support profile, one-sided



· Profiles with the unique drill alignment groove

ALU

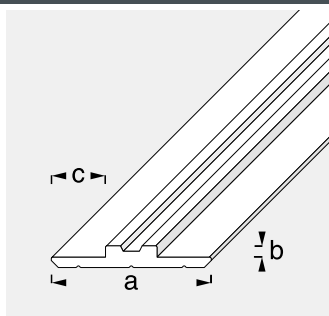


Min. OU: 5 pcs.

#### Uncoated aluminium

Colour	Dim. a	Dim. b	Dim. c	Packaging	length: 1.00 m EAN / Item no.
A uncoated	19.5 mm	1.2 mm	10.0 mm	loose	4001116270802

### Support profile, two-sided



· Profiles with the unique drill alignment groove

ALU

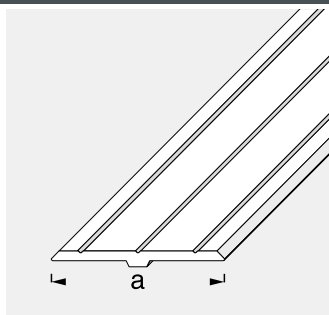


Min. OU: 5 pcs.

#### Uncoated aluminium

Colour	Dim. a	Dim. b	Dim. c	Packaging	length: 1.00 m EAN / Item no.
A uncoated	29.5 mm	1.2 mm	10.0 mm	loose	4001116271007

### Covering profile, two-sided



· Profiles with the unique drill alignment groove

ALU



Min. OU: 5 pcs.

#### Uncoated aluminium

Colour	Dim. a	Packaging	length: 1.00 m EAN / Item no.
A uncoated	29.5 mm	loose	4001116270604

# combitech<sup>®</sup> system | Model construction

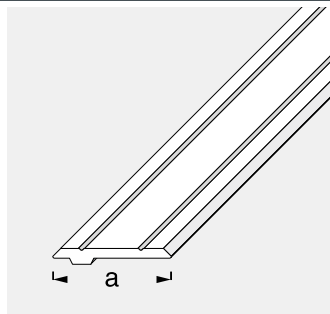
## System profiles | Aluminium

### Covering profile, one-sided

ALU



Min. OU: 5 pcs.



· Profiles with the unique drill alignment groove

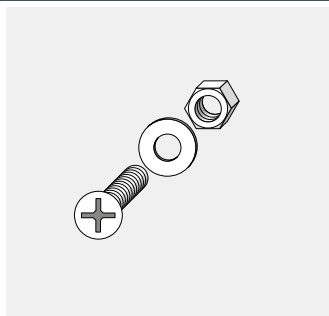
Uncoated aluminium			length: 1.00 m
Colour	Dim. a	Packaging	EAN / Item no.
A uncoated	19.5 mm	loose	4001116 270406

# combitech<sup>®</sup> system | Model construction

## System accessories

### Countersunk screw set

STA



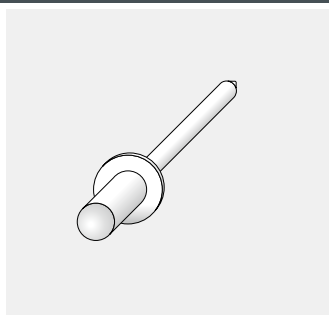
Min. OU: 5 pcs.

#### Galvanized steel

	Screw size	Length	PU	Packaging	EAN / Item no.
A	M2	4.0 mm	20 pieces	each, SS box	400111628684 1
A	M2	6.0 mm	20 pieces	each, SS box	400111628683 4
A	M2	8.0 mm	20 pieces	each, SS box	400111628685 8

### Blind rivet

ALU



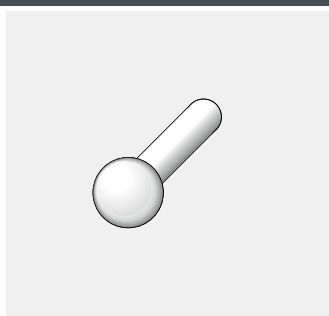
Min. OU: 5 pcs.

#### Uncoated aluminium

	Colour	Dim.	Length	PU	Packaging	EAN / Item no.
A	uncoated	2.4 mm	4.0 mm	20 pieces	SS box	400111628680 3
A	uncoated	2.4 mm	6.0 mm	20 pieces	SS box	400111628681 0

### Round-headed rivet

ALU



Min. OU: 5 pcs.

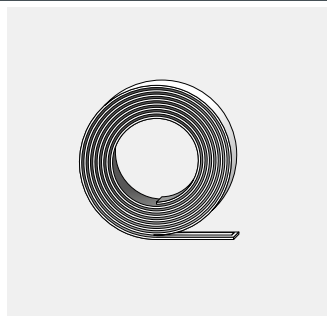
#### Uncoated aluminium

	Colour	Dim.	Length	PU	Packaging	EAN / Item no.
A	uncoated	1.5 mm	8.0 mm	20 pieces	SS box	400111628682 7

# combitech<sup>®</sup> system | Model construction

## System accessories

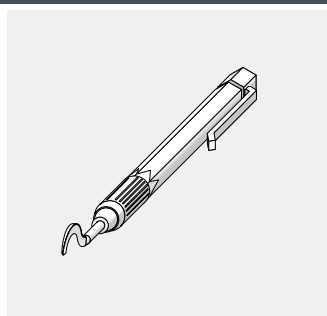
### Adhesive tape, double-sided



Min. OU: 5 pcs.

Width	Packaging	length: 25.00 m EAN / Item no.
A 6.0mm	shrink-wrapped SS	4001116 <b>28686</b> 5

### Universal deburrer



Min. OU: 5 pcs.

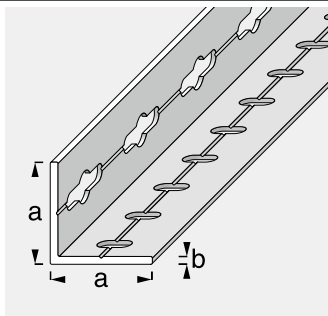
- Deburred edges prevent injuries
- Makes it easier to insert the connect connectors

Colour	Packaging	EAN / Item no.
A blue	SS box	4001116 <b>28661</b> 2

# combitech<sup>®</sup> system | Model construction

## System profiles | logika<sup>®</sup>

### Angle, equal-sided, slotted



· The logically perforated profile range

ALU

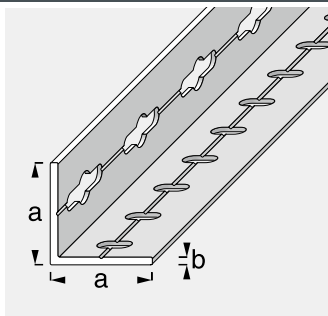


Min. OU: 5 pcs.

#### Uncoated aluminium

Colour	Dim. a	Dim. b	Packaging	length: 1.00 m EAN / Item no.
A uncoated	7.5 mm	1.0 mm	loose	400111623031 8
A uncoated	15.5 mm	1.5 mm	loose	400111623021 9

### Angle, equal-sided, slotted



· The logically perforated profile range

ALX

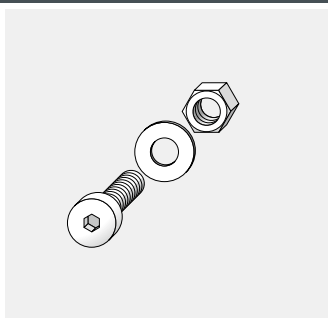


Min. OU: 5 pcs.

#### Anodized aluminium

Colour	Dim. a	Dim. b	Packaging	length: 1.00 m EAN / Item no.
A titanium	7.5 mm	1.0 mm	loose	400111623331 9
A titanium	15.5 mm	1.5 mm	loose	400111623321 0

### Cylinder head screw set



STA



Min. OU: 5 pcs.

#### Galvanized steel

Colour	Screw size	Length	PU	Packaging	EAN / Item no.
A galvanized	M2	5.0 mm	20 pieces	each, SS box	400111639480 5
A galvanized	M3	8.0 mm	20 pieces	each, SS box	400111639481 2

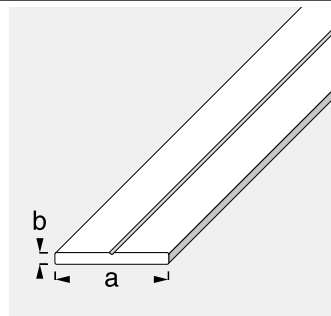


# combitech<sup>®</sup> system | Model construction

## System profiles | Plastic (hard PVC)

### Flat bar

PVC



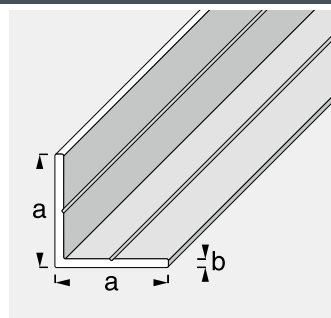
Min. OU: 5 pcs.

· Profiles with the unique drill alignment groove

Plastic (hard PVC)				length: 1.00 m
Colour	Dim. a	Dim. b	Packaging	EAN / Item no.
A white	7.5 mm	1.5 mm	loose	4001116218422

### Angle, equal-sided

PVC



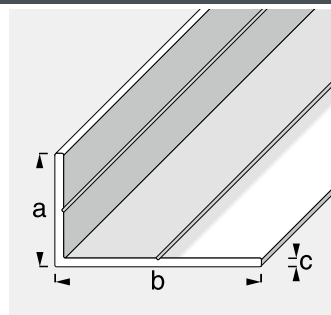
Min. OU: 5 pcs.

· Profiles with the unique drill alignment groove

Plastic (hard PVC)				length: 1.00 m
Colour	Dim. a	Dim. b	Packaging	EAN / Item no.
A white	7.5 mm	1.0 mm	loose	4001116216022

### Angle, unequal-sided

PVC



Min. OU: 5 pcs.

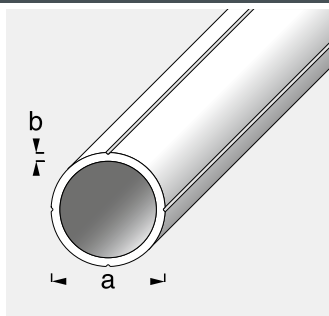
· Profiles with the unique drill alignment groove

Plastic (hard PVC)					length: 1.00 m
Colour	Dim. a	Dim. b	Dim. c	Packaging	EAN / Item no.
A white	7.5 mm	12.5 mm	1.0 mm	loose	4001116216824

# combitech<sup>®</sup> system | Model construction

## System profiles | Plastic (hard PVC)

### Round tube



· Profiles with the unique drill alignment groove

PVC

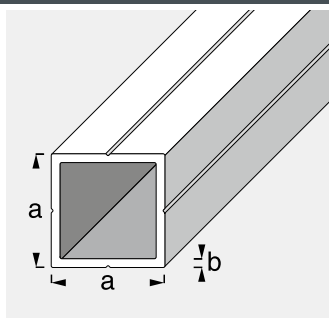


Min. OU: 5 pcs.

#### Plastic (hard PVC)

Colour	Dim. a	Dim. b	For	Packaging	length: 1.00 m EAN / Item no.
A white	7.5 mm	1.0 mm	M5	loose	4001116210426

### Square tube



· Profiles with the unique drill alignment groove

PVC

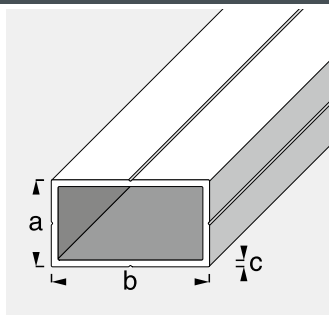


Min. OU: 5 pcs.

#### Plastic (hard PVC)

Colour	Dim. a	Dim. b	For	Packaging	length: 1.00 m EAN / Item no.
A white	7.5 mm	1.0 mm	M5	loose	4001116212024

### Rectangular tube



· Profiles with the unique drill alignment groove

PVC



Min. OU: 5 pcs.

#### Plastic (hard PVC)

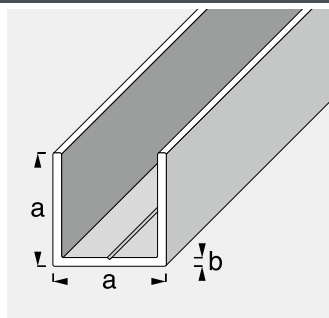
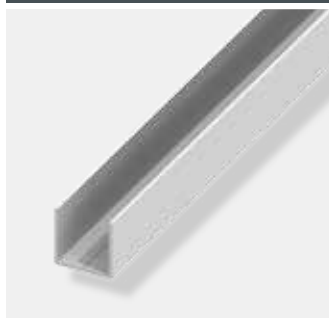
Colour	Dim. a	Dim. b	Dim. c	For	Packaging	length: 1.00 m EAN / Item no.
A white	7.5 mm	12.5 mm	1.0 mm	M5	loose	4001116213625

# combitech<sup>®</sup> system | Model construction

## System profiles | Plastic (hard PVC)

### Square U

PVC



Min. OU: 5 pcs.

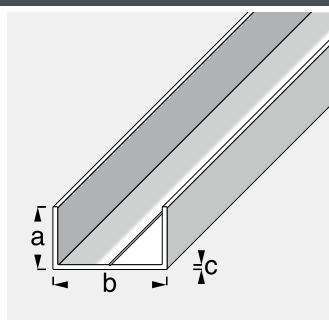
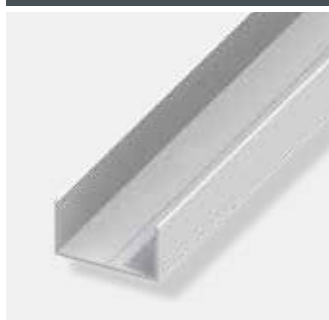
· Profiles with the unique drill alignment groove

#### Plastic (hard PVC)

Colour	Dim. a	Dim. b	Packaging	length: 1.00 m EAN / Item no.
A white	7.5 mm	1.0 mm	loose	4001116214424

### Rectangular U

PVC



Min. OU: 5 pcs.

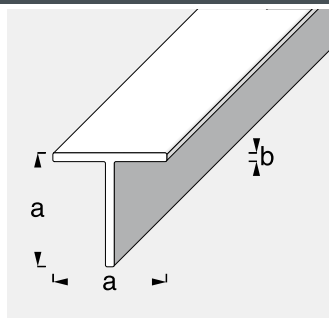
· Profiles with the unique drill alignment groove

#### Plastic (hard PVC)

Colour	Dim. a	Dim. b	Dim. c	Packaging	length: 1.00 m EAN / Item no.
A white	7.5 mm	12.5 mm	1.0 mm	loose	4001116215223

### Square T

PVC



Min. OU: 5 pcs.

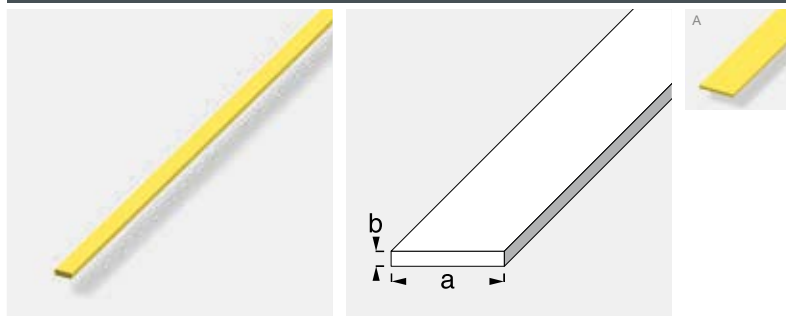
#### Plastic (hard PVC)

Colour	Dim. a	Dim. b	Packaging	length: 1.00 m EAN / Item no.
A white	7.5 mm	1.0 mm	loose	4001116217623

# combitech<sup>®</sup> system | Model construction

## System profiles | Brass, solid

### Flat bar



MES

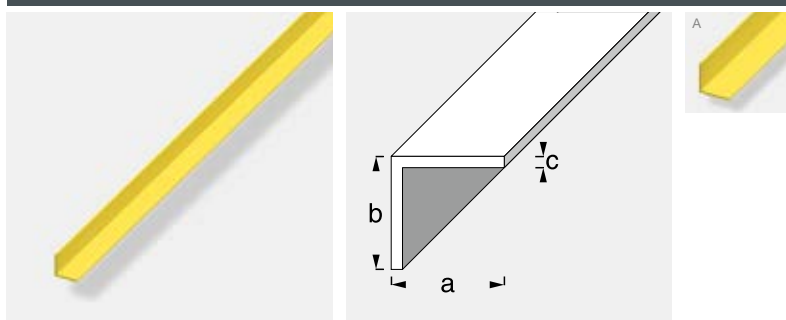


Min. OU: 5 pcs.

#### Solid brass

Colour	Dim. a	Dim. b	Packaging	length: 1.00 m EAN / Item no.
A brass	7.0 mm	2.5 mm	loose	4001116202100

### Angle, equal-sided



MES

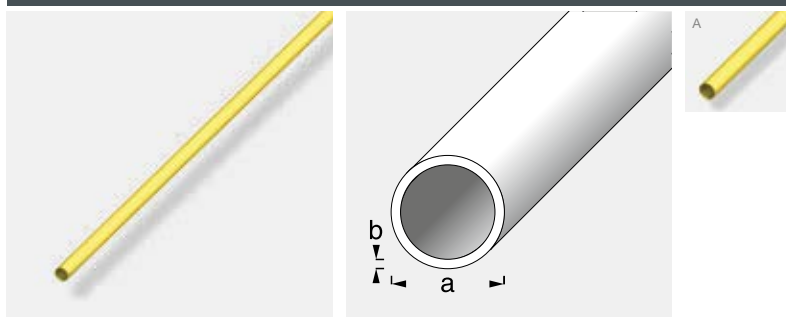


Min. OU: 5 pcs.

#### Solid brass

Colour	Dim. a	Dim. b	Dim. c	Packaging	length: 1.00 m EAN / Item no.
A brass	10.0 mm	10.0 mm	1.0 mm	loose	4001116202407

### Round tube



MES



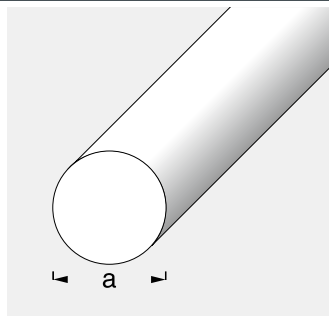
Min. OU: 5 pcs.

#### Solid brass

Colour	Dim. a	Dim. b	Packaging	length: 1.00 m EAN / Item no.
A brass	2.0 mm	0.3 mm	loose	4001116202209
A brass	4.0 mm	0.5 mm	loose	4001116202216
A brass	6.0 mm	0.5 mm	loose	4001116202223

# **combitech<sup>®</sup> system | Model construction** **System profiles | Brass, solid**

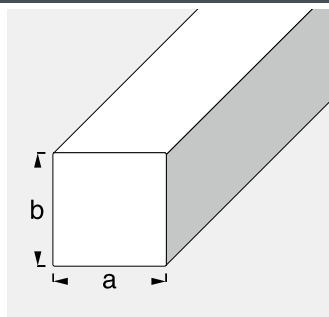
## **Round bar**

**MES**


Min. OU: 5 pcs.

Solid brass				length: 1.00 m
Colour	Dim. a	Packaging	EAN / Item no.	
A brass	1.3 mm	loose	4001116 20233 9	
A brass	2.9 mm	loose	4001116 20234 6	
A brass	4.0 mm	loose	4001116 20230 8	

## **Square bar**

**MES**


Min. OU: 5 pcs.

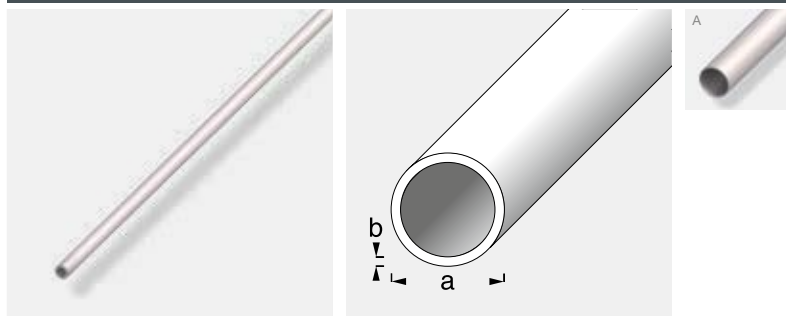
Solid brass				length: 1.00 m
Colour	Dim. a	Dim. b	Packaging	EAN / Item no.
A brass	5.0 mm	5.0 mm	loose	4001116 20280 3



# combitech<sup>®</sup> system | Model construction

## System profiles | Steel

### Round tube in cold rolled steel



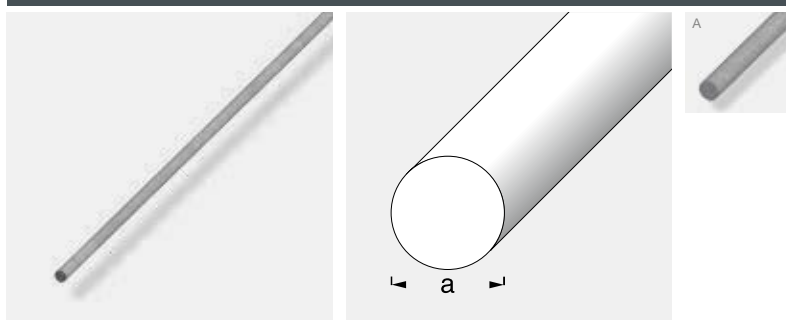
STA



Min. OU: 5 pcs.

Steel, cold-rolled				length: 1.00 m
Colour	Dim. a	Dim. b	Packaging	EAN / Item no.
A steel grey	6.0 mm	1.0 mm	loose	4001116343308

### Round bar, drawn steel



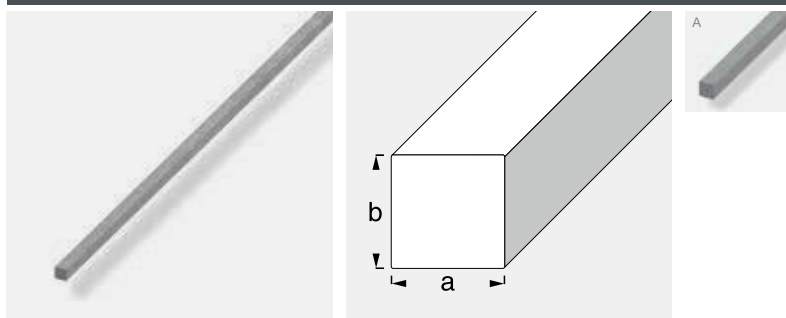
STA



Min. OU: 5 pcs.

Steel, drawn				length: 1.00 m
Colour	Dim. a	Packaging	EAN / Item no.	
A steel grey	4.0 mm	loose	4001116344602	
A steel grey	5.0 mm	loose	4001116344619	
A steel grey	6.0 mm	loose	4001116344626	

### Square bar, drawn steel



STA



Min. OU: 5 pcs.

Steel, drawn				length: 1.00 m
Colour	Dim. a	Dim. b	Packaging	EAN / Item no.
A steel grey	4.0 mm	4.0 mm	loose	4001116344701

# combitech<sup>®</sup> system | Model construction

## Metric threaded rods

### Metric threaded rod

EDL



Min. OU: 5 pcs.

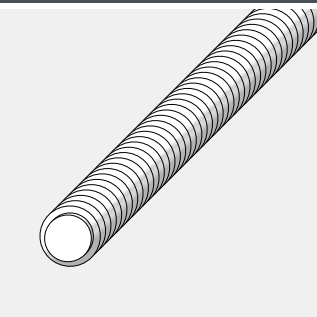
#### Stainless steel V2A

length: 1.00 m

Colour	Dim.	Packaging	EAN / Item no.
A stainless steel	M3	loose	4001116 30020 2
A stainless steel	M4	loose	4001116 30021 9
A stainless steel	M5	loose	4001116 30022 6

### Metric threaded rod

MES



Min. OU: 5 pcs.

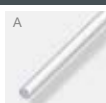
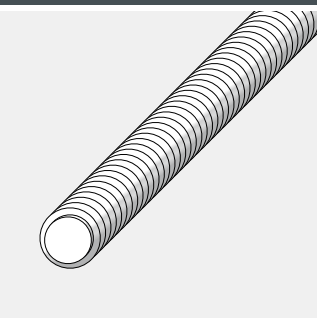
#### Solid brass

length: 1.00 m

Colour	Dim.	Packaging	EAN / Item no.
A brass	M3	loose	4001116 30030 1
A brass	M4	loose	4001116 30031 8
A brass	M5	loose	4001116 30032 5

### Metric threaded rod

STA



Min. OU: 5 pcs.

#### Galvanized steel

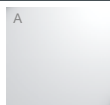
length: 1.00 m

Colour	Dim.	Packaging	EAN / Item no.
A galvanized	M3	loose	4001116 30000 4
A galvanized	M4	loose	4001116 30001 1
A galvanized	M5	loose	4001116 30002 8

# combitech<sup>®</sup> system | Model construction

## Smooth and embossed sheets, plastic panels

### Plastic panel (PC, transparent)



PC



Min. OU: 5 pcs.

#### Plastic (PC)

Colour	Thickness	Width	Long	Packaging	EAN / Item no.
A transparent	1.0 mm	250.0 mm	500.0 mm	loose	400111638354 0

### Sheet, aluminium, uncoated



ALU

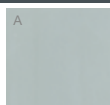


Min. OU: 5 pcs.

#### Uncoated aluminium

Colour	Thickness	Width	Long	Packaging	EAN / Item no.
A uncoated	0.3 mm	250.0 mm	500.0 mm	sealed	400111638264 2
A uncoated	0.5 mm	250.0 mm	500.0 mm	sealed	400111638274 1
A uncoated	0.8 mm	250.0 mm	500.0 mm	sealed	400111637004 5
A uncoated	1.5 mm	250.0 mm	500.0 mm	sealed	400111637554 5

### Sheet, aluminium, anodized



ALX



Min. OU: 5 pcs.

#### Anodized aluminium

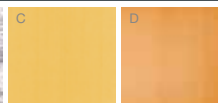
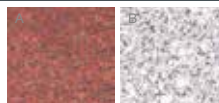
Colour	Thickness	Width	Long	Packaging	EAN / Item no.
A stainless steel visual effect	0.5 mm	250.0 mm	500.0 mm	foil-wrapped, one-sided	400111638204 8

# combitech<sup>®</sup> system | Model construction

## Smooth and embossed sheets, plastic panels

### Sheet, aluminium, coated

ALP



Min. OU: 5 pcs.

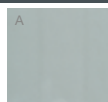


### Powder-coated aluminium

Colour	Thickness	Width	Long	Packaging	EAN / Item no.
A granite-red	0.8 mm	250.0 mm	500.0 mm	sealed	4001116385247
B granite-white	0.8 mm	250.0 mm	500.0 mm	sealed	4001116385742
C maple	0.8 mm	250.0 mm	500.0 mm	sealed	4001116385346
D beech	0.8 mm	250.0 mm	500.0 mm	sealed	4001116385445
E white	0.8 mm	250.0 mm	500.0 mm	sealed	4001116385049

### Sheet, raw steel

STA



Min. OU: 5 pcs.

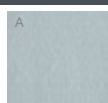


### Raw steel

Colour	Thickness	Width	Long	Packaging	EAN / Item no.
A raw	0.75 mm	250.0 mm	500.0 mm	sealed	4001116381041

### Sheet, steel, galvanized

STA



Min. OU: 5 pcs.



### Galvanized steel

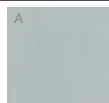
Colour	Thickness	Width	Long	Packaging	EAN / Item no.
A galvanized	0.5 mm	250.0 mm	500.0 mm	sealed	4001116380549

# combitech<sup>®</sup> system | Model construction

## Smooth and embossed sheets, plastic panels

### Sheet, stainless steel

EDL



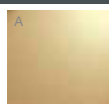
Min. OU: 5 pcs.

#### Stainless steel

Colour	Thickness	Width	Long	Packaging	EAN / Item no.
A stainless steel	0.5 mm	250.0 mm	500.0 mm	sealed	4001116382543

### Sheet, solid copper

CU



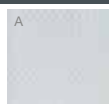
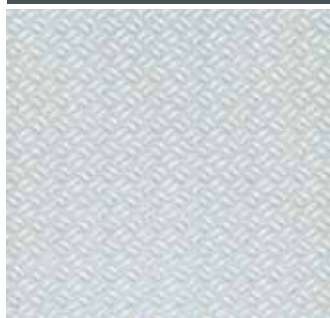
Min. OU: 5 pcs.

#### Solid copper

Colour	Thickness	Width	Long	Packaging	EAN / Item no.
A copper	0.5 mm	250.0 mm	500.0 mm	sealed	4001116381546

### Barleycorn

ALU



Min. OU: 5 pcs.

#### Uncoated aluminium

Colour	Thickness min.	Thickness max.	Width	Long	Packaging	EAN / Item no.
A uncoated	1.5 mm	2.0 mm	250.0 mm	500.0 mm	loose	4001116382840



# combitech<sup>®</sup> system | Model construction

## Smooth and embossed sheets, plastic panels

### Checker plate



ALU

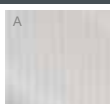
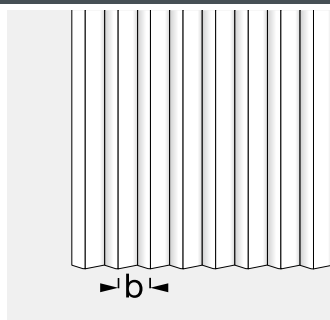


Min. OU: 5 pcs.

#### Uncoated aluminium

Colour	Thickness min.	Thickness max.	Width	Long	Packaging	EAN / Item no.
A uncoated	1.5 mm	2.0 mm	250.0 mm	500.0 mm	loose	4001116371547

### Corrugated sheet



ALU



Min. OU: 5 pcs.

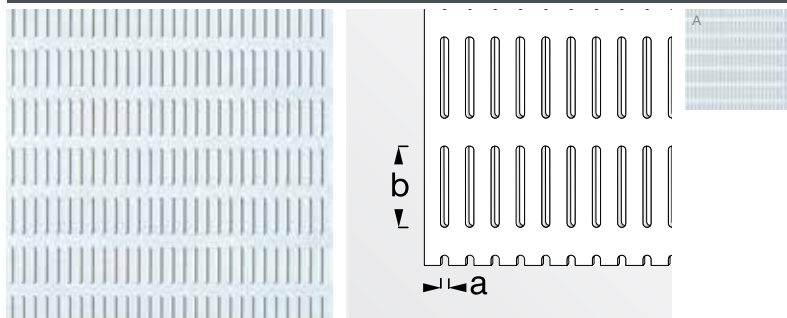
#### Uncoated aluminium

Colour	Thickness min.	Thickness max.	Dim. b	Width	Long	Packaging	EAN / Item no.
A uncoated	1.0 mm	2.0 mm	9.5 mm	250.0 mm	500.0 mm	loose	4001116382949

# combitech<sup>®</sup> system | Model construction

## Perforated sheets and stretch metal

### Slotted hole sheet



ALX

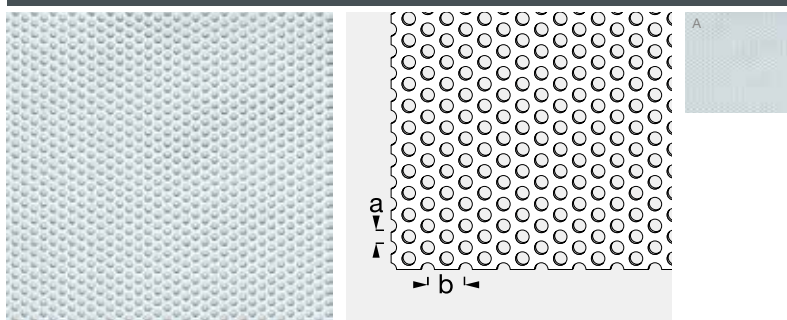


Min. OU: 5 pcs.

#### Anodized aluminium

Colour	Thickness	Dim. a	Dim. b	Width	Long	Packaging	EAN / Item no.
A silver	0.7 mm	1.5 mm	20.0 mm	250.0 mm	500.0 mm	sealed	4001116372643

### Round hole sheet



ALX

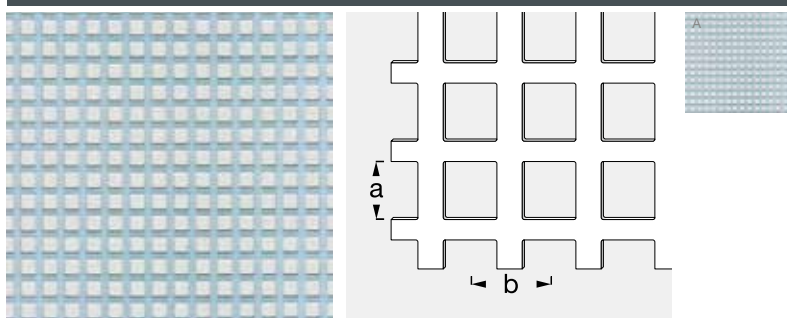


Min. OU: 5 pcs.

#### Anodized aluminium

Colour	Thickness	Dim. a	Dim. b	Width	Long	Packaging	EAN / Item no.
A silver	0.7 mm	1.5 mm	3.0 mm	250.0 mm	500.0 mm	sealed	4001116373640
A silver	0.7 mm	4.0 mm	6.0 mm	250.0 mm	500.0 mm	sealed	4001116374142

### Square hole sheet



ALX



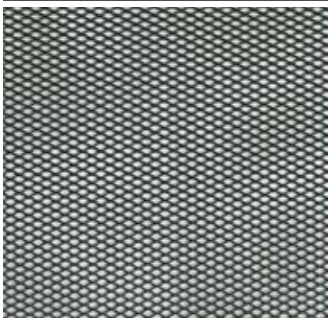
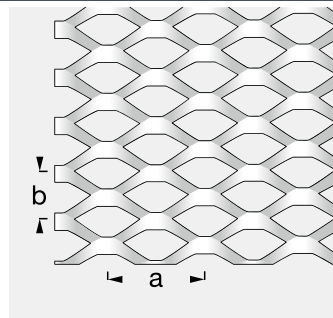


Min. OU: 5 pcs.

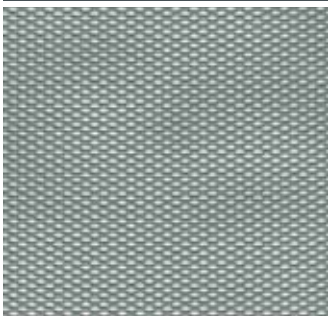
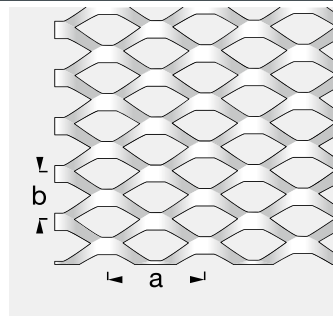


#### Anodized aluminium

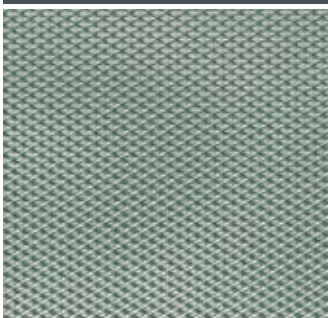
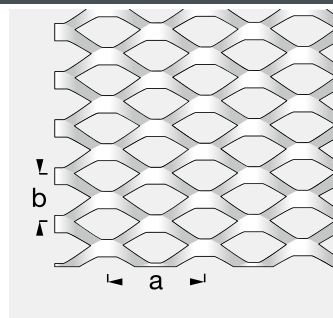


Colour	Thickness	Dim. a	Dim. b	Width	Long	Packaging	EAN / Item no.
A silver	0.7 mm	8.0 mm	12.0 mm	250.0 mm	500.0 mm	sealed	4001116373145

# combitech<sup>®</sup> system | Model construction

## Perforated sheets and stretch metal

Stretch metal							ALP
						 Min. OU: 5 pcs.	
Powder-coated aluminium							
Colour	Thickness	Dim. a	Dim. b	Width	Long	Packaging	EAN / Item no.
A black	1.6mm	10.0mm	5.0mm	250.0mm	500.0mm	sealed	4001116375248

Stretch metal							ALU
						 Min. OU: 5 pcs.	
Uncoated aluminium							
Colour	Thickness	Dim. a	Dim. b	Width	Long	Packaging	EAN / Item no.
A uncoated	1.6mm	10.0mm	5.0mm	250.0mm	500.0mm	sealed	4001116374647

Stretch metal							STA
						 Min. OU: 5 pcs.	
Raw steel							
Colour	Thickness	Dim. a	Dim. b	Width	Long	Packaging	EAN / Item no.
A raw	1.2mm	6.0mm	3.5mm	250.0mm	500.0mm	sealed	4001116376047
A raw	2.2mm	10.0mm	5.8mm	250.0mm	500.0mm	sealed	4001116376542
A raw	2.8mm	16.0mm	8.0mm	250.0mm	500.0mm	sealed	4001116377044

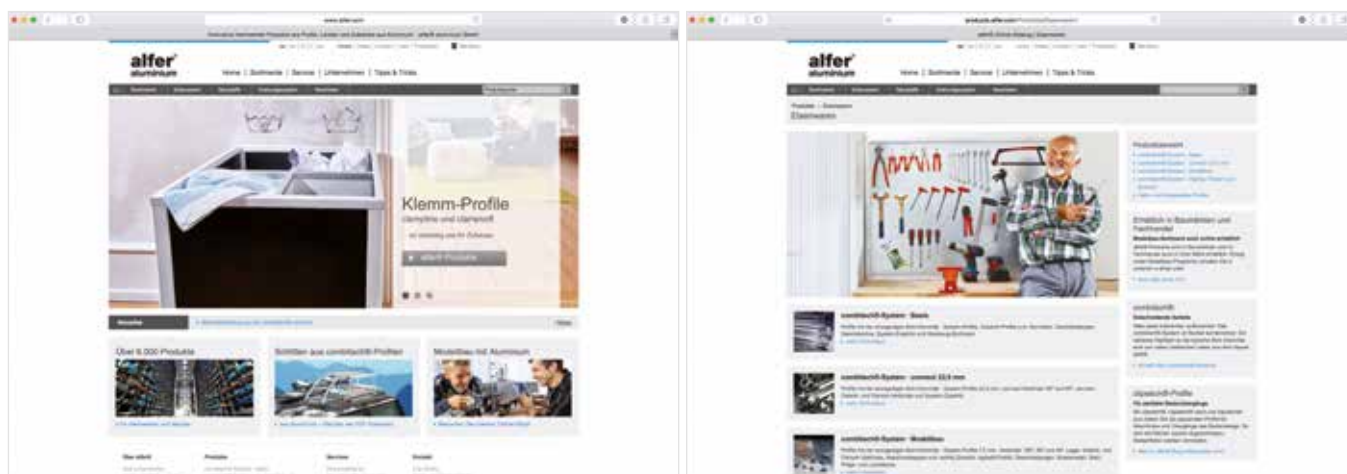
# combitech<sup>®</sup> system | Model construction

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alfer<sup>®</sup> makes you mobile



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# combitech<sup>®</sup> system | Model construction

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### alfer<sup>®</sup> ranges



#### combitech<sup>®</sup> system | Basis

Everything fits together:

The **combitech<sup>®</sup>** system: flexibly combinable. One product highlight is the typical drill alignment groove – just one of many practical ideas from **alfer<sup>®</sup>**. For example, this marks the opposite sides of a rounded pipe making vertical drilling through the middle easy. The Basis range from **combitech<sup>®</sup>** comprises standard aluminium and plastic profiles such as pipes, brackets, square tubes and much, much more.



#### combitech<sup>®</sup> system | connect 23.5mm

The **combitech<sup>®</sup>** connect connectors can be used to simply connect 23.5mm square tubes. Whether frames, shelves or anything else you wish to build, the stable polyamide connectors hold everything together. The connectors are available in two colours: black and white.



#### combitech<sup>®</sup> system | Sheets, plates and accessories

A huge selection of sheets provides the right product for many applications. The **alfer<sup>®</sup>** sheets come in many different thicknesses and materials. Multiple different finish options are also available from functional to decorative.

#### Primatech and Multitube:

The profiles for framing and stabilising the sheets are particularly practical. **alfer<sup>®</sup>** offers clever options to this end through Primatech and Multitube.



#### combitech<sup>®</sup> system | logika<sup>®</sup>

**logika<sup>®</sup>** is a new addition to the **combitech<sup>®</sup>** systems in the form of a logically perforated profile. **logika<sup>®</sup>** profiles enable you to build shelves, tables, steps, and much more. This will enable you to create order in rooms or vehicles. The holes in the profiles are made in such a way that they are as small as possible but as big as necessary to ensure high stability and so that, for example, at least three brackets will fit on top of each other and a further bracket can be screwed in place vertically to the others. The profiles are particularly suited for use in cold-storage rooms, cellars and wet areas.



#### Profiles for DIY and professional purposes

Flat bars, brackets with even and uneven branches, U-profiles, round bars, rectangular tubes and a whole range of other profiles. These form the basis for you to turn your ideas into reality. The classic semi-finished products for DIY enthusiasts and professionals are made from aluminium with anodised or untreated finishes, as well as many other materials.



#### Steel profiles

Steel is the most commonly used metallic material and offers an array of impressive benefits: high tensile strength, good malleability and thermal conductivity. The noteworthy material strength and rigidity ensure optimum stability. Furthermore, steel is extremely easy to work and resource-conserving as it can be recycled without any loss of quality. **alfer<sup>®</sup>** steel profiles are available as flat, angle, U, T, round and square profiles and tubes as well as in the form of sectional steel and wide-flanged beams.



#### combitech<sup>®</sup> system | Model construction

**alfer<sup>®</sup>** has a special place in its heart for model builders. Model builders can therefore also acquire **combitech<sup>®</sup>** connect connectors for 7.5mm profiles. Numerous special shapes such as the 150° angle connector are also available. The popular benefits such as the drill alignment groove and the easy-to-combine dimensions also prove their worth in the model construction range.

Discover the full diversity of the model construction range in the online shop: [www.alfer-shop.com](http://www.alfer-shop.com)



# combitech® system | Model construction

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### alfer® ranges



#### combitech® system | coaxis®

A further addition to the **combitech®** system is the **coaxis®** profile. This consists of four hollow chambers coaxially located around the core. The special design of the aluminium profiles ensure excellent longitudinal and lateral stability with the lowest weight. Equipped with drill alignment holes, the profiles are extremely simple to use and the angle bracket and hook can even be installed without drilling, using simply a square nut and screw. The profiles are ideal for use in damp areas and can even be used in the garden thanks to their weather-resistance.



#### Storage range

The broad version of the **coaxis®** profile can be horizontally, vertically and diagonally attached to walls and ceilings, allowing you to make optimal use of the available space. With the right hook, everything finds a place, whether indoors or out. Whether in the garden, the garage, the cellar or the attic: everything can be securely stored. The rubber caps on the hooks ensure that nothing gets scratched. The **coaxis®** hooks are available in aluminium or galvanised steel. The **alfer®** bicycle stand is made of lightweight, weather-resistant aluminium. It is suitable for all bikes, from racing bikes and city bikes to mountain bikes. It comes either as a rigid or an infinitely adjustable version, individually or as a three-piece set.



#### Tile edgings

Clean edges and finishes with aluminium profiles. Whether you lay your tiles yourself or have them laid by a specialist, there is one important 'side issue' that you should never forget. The **alfer®** profiles can be used on corners and edges, transitions between floor coverings and stairways. Clean edges and transitions not only look good but are also hygienic as they prevent any fraying or scuffing and improve water-resistance.



#### Floor and room profiles

Transitions between different floor coverings, a clean and protective edging or stair edges, all available in a whole range of colours, materials and décors. The stair profiles provide safety and particularly protect textile coverings against scuffing on the edges, ensuring they retain their visual appeal for many years. The profiles are extremely colour stable and completely crush-proof. For minor damage to aged stairs, **alfer®** offers stair repair brackets for simple restoration. **alfer®** door sealing brushes simply and effectively prevent drafts.



#### Profiles for parquet, laminate and designer floors

Perfectly laid parquet and laminate floorboards the easy way. The ease of laying ready-to-install parquet, cork and laminate floorboards makes them extremely popular with DIY enthusiasts. And anyone who appreciates this feature will love the parquet and laminate profiles from **alfer®**. With **clipstech®**, **clipstech®**-vario and **clipstech®**-plus, you have the perfect profiles for edges and transitions between floor coverings. The edges are therefore cleanly sealed and stumbling hazards are prevented. The **clipstech®** profiles are installed so that no screws are subsequently visible. The cover is simply clipped on.



#### cabelino® baseboards

Baseboards are ideal for concealing retrospectively laid cables and lines. The **cabelino®** baseboards have been designed for precisely this purpose. The baseboards are TÜV-certified and comply with the latest safety regulations. The décors of the baseboards match those of the **clipstech®** range. **cabelino®** baseboards are also noteworthy from a technical perspective. Thanks to the lock or clamp gap, they can be infinitely adjusted by up to 10 mm so that the baseboard can simply be pressed down if the floor settles over the years.

# combitech<sup>®</sup> system | Model construction

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### Terms and Conditions of Supply and Payment

#### 1. Scope

1.1. These Terms and Conditions of Supply and Payment for Exports apply to all contractual agreements between ourselves and parties placing orders with us which have their registered offices or the branch involved with the contractual agreement outside the territory of the Federal Republic of Germany. That branch which concludes the contractual agreement in its own name shall respectively apply.

1.2. These Terms and Conditions of Supply and Payment for Exports shall not apply if the party placing the order acquires the goods for personal use or use in a family or household and we knew or should have known such upon the conclusion of the agreement.

1.3. If the party placing the order's terms and conditions of purchase differ from these Terms and Conditions of Supply and Payment for Exports, such terms and conditions of purchase shall only apply if such are expressly confirmed in writing by ourselves. Counter-confirmations by a party placing an order citing its own terms and conditions are herewith expressly contested and rejected.

1.4. Our Terms and Conditions of Supply and Payment shall also apply exclusively and without restriction even if we effect supply to the party placing the order without reservation in awareness of contrary or differing terms and conditions of the party placing the order.

#### 2. Conclusion and subject of the agreement

2.1. Any and all of our offers are non-binding.

2.2. Models, illustrations, drawings, colour tones, etc., that are contained in catalogues, brochures and other printed matter may differ slightly from the features of the products to be supplied as a result of printing technology; such differences shall not be deemed to constitute defects.

2.3. Illustrations and drawings relating to our goods in brochures, written advertising material and on price lists as well as the data contained therein, e.g. on material, dimensions or shape, shall only become a legally binding part of the agreement if the agreement expressly makes reference to such. Information on product features shall not be deemed to constitute an assumption of guarantee.

2.4. The party placing an order shall notify us prior to the conclusion of the agreement if the goods to be supplied are supposed to be suited solely for regular use or are to be used under unusual or special conditions or if the goods are to be used in any conditions posing a health, safety or environmental risk or the goods will be subject to increased demands or if use of the goods could be associated with unusual possibilities for damage or unusual amounts of damage which the party placing the order is aware of or should be aware of.

#### 3. Custom-made products

3.1. Custom-made products shall be deemed to designate all models that deviate from the models referenced in the respectively valid catalogue or brochure. This especially applies with regard to colours.

3.2. Orders for custom-made products without exception require written confirmation by both parties in the information on the design, dimensions, etc.

3.3. The party placing the order shall not acquire any rights to tools by virtue of paying remuneration for costs or shares of costs for the creation or acquisition of tools; we shall retain title to tools.

3.4. Requested samples shall only be supplied subject to charge.

3.5. We shall not be liable for defects that emanate from documents submitted to us by the party placing the order with respect to custom-made products.

3.6. If the custom-made product is manufactured based on drawings, models or other information provided by the party placing the order, we shall not be liable for the violation of third-party protective rights. The party placing the order herewith indemnifies us with respect to claims by third parties.

#### 4. Minimum order value and prices

4.1. The minimum order value for initial orders is EUR 150.00 plus taxes and customs duties. The minimum order value for all subsequent orders is EUR 25.00 plus taxes and customs duties.

4.2. Prices do not include possible additional charges such as duties, taxes and other levies and, if nothing to the contrary results from the confirmation of contract and number 5.1 below, apply EXW (Incoterm 2010) from our plant in Wutöschingen not including freight and packaging costs.

#### 5. Freight and packaging costs

5.1. By way of deviation from EXW (Incoterms 2010), consignments having an order value of at least EUR 250.00 not including taxes and customs duties shall be shipped free domicile in Germany and franco frontier to foreign countries.

5.2. The weights and piece numbers determined upon shipment shall apply in the calculation of freight costs.

5.3. Packaging costs shall be charged at the usual rates in this line of business.

#### 6. Delivery and transfer of risk

6.1. EXW (Incoterms 2010) from our plant in Wutöschingen shall apply to delivery and transfer of risk even if we assume the freight costs unless a special delivery clause has been agreed upon.

6.2. If the goods are transported to the party placing the order, such shall be at the risk of the party placing the order. In this case risk shall be transferred to the party placing the order at that point in time at which the first carrier takes on the goods. If the goods are ready for shipment and shipment is delayed for reasons for which we are not responsible, risk shall be transferred to the party placing the order upon receipt of the notice of readiness for shipment.

#### 7. Delivery periods, non-availability of performance and delay

7.1. The delivery periods stated are generally non-binding.

7.2. A bindingly committed delivery period shall commence upon the date on which our confirmation of order is sent, but at the earliest at the point in time at which all

documents and data to be provided by the party placing the order are received by us.

7.3. The delivery period shall be deemed to have been adhered to if the goods leave the plant before the delivery period expires or notification has been provided that the goods are ready for shipment.

7.4. If we are unable to meet binding delivery periods in whole or regarding part of the goods to be delivered, we shall notify the party placing the order without undue delay and at the same time notify the party placing the order about the probable new delivery period. If the good to be delivered is still not available before the expiry of the new delivery period for reasons for which we are not responsible, we shall be entitled to cancel the agreement in whole or in part; we shall repay any counter-performance already rendered by the party placing the order without undue delay.

7.5. In any case a claim to compensation for late delivery on the part of the party placing the order shall be subject to the requirement that the party placing the order has set us a reasonable grace period and we have not effected delivery within this period.

7.5. The legal rights of the party placing the order shall otherwise remain unaffected. We shall only bear liability, however, if we are responsible for the delay and only within the framework of no. 11 below. We shall in particular not be responsible for delivery not being effected to us in due time by our suppliers.

#### 8. Terms and conditions of payment

8.1. The party placing the order shall review all invoices without undue delay after receiving such to make sure that they are correct and complete. Any objections to invoices shall be issued in writing within a period of one month after their receipt. Failure to state objections in due time shall be deemed to constitute approval of the invoice.

8.2. Our invoices shall be due for payment within 10 days with a 2% discount or within 30 days of the respective invoice date net. The date when payment is credited to the account stated

for payment on the invoice shall apply in determining whether payment has been effected in due time by the party placing the order. The party placing the order shall bear all additional costs that arise in connection with the selection of the means of payment.

8.3. If the party placing the order fails to pay the purchase price in due time, we shall be entitled notwithstanding other legal recourse to charge interest on arrears in the amount of 9 percentage points above the respective base interest rate of the European Central Bank. We reserve the right to claim damage going above and beyond this.

8.4. We shall be entitled to transfer our claims emanating from the business relationship with the party placing the order for the purposes of factoring.

8.5. If payment is rendered with a bill of exchange, the party placing the order shall bear the costs of such, in particular discounting and collection charges. No discount shall be granted if payment is effected by bill of exchange.

8.6. Costs of a bill of exchange that has been invoiced shall be due for payment immediately without any deductions.

8.7. Bills of acceptance and bills of exchange shall only be deemed to constitute payment after their redemption.

8.8. Setting off or netting amounts shall only be possible in the case of counter-claims that are based on the same legal relationship, that have been effectively established by a court of law or government authority, or are uncontested or recognised.

8.9. The party placing the order shall only be entitled to exercise a right of retention if its counter-claim is based on the same legal relationship.

8.10. We shall be entitled to credit payments effected by the party placing the order to older debt of said party.

#### 9. Examination and notification of non-conformity obligation

9.1. The party placing the order shall properly examine the goods or have the goods properly examined without undue delay.

9.2. Shipping papers may not be signed (including subject to reservation) before the number of boxes delivered has been compared with the information contained in the shipping papers. Boxes that are missing or damaged must be noted with precise information on such being provided on the shipping papers and be confirmed by the freight carrier driver by means of a clearly identifiable signature.

9.3. Our liability for the goods violating the agreement shall cease to apply without the party placing the order for this reason being able to exonerate itself if the party placing the order fails to notify us about such violation of the agreement in writing within a period of 7 working days (Saturdays shall not be deemed to constitute working days) after it determines such or should have determined such while precisely stating the type of violation of agreement. Written notification of lack of conformity by the party placing the order must have been sent by the party placing the order within the aforementioned period; above and beyond the notice of lack of conformity being sent in due time, such must also actually be received by us.

9.4. If after a notice of lack of conformity is issued by the party placing the order no violation of the agreement can be identified, the party placing the order shall reimburse us for the costs incurred in connection with the inspection of the goods.

9.5. The party placing the order shall at any rate lose the right to claim lack of conformity of the goods if it does not provide notice of such within a period of no more than 12 months after it has actually been handed over the goods unless we have granted a longer period of guarantee to the party placing the order.

#### 10. Goods lacking conformity or exhibiting legal defects

10.1. Goods for which a complaint has been issued shall be properly stored and kept available to us.

10.2. We shall be provided the opportunity to inspect the goods for which a complaint has been issued.

10.3. If it is demonstrated that the goods lack conformity, we shall be entitled even

after the agreed-upon delivery period either to remedy the lack of conformity of the goods by repair or supply a substitute contemporaneously with return of the goods for which a complaint has been issued as we see fit. In the event of remedy by repair or supply of substitute goods, we shall be obligated to bear all of the expenses that are required for this purpose (including transport, road, labour and material costs) if such expenses do not increase because the goods have been sent to a place other than the place of fulfilment of the agreement.

10.4. If the party placing the order sets a reasonable grace period for remedy by repair or supply of substitute goods and repair or supply of substitute goods does not take place within this grace period or if such is refused by us, the party placing the order shall be entitled to reduce the purchase price or declare the agreement avoided in accordance with statutory arrangements. The reduction of the purchase price shall be limited to the damage incurred by the customer.

10.5. Supply of substitute goods or remedy by repair shall not cause the period laid down in no. 9.5 to recommence anew.

#### 11. Liability

11.1. We shall bear unlimited liability for harm to life and limb or health impairment that is due to the wilful or negligent violation of an obligation by ourselves or that is due to a wilful or negligent violation of an obligation by our legal representative or parties we hire to carry out the agreement.

11.2. We shall bear liability based on the principles of German law governing product liability and on the assumption of a guarantee.

11.3. We shall moreover only bear liability in the case of wilful or negligent violation of an essential contractual obligation and only for direct damage that was foreseeable and which typically occurs at the point in time when the agreement was concluded. An essential contractual obligation shall be deemed to be an obligation that makes the proper fulfilment of the agreement concluded with the party placing the order possible in the first place and which the party placing the order trusted in and was able to trust in and the culpable failure to fulfil such jeopardises achievement of the purpose of the agreement.

11.4. Our liability is excluded in all other cases, in particular for indirect damage and subsequent damage (including foregone profit, loss of goodwill, damage due to loss of production and comparable expenses) unless the party placing the order expressly drew our attention to such in accordance with no. 2.4. prior to the conclusion of the agreement.

11.5. If our liability is excluded or limited, this shall also apply to our employees, representatives and parties we hire to carry out the agreement.

#### 12. Reservation of title

12.1. We reserve title to the goods supplied by us if our claim to the purchase price is not secured by some other means (e.g. a letter of credit) until payment of all current and future claims emanating from the purchase agreement and the ongoing business relationship (the claims to be secured) is effected.

12.2. We shall be obligated to release collateral that we are entitled to as we see fit to the extent that the realisable value of the collateral exceeds our claims to be secured by more than 10% if so requested by the party placing the order.

12.2. The party placing the order shall notify us without undue delay in the event of attachment, confiscation or similar and in the event of the goods supplied being damaged and/or lost; any violation of this obligation as well as any other conduct of the buyer in violation of the agreement, in particular failure to pay the purchase price due for payment, shall provide us the right to declare this agreement avoided. The party placing the order shall bear all the costs that have had to be incurred particularly within the framework of a third -party action successfully lifting an attachment and that may have had to be incurred to successfully reacquire the objects supplied if such cannot be collected from third parties.

12.3.

If we have effectively declared the agreement avoided, we shall be entitled to take back the goods subject to reservation of title if we have threatened to take the goods back a reasonable time in advance. The costs incurred as a result of exercise of the right to take back the goods, in particular transport costs, shall be borne by the party placing the order. We shall be entitled to exploit the goods subject to reservation of title and satisfy our claims from the proceeds from such exploitation if we have threatened such exploitation a reasonable time in advance. If the proceeds exceed the unsatisfied claims emanating from the contractual relationship, this surplus amount shall be handed over to the party placing the order.

#### 13. Place of fulfilment, applicable law and legal venue

13.1. The place of fulfilment for delivery and payment shall be our head office (Wutöschingen).

13.2. The Convention of the United Nations on the International Sale of Goods from 11 April 1980 (UN purchasing law/CISG) in the English-language version shall apply to the legal relationship with the party placing the order. Legal issues that are not set out in this Convention or which cannot be decided in accordance with its principles shall be subject to German law.

13.3. The sole legal venue for all disputes arising in connection with the agreement is the courts having jurisdiction over our head office of the company in Wutöschingen. We shall, however, also be entitled to assert claims with courts having jurisdiction over the party placing the order.

**alfer** aluminium Gesellschaft mbH

Commercial Register of Freiburg Local Court HRB 620 227 Status: 08/2014

# combitech<sup>®</sup> system | Model construction

Available in a choice of colours

## Uncoated and anodized aluminium



uncoated

silver

stainless steel visual  
effect

titanium

## Powder-coated aluminium



white

granite-white

granite-red

maple

beech

black

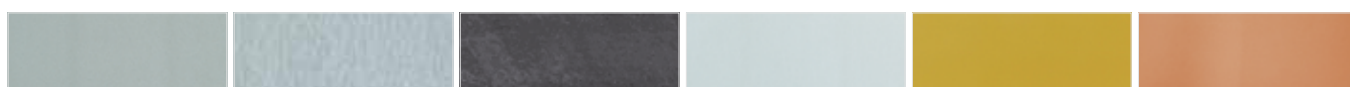
## Plastic



white

black

## Steel, stainless steel, brass and copper



raw

galvanized

steel grey

stainless steel

brass

copper

The colours shown are for reference purposes only and may differ from the actual colours for display reasons.

