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Sicherheit made in Germany

IHR ERFOLG MIT SICHTBARER HALTUNG

PRODUCT CONFIGURATOR

Sicherheit Made in Germany

Customized load securing solutions



ZERTIFIZIERTE von allsafe SICHERHEIT

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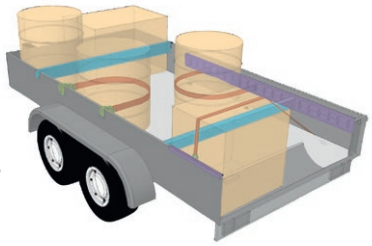
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We reserve the right to make technical changes at any time

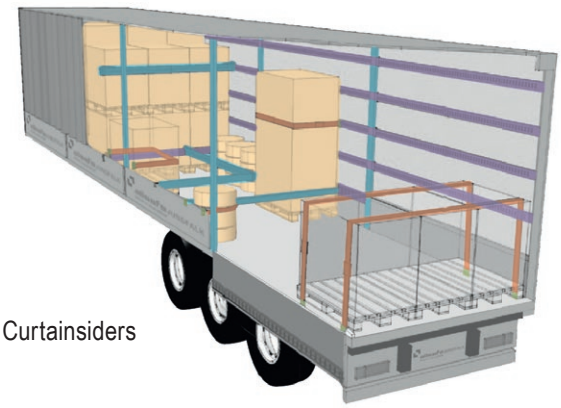
Light trailers



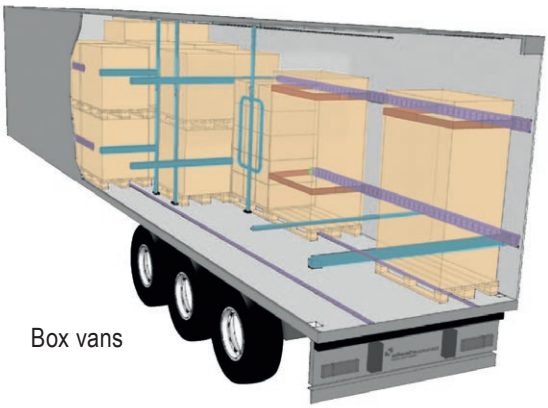
Commercial vehicles



Curtainsiders



Box vans




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Faktor 4

KIM 44 Profi

flexible usage

page 9

KIM 46

skinny mini

page 10-11

KIM 55

resilient and light

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KIM 4x4

quadratic and practical

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KIM 5x7

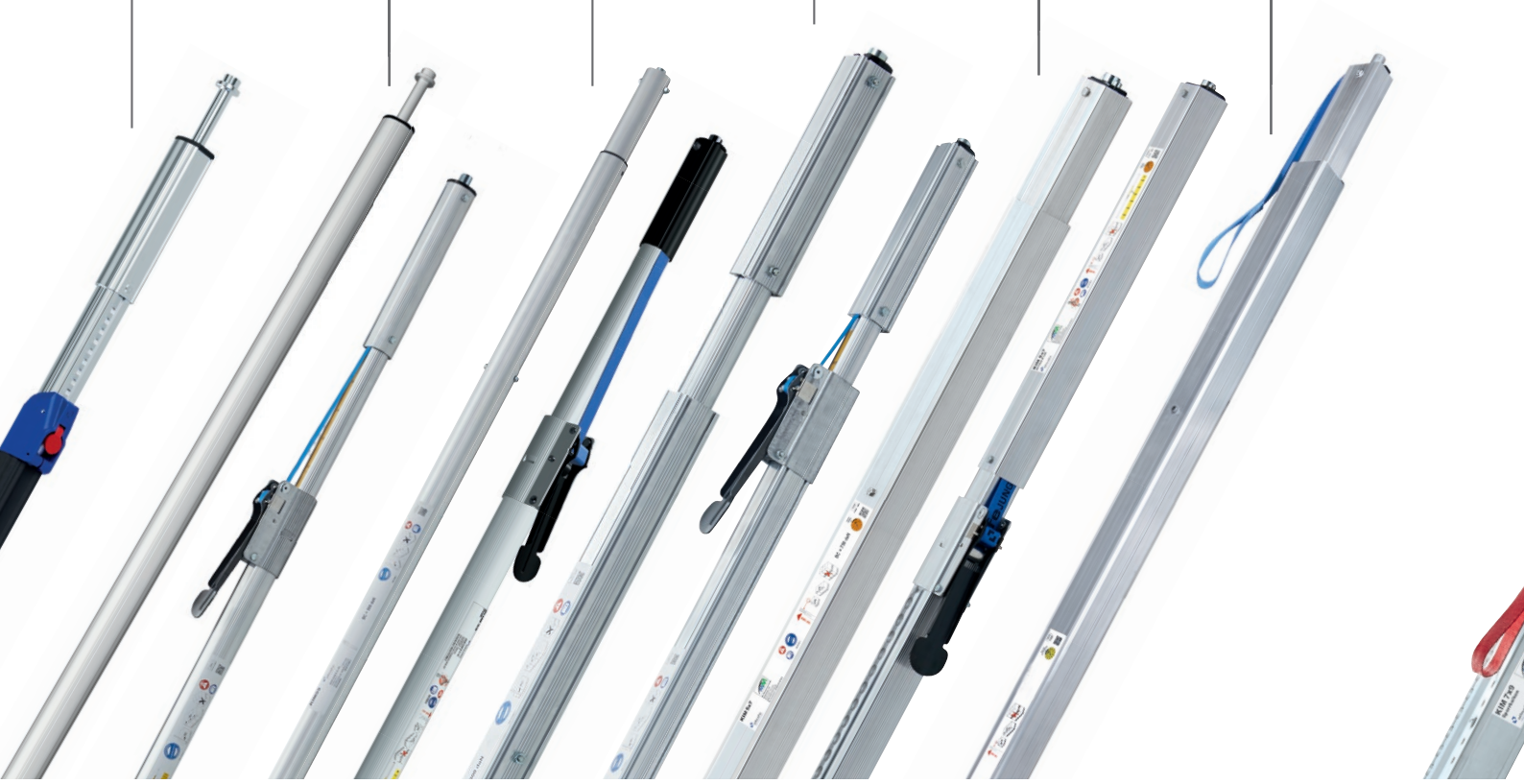
robust and variable

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KIM 6x7

light and strong

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Shoring elements custom-made

KIM 7x9

extra anchor points

page 23

SAM

safe, quick and reliable

page 26-27

PAT

variable to meet the highest demands

page 28-31

KAT

wide range blocking capacity

page 32-39

Decking beams

with higher loading capacity

page 40-45



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KIM – Shoring poles custom-made

Which KIM for which application:



KIM 44 Profi

flexible usage

- red locking knob ▸ lightening-fast adjustment
- long telescope ▸ large adjustment range
- spring-loaded on top for vertical use ▸ user-friendly

KIM 46

skinny mini

- configurable ▸ suitable for all current vehicle and types of tracks
- with pull stap ▸ ergonomical handling
- available with protective sleeve ▸ avoids damages to goods

KIM 55

resilient and light

- ergonomic operating lever ▸ for easy clamping and release
- telescope function ▸ only one crossbar required for all positions within the vehicle
- horizontal installation possible ▸ maximum flexibility



















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KIM – Shoring poles custom-made

Which KIM for which application:



KIM 4x4

quadratic and practical

- configurable ▸ suitable for all current vehicle and types of tracks
- optional anti-twist fixation ▸ for flexible use in Airline tracks
- New Airline insert ▸ allows for many different possibilities

KIM 5x7

robust and variable

- high-strength squared aluminum main tube ▸ more blocking force to meet the highest expectations
- longer floor bolt ▸ for levering loads
- main tube with integrated Airline milling ▸ stronger building blocks
- optional anti-twist fixation ▸ for flexible use in Airline tracks
- profi hand grip ▸ ergonomic and safe

KIM 7x9

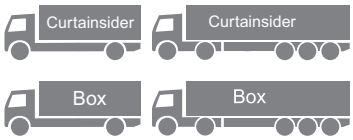
strong and removable

- very robust ▸ for continuous loading and unloading
- ergonomically adjustable ▸ little physical strain



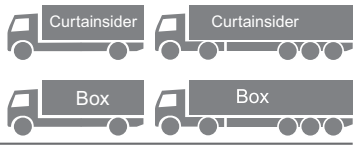
















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Your customized KIM. Compose it yourself:



Total length



Configure your KIM for your vehicle. We produce your KIM to fit your exact internal dimensions.

Adjustment range (only with KIM Profi)







KIM Profi has a large adjustment range, meaning that it can be used horizontally or vertically. It can also be used in vehicles with various interior dimensions. With just one look at the telescope insert you can tell which blocking force applies for your current working length.
The new lever mechanism allows for a very ergonomic fitting and removal.

End pieces



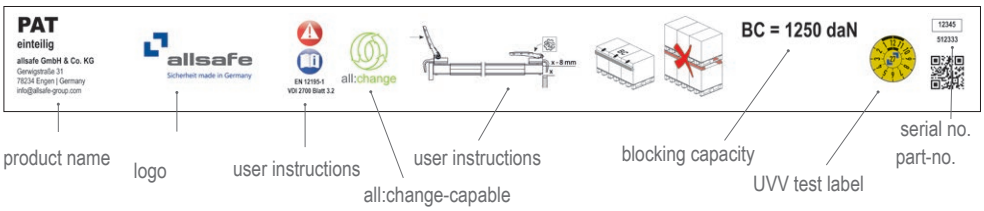
KIMs can be configurated with 19 or 24 Ø mm slotted or solid bolts which fit perfectly in 20 or 25 Ø mm Airline or round hole tracks. Slots are also compatible with pin tracks.

Load protection



Accessories for preventing damage to fragile goods. KIM 46 and KIM 46 Profi can be configurated with a protection sleeve which is mounted during production.

Product identification sticker



All KIMs are supplied with a certified load capacity specification on our product labels. Another one of our top standards is our QR Code which shows all important information about your Faktor-4 product. Use the allsafe-app to easily proof, calculate and manage your allsafe products.

all:change

KIM is covered by our all:change-promise. That means we maintain and repair damaged or worn-out KIM for a fixed price. Annual safety check, pick-up and delivery are included.

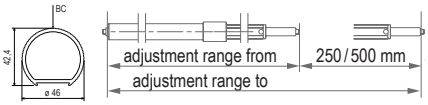
KIM 44 Profi

Variable length. Ideal for vertical use.

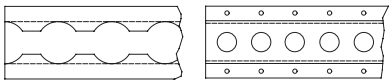
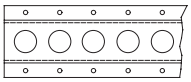
Length Weight: approx 2,5 – 4,0 kg depending on length

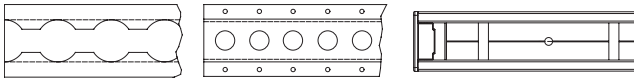
Box

1 - Adjustment range	2 - End pieces	3 - Load protection	4 - Product identification sticker	Order code
Adjustment lengths from min. 650 to max.1049 mm: 250 mm adjustment range Adjustment lengths from min. 1050 to max. 2500 mm: 500 mm adjustment range Adjustment range from xxxx - xxxx needed by order.				511110 KIM 44 Profi xxxx - xxxx mm



Upper / Lower end pieces

✓	2 - End pieces	3 - Load protection	4 - Product identification sticker	Order code
				Bolt D 19
Bolt Ø 19 mm	Compatible with Airline and round hole tracks Ø 20 mm			
				Bolt D 24
Bolt Ø 24 mm	Compatible with round hole tracks Ø 25 mm			

✓	2 - End pieces	3 - Load protection	4 - Product identification sticker	Order code
				Slot D 19
Slot Ø 19 mm	Compatible with Airline, round hole Ø 20 mm and pin tracks Ø 8 mm			

Case colour

✓	✓	3 - Load protection	4 - Product identification sticker	Order code
				blue green
blue (standard)	green			

Load protection and park holder

✓	✓	3 - Load protection	4 - Product identification sticker	Order code
				Sleeve
Protection sleeve				

Customized product identification sticker

✓	✓	✓	4 - Product identification sticker	Order code
				Custom sticker allsafe sticker
Customized product label with your logo				
Product label				

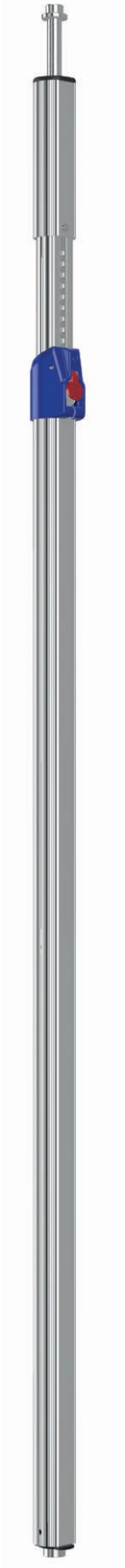
Sample order code

KIM 44 Profi	–	1550-2050	–	Bolzen D 19	–	allsafe sticker	–	Sleeve

Accessories



Park holder 510479x3



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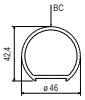
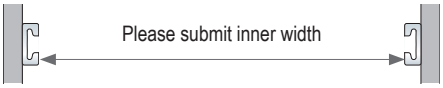


KIM 46

Light-weight with 450 daN blocking capacity*.

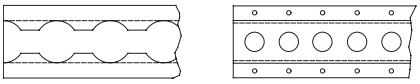
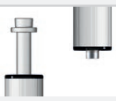
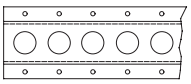
Length Weight: approx 1,5 – 3,5 kg depending on length

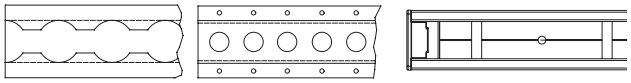
Box Curtainsider

1 - Length	2 - End pieces	3 - Pull strap	4 - Load protection	5 - Product identification sticker	Order code
Adjustment range possible from min. 300 to max. 2540 mm, with a fixed 50 mm range of spring.					512123 KIM 46
					Internal dimension xxxx mm

** up to 1200 mm length 550 daN | from 1200-1600 mm – 450 daN | from 1600-1800 mm – 350 daN | from 1800-2100 mm – 300 daN | fraom 2100 mm – 250 daN*

Upper / Lower end pieces

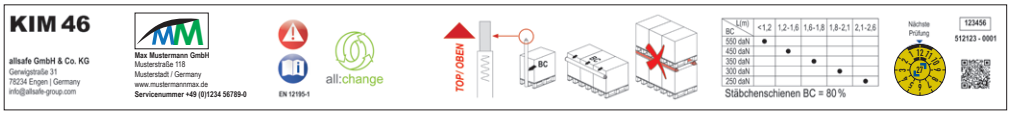
✓	2 - End pieces	3 - Pull strap	4 - Load protection	5 - Product identification sticker	Order code
					
Bolt Ø 19 mm short			Compatible with Airline and round hole tracks Ø 20 mm		Bolt D 19 short
					
Bolt Ø 24 mm short			Compatible with round hole tracks Ø 25 mm		Bolt D 24 short

✓	2 - End pieces	3 - Pull strap	4 - Load protection	5 - Product identification sticker	Order code
					
Slot Ø 19 mm			Compatible with Airline, round hole Ø 20 mm and pin tracks Ø 8 mm		Slot D 19

Load protection

✓	✓	✓	4 - Load protection	5 - Product identification sticker	Order code
					
Protection sleeve					Sleeve

Customized product identification sticker

✓	✓	✓	✓	5 - Product identification sticker	Order code
					
Customized product label with your logo					Custom sticker
Product label					allsafe sticker

Sample order code

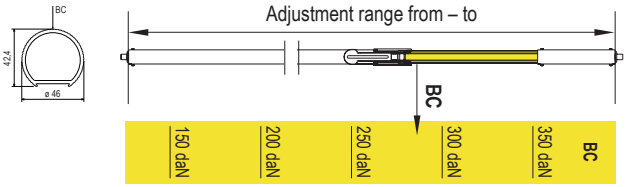
KIM 46 - 2400 - Upper Bolt D19 short - Lower Bolt D19 short - Sleeve - allsafe sticker

KIM 46 Profi

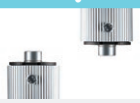
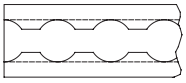
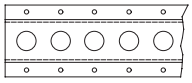
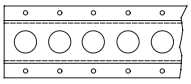
Blocking capacity of 350 daN with variable lengths.

Length Weight: approx 2,3 – 4,0 kg depending on length

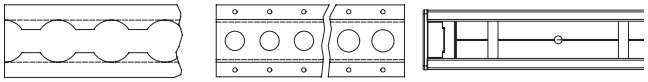
Box

1 - Length	2 - End pieces	3 - Load protection	4 - Product identification sticker	Order code
Adjustment range 1150 – 1550 mm				512076 KIM 46 Profi xxxx mm
Adjustment range 1550 – 2050 mm				
Adjustment range 2000 – 2500 mm				

Upper / Lower end pieces

✓	2 - End pieces	3 - Load protection	4 - Product identification sticker	Order code
				Bolt D 19 short
Bolt Ø 19 mm short	Bolt Ø 19 mm long	Compatible with Airline and round hole tracks Ø 20 mm		Bolt D 19 long
				Bolt D 24 short
Bolt Ø 24 mm short	Bolt Ø 24 mm long	Compatible with round hole tracks Ø 25 mm		Bolt D 24 long

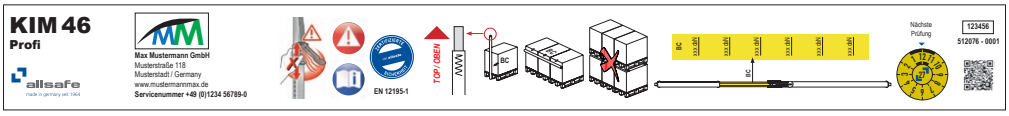
For sidewall and roof tracks, we recommend short bolts

✓	2 - End pieces	3 - Load protection	4 - Product identification sticker	Order code
				Slot D 19
Slot Ø 19 mm	Slot Ø 24 mm	Compatible with Airline, round hole Ø 20/25 mm and pin tracks Ø 8/10 mm		Slot D 24

Load protection

✓	✓	3 - Load protection	4 - Product identification sticker	Order code
				
Protection sleeve				Sleeve

Customized product identification sticker

✓	✓	✓	4 - Product identification sticker	Order code
				
Customized product label with your logo				Custom sticker
Product label				allsafe sticker

Sample order code

KIM 46 Profi – 1550-2050 – Upper Bolt D19 short – Lower Bolt D19 long – allsafe sticker



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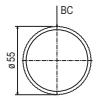
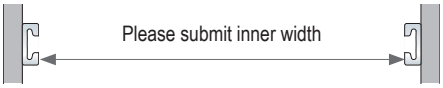
KIM 55

Light-weight with up to 450 daN* blocking capacity.



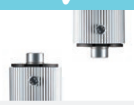
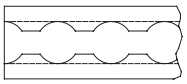
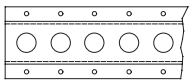
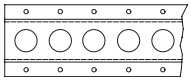
Length Weight: approx 2,5 – 3,8 kg depending on length

Box Curtainsider

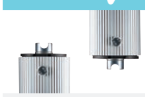
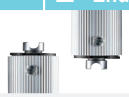
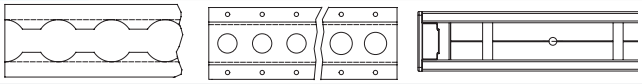
1 - Length	2 - End pieces	3 - Pull strap	4 - Product identification sticker	Order code
Adjustment range possible from min. 640 to max. 2520 mm, with a fixed 70 mm range of spring.				512075 KIM 55
				Internal dimension xxxx mm

** from 2000 mm length 350 daN*

Upper / Lower end pieces

✓	2 - End pieces	3 - Pull strap	4 - Product identification sticker	Order code
				Bolt D 19 short
Bolt Ø 19 mm short	Bolt Ø 19 mm long	Compatible with Airline and round hole tracks Ø 20 mm		Bolt D 19 long
				Bolt D 24 short
Bolt Ø 24 mm short	Bolt Ø 24 mm long	Compatible with round hole tracks Ø 25 mm		Bolt D 24 long

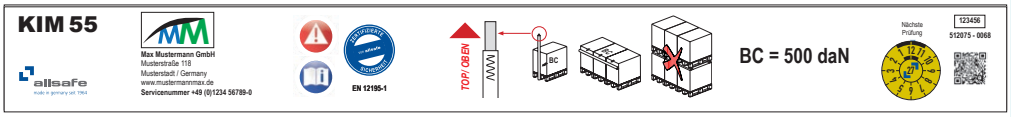
For sidewall and roof tracks, we recommend short bolts

✓	2 - End pieces	3 - Pull strap	4 - Product identification sticker	Order code
				Slot D 19
Slot Ø 19 mm	Slot Ø 24 mm	Compatible with Airline, round hole Ø 20/25 mm and pin tracks Ø 8/10 mm		Slot D 24

Pull strap for vertical use

✓	✓	3 - Pull strap	4 - Product identification sticker	Order code
				Pull strap
With / without pull strap				Without strap

Customized product identification sticker

✓	✓	✓	4 - Product identification sticker	Order code
				
Customized product label with your logo				Custom sticker
Product label				allsafe sticker

Sample order code

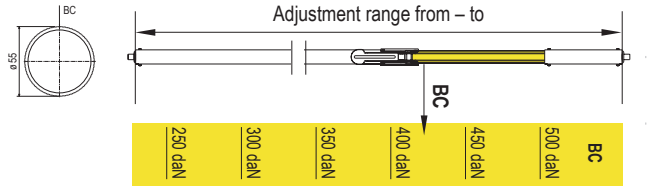
KIM 55 - 2400 - Upper Bolt D19 short - Lower Bolt D19 long - without strap - allsafe sticker

KIM 55 Profi

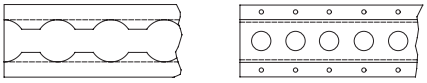
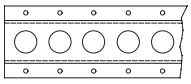
Blocking capacity of 500 daN with variable lengths.

Length Weight: approx 4,0 – 5,0 kg depending on length

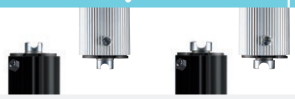
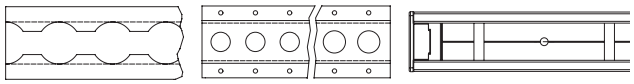
Box Box

1 - Length	2 - End pieces	3 - Product identification sticker	Order code
Adjustment range 1850 – 2300 mm			512073 KIM 55 Profi xxxx mm
Adjustment range 2100 – 2550 mm			
Adjustment range 2100 – 2850 mm			

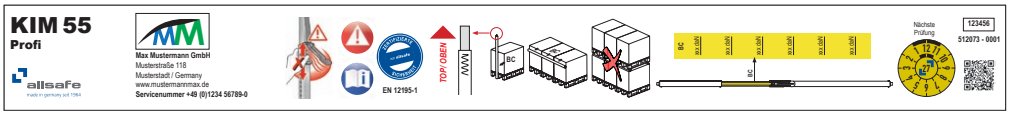
Upper / Lower end pieces

✓	2 - End pieces	3 - Product identification sticker	Order code
 Bolt Ø 19 mm short	 Bolt Ø 19 mm long	 Compatible with Airline and round hole tracks Ø 20 mm	Bolt D 19 short Bolt D 19 long
 Bolt Ø 24 mm short	 Bolt Ø 24 mm long	 Compatible with round hole tracks Ø 25 mm	Bolt D 24 short Bolt D 24 long

For sidewall and roof tracks, we recommend short bolts

✓	2 - End pieces	3 - Product identification sticker	Order code
 Slot Ø 19 mm Slot Ø 24 mm	 Compatible with Airline, round hole Ø 20/25 mm and pin tracks Ø 8/10 mm		Slot D 19 Slot D 24

Customized product identification sticker

✓	✓	3 - Product identification sticker	Order code
			
Customized product label with your logo			Custom sticker
Product label			allsafe sticker

Sample order code

KIM 55 Profi – 2100-2550 – Upper Bolt D 19 short – Lower Bolt D 19 long – allsafe sticker



allsafe Sicherheit made in Germany

KIM 4x4

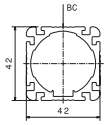
Light-weight with 400 daN blocking capacity*.

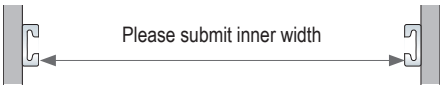


Optional anti-twist fixation

Length Weight:: approx 2,5 – 4,0 kg depending on length

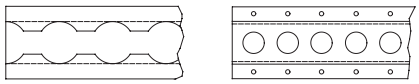
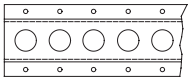
1 - Length	2 - End pieces	3 - Pull Strap	4 - Product identification sticker	Order code
Adjustment range possible from min. 640 to max. 2520 mm, with a fixed 70 mm range of spring.				512082 KIM 4x4 Internal dimension xxxx mm



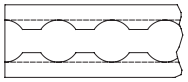


** up to 780 mm length 750 daN; from 2000 mm length 300 daN*

Upper / Lower end pieces

✓	2 - Endstücke	3 - Pull strap	4 - Product identification sticker	Order code
 Bolt Ø 19 mm short	 Bolt Ø 19 mm long	 Bolt extralong	 Compatible with Airline and round hole tracks Ø 20 mm	Bolt D 19 short Bolt D 19 long Bolt extralong
 Bolt Ø 24 mm short	 Bolt Ø 24 mm long	 Compatible with round hole tracks Ø 25 mm		Bolt D 24 short Bolt D 24 long

For sidewall and roof tracks, we recommend short bolts

✓	2 - End pieces	3 - Pull strap	4 - Product identification sticker	Order code
 Anti-twist X (Standard)	 Anti-twist Y	 Compatible with Airline tracks		Bolt X-axis Bolt Y-axis

Pull strap for vertical use

✓	✓	3 - Pull Strap	4 - Product identification sticker	Order code
 With pull strap				Pull strap

Customized product identification sticker

✓	✓	✓	4 - Product identification sticker	Order code
				
Customized product label with your logo				Custom sticker
Product label				allsafe sticker

Sample order code

KIM 4x4	– 2400	– Upper Bolt D 19 short	– Lower Bolt D 19 long	– allsafe sticker

NEW!

Accessories



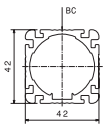
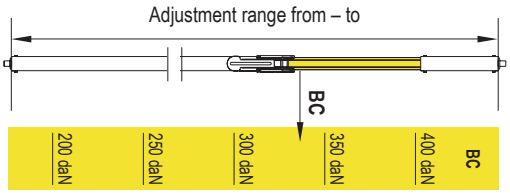
Airline adapter 512144

allsafe Sicherheit made in Germany

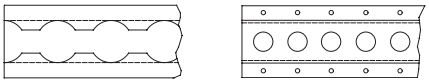
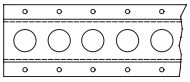
KIM 4x4 Profi

Blocking capactiy of 400 daN with variable lengths.

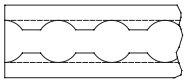
Length Weight:: approx 3,0 – 5,0 kg depending on length

1 - Length	2 - End pieces	3 - Product identification sticker	Order code
Adjustment range 1250 – 1650 mm			512080 KIM 4x4 Profi xxxx mm
Adjustment range 1500 – 1950 mm			
Adjustment range 1850 – 2300 mm			
Adjustment range 2100 – 2550 mm			

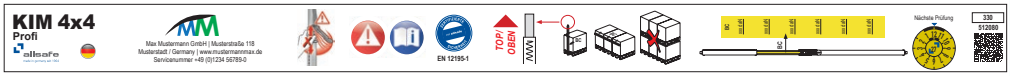
Upper / Lower end pieces

✓	2 - End pieces	3 - Product identification sticker	Order code
 Bolt Ø 19 mm short	 Bolt Ø 19 mm long	 Compatible with Airline and round hole tracks Ø 20 mm	Bolt D 19 short Bolt D 19 long
 Bolt Ø 24 mm short	 Bolt Ø 24 mm long	 Compatible with round hole tracks Ø 25 mm	Bolt D 24 short Bolt D 24 long

For sidewall and roof tracks, we recommend short bolts

✓	2 - End pieces	3 - Product identification sticker	Order code
 Anti-twist X (Standard)	 Anti-twist Y	 Compatible with Airline tracks	Bolt X-axis Bolt Y-axis

Customized product identification sticker

✓	✓	3 - Product identification sticker	Order code
 Customized product label with your logo			Custom sticker
Product label			allsafe sticker

Sample order code

KIM 4x4 Profi – 2100-2550 – Upper Bolt D 19 short – Lower Bolt D 19 long – allsafe sticker

NEW!

Accessories

	Airline adapter 512144



Optional anti-twist fixation

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KIM 4x4 Airline

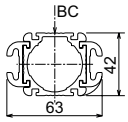
Light-weight with 400 daN blocking capacity*.

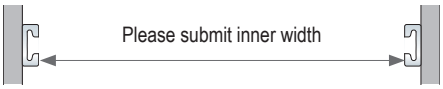


Optional anti-twist fixation

Length Weight: approx 3,0 – 7,0 kg depending on length

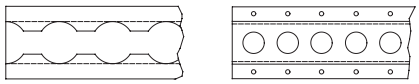
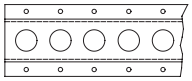
1 - Length	2 - End pieces	3 - Pull strap	4 - Product identification sticker	Order code
Adjustment range possible from min. 640 to max. 2520 mm, with a fixed 70 mm range of spring.				512083 KIM 4x4 Airline Internal dimension xxxx mm



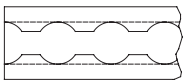


** up to 780 mm length 750 daN; from 2000 mm length 300 daN*

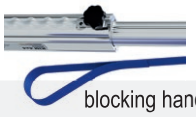
Upper / Lower end pieces

✓	2 - Endstücke	3 - Pull strap	4 - Product identification sticker	Order code
 Bolt Ø 19 mm short	 Bolt Ø 19 mm long	 Bolt extralong	 Compatible with Airline and round hole tracks Ø 20 mm	Bolt D 19 short Bolt D 19 long Bolt extralong
 Bolt Ø 24 mm short	 Bolt Ø 24 mm long	 Compatible with round hole tracks Ø 25 mm		Bolt D 24 short Bolt D 24 long

For sidewall and roof tracks, we recommend short bolts

✓	2 - End pieces	3 - Pull strap	4 - Product identification sticker	Order code
 Anti-twist X (Standard)	 Anti-twist Y	 Compatible with Airline tracks		Bolt X-axis Bolt Y-axis

Pull strap for vertical use

✓	✓	3 - Pull strap	4 - Product identification sticker	Order code
 With pull strap		 blocking handle		Pull strap Blocking handle

Customized product identification sticker

✓	✓	✓	4 - Product identification sticker	Order code
				
Customized product label with your logo				Custom sticker
Product label				allsafe sticker

Sample order code

KIM 4x4 Airline	- 2400	- Upper Bolt D 19 short	- Lower Bolt D 19 long	- allsafe sticker

NEW!

Accessories

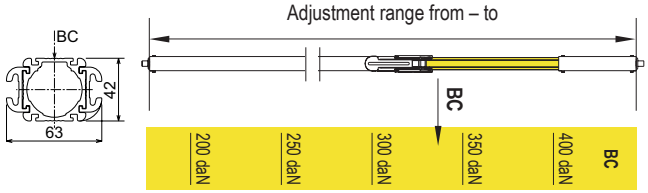
	Airline adapter 512144

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Sicherheit made in Germany

KIM 4x4 Airline Profi

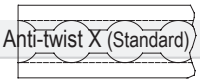
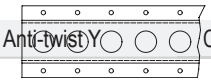
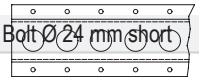
Blocking capactiy of 400 daN with variable lengths.

Length Weight: approx 3,0 – 7,0 kg depending on length

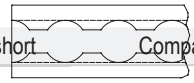
1 - Length	2 - End pieces	3 - Product identification sticker	Order code
Adjustment range 1250 – 1650 mm			512081 KIM 4x4 Airline Profi xxxx mm
Adjustment range 1500 – 1950 mm			
Adjustment range 1850 – 2300 mm			
Adjustment range 2100 – 2550 mm			

Upper end pieces *For sidewall and roof tracks, we recommend short bolts*

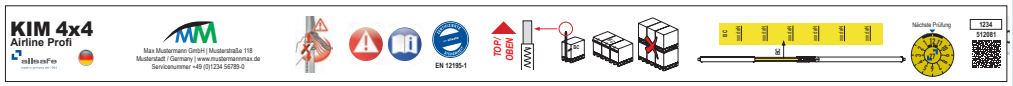
Upper / Lower end pieces

✓	2 - End pieces	3 - Product identification sticker	Order code
 Bolt Ø 19 mm short	 Bolt Ø 19 mm long	 Anti-twist X (Standard)  Anti-twist Y Compatible with Airline and round hole tracks Ø 20 mm	Bolt D 19 short Bolt D 19 long
 Bolt Ø 24 mm short	 Bolt Ø 24 mm long	 Bolt Ø 24 mm short Compatible with round hole tracks Ø 25 mm	Bolt D 24 short Bolt D 24 long

For sidewall and roof tracks, we recommend short bolts

✓	2 - End pieces	3 - Product identification sticker	Order code
 Anti-twist X (Standard)	 Anti-twist Y	 Bolt Ø 19 mm short Compatible with Airline tracks	Bolt X-axis Bolt Y-axis

Customized product identification sticker

✓	✓	3 - Product identification sticker	Order code
			
Customized product label with your logo			Custom sticker
Product label			allsafe sticker

Sample order code

KIM 4x4 Airline Profi – 2100-2550 – Upper Bolt D19 short – Lower Bolt D19 long – allsafe sticker

Accessories

	Airline adapter 512144



Optional anti-twist fixation

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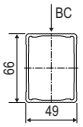
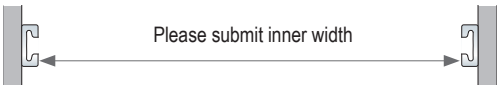
KIM 5x7

Light-weight with 750 daN blocking force.

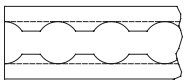
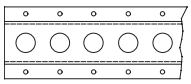
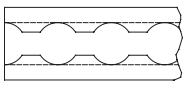
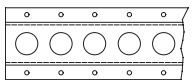
Length

Weight: approx 2 – 6 kg depending on length

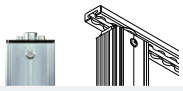
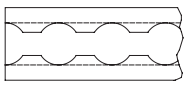
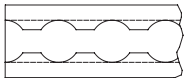
Curtainsider | Curtainsider | Box | Box

1 - Length	2 - End pieces	3 - Control element	4 - Product identification sticker	Order code
Adjustment range possible from min. 640 to max. 2480 mm, with a fixed 70 mm range of spring.				512061 KIM 5x7
				Internal dimension xxxx mm

Upper / Lower end pieces

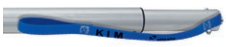
✓	2 - End pieces	3 - Control element	4 - Product identification sticker	Order code
				
Bolt Ø 19 mm short	Bolt Ø 19 mm long	Compatible with Airline and round hole tracks Ø 20 mm		Bolt D 19 short Bolt D 24 short
				
Bolt Ø 24 mm short	Bolt Ø 24 mm long	Compatible with Airline and round hole tracks Ø 25 mm		Bolt D 24 short Bolt D 24 long

For sidewall and roof tracks, we recommend short bolts

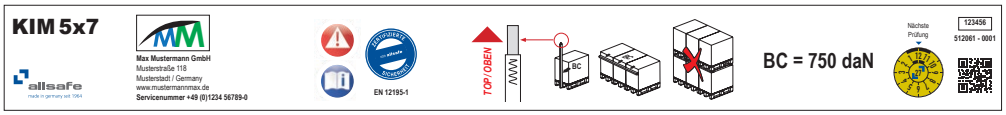
✓	2 - End pieces	3 - Control element	4 - Product identification sticker	Order code
				Roof track Bolt X-axis Bolt Y-axis
Roof track (522020)	Anti-twist X (Standard)	Anti-twist Y	Compatible with Airline tracks Ø 20 mm	
Twist lock available on top or lower end				Bolt X-axis Bolt Y-axis
	Anti-twist X (Standard)	Anti-twist Y	Compatible with Airline tracks Ø 20 mm	

For sidewall and roof tracks, we recommend short bolts

Handle for a better handling / accessories

✓	✓	3 - Control element	4 - Product identification sticker	Order code
				Handle Pull strap Beam holder
With handle	With pull strap		Beam holder	

Customized product identification sticker

✓	✓	✓	4 - Product identification sticker	Order code
				
Customized product label with your logo				Custom sticker
Product label				allsafe sticker

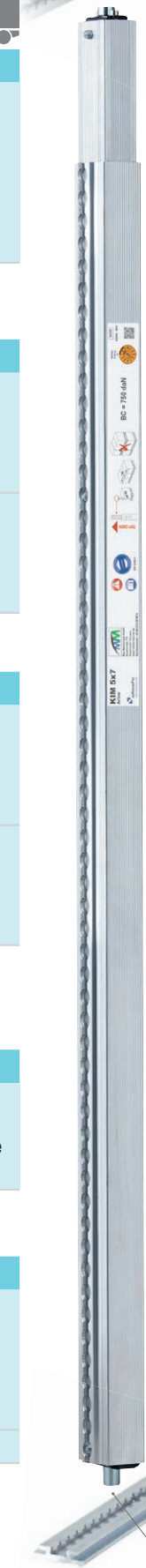
Sample order code

KIM 5x7	–	2400	–	Upper bolt Ø 19 short	–	Lower bolt Ø 19 long	–	allsafe-sticker

KIM 5x7 Airline

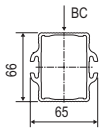
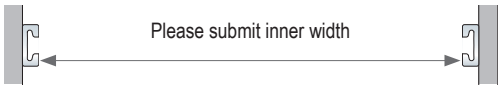
The ultimate upgrade with Airline milling.



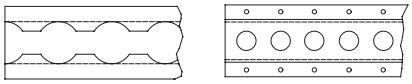
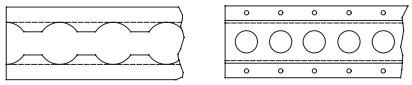


Length Weight: approx 2,5 – 6,6 kg depending on length

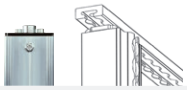
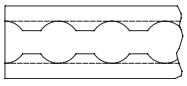
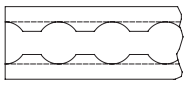


1 - Length	2 - End pieces	3 - Control element	4 - Product identification sticker	Order code
Adjustment range possible from min. 640 to max. 2480 mm, with a fixed 70 mm range of spring.				510574 KIM 5x7 Airline
				Internal dimension xxxx mm

Upper / Lower end pieces

✓	2 - End pieces	3 - Control element	4 - Product identification sticker	Order code
				Bolt D 19 short Bolt D 24 short
Bolt Ø 19 mm short	Bolt Ø 19 mm long	Compatible with Airline and round hole tracks Ø 20 mm		
				Bolt D 24 short Bolt D 24 long
Bolt Ø 24 mm short	Bolt Ø 24 mm long	Compatible with Airline and round hole tracks Ø 25 mm		

For sidewall and roof tracks, we recommend short bolts

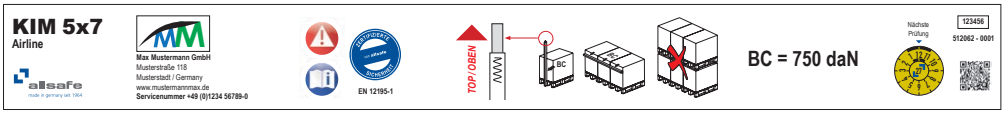
✓	2 - End pieces	3 - Control element	4 - Product identification sticker	Order code
				Roof track Bolt X-axis Bolt Y-axis
Roof track (522020)	Anti-twist X (Standard)	Anti-twist Y	Compatible with Airline tracks Ø 20 mm	
Twist lock available on top or lower end				Bolt X-axis Bolt Y-axis
	Anti-twist X (Standard)	Anti-twist Y	Compatible with Airline tracks Ø 20 mm	

For sidewall and roof tracks, we recommend short bolts

Handle for a better handling / accessories

✓	✓	3 - Control element	4 - Product identification sticker	Order code
				Handle Pull strap Blocking handle Beam holder
With handle	With pull strap	With blocking handle	Beam holder	

Customized product identification sticker

✓	✓	✓	4 - Product identification sticker	Order code
				
Customized product label with your logo				Custom sticker
Product label				allsafe sticker

Sample order code

KIM 5x7 Airline – 1800 – Upper bolt Ø 19 short – Lower bolt Ø 19 long – Handle – allsafe sticker







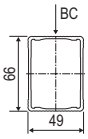
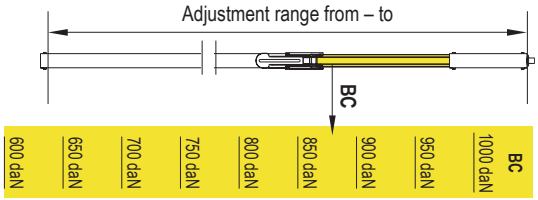
KIM 5x7 Profi

1000 daN with variable lengths.

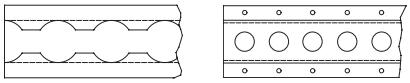
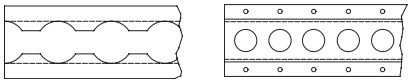
Length

Weight: approx 6,0 – 7,2 kg depending on length

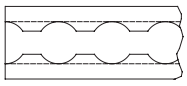
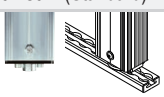
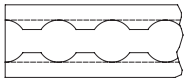
Curtainsider | Curtainsider | Box | Box

1 - Length	2 - End pieces	3 - Product identification sticker	Order code
Adjustment range 1800 – 2000 mm			512047 KIM 5x7 Profi xxxx mm
Adjustment range 2000 – 2500 mm			
Adjustment range 2350 – 2850 mm			
Adjustment range 2700 – 3200 mm			

Upper / Lower end pieces

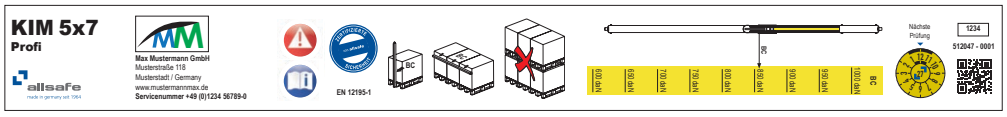
✓	2 - End pieces	3 - Control element	4 - Product identification sticker	Order code
				Bolt D 19 short Bolt D 24 short
Bolt Ø 19 mm short	Bolt Ø 19 mm long	Compatible with Airline and round hole tracks Ø 20 mm		
				Bolt D 24 short Bolt D 24 long
Bolt Ø 24 mm short	Bolt Ø 24 mm long	Compatible with Airline and round hole tracks Ø 25 mm		

For sidewall and roof tracks, we recommend short bolts

✓	2 - End pieces	3 - Control element	4 - Product identification sticker	Order code
Twist lock available on top or lower end				Roof track Bolt X-axis Bolt Y-axis
	Anti-twist X (Standard)	Anti-twist Y	Compatible with Airline tracks Ø 20 mm	
				Bolt X-axis Bolt Y-axis
	Anti-twist X (Standard)	Anti-twist Y	Compatible with Airline tracks Ø 20 mm	

For sidewall and roof tracks, we recommend short bolts

Customized product identification sticker

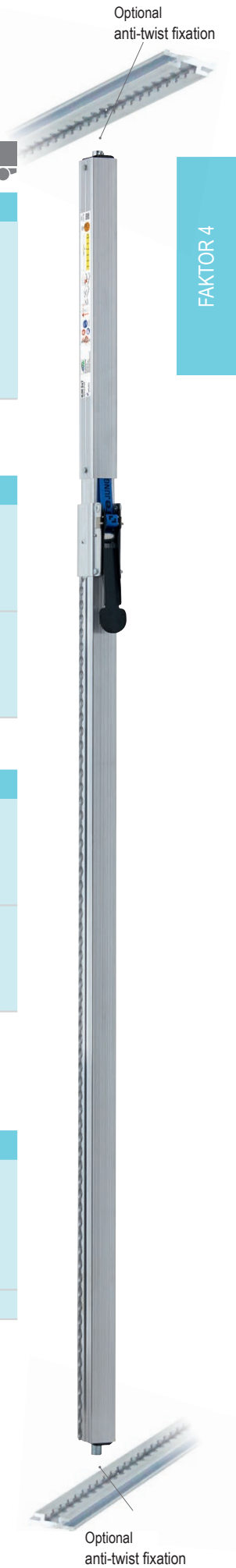
✓	✓	3 - Product identification sticker	Order code
			
Customized product label with your logo			Custom sticker
Product label			allsafe sticker

Sample order code

KIM 5x7 Profi – 2350-2850 – Upper bolt 19 short – Lower bolt 19 long – allsafe-sticker

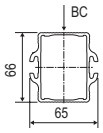
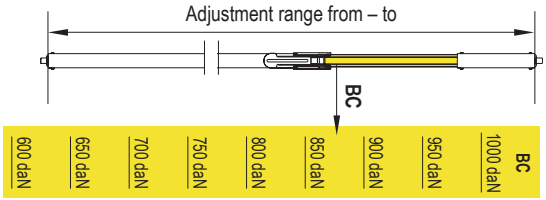
KIM 5x7 Airline Profi

Unlimited possibilities with the highest BC.

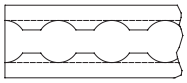
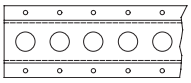
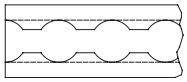
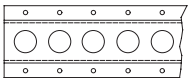


Length Weight: approx 6,2 – 7,5 kg depending on length

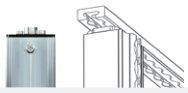
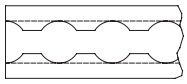
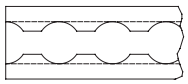


1 - Length	2 - End pieces	3 - Product identification sticker	Order code
Adjustment range 1800 – 2000 mm			512058 KIM 5x7 Airline Profi xxxx mm
Adjustment range 2000 – 2500 mm			
Adjustment range 2350 – 2850 mm			
Adjustment range 2700 – 3200 mm			

Upper / Lower end pieces

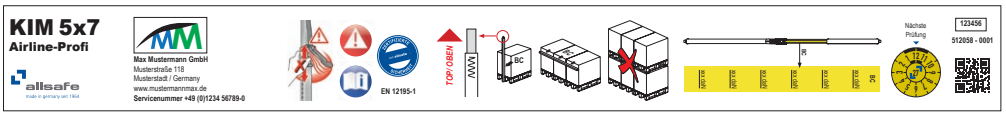
✓	2 - End pieces	3 - Control element	4 - Product identification sticker	Order code
				Bolt D 19 short Bolt D 24 short
Bolt Ø 19 mm short	Bolt Ø 19 mm long	Compatible with Airline and round hole tracks Ø 20 mm		
				Bolt D 24 short Bolt D 24 long
Bolt Ø 24 mm short	Bolt Ø 24 mm long	Compatible with Airline and round hole tracks Ø 25 mm		

For sidewall and roof tracks, we recommend short bolts

✓	2 - End pieces	3 - Control element	4 - Product identification sticker	Order code
				Roof track Bolt X-axis Bolt Y-axis
	Anti-twist X (Standard)	Anti-twist Y	Compatible with Airline tracks Ø 20 mm	
Twist lock available on top or lower end				Bolt X-axis Bolt Y-axis
	Anti-twist X (Standard)	Anti-twist Y	Compatible with Airline tracks Ø 20 mm	

For sidewall and roof tracks, we recommend short bolts

Customized product identification sticker

✓	✓	3 - Product identification sticker	Order code
			
Customized product label with your logo			Custom sticker
Product label			allsafe sticker

Sample order code

KIM 5x7 Airline Profi – 1800-2300 – Upper bolt X-axis – Lower bolt 19 long – allsafe-sticker



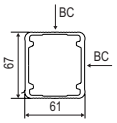
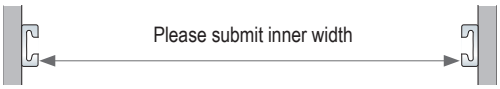
KIM 6x7

The Light-weight with mind. 1000 daN blocking force.

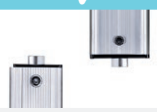
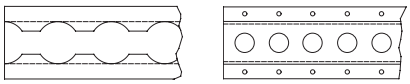
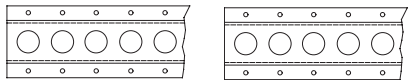
Length

Weight: approx 4,0 – 7,0 kg depending on length

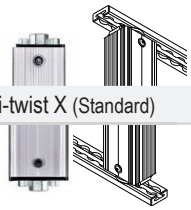
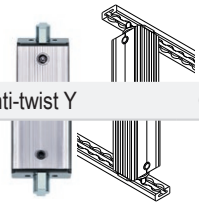
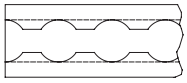
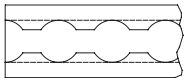
Curtainsider | Curtainsider | Box | Box

1 - Length	2 - End pieces	3 - Control element	4 - Product identification sticker	Order code
Adjustment range possible from min. 640 to max. 2480 mm, with a fixed 70 mm range of spring.				512384 KIM 6x7
				Internal dimension xxxx mm

Upper / Lower end pieces

✓	2 - End pieces	3 - Control element	4 - Product identification sticker	Order code
				Bolt D 19 short Bolt D 24 short
Bolt Ø 19 mm short	Bolt Ø 19 mm long	Compatible with Airline and round hole tracks Ø 20 mm		
				Bolt D 24 short Bolt D 24 long
Bolt Ø 24 mm short	Bolt Ø 24 mm long	Compatible with Airline and round hole tracks Ø 25 mm		

For sidewall and roof tracks, we recommend short bolts

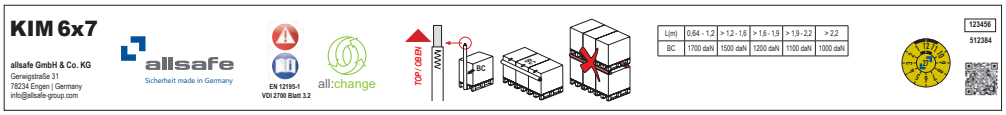
✓	2 - End pieces	3 - Control element	4 - Product identification sticker	Order code
Twist lock available on top or lower end				Bolt X-axis Bolt Y-axis
	Anti-twist X (Standard)	Anti-twist Y	Compatible with Airline tracks Ø 20 mm	
				Bolt X-axis Bolt Y-axis
	Anti-twist X (Standard)	Anti-twist Y	Compatible with Airline tracks Ø 20 mm	

For sidewall and roof tracks, we recommend short bolts

Handle for a better handling

✓	✓	3 - Control element	4 - Product identification sticker	Order code
				Grip strap Pull strap
With grip strap	With pull strap			

Customized product identification sticker

✓	✓	✓	4 - Product identification sticker	Order code
				
Customized product label with your logo				Custom sticker
Product label				allsafe sticker

Sample order code

KIM 6x7	– 2400	– Upper bolt Ø 19 short	– Lower bolt Ø 19 long	– allsafe-sticker

KIM 7x9

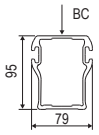
Robust positive loading, easy handling for vertical use. Anti-twist fixation.

Length

Weight: approx 10 – 15 kg depending on length



1 - Length	2 - Floor track	3 - End pieces	4 - Product identification sticker	Order code
Adjustment range possible from min. 1800 to max. 3100 mm. Adjustment range. ± 50 mm.				512010 KIM 7x9 Internal dimension xxxx mm

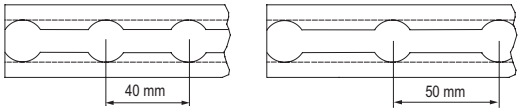
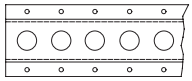




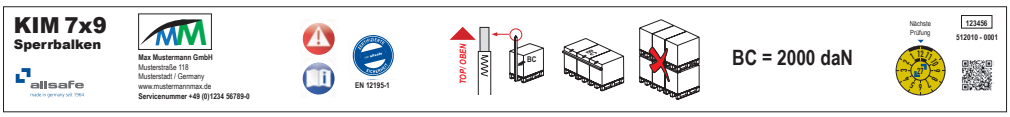
Floor track

✓	2 - Floor track	3 - End pieces	4 - Product identification sticker	Order code
				Aluminium
Please specify material by order				Steel
				40 mm
Please specify pitch by order				50 mm

End pieces

✓	✓	3 - End pieces	4 - Product identification sticker	Order code
				
Ø 19 mm bolt	Compatible with Airline tracks Ø 20 mm			Bolt 19 mm
				
Ø 24 mm bolt	Compatible with round hole tracks Ø 25 mm			Bolt 24 mm

Customized product identification sticker

✓	✓	✓	4 - Product identification sticker	Order code
				
Customized product label with your logo				Custom sticker
Product label				allsafe sticker

Sample order code

KIM 7x9	-	2200	-	Steel 40 mm	-	19 mm bolt	-	allsafe sticker



allsafe
Sicherheit made in Germany

SAM – Cargo bars custom-made

Reliable with a wide adjustment range.
Load restraint without tracks.



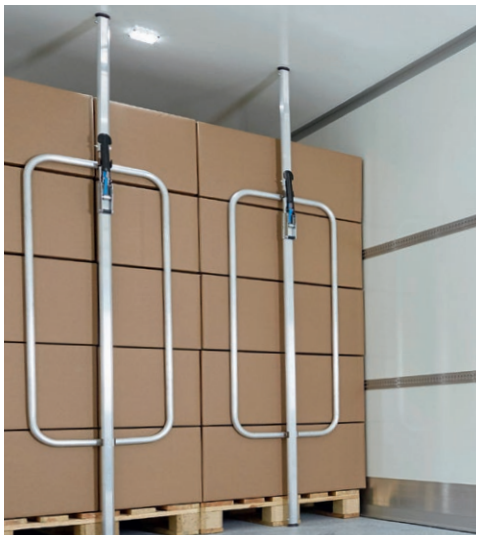
SAM 55 Profi

The standard for box vehicles

SAM 46 Profi

The light-weight for transporters





Box





Box

allsafe
Sicherheit made in Germany

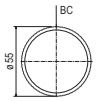


SAM 55 Profi

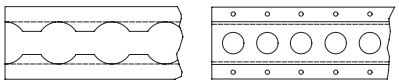
The standard for box vans.

Length Weight: approx 4,0 – 5,0 kg depending on length

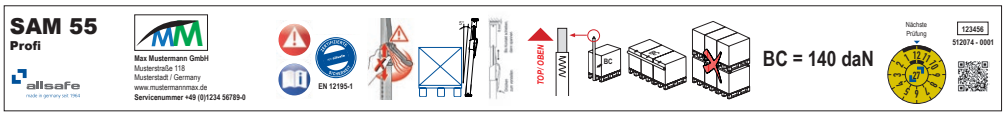
Box

1 - Length	2 - End pieces	3 - Product identification sticker	Order code
Adjustment range 1850 – 2300 mm			512074 SAM 55 Profi Profi xxxx mm
Adjustment range 2100 – 2550 mm			
Adjustment range 2100 – 2850 mm			

End pieces

✓	2 - End pieces	3 - Product identification sticker	Order code
 Rubber foot	 Rubber foot blue		Upper xxx Lower xxx (Choose between rubber feet on both sides or 19 or 24 mm bolts on either side)
 Bolt 19 mm	 Bolt 24 mm	 Compatible with Airline and round hole tracks Ø 20 / 25 mm	

Customized product identification sticker

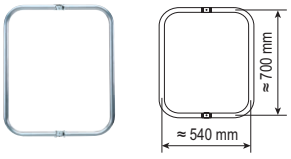
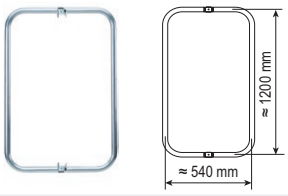
✓	✓	3 - Product identification sticker	Order code
			
Customized product label with your logo			Custom sticker
allsafe-Produkttypenschild			allsafe sticker

Sample order code

SAM 55 Profi	–	2100-2550	–	Upper Bolt D19	–	Lower Rubber foot	–	allsafe sticker

Need bolts on both sides?
KIM makes your wish come true!

Accessories

Compatible with SAM 55 Profi		
		
	Clip on frame 512059-07	Clip on frame 512059-12

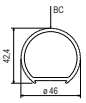
SAM 46 Profi

The light-weight for transporters.



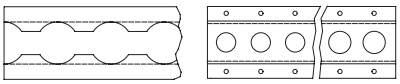
Length Weight: approx 2,3 – 4,0 kg depending on length

Box

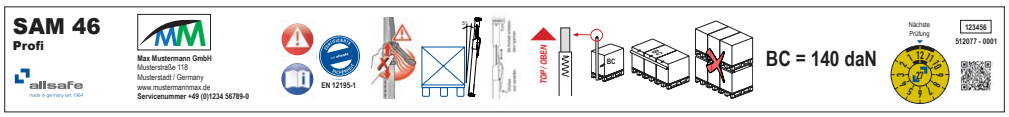
1 - Length	2 - End pieces	3 - Product identification sticker	Order code
Adjustment range 1150 – 1550 mm*			512077 SAM 46 Profi xxxx mm
Adjustment range 1550 – 2050 mm*			
Adjustment range 2000 – 2500 mm*			

** up to 1550 mm length 140 daN; from 1550 mm length 120 daN*

End pieces

✓	2 - End pieces	3 - Product identification sticker	Order code
 Rubber foot Rubber foot blue			Upper xxx Lower xxx (Choose between rubber feet on both sides or 19 or 24 mm bolts on either side)
 Bolt 19 mm Bolt 24 mm	 Compatible with Airline and round hole tracks Ø 20 / 25 mm		

Customized product identification sticker

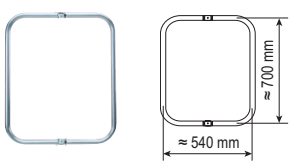
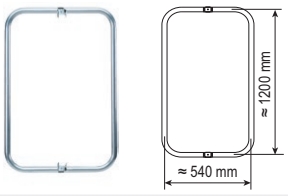
✓	✓	3 - Product identification sticker	Order code
			
Customized product label with your logo			Custom sticker
Product label			allsafe sticker

Sample order code

SAM 46 Profi	–	1550–2050	–	Upper Bolt D19	–	Lower Rubber foot	–	allsafe sticker

Need bolts on both sides?
KIM makes your wish come true!

Accessories

Compatible with SAM 46 Profi		
	Clip on frame 512059-08	Clip on frame 512059-13

allsafe
Sicherheit made in Germany

PAT –
Clamp-shoring beams custom-made

Patented and unique.

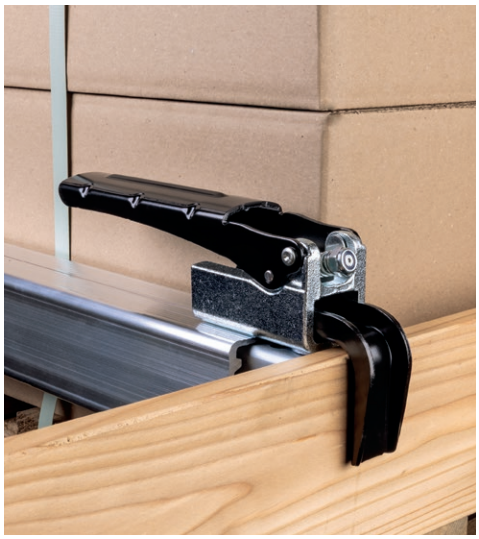


PAT mono
PAT duo NEW!

the strongest









allsafe
Sicherheit made in Germany

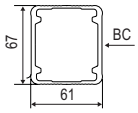
PAT mono

One-piece beam. 1250 daN blocking capacity. For 18-30 mm side boards.

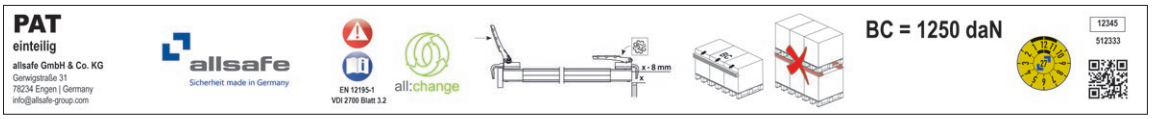


Length Weight: approx 7,0 – 9,0 kg depending on length



1 - Adjustment range	2 - Product identification sticker	Order code
Adjustment lengths from min. 1460 to max. 2460 mm: ± 60 mm adjustment range.		512333 PAT mono xxxx mm
		
		

Customized product identification sticker

✓	2 - Product identification sticker	Order code
		
Customized product label with your logo		Custom sticker
Product label		allsafe sticker

Sample order code

PAT mono	–	1460-1520	–	allsafe sticker

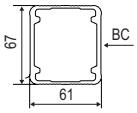
PAT duo

Two-piece beam. 1000 daN blocking capacity. For 18-30 mm side boards.

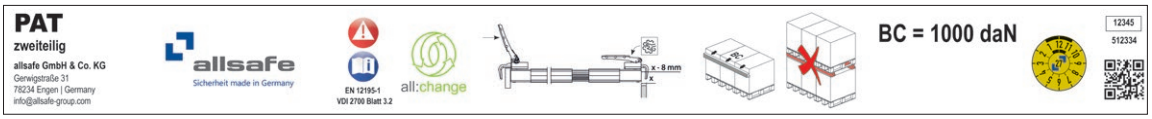


Length Weight: approx 7,5 – 9,5 kg depending on length



1 - Adjustment range	2 - Product identification sticker	Order code
Adjustment lengths from min. 1945 to max. 2405 mm: ± 115 mm adjustment range.		512334 PAT duo xxxx mm
		
		

Customized product identification sticker

✓	2 - Product identification sticker	Order code
		
Customized product label with your logo		Custom sticker
Product label		allsafe sticker

Sample order code

PAT duo	–	2000-2150	–	allsafe sticker

allsafe
Sicherheit made in Germany

KAT – Shoring beams custom-made

For various tracks.



KAT Combi
the original

KAT Airline
for Airline tracks

KAT SL
for garment transport

KAT AJS
for curtainsiders

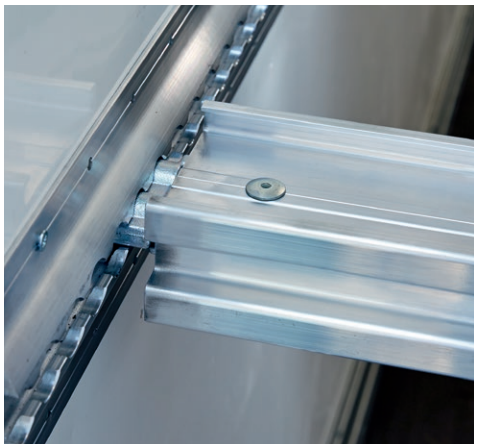
Curtainsider Curtainsider
Box Box





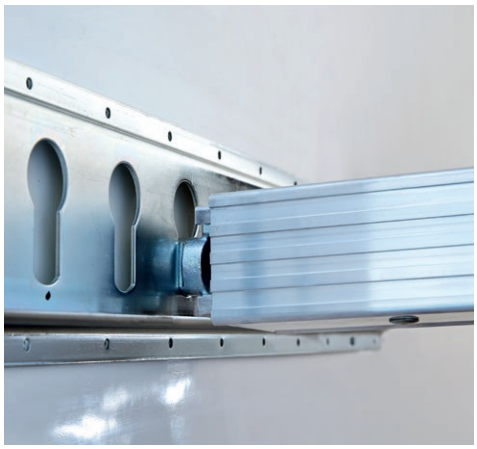
Box Box





Box Box





Curtainsider Curtainsider





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Sicherheit made in Germany

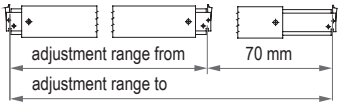
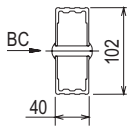
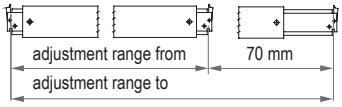
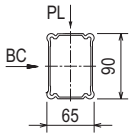
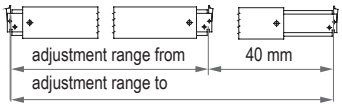
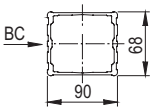
KAT Combi

For combi tracks. For horizontal use.

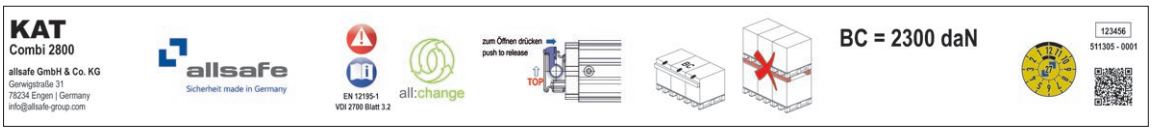


Length

Curtainsider | Curtainsider | Box | Box

1 - Length / Adjustment range	2 - Product identification sticker	Order code
BC 900 daN: Adjustment lengths from min. 485 to max. 2475 mm: ± 35 mm adjustment range Inner width xxxx needed by order *Warning: not suitable for double-deck loading* ***For standard width telescope also possible on both sides***   BC 900		511303 KAT Combi 900 xxxx mm
BC 1100 daN: Adjustment lengths from min. 485 to max. 2465 mm: ± 35 mm adjustment range Inner width xxxx needed by order ***For standard width telescope also possible on both sides***   PL 1000 BC 1100		511304 KAT Combi 1100 xxxx mm
BC 2300 daN: Adjustment lengths from min. 650 to max. 2500 mm: ± 20 mm adjustment range Inner width xxxx needed by order *Warning: not suitable for double-deck loading*   BC 2300		511305 KAT Combi 2800 xxxx mm

Customized product identification sticker

✓	2 - Product identification sticker	Order code
		
Customized product label with your logo		Custom sticker
Product label		allsafe sticker

Sample order code

KAT Combi 2800	–	2480-2520	–	allsafe sticker

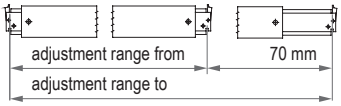
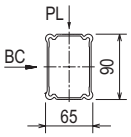
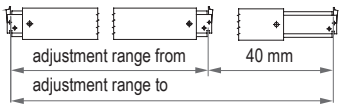
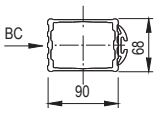
KAT Combi Airline

Combi track approved. With Airline track for almost every application.

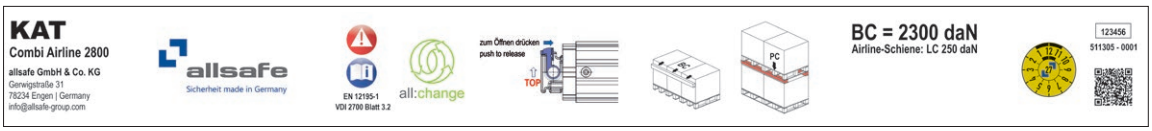


Length

Curtainsider | Curtainsider | Box | Box

1 - Length / Adjustment range	2 - Product identification sticker	Order code
BC 1100 daN: Adjustment lengths from min. 485 to max. 2465 mm: ± 35 mm adjustment range Inner width xxxx needed by order **Airline track– BC 200 daN**   PL 1000 BC 1100		511304 KAT Combi Airline 1100 xxxx mm
BC 2300 daN: Adjustment lengths from min. 650 to max. 2500 mm: ± 20 mm adjustment range Inner width xxxx needed by order **Airline track – BC 250 daN** *Warning: not suitable for double-deck loading*   BC 2300		511305 KAT Combi Airline 2800 xxxx mm

Customized product identification sticker

✓	2 - Product identification sticker	Order code
		
Customized product label with your logo		Custom sticker
Product label		allsafe sticker

Sample order code

KAT Combi Airline 2800	–	2480-2520	–	allsafe sticker

allsafe
Sicherheit made in Germany

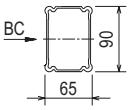
KAT Combi 800

Blocking in combi tracks. Now spring-loaded for a tighter fit.



Length

Box Box

1 - Length	2 - Product identification sticker	Order code
BC 800 daN: Adjustment lengths from min. 650 to max. 2510 mm: ± 30 mm adjustment range.  		511302 KAT Combi 800 Internal dimension xxxx mm
	BC 800	

Customized product identification sticker

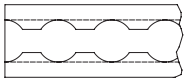
✓	2 - Product identification sticker	Order code
		
Customized product label with your logo		Custom sticker
Product label		allsafe sticker

Sample order code

KAT Combi 800	–	2200	–	allsafe sticker

Heads and insert made of aluminium – especially light-weight!

KAT Airline 800

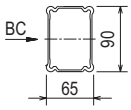


Blocking in Airline tracks. Elastic force for sturdiness in box vehicles.



Length



1 - Length	2 - Product identification sticker	Order code
BC 800 daN: Adjustment lengths from min. 650 to max. 2510 mm: ± 30 mm adjustment range.  		511300 KAT Airline 800 Internal dimension xxxx mm
BC 800		

Customized product identification sticker

✓	2 - Product identification sticker	Order code
		
Customized product label with your logo		Custom sticker
Product label		allsafe sticker

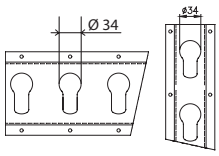
Sample order code

KAT Airline 800	–	2480	–	allsafe sticker

allsafe
Sicherheit made in Germany

KAT SL

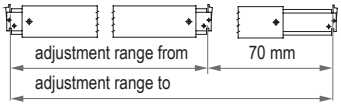
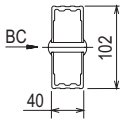
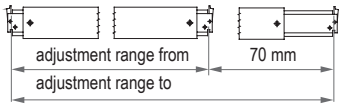
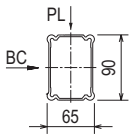
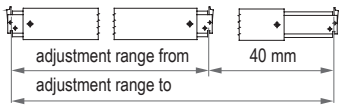
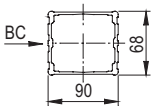
For keyhole tracks in garment transport and for double-deck loading.





Length

Box Box

1 - Length / Adjustment range	2 - Product identification sticker	Order code
BC 900 daN: Adjustment lengths from min. 485 to max. 2475 mm: ± 35 mm adjustment range Inner width xxxx needed by order *Warning: not suitable for double-deck loading*  	BC 900	511309 KAT SL 900 xxxx mm
BC 1100 daN: Adjustment lengths from min. 485 to max. 2465 mm: ± 35 mm adjustment range Inner width xxxx needed by order *For standard width telescope also possible on both sides*  	PL 1000 BC 1100	511310 KAT SL 1100 xxxx mm
BC 2300 daN: Adjustment lengths from min. 650 to max. 2500 mm: ± 20 mm adjustment range Inner width xxxx needed by order *Warning: not suitable for double-deck loading*  	BC 2300	511311 KAT SL 2800 xxxx mm

Customized product identification sticker

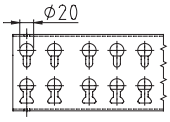
✓	2 - Product identification sticker	Order code
		
Customized product label with your logo		Custom sticker
Product label		allsafe sticker

Sample order code

KAT SL 2800	–	2480-2520	–	allsafe sticker

KAT AJS

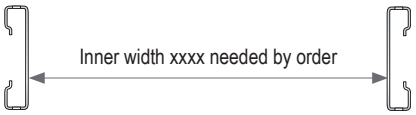
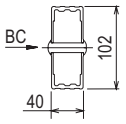
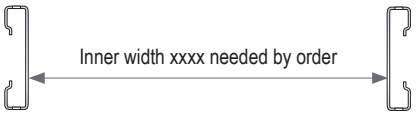
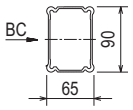
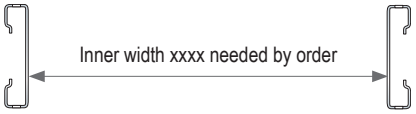
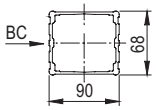
For AJS lashing profiles. For horizontal use.





Length

Curtainsider Curtainsider

1 - Length	2 - Product identification sticker	Order code
BC 900 daN: Adjustment lengths from min. 425 to max. 2475 mm: ± 35 mm adjustment range   BC 900		511306 KAT AJS 900 Internal dimension xxxx mm
BC 1100 daN: Adjustment lengths from min. 485 to max. 2500 mm: ± 35 mm adjustment range   BC 1100		511307 KAT AJS 1100 Internal dimension xxxx mm
BC 2300 daN: Adjustment lengths from min. 650 to max. 2480 mm: ± 20 mm adjustment range.   BC 2300		511308 KAT AJS 2800 Internal dimension xxxx mm

Customized product identification sticker

✓	2 - Product identification sticker	Order code
		
Customized product label with your logo		Custom sticker
Product label		allsafe sticker

Sample order code

KAT AJS 900	-	2480	-	allsafe sticker

allsafe
Sicherheit made in Germany

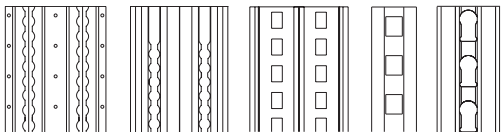
Decking beams custom-made

For more loading volume and easy handling.



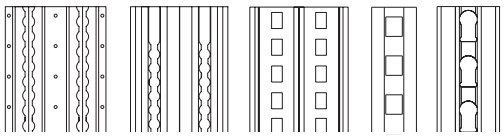
Classic

increases the loading capacity



Heavy-duty

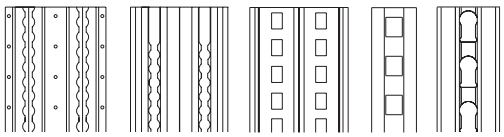
for even more loading capacity





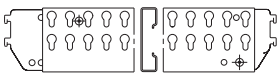
Space

optimal for low-height use



CTD

more loading volume
for curtainsiders



Box Box





Box Box





Box Box





Curtainsider Curtainsider





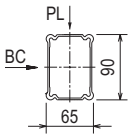
Decking beams Classic

Positive locking in the double-deck tracks.

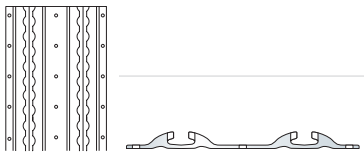
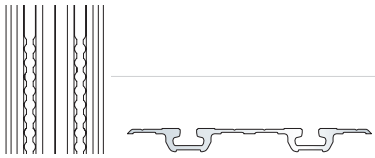
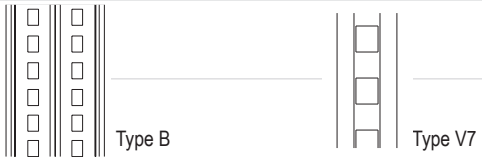


Length

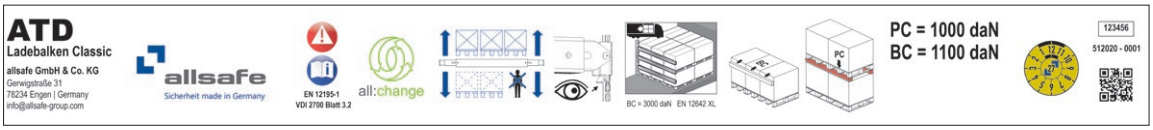
Box Box

1 - Length	2 - End pieces	3 - Product identification sticker	Order code
PL 1000 daN **BC 1100 daN** Adjustment range from min. 650 to max. 2510 mm.			512020 Decking beam Classic Internal dimension xxxx mm

End pieces

✓	2 - End pieces	3 - Product identification sticker	Order code
	symmetric		ATD-I symmetric
	asymmetric		ATD-I asymmetric
ATD-I		Compatible with Airline	
	symmetric		ATD-II symmetric
	asymmetric		ATD-II asymmetric
ATD-II		Compatible with Airline	
	Type B		Schmitz Type B
	Type V7		Schmitz Type V7
Schmitz		Compatible with Schmitz tracks	
			STD
STD		Compatible with tracks in steel swap bodies	

Product identification sticker

✓	✓	3 - Product identification sticker	Order code
			
Customized product label with your logo			Custom sticker
Product label			allsafe sticker

Sample order code

Decking beam Classic	–	2000	–	ATD-I asymmetric	–	allsafe-sticker

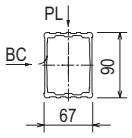
Decking beams Heavy-duty

For heaviest loads in double-deck loadings.

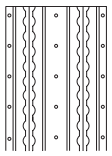
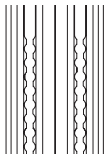
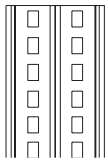
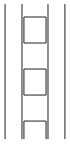


Length

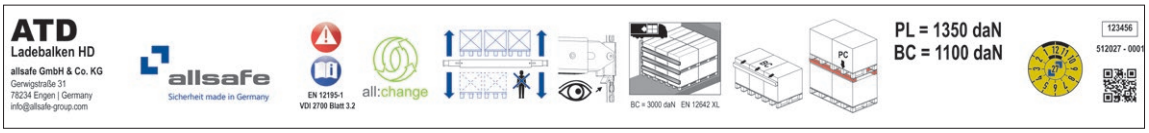
Box Box

1 - Length	2 - End pieces	3 - Product identification sticker	Order code
PL 1350 daN **BC 1100 daN** Adjustment range from min. 650 to max. 2510 mm.			512027 Decking beam Heavy-duty Internal dimension xxxx mm

End pieces

✓	2 - End pieces	3 - Product identification sticker	Order code
	symmetric		ATD-I symmetric
	asymmetric		ATD-I asymmetric
ATD-I		Compatible with Airline	
	symmetric		ATD-II symmetric
	asymmetric		ATD-II asymmetric
ATD-II		Compatible with Airline	
	Type B	 Type B  Type V7	Schmitz Type B
	Type V7		Schmitz Type V7
Schmitz		Compatible with Schmitz tracks	
			STD
STD		Compatible with tracks in steel swap bodies	

Product identification sticker

✓	✓	3 - Product identification sticker	Order code
			
Customized product label with your logo			Custom sticker
Product label			allsafe sticker

Sample order code

Decking beam Heavy-duty	–	2200	–	ATD-II symmetric	–	Custom sticker

allsafe
Sicherheit made in Germany

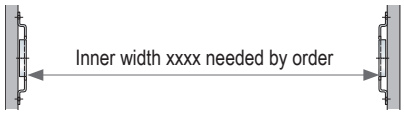
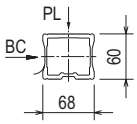
Decking beams Space

Double-deck with maximum usable hight.

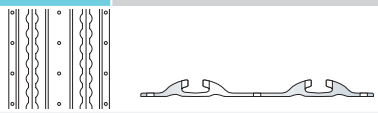
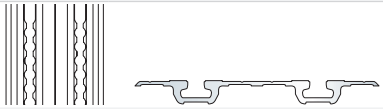
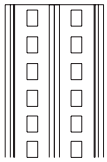
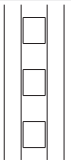
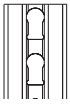


Length

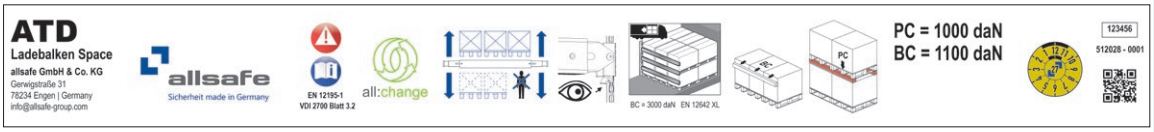
Box Box

1 - Length	2 - End pieces	3 - Product identification sticker	Order code
PL 1000 daN **BC 1100 daN** Adjustment lengths from min. 650 to max. 2510 mm. Inner width xxxx needed by order			512028 Decking beam Space Internal dimension xxxx mm

End pieces

✓	2 - End pieces	3 - Product identification sticker	Order code
	asymmetric		
ATD-I		Compatible with Airline	ATD-I asymmetric
			
ATD-II		Compatible with Airline	ATD-II asymmetric
	Type B	 Type B  Type V7	Schmitz Type B
	Type V7		Schmitz Type V7
Schmitz		Compatible with Schmitz tracks	
			
STD		Compatible with tracks in steel swap bodies	STD

Product identification sticker

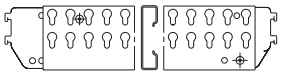
✓	✓	3 - Product identification sticker	Order code
			
Customized product label with your logo			Custom sticker
Product label			allsafe sticker

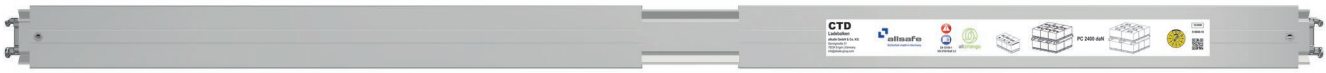
Sample order code

Decking beam Space	–	1800	–	ATD-II asymmetric	–	allsafe sticker

Decking beams CTD

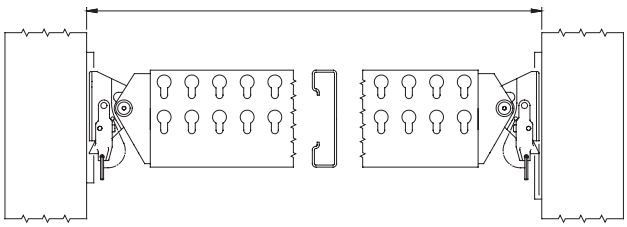
Positive locking in the curtainsider.





The max. loading capacity of this decking beam depends on the length of the side beams (x dimension).

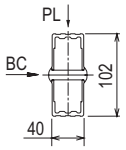
„X“ Inner width / tolerance ± 1mm



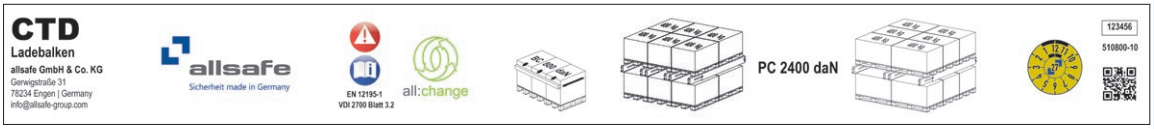
Length CTD-side beam	Decking beam load capacity
X = 0 – 2499 mm	PL 400 kg
X = 2500 mm – 2999 mm	PL 300 kg
X = 3000 mm – 3500 mm	PL 200 kg

Load capacity PL



1 - Load capacity	2 - Product identification sticker	Order code
BC 800 daN Adjustment range from 2210 to 2530 mm.		Internal dimension xxxx mm
PL 400 kg per Europallet space		510800-10
PL 300 kg per Europallet space		510800-11
PL 200 kg per Europallet space		510800-12

Product identification sticker

✓	2 - Product identification sticker	Order code
		
Customized product label with your logo		Custom sticker
Product label		allsafe sticker

Sample order code

510800-10	–	allsafe sticker

allsafe
Sicherheit made in Germany

KERL

used as

Lashing point

always in the right spot

page 50-51



used as

Holder

the icing on the cake for every system

page 52-53



Modular fittings

used as

Screw fitting

installed fast & safely

page 56

for

Special applications

the specialists

page 53-55, 57-59





allsafe
Sicherheit made in Germany

KERL



KERL
used as lashing point

- shape and load capacity according to standards ▸ official lashing point
- different load capacities ▸ suitable for many applications
- 100% made in Germany ▸ best quality, high safety level



KERL
used as holder

- standard dimensions ▸ flexible usability
- for keyhole tracks ▸ compatible with AJS and CTD
- for Airline tracks ▸ compatible with ATD and CRS



KERL
used as screw fitting

- high-strength material ▸ high load capacity
- star-shaped knob ▸ can be used without tools
- universal interface ▸ basis for individual solutions



KERL
for special applications

- adjustable in two and three dimensions ▸ load capacity always in the right direction
- lockable versions available ▸ prevents unauthorized operation
- permanent installation or removable ▸ depending on application

Curtainsider





Curtainsider

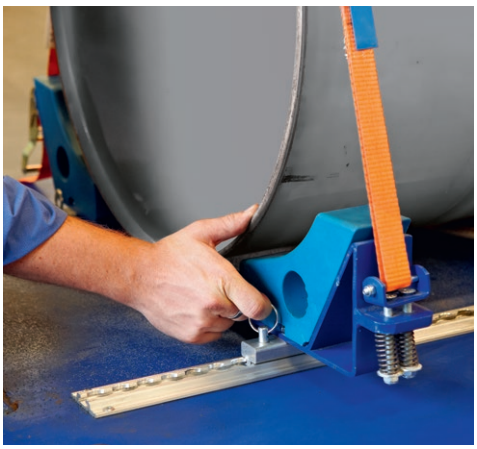


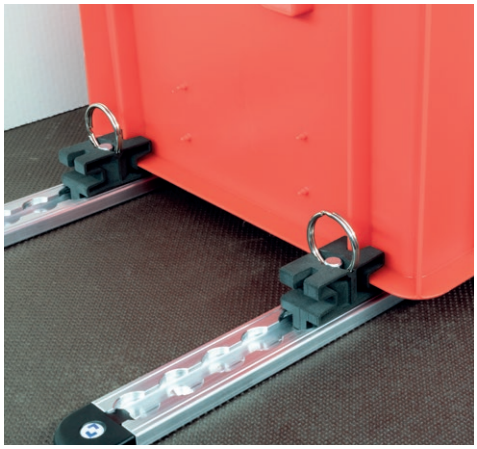






Box

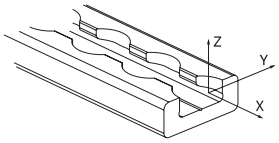




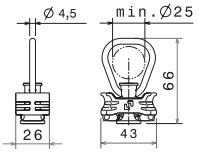
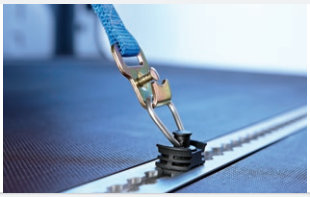
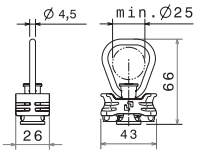
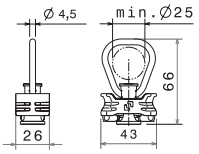
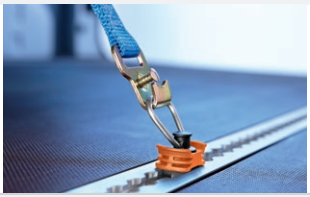
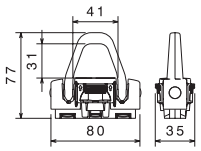
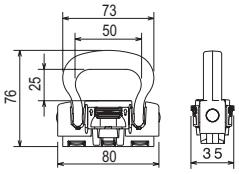
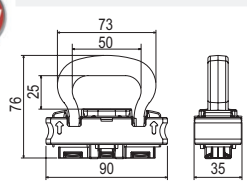
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KERL · Lashing points for Airline tracks

KERL 500, 1000 and 2000 provide lashing points in combination with Airline tracks with a Ø 20 mm, 25 mm or 25.4 mm pitch. Thread straps through it or use appropriate hooks.



KERL used as lashing point for Airline tracks

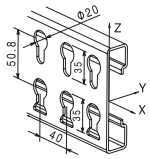
				Order code
KERL 500 slide: slideable in track	**KERL 500**		steel zinc-plated, plastic	310275
	KERL 500 V2A	Stainless!	stainless steel, plastic	310280
	KERL 500 slide	non-removable	steel zinc-plated, plastic	310289
			Ø 25 mm opening Load capacity: ** 500 daN in compliance with ISO 27956	Set of - 0012 pcs. - 0040 pcs. - 0080 pcs.
	KERL 500 black		steel black, plastic	310285
			Ø 25 mm opening Load capacity: ** 500 daN in compliance with ISO 27956	Set of - 0012 pcs. - 0040 pcs. - 0080 pcs.
KERL 500 slide: slideable in track	**KERL 500 orange**		steel zinc-plated, plastic	511296
	KERL 500 orange V2A	Stainless!	stainless steel, plastic	312057
			Ø 25 mm opening Load capacity: ** 500 daN in compliance with ISO 27956	Set of - 0012 pcs. - 0040 pcs. - 0080 pcs.
	KERL 1000		steel zinc-plated, plastic	511228
			Ø 25 mm opening Load capacity: ** 1000 daN in compliance with EN 12640	Set of - 0004 pcs. - 0012 pcs. - 0040 pcs.
	KERL 2000		steel zinc-plated, plastic	511227
			Ø 25 x 50 mm opening Load capacity: ** 2000 daN in compliance with EN 12640	Set of - 0004 pcs. - 0012 pcs. - 0040 pcs.
NEW!	**KERL 2000 Corner**		steel zinc-plated, plastic	512360
			Ø 25 x 50 mm opening Load capacity: ** 2000 daN in compliance with EN 12640	Set of - 0004 pcs. - 0012 pcs. - 0040 pcs.

*** maximum value for the fitting. Usable capacity depending on type of track used and type of fixation.*

Sample order code

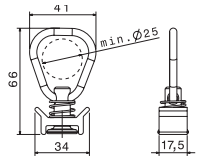
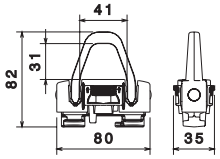
511228	-	0040

KERL · Lashing points for AJS and CTD keyhole

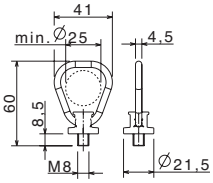
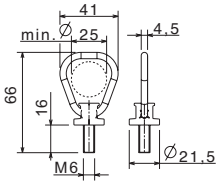


KERL AJS 1000 provide lashing points in combination with AJS and CTD keyhole tracks.
Thread straps through it or use appropriate hooks.

KERL as lashing point for keyhole tracks

				Order code
	**KERL AJS 300** 		steel zinc-plated, aluminium for hooks (Ø 25 mm) also suitable for Airline tracks Load capacity: 300 daN in compliance with ISO 27956	511275 Set of - 0012 pcs. - 0040 pcs. - 0080 pcs.
	**KERL AJS 1000** 		steel zinc-plated, plastic for hooks (Ø 25 mm) Load capacity: ** 1000 daN in compliance with EN 12640	511242 Set of - 0004 pcs. - 0012 pcs. - 0040 pcs.

KERL as a lashing point for wooden floors and threaded inserts

				Order code
	**KERL 350 M8** 		steel zinc-plated, plastic Ø 25 mm opening Load capacity: 350 daN in compliance with ISO 27956	310282 Set of - 0012 pcs. - 0040 pcs. - 0080 pcs.
	**KERL 300 M6** 		steel zinc-plated, plastic Ø 25 mm opening Load capacity: 300 daN in compliance with ISO 27956	312033 Set of - 0012 pcs. - 0040 pcs. - 0080 pcs.

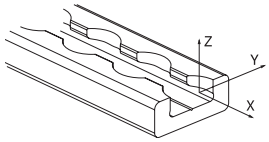
*** maximum value for the fitting. Usable capacity depending on type of track used and type of fixation.*

Sample order code

511242	-	0040

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Holder for Airline tracks

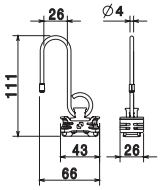


KERL universal holder

			Order code
KERL Butler		steel zinc-plated, plastic	310287
KERL Butler slide	non-removable	steel zinc-plated, plastic	310290

KERL Butler slide: slidable in track







Load capacity:
50 daN

Set of
- 0012 pcs.
- 0040 pcs.
- 0080 pcs.

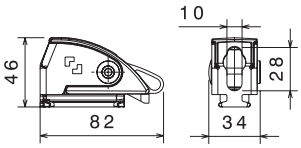
KERL TD light slide

KERL TD light is the perfect match between airline track and upper load floor. Easy to adjust without tools!

For double deck loading in LCV

			Order code
KERL TD light slide		metal, plastic	511356





KERL TD light for double-decking in smaller vehicles



for use with 13 Ø / 8Ø mm mushroom bolts.

Load capacity: **
X: 150 daN

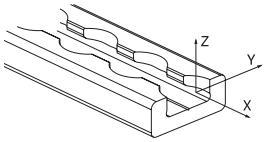
Set of
- 0004 pcs.
- 0012 pcs.
- 0040 pcs.

Sample order code

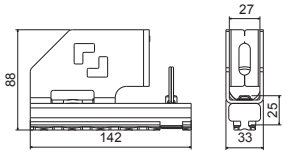
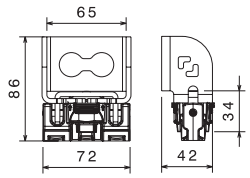
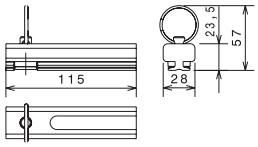
511356	-	0012

Holder for Airline tracks

KERL 25 accommodates all standard 25 mm thick slats made of wood, aluminum or steel and can be used with all Airline tracks with Ø 20 mm holes, Ø 25 mm holes or a one inch pitch.

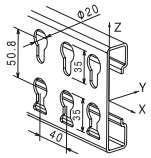


KERL used as holder for slats, square timbre and keyhole fittings

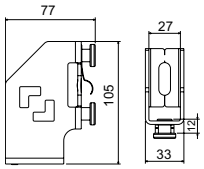
				Order code
	**KERL 25** 		aluminium, steel zinc-plated Load capacity: ** X: 1000 daN Y: 400 daN	512200 Set of - 0004 pcs. - 0012 pcs. - 0040 pcs.
	**KERL 65** 		steel zinc-plated, plastic Load capacity: ** 800 daN with aluminium profile	511230 Set of - 0004 pcs. - 0012 pcs. - 0040 pcs.
	Aluminium profile for KERL 65			521615
	**KERL Airline AJS slide** 		aluminium, steel zinc-plated for KAT, AJS or CTD loading beams	511629 Set of - 0004 pcs. - 0012 pcs. - 0040 pcs.

Holder for AJS and CTD keyhole

KERL AJS 25 accommodates all standard 25 mm thick slats made of wood, aluminum or steel and is compatible with all AJS and CTD keyhole tracks.



Holder for slats

				Order code
	**KERL AJS 25** 		steel zinc-plated for AJS lashing profiles or CTD pillars Load capacity: ** Y: 400 daN Z: 1000 daN	512191 Set of - 0004 pcs. - 0012 pcs. - 0040 pcs.

*** maximum value for the fitting. Usable capacity depending on type of track used and type of fixation.*

Sample order code

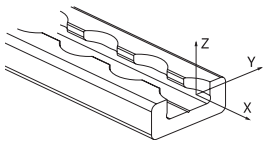
511230	-	0012

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Sicherheit made in Germany

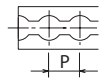
KERL universal

For seat attachment and with individual length. Can be certified as per M1.

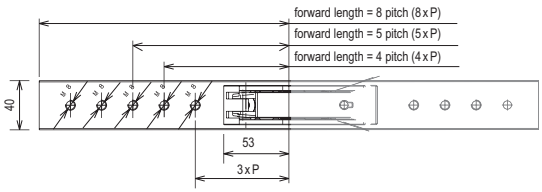




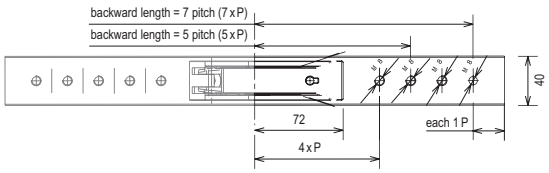
Pitch

1 - Pitch	2 - Forward length	3 - Backward length	4 - Lockable	Order Code
For allsafe Airline tracks Standard and Heavy-duty				511655 KERL universal
P = 25 mm (metric)			 z.B.: P = 25 mm	P = 25 mm
P = 25,4 mm (inch)				P = 25,4 mm (1")

Forward length

✓	2 - Forward length	3 - Backward length	4 - Lockable	Order Code
				
min. 4 pitch (1 thread M8)	max. 8 pitch (5 threads M8)			Lv xP

Backward length

✓	✓	3 - Backward length	4 - Lockable	Order Code
				
min. 4 pitch (0 thread M8)	max. 8 pitch (4 threads M8)			Lh xP

Lockable

✓	✓	✓	4 - Lockable	Order Code
			 key 521190-20	
Lockable yes / no				Not lockable
If lockable, please order required number of keys 521190-20 separately				Lockable

Example Order Code

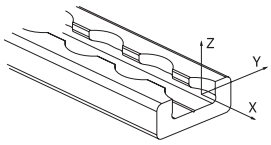
511655	-	P – 25	-	Lv – 6	-	Lh – 4	-	lockable

Your advantages:

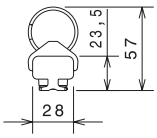
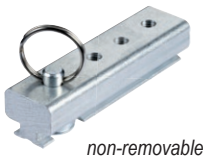
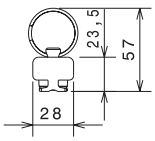
- light-weight and safe
- rattle free fixation
- individual length

KERL universal light

Proven design can now be configured to your specific needs: Select number of studs and 25,0 mm or 25,4 mm pitch.
As an additional option, choose the undetachable (non-removable) and theft-proof fixing version.
Pitch, number of threads and mounting holes can be defined by yourself!



KERL light

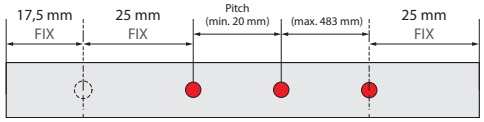
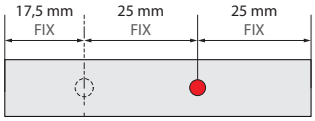
 removable		 non-removable		aluminium Lashing capacity: ** X: 1000 daN	512219

*** maximum value for the fitting. Usable capacity depending on type of track used and type of fixation.*

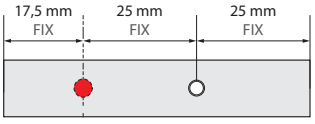
Pitch

1 - Pitch	2 - Mounting holes	3 - Locking device	Order code
Please specify pitch		 z.B.: P = 25 mm	
P = 25 mm			P = 25 mm
P = 25,4 mm (inch)			P = 25,4 mm (1")
Non-removable			non-removable

Number of Mounting holes

✓	2 - Mounting holes	3 - Locking device	Order code
Please select number of mounting holes. This defines the length of your KERL			
> 0			3
	Example: Shortest KERL version with 1mounting hole 		
Please select thread diameter			
M 6			M 6
M 8			M 8

Locking device

✓	✓	3 - Locking device	Order code
Do you want the stud to be equipped with a locking device?			
 Steel	Position of locking device 		yes no

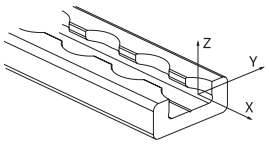
Sample order code

512219	-	25	-	3	-	M6	-	Locking device / yes	

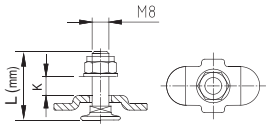
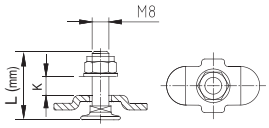
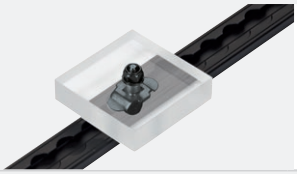
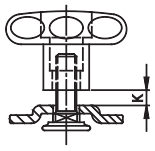
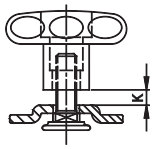
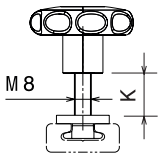
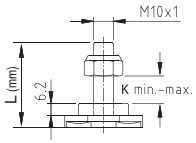
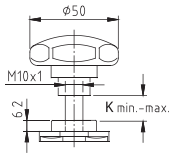
allsafe Sicherheit made in Germany

KERL · Screw fitting for Airline tracks

Screw fittings for a strong connection of components and attachments to Ø 20 mm Airline track with a 25 mm or 25.4 mm pitch.



KERL with threaded bolt

				Order code
	**KERL M8 x 6 | x 10 | x 20 | x 30*** 		steel zinc-plated M8 thread Load capacity: ** X: 200 daN Y: 200 daN Z: 1000 daN	310002 - -19 | M8x6* | L 24 | K 0-6 -20 | M8x10* | L 30 | K 0-10 -21 | M8x20* | L 40 | K 0-20 -22 | M8x30* | L 50 | K 0-30
 NEW!	**KERL M8 x 30* black** 		steel zini black M8 thread Load capacity: ** X: 200 daN Y: 200 daN Z: 1000 daN	512387 - -22 | M8x30* | K 0-30
	**KERL M8 x 4S* | x 12S* | x 22S* | x 32S*** 		steel zinc-plated, plastic M8 thread Load capacity: ** X: 200 daN Y: 200 daN Z: 1000 daN	310276 - -47 | M8x4S* | K 0-4 -48 | M8x12S* | K 0-12 -49 | M8x22S* | K 0-22 -50 | M8x32S* | K 0-32
 NEW!	**KERL M8 x 32 S black** 		steel zini, plastic M8 thread Load capacity: ** X: 200 daN Y: 200 daN Z: 1000 daN	512388- -50 | M8x32S* | K 0-32
	**KERL M8 x 20 S slide** 		steel zinc-plated M8 thread Load capacity: ** Y: 1000 daN Z: 1000 daN	511330 - -10 | M8x24S* | K 0-20
	**KERL M10 x 5 | x 12 | x 22 | x 32 | x 52*** 		steel zinc-plated M10x1 thread Load capacity: ** X: 500 daN Y: 500 daN Z: 2000 daN	510003 - -09 | M10x5* | L 23 | K 0-5 -10 | M10x12* | L 30 | K 0-12 -20 | M10x22* | L 40 | K 0-22 -30 | M10x32* | L 50 | K 0-32 -40 | M10x52* | L 70 | K 0-52
	**KERL M10 x 5S | x 12S | x 22S | x 32S | x 52S*** 		steel zinc-plated, plastic M10x1 thread Load capacity: ** X: 500 daN Y: 500 daN Z: 2000 daN	510001 - -10 | M10x5S* | K 0-5 -20 | M10x12S* | K 3-12 -30 | M10x22S* | K 13-22 -40 | M10x32S* | K 23-32 -50 | M10x52S* | K 43-52

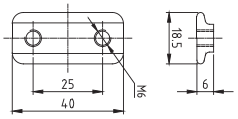
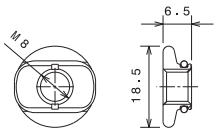
** Length specifies clamping range **K** (see drawing, showing usage with a standard track). Clamping range may vary by ± 2 mm when used with other tracks.*

*** maximum value for the fitting. Usable capacity depending on type of track used and type of fixation.*

Sample order code

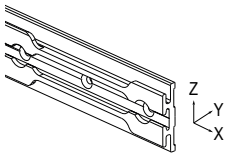
310276	-	-50	

KERL with female thread

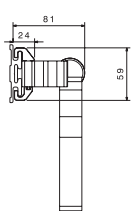
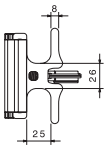
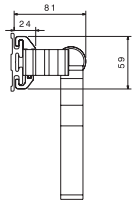
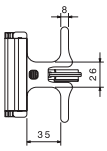
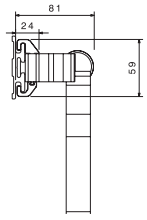
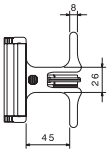
				Order code
	**KERL 2x M6** 		steel zinc-plated M6 thread Load capacity: Z: 2xM6 1000 daN Z: 1xM6 500 daN	520621 Set of - 0012 pcs. - 0040 pcs. - 0080 pcs.
	**KERL JIM M8** 		steel zinc-plated, plastic M8 thread Load capacity: Z: 500 daN	512297 Set of - 0012 pcs. - 0040 pcs. - 0080 pcs.

KERL JF snap NEW!

KERL JF snap is positioned in a form-fitting manner in the airline rail in a grid of 12.5 mm.
Suitable for JF rail (522020).



Width

1 - Width			Order code
 		for roll containers with up to 25 mm bars Load capacity: ** X: 700 daN Y: 700 daN BC according to EN 12195-1	512361-0001 KERL JF snap 25 mm removable
 		for roll containers with up to 35 mm bars Load capacity: ** X: 700 daN Y: 700 daN BC according to EN 12195-1	512361-0002 KERL JF snap 35 mm removable
 		for roll containers with up to 45 mm bars Load capacity: ** X: 700 daN Y: 700 daN BC according to EN 12195-1	512361-0003 KERL JF snap 45 mm removable



*** maximum value for the fitting. Usable capacity depending on type of track used and type of fixation.*

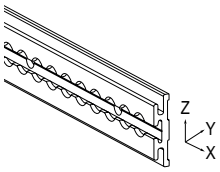
Sample order code

512361	-	-0001		

allsafe
Sicherheit made in Germany

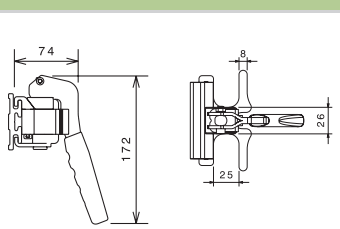
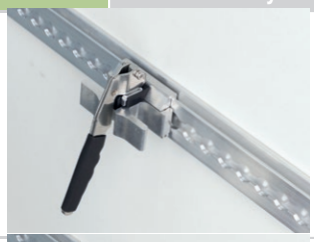
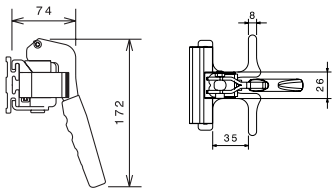
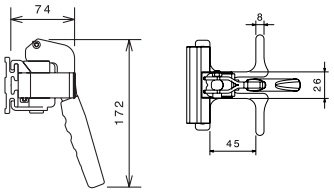
KERL JF

Load restraint for roll containers in cooling and distribution vehicles.



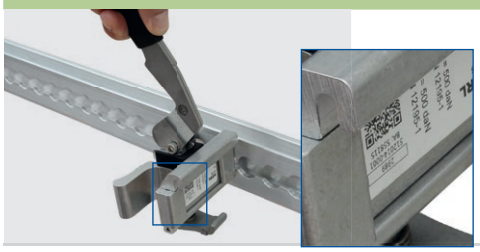
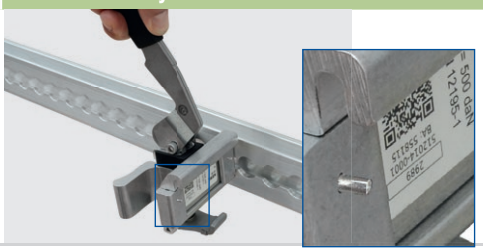


Width

1 - Width	2 - Removability	Order code
	 for roll containers with up to 25 mm bars Load capacity: ** X 500 daN Y 500 daN	512014 KERL JF 25 mm -0001 removable -0004 non-removable
	 for roll containers with up to 35 mm bars Load capacity: ** X 500 daN Y 500 daN	512014 KERL JF 35 mm -0002 removable -0005 non-removable
	 for roll containers with up to 45 mm bars Load capacity: ** X 500 daN Y 500 daN	512014 KERL JF 45 mm -0003 removable -0006 non-removable

** *maximum value for the fitting. Usable capacity depending on type of track used and type of fixation.*

Removability

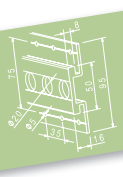
✓	2 - Removability	Order code
 **Insert and remove at any point**		Removable
	undetachable	Undetachable

Sample order code

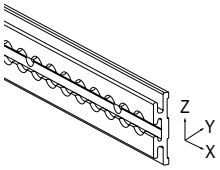
KERL JF 512014	–	35 mm	–	Removable



Also suitable for retrofit vehicles with JFS track: 512015

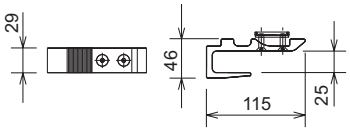
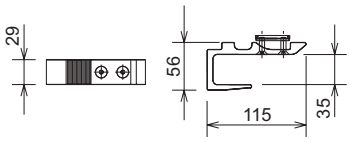
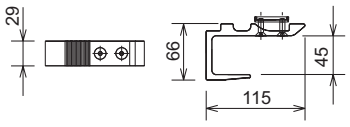


KERL JF fix



End fitting system solution for the first roll container towards the bulkhead.

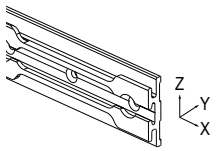
Width

1 - Width		Order code
 	for roll containers with up to 25 mm bars Load capacity: ** X: 500 daN Y: 250 daN	512017-0001 KERL JF fix 25 mm
 	for roll containers with up to 35 mm bars Load capacity: ** X: 500 daN Y: 250 daN	512017-0002 KERL JF fix 35 mm
 	for roll containers with up to 45 mm bars Load capacity: ** X: 500 daN Y: 250 daN	512017-0003 KERL JF fix 45 mm



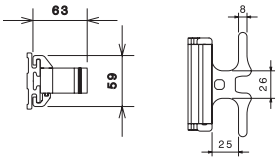
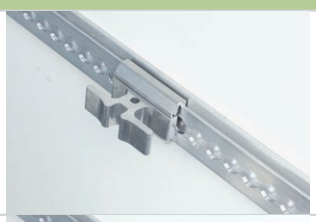
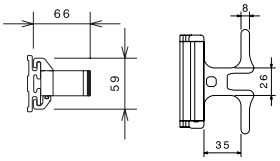
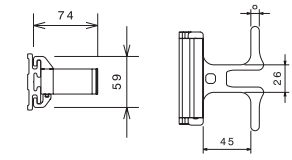
*** maximum value for the fitting. Usable capacity depending on type of track used and type of fixation.*

KERL JF slide



Middle fitting for light-weight roll containers – only in combination with KERL JF.

Width

1 - Width		Order code
 	for roll containers with up to 25 mm bars Load capacity: ** Y: 500 daN	512016-0001 KERL JF slide 25 mm
 	for roll containers with up to 35 mm bars Load capacity: ** Y: 500 daN	512016-0002 KERL JF slide 35 mm
 	for roll containers with up to 45 mm bars Load capacity: ** Y: 500 daN	512016-0003 KERL JF slide 45 mm



*** maximum value for the fitting. Usable capacity depending on type of track used and type of fixation.*

Sample order code

512016	-	-0002

allsafe
Sicherheit made in Germany

Lashings

Lashing straps

Cargo safety in all vehicles

page 62-71

Ring straps

Universal use and tough

page 72-77



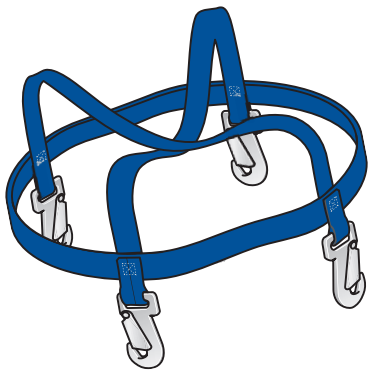


Lashing straps custom-made

Special straps

Mission Possible

page 78



Lashing straps

The right strap for your application



Transporter

Solid light-weights.

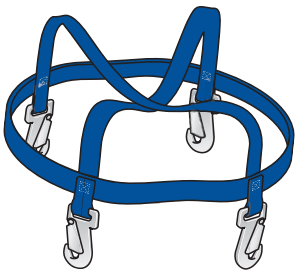
- Made in Germany ▸ developed, tested and manufactured in Engen, Germany
- freely configurable ▸ perfect for your application
- many extras available ▸ customized printing, no minimum order quantity, even with an order of 1 unit



Box

Built for tough applications. Developed for rough applications.

- in compliance with DIN EN 12195-2 ▸ maximum safety for you
- compatible with the new KERL fitting product family ▸ fits almost all vehicles
- highest pre-tensioning forces ▸ high safety with less lashing straps



Special

If it's not available, it doesn't exist.

- in-house development and manufacturing ▸ high-quality even for special products
- large selection of components ▸ endless possibilities for custom-made straps
- your strap ▸ your part number – standard at allsafe



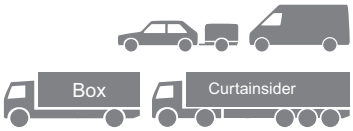

EPAL


allsafe


Box


EUR




Box
Curtainsider





Your customized lashing strap. Compose it yourself:



End fittings



Compose your end fittings to suit your needs. No matter if you use Airline tracks or lashing points we have something for all load capacities. Always with a corrosion-resistant surface. By the way: you can also configure your straps with two different end fittings.

Lock



Choose a lock from our large product range to suit your load, lashing needs, required pre-tensioning force and load capacity. If it's not available, it doesn't exist yet.

Strap appearance



Not just the technical aspects can be selected, but also the visual aspects. Select your favorite colour and we'll take care of the rest.

Strap and label printig





You'd like to have your company name and logo printed on your straps? No Problem. Customized label? We can do it. And all that with a minimum order quantity of one strap! With our standardized QR-Code and our allsafe-App you can easily proof, manage and property calculate your load.

Extras + accessories







Protection pads for the lock protects loads with fragile surfaces, protective sleeves with different properties protect the edges of your load. You select it, we make it.






EUR





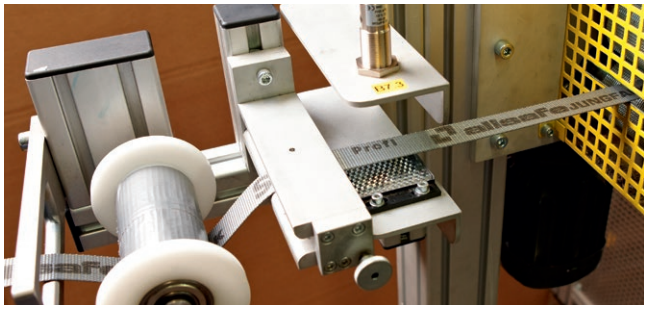




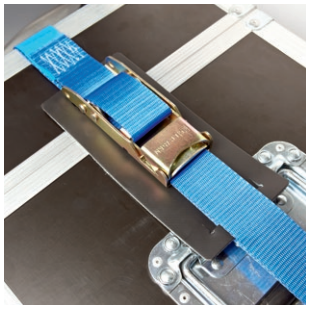


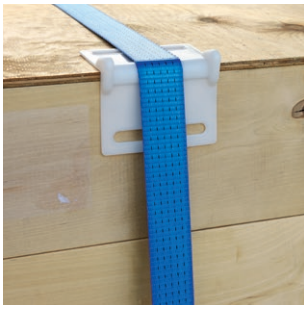








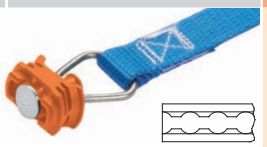
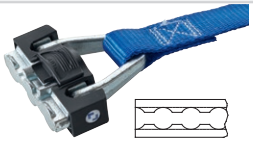




25 mm lashing straps

Ideal use in transporters and vans.

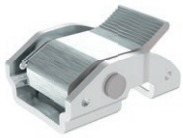
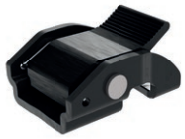
End fitting (different end fitting for loose and fixed end)

1 - End fitting	2 - Lock	3 - Colour / Length	4 - Strap printing	5 - Extras	Order code
					
LC 300 daN, L_{min}= 140 mm	LC 500 daN, L_{min}= 140 mm	LC 500 daN, L_{min}= 140 mm	LC 500 daN, L_{min}= 140 mm		
511275	Standard: 310275; stainless: 310280	310285	Standard: 511296; stainless:312057		
					
LC 1000 daN, L_{min}= 170 mm	LC 550 daN, L_{min}= 190 mm	LC 650 daN, L_{min}= 120 mm	LC 750 daN, L_{min}= 160 mm		
511228	77 034	71 049	71 038		
					
LC 750 daN, L_{min}= 130 mm	LC 1100 daN, L_{min}= 180 mm	LC 1250 daN, L_{min}= 170 mm	LC 500 daN, L_{min}= 180 mm		
with safe guard:71 026; without:71 349	71 028	71 104	75 008		
					
LC 300 daN, L_{min}= 110 mm	LC 445 daN, L_{min}= 110 mm	LC 300 daN, L_{min}= 120 mm	loop 200 mm		511263
71 412	75012 (bushing 75570)	121008	71 756		+ Item no.

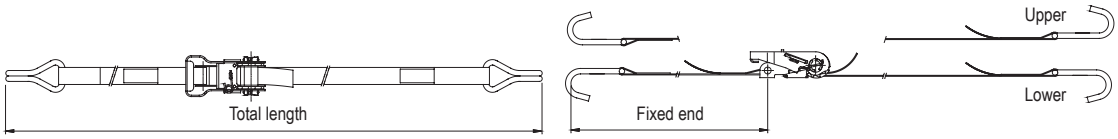
L_{min} means the minimal length of the fixed end.

Select hook position: mouth up or down

Lock

✓	2 - Lock	3 - Colour / Length	4 - Strap printing	5 - Extras	Order code
					
LC 400 daN, STF 195 daN		LC 650 daN, STF 200 daN		LC 1000 daN, STF 170 daN	
Yellow passivated: 71 234; Blue powder coated: 560 438-10		Silver passivated: 360 013-10 Yellow passivated: 77 036		71 036	
					
LC 350 daN		LC 250 daN		LC 250 daN	
71 017		512132-10		512132-20	Item no.

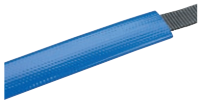
Colour / Length

✓	✓	3 - Colour / Length	4 - Strap printing	5 - Extras	Order code
					
Blue	Red	Grey	Black	Olive	Orange	Green	Colour
Not all colours are available for each lock.							
							
Total length in mm							Total length
For minimum length of fixed end: see end fitting description. Fixed lengths of 300 mm and above are no problem							Fixed end length

Strap and label printing

✓	✓	✓	4 - Strap printing	5 - Extras	Order code
 *A sample of a customized strap and label printig.*					
Your individual print on the loose end (allsafe print also available)					Strap print
No strap print					No print
Your individual print on the label					Label print

Extras

✓	✓	✓	✓	5 - Extras	Order code
					
Protective lock pad	Label protector (min. fixed end: 400 mm)	Fold-back (avoids unthreading)	Abrasion protection sleeve, blue	Abrasion protection sleeve, purple	

Sample order code

511263	–	71038	–	71234	–	Blue	–	3800	–	400	–	Strap print	–	Label protector + Fold-back
25 mm lashing		*End fitting*		*Lock*		*Colour*		*Total length*		*Fixed end length*		*Strap printing*		*Extras*

LC: Take the minimum LC of lock and end fitting to get the overall LC of your lashing strap.

Accessories

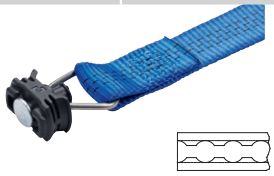
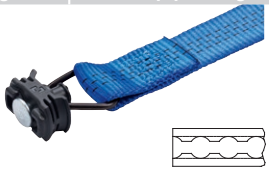
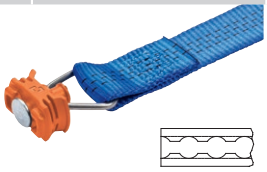
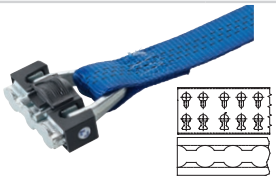
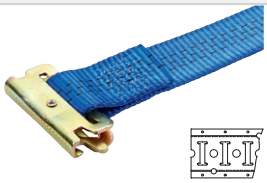
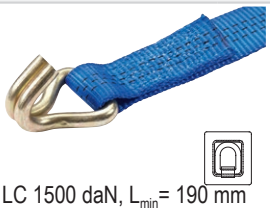
		
Non-slip mat rolls μ = 0,5 - 0,6 8 mm thick, 0.25 x 5.0 m: 560088-10 3 mm thick, 0.15 x 20.0 m: 560460-10	Non-slip mats μ = 0,5 - 0,6 approx. 100 x 200 x 8 mm 560381-10	Corner protectors 560261-10

35 mm lashing strap

Ideal use in transporters & boxes – the optimal medium size.

End fitting (different end fitting for loose and fixed end)

Box Curtainsider

1 - End fitting	2 - Lock	3 - Colour / Length	4 - Strap printing	5 - Extras	Order code
					
LC 300 daN, L_{min}= 150 mm	LC 500 daN, L_{min}= 150 mm	LC 500 daN, L_{min}= 140 mm	LC 500 daN, L_{min}= 140 mm		
511275	Standard: 310275; stainless: 310280	310285	Standard: 511296; stainless:312057		
					
LC 1000 daN, L_{min}= 160 mm	LC 2000 daN, L_{min}= 180 mm	LC 750 daN, L_{min}= 110 mm	LC 1250 daN, L_{min}= 210 mm		
AJS*: 511242; AL*: 511228	511227	71 022	71 664-10		
					
LC 1500 daN, L_{min}= 190 mm	LC 2500 daN, L_{min}= 240 mm		Schlaufe 200 mm	511265	
71 662	71 668	71 326	71 756	Item no.	

L_{min} means the minimal length of the fixed end.
** AJS: AJS- and CTD-keyhole / AL: Airline track*

Select hook position: mouth up or down

Lock

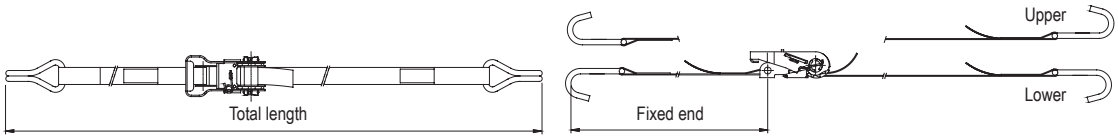
✓	2 - Lock	3 - Colour / Length	4 - Strap printing	5 - Extras	Order code
					
LC 1500 daN, STF 225 daN	LC 225 daN				
77 131	71 039				Item no.

Colour / Length

✓	✓	3 - Colour / Length	4 - Strap printing	5 - Extras	Order code



Blue	Red	Olive	Orange	Colour
Not all colours are available for each lock.				



Total length in mm	Total length
For min. length of fixed end: see end fitting description. Fixed length of 400 mm and above are no problem.	Fixed end length

Strap and label printing

✓	✓	✓	4 - Strap printing	5 - Extras	Order code



A sample of a customized strap and label printig.



Your individual print on the loose end (allsafe print also available)	Strap print
No strap print	No print
Your individual print on the label	Label print

Extras

✓	✓	✓	✓	5 - Extras	Order code



Label protector (min. fixed end: 400 mm)	Fold-back (avoids unthreading)	Abrasion protection	Abrasion protection sleeve, purple	Abrasion protection sleeve, heavy-duty

Sample order code

511265	–	71022	–	71039	–	Blue	–	3800	–	400	–	Strap print	–	Label protector
35 mm lashing strap		*End fitting*		*Lock*		*Colour*		*Total length*		*Fixed end length*		*Strap printing*		*Extras*

LC: Take the minimum LC of lock and end fitting to get the overall LC of your lashing strap.

Accessories



Non-slip mat rolls
μ = 0,5 - 0,6

8 mm thick, 0.25 x 5.0 m: 560088-10
3 mm thick, 0.15 x 20.0 m: 560460-10



Non-slip mats
μ = 0,5 - 0,6

approx. 100 x 200 x 8 mm
560381-10



Corner protectors
560261-10

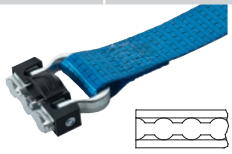
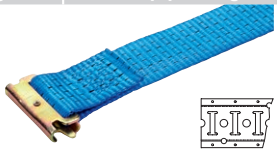
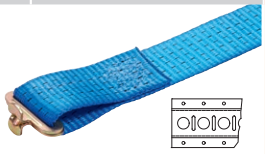
allsafe
Sicherheit made in Germany

45 / 50 mm lashing straps

Ideal use in box vans.

End fitting (different end fitting for loose and fixed end)

Curtainsider Box

1 - End fitting	2 - Lock	3 - Colour / Length	4 - Strap printing	5 - Extras	Order code
					
LC 1000 daN, L_{min} = 180 mm	LC 2000 daN, L_{min} = 200 mm	LC 750 daN, L_{min} = 130 mm	LC 600 daN, L_{min} = 130 mm		
AJS*: 511242; AL*: 511228	511227	71 022	71 021; 71 220 (400 daN)**		
					
LC 2500 daN, L_{min} = 280 mm	LC 2500 daN, L_{min} = 210 mm	LC 2500 daN, L_{min} = 220 mm	LC 2500 daN, L_{min} = 260 mm		
71 051 (turned: 71 043)	71 147	71 027	71 668		
					
LC 2500 daN, L_{min} = 290 mm	LC 1100 daN, L_{min} = 180 mm	LC 2500 daN, L_{min} = 210 mm	LC 600 daN, L_{min} = 220 mm		511266
71 074	71 047	71 062	77 201		+Item no.

L_{min} means the minimal length of the fixed end.
** AJS: AJS- and CTD-keyhole / AL: Airline track ** 71 021 = Ø 20 mm / 71 220 = Ø 25 mm*

Select hook position: mouth up or down

Lock

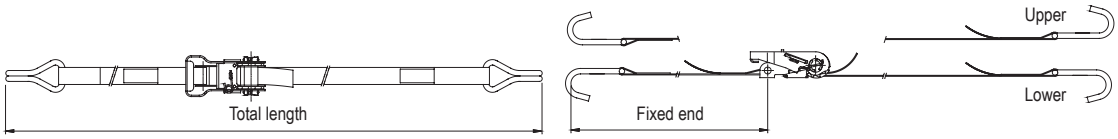
✓	2 - Lock	3 - Colour / Length	4 - Strap printing	5 - Extras	Order code
					
LC 1000 daN, STF 150 daN	LC 1650 daN, STF 165 daN	LC 2500 daN, STF 250 daN			
71 265	71 016	71 056			
					
LC 2500 daN, STF 400 daN	LC 2500 daN, STF 500 daN	LC 400 daN			
71 179	77 179	71 299			
					
LC 750 daN	LC 1150 daN	LC 500 daN			
71 014	71 300	71 010			Item no.

Colour / Length

✓	✓	3 - Colour / Length	4 - Strap printing	5 - Extras	Order code



Blue	Red	Grey	Black	Olive	Orange	Green	Colour
Not all colours are available for each lock.							



Total length in mm	Total length
For min. length of fixed end: see end fitting description. Fixed length of 500 mm and above are no problem.	Fixed end length

Strap and label printing

✓	✓	✓	4 - Strap printing	5 - Extras	Order code



A sample of a customized strap and label printig.



Your individual print on the loose end (allsafe print also available)	Strap print
No strap print	No print
Your individual print on the label	Label print

Extras

✓	✓	✓	✓	5 - Extras	Order code



Protective lock pad on lock	Label protector (min. fixed end: 500 mm)	Fold-back (avoids unthreading)	Abrasion protection sleeve yellow	Abrasion protection Heavy-duty	

Sample order code

511266	–	71047	–	71056	–	Blue	–	3800	–	500	–	Strap print	–	Label protector
45 / 50 mm lashing		*End fitting*		*Lock*		*Colour*		*Total length*		*Fixed end length*		*Strap printing*		*Extras*

LC: Take the minimum LC of lock and end fitting to get the overall LC of your lashing strap.

Accessories



Non-slip mat rolls
μ = 0,5 - 0,6

8 mm thick, 0.25 x 5.0 m: 560088-10
3 mm thick, 0.15 x 20.0 m: 560460-10



Non-slip mats
μ = 0,5 - 0,6

approx. 100 x 200 x 8 mm
560381-10



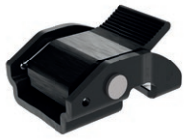
Corner protectors
560261-10

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Sicherheit made in Germany

22 / 25 mm loop strap

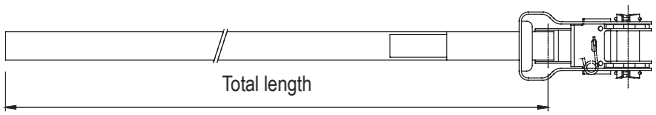
Ideal use in transporters and vans.

Lock

1 - Lock	2 - Colour / Length	3 - Strap printing	4 - Extras	Order code
				
LC 800 daN*, STF 390 daN*	LC 1300 daN*, STF 400 daN*	LC 2000 daN*, STF 340 daN*		
Yellow passivated: 71 234; Blue powder coated: 560 438-10	Silver passivated: 360 013-10 Yellow passivated: 77 036	71 036		
				511264
LC 600 daN*	LC 250 daN*	LC 250 daN*		
522406	512132-10	512132-20		+ Item no.

** Load capacity (LC) for strapping*

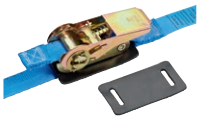
Colour / Length

✓	2 - Colour / Length	3 - Strap printing	4 - Extras	Order code
				
Blue	Red	Grey	Black	Olive	Orange	Green	
							
Yellow							Colour
Not all colours are available for each lock.							
							
Total length in mm							Total length

Strap and label printing

✓	✓	3 - Strap printing	4 - Extras	Order code
				
A sample of a customized strap and label printig.				
Your individual print on the loose end (allsafe print also available)				Strap print
No strap print				No print
Your individual print on the label				Label print

Extras

✓	✓	✓	4 - Extras	Order code
				
Protective lock pad	Label protector	Abrasion protection sleeve, blue	Abrasion protection sleeve, purple	

Sample order code

511264	–	71036	–	Blue	–	3800	–	Strap print	–	Label protector
25 mm lashing		*Lock*		*Colour*		*Total length*		*Strap printing*		*Extras*

LC: Take the minimum LC of lock and end fitting to get the overall LC of your lashing strap.

Accessories

		
Non-slip mat rolls μ = 0,5 - 0,6 8 mm thick, 0.25 x 5.0 m: 560088-10 3 mm thick, 0.15 x 20.0 m: 560460-10	Non-slip mats μ = 0,5 - 0,6 approx. 100 x 200 x 8 mm 560381-10	Corner protectors 560261-10

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Sicherheit made in Germany

35 mm loop strap

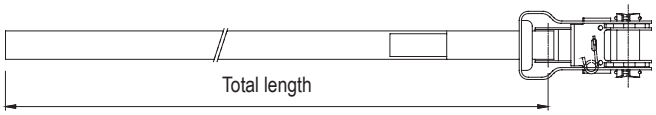
The ideal intermediate size – now also for loop straps.

Lock

1 - Lock	2 - Colour / Length	3 - Strap printing	4 - Extras	Order code
				
LC 3000 daN*, STF 450 daN*	LC 450 daN*			511387
77 131	71 039			+ Item no.

** Load capacity (LC) for strapping*

Colour / Length

✓	2 - Colour / Length	3 - Strap printing	4 - Extras	Order code
 Blue	 Red	 Olive	 Orange	Colour
Not all colours are available for each lock.				
				
Total length in mm				Total length

Strap and label printing

✓	✓	3 - Strap printing	4 - Extras	Order code
 *A sample of a customized strap and label printig.*				
Your individual print on the loose end (allsafe print also available)				Strap print
No strap print				No print
Your individual print on the label				Label print

Extras

✓	✓	✓	4 - Extras	Order code
				
Protective lock pad	Label protector	Abrasion protection sleeve, purple	Abrasion protection sleeve, heavy duty	

Sample order code

512003	–	71039	–	Blue	–	3800	–	Strap print	–	Label protector
25 mm lashing		*Lock*		*Colour*		*Total length*		*Strap printing*		*Extras*

LC: Take the minimum LC of lock and end fitting to get the overall LC of your lashing strap.

Accessories

		
Non-slip mat rolls μ = 0,5 - 0,6 8 mm thick, 0.25 x 5.0 m: 560088-10 3 mm thick, 0.15 x 20.0 m: 560460-10	Non-slip mats μ = 0,5 - 0,6 approx. 100 x 200 x 8 mm 560381-10	Corner protectors 560261-10

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45 / 50 mm loop strap

The perfect size for box vans – now also for loop straps.

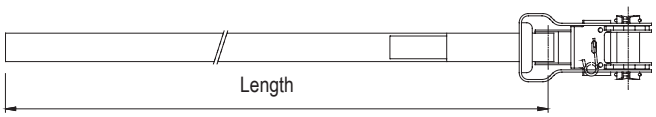
Lock

Curtainsider Box

1 - Lock	2 - Colour / Length	3 - Strap printing	4 - Extras	Order code
 LC 1000 daN, STF 150 daN 71 265	 LC 1650 daN, STF 165 daN 71 016	 LC 2500 daN, STF 250 daN 71 056		
 LC 2500 daN, STF 400 daN 71 179	 LC 2500 daN, STF 500 daN 77 179	 LC 400 daN 71 299		
 LC 750 daN 71 014	 LC 1150 daN 71 300	 LC 500 daN 71 010		
 LC 350 daN 71 303				512004 + Item no.

** Load capacity (LC) for strapping*

Colour / Length

✓	2 - Colour / Length	3 - Strap printing	4 - Extras	Order code
				
Blue	Red	Grey	Black	Olive	Orange	Green	Colour
Not all colours are available for each lock.				
				
Total length in mm				Total length

Strap and label printing

✓	✓	3 - Strap printing	4 - Extras	Order code
 *A sample of a customized strap and label printig.*				
Your individual print on the loose end (allsafe print also available)				Strap print
No strap print				No print
Your individual print on the label				Label print

Extras

✓	✓	✓	4 - Extras	Order code
				
Protective lock pad	Label protector	Abrasion protection sleeve, blue	Abrasion protection sleeve, purple	

Sample order code

512004	–	71056	–	Blue	–	3800	–	Strap print	–	Label protector
50 mm lashing		*Lock*		*Colour*		*Total length*		*Strap printing*		*Extras*

LC: Take the minimum LC of lock and end fitting to get the overall LC of your lashing strap.

Accessories

		
Non-slip mat rolls μ = 0,5 - 0,6 8 mm thick, 0.25 x 5.0 m: 560088-10 3 mm thick, 0.15 x 20.0 m: 560460-10	Non-slip mats μ = 0,5 - 0,6 approx. 100 x 200 x 8 mm 560381-10	Corner protectors 560261-10

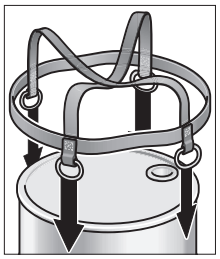
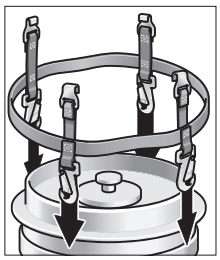
Lashing straps · Special requirements

Are you looking for a lashing strap solution for a special requirement? No problem! Talk to us – we'll make it happen. We manufacture everything in Germany, in our own factory. This allows us to offer a large selection of locks and fittings for our straps – custom-made for your specific application.

Special requirements: Challenge us!



ROLF · Load restraint system for cylindrical loads

Artikel			Order code
ROLF-Set 1		to be used for cylindrical loads: ■ 4 x round harnesses (50 mm webbing) with 4 snap hooks ■ 2 x matching ratchetbuckle straps (50 mm webbing) ■ 2 x Y-strap	511686-10 diameter max. 105 cm height max. 185 cm
ROLF-Set 2		to be used for cylindrical loads: ■ 4 x round harnesses (50 mm webbing) with rings ■ 2 x matching ratchetbuckle straps (50 mm webbing) ■ 2 x Y-strap	511686-30 diameter max. 105 cm height max. 185 cm
ROLF-Set 3		to be used for cylindrical loads with flange: ■ 4 x round harnesses (50 mm webbing) with 4 flat hooks ■ 2 x matching ratchetbuckle straps (50mm webbing) ■ 2 x Y-strap	511686-20 diameter max. 105 cm height max. 185 cm

Load restraint at the touch of a button

TransSAFE®go



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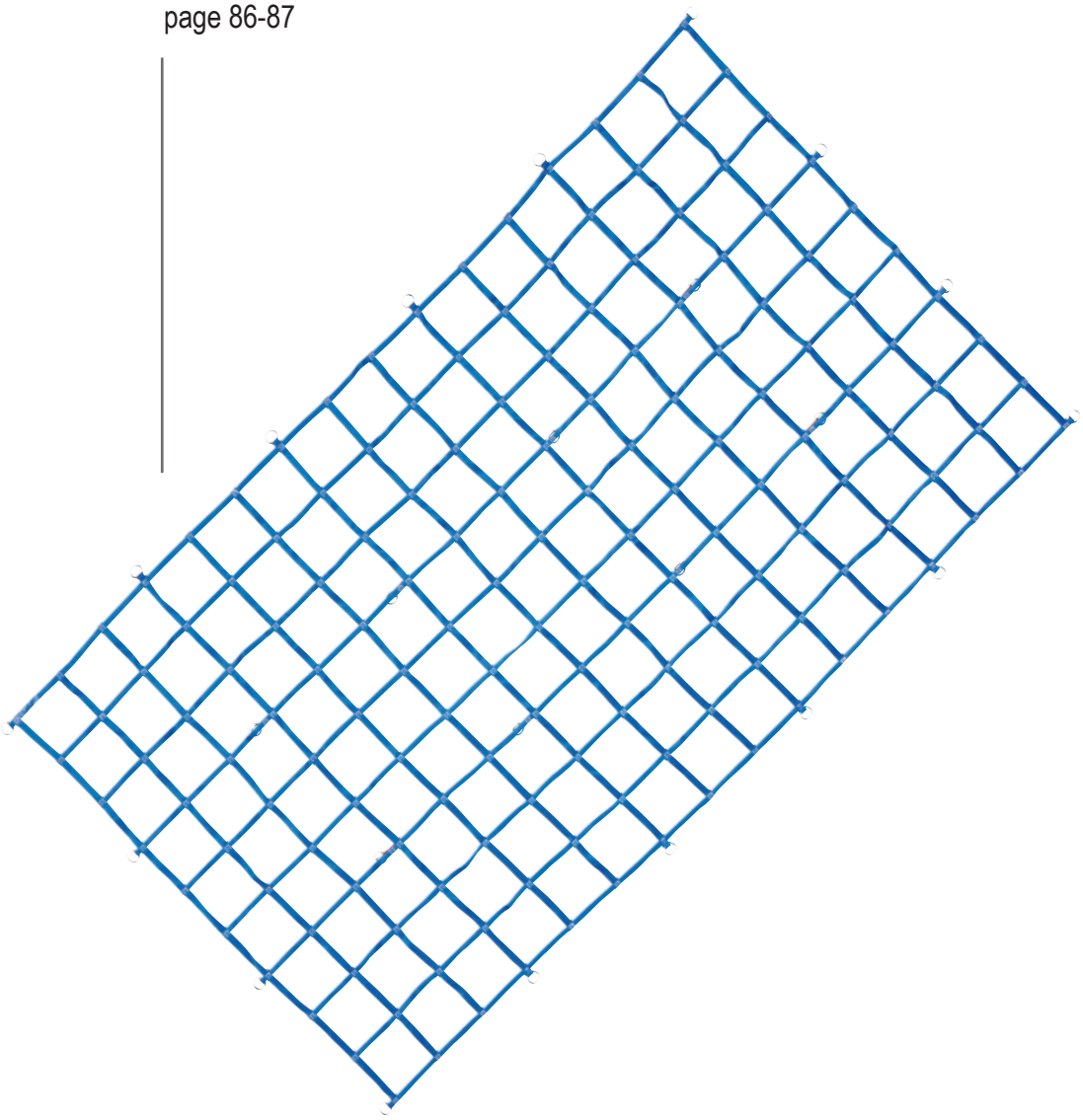
Nets

TransSAFE® net

For almost all applications

Perfect match with our lashing straps

page 86-87

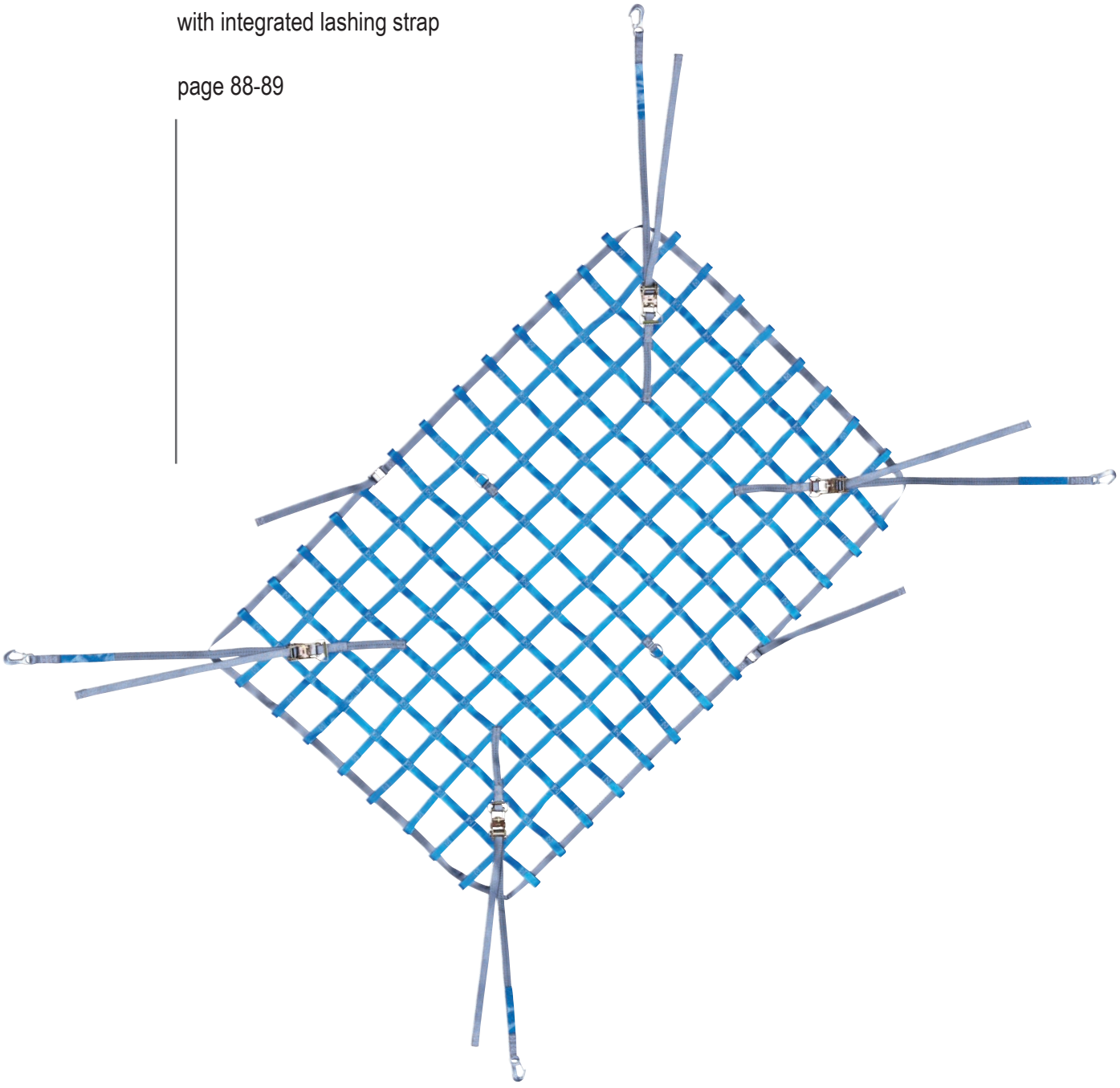


Nets custom-made

TransSAFE® net+

Creates load units
with integrated lashing strap

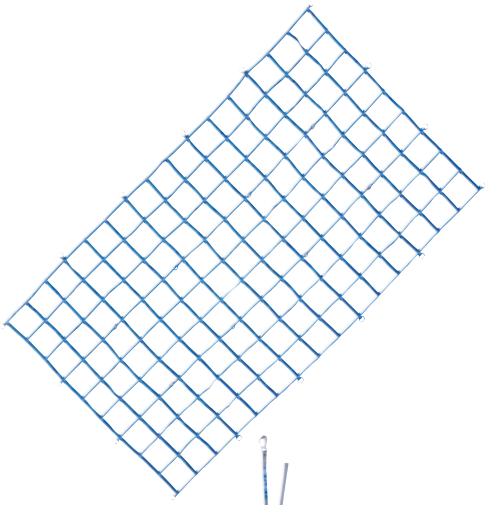
page 88-89



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Nets

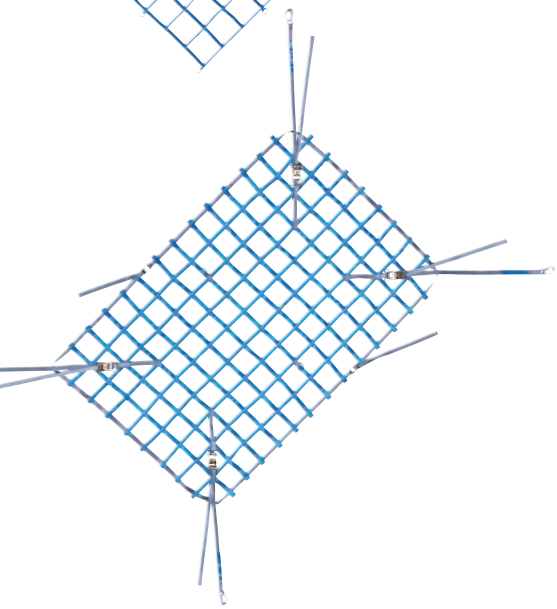
The right net for your application:



TransSAFE® net

The classic – universal and easy to handle

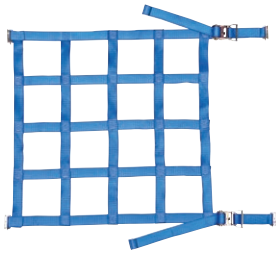
- wide selection of sizes and mesh dimensions ▸ ideal for every transportation task
- you determine net size and mesh width ▸ your made-to-order net even for an order of 1 unit
- compatible with our lashing straps ▸ configure your own system



TransSAFE® net+

Our system net with even more features

- loop strap with lock ▸ create one load unit for maximum safety
- optional lashing elements in the net ▸ combine positive locking with friction
- use of our strap fittings ▸ no minimum order quantity required



Special Nets

Individual designs thanks to in-house development and production

- customized for special applications ▸ we develop nets according to your specifications
- use of tried and tested materials ▸ highest safety even with specialty products
- in-house development and manufacturing ▸ short delivery times even for specialty products



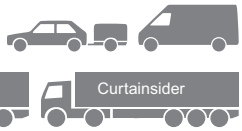





Box



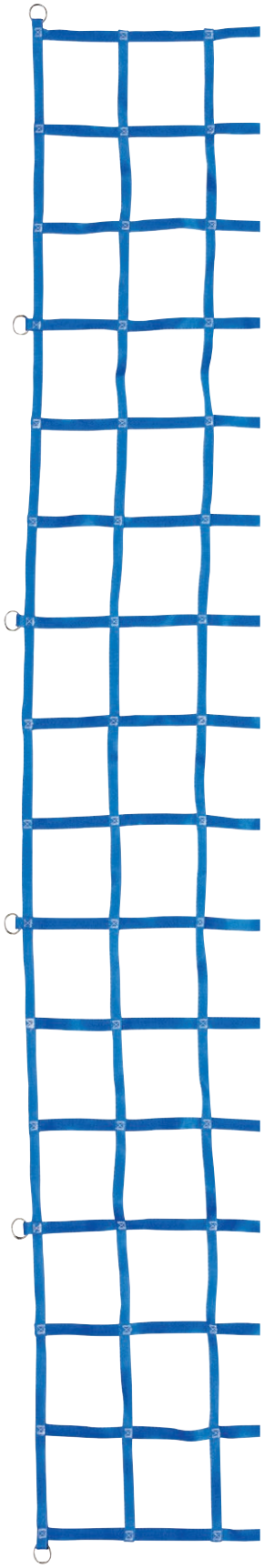



Box
Curtainsider

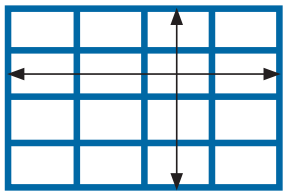




Your customized net. Compose yourself:



Net size



Whether it's for a van, a long transporter or a semi-truck - only you know how big your net shoud be. Let us know, and we'll make it for you. To determine the optimal size, you need to know the size of your load space and the height of your load. A perfectly fitted net covers your load on the sides, front and back.

Mesh width



Small boxes or large crates? Select your mesh width so that it is smaller than your smallest load to ensure that nothing will slip through. 150 to 200 mm in width and height are the most popular sizes.

Webbing + Strap printing



Not just the technical aspects can be selected, but also the visual aspects. Select your favorite colour and we'll take care of the rest.

End fitting

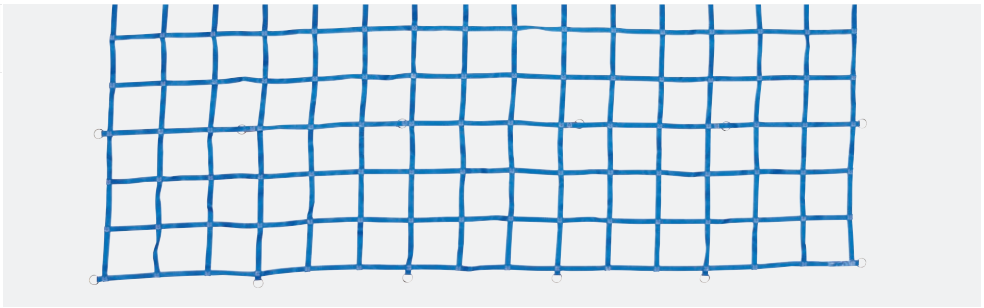


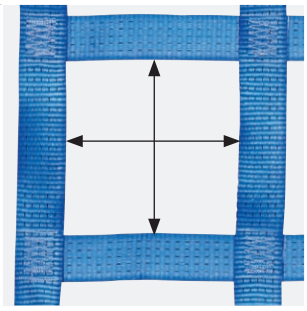
Select your end fittings to suit your needs. Whether you use Airline tracks or lashing points for all load capacities. Always with a corrosion-restraint.

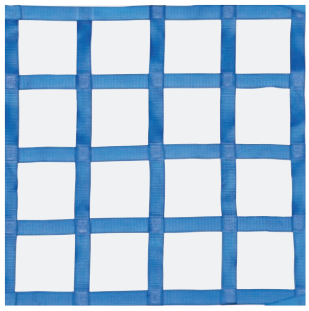
Lock

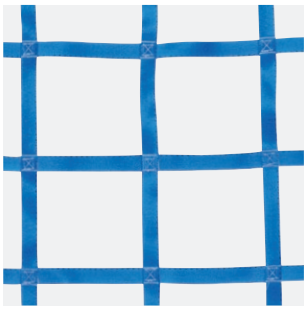


Select a lock to suit your load, lashing needs, the required pre-tensioning force and load capacity. With your TransSAFE®net+ you can even combine different locks in a single net.
If it's not available, it doesn't exist yet.



















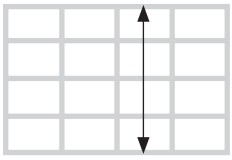
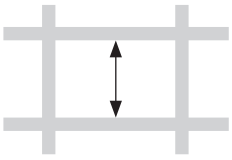


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Sicherheit made in Germany

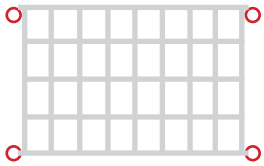
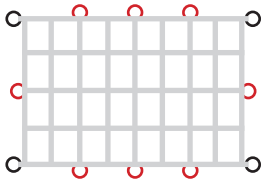
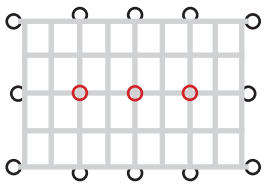
TransSAFE® net

The classic. Flexible configuration, versatile and practical.

Dimensions

1 - Dimensions	2 - Attachment	3 - Colour	Order code
	Long side in mm Please note: depending on the mesh size selected, it may not be possible to achieve exact drawing dimensions.		511260 + Long side dimensions xxxx
	**Short side in mm** Please note: depending on the mesh size selected, it may not be possible to achieve exact drawing dimensions.		Short side dimensions xxxx
	Mesh size on long side in mm A mesh size of 150-200 mm is most commonly, min. 100 mm is however possible.		Mesh size long side dimensions xxxx
	**Mesh size on short side in mm** A mesh size of 150-200 mm is most commonly, min. 100 mm is however possible.		Mesh size short side dimensions xxxx

Attachment

✓	2 - Attachment	3 - Colour	Order code
	**Steel rings in all four corners**		Standard
	**Additional steel rings on the sides** In every 2nd, 3rd or 4th position. Counted from the outside, applies to long and short sides.		Steel ring every x. position
	**Additional steel rings within the net** The rings will be sewed to the net with the same pattern as the rings on the sides (see above). 		Yes / no

Colour

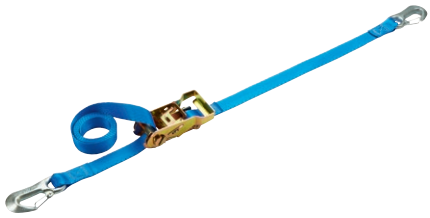
✓		✓		3 - Colour			Order code
							
Blue	Red	Grey	Black	Olive	Orange	Green	Colour

Sample order code

511260	–	4600	–	2500	–	175	–	170	–	4	–	yes	–	Olive
TransSAFE® net		*Long side*		*Short side*		*Mesh size long side*		*Mesh size short side*		*Steel ring every 4. position*		*Extra steel rings*		*Colour*

The load capacity of the net is 500 daN with a flat load.

Accessories



Adapter strap with ratchet:
511263-1075 (order 4x)



Adapter strap with clamp lock:
511263-1078 (order 4x)



Your personal adapter strap,
see page 62/63 (25 mm lashing straps)

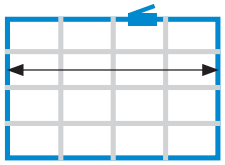
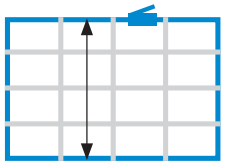
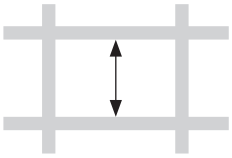
Do you know TransSAFE® go? The intelligent net that pulls back automatically under the vehicle roof when not in use? Check www.allsafe-group.com/tsg

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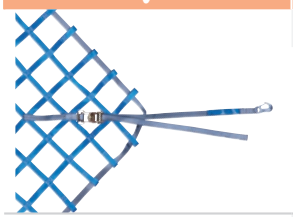
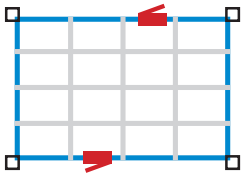
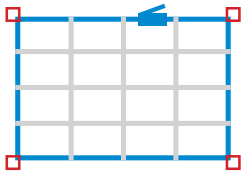
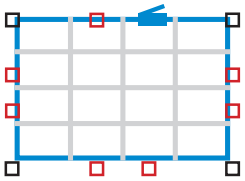
TransSAFE® net+

Compose a positive locking, load building unit with tie-down straps: The net that can do it all.

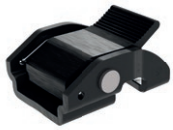
Dimensions

1 - Dimensions	2 - Attachment	3 - Colour	4 - Extras	Order code
	**Long side in mm** Please note: depending on the mesh size selected, it may not be possible to achieve the exact length and width request.			511261 + Long side dimensions xxxx
	**Short side in mm** Please note: depending on the mesh size selected, it may not be possible to achieve the exact length and width request.			Short side dimensions xxxx
	Mesh size on long side in mm A mesh size of 150-200 mm is most common a min. of 100 mm is however possible.			Mesh size long side dimensions xxxx
	**Mesh size on short side in mm** A mesh size of 150-200 mm is most common a min. of 100 mm is however possible.			Mesh size short side dimensions xxxx

Attachment

✓	2 - Attachment	3 - Colour	4 - Extras	Order code
	**4 ratchet straps sewn on the corners** For lashing down. You can choose from: Ratchet strap blue, with carabiner hook Ratchet strap grey, with carabiner hook Ratchet strap blue, with KERL 500 fitting for Airline tracks Ratchet strap gray, with KERL 500 fitting for Airline tracks			yes / no 511288-10 511288-20 511289-10 511289-20
	**Type and number of locks** Select the lock from the product range on the opposite page. For net sizes of 2500 x 1500 mm and above we recommend using a second lock as shown on the left.			Lock part no. xxx from page 93 Number of locks (1 or 2)
	**Fitting for corners** (Only possible in combinations where no sewn ratchet straps on the corners have been selected) Select the fittings from the product range on the opposite page.			Fitting part no. xxx from page 93
	**Additional fittings on the sides** (Only possible in combination with fittings on the corners) In every 2nd, 3rd or 4th position. Counted from the outside, applies to long and short sides.			End fitting product no. xxx from page 93 every x. position (select 0 if not required)

Lock for the loop strap

✓	2 - Attachment	3 - Colour	4 - Extras	Order code
				
LC 400 daN*	LC 1000 daN*	LC 250 daN	LC 250 daN	
71 234	71 036	512132-10	512132-20	Item no.

Fittings for corners and sides

✓	2 - Attachment	3 - Colour	4 - Extras	Order code
				
LC 750 daN*	LC 300 daN*	LC 500 daN*		
71 026	511275	310 275		
				
LC 1100 daN*	LC 1250 daN*			
71 028	71 104			Item no.

* *The information refers to the load capacity of the entire net with flat load. The minimum LC of lock and end fitting gives you the LC of the net.*

Colour

✓	✓	3 - Colour	4 - Extras	Order code
				
Blue	Red	Grey	Black	Olive	Orange	Green	Colour

Extras

✓	✓	✓	4 - Extras	Order code
	**Strap and label printing**	Customized strap print (allsafe print also available)		Strap print
	- For the loop strap	No strap print		No print
		Individual print on the label		Label print

Note: around the net fastenings the wording is covered by the stitching. We recommend using short words.

Sample order code

511261	-	1100	-	900	-	175	-	170	-	yes	-	2 x 71234	-	Olive/red	-	No print
TransSAFE®net+		*Long side*		*Short side*		*Mesh size long side*		*Mesh size short side*		*4 ratchet straps sewn on the corners*		*Fitting*		*Colour*		*Without printing*

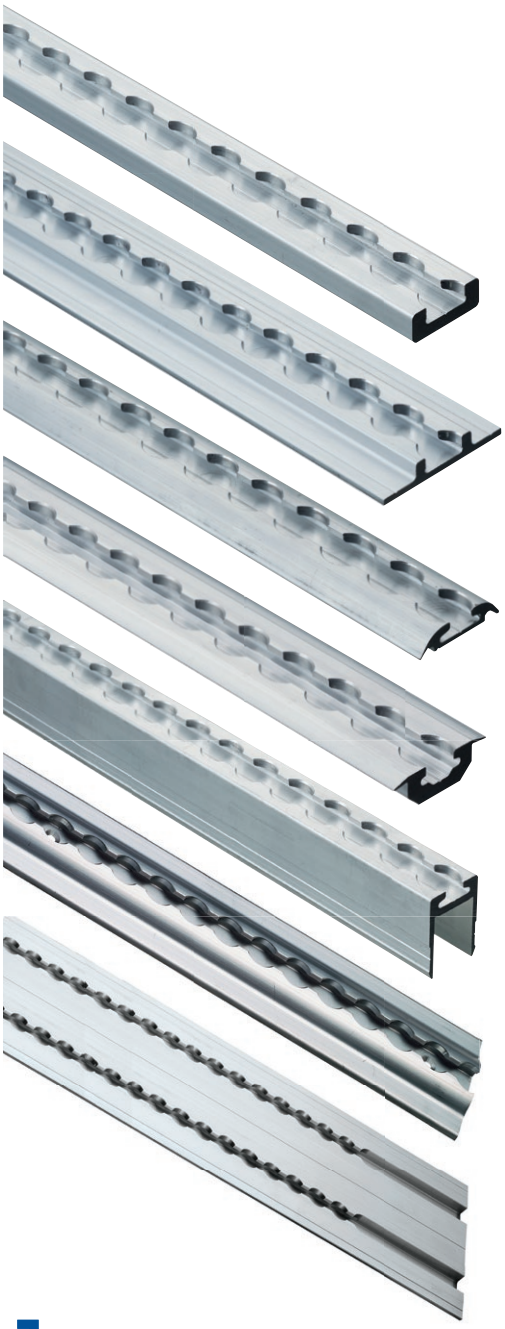
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Tracks

Airline tracks

the right tracks for all requirements

page 92-109



Pin tracks

for box-sidewalls

page 110-115

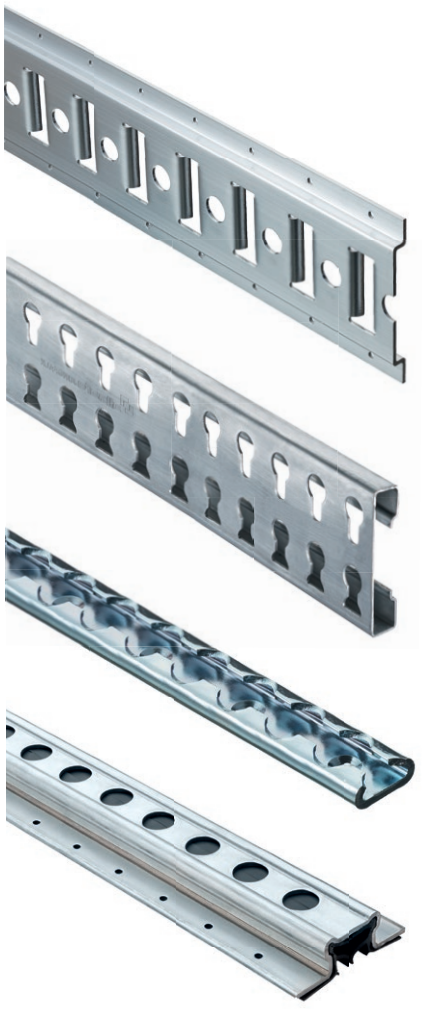


Products custom-made

Combi tracks

for sidewalls and
slats

page 116-119



Lashing points

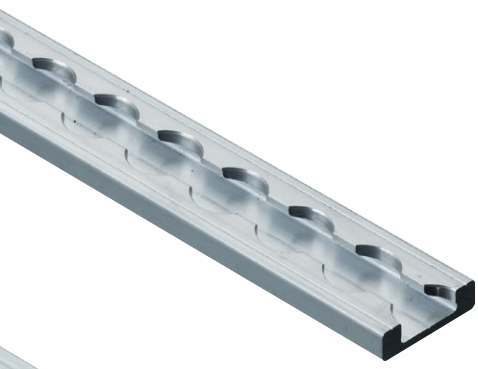
for vehicle floors and
headboards

page 120-123



allsafe
Sicherheit made in Germany

Airline tracks



Light
flexibel usage

- optimal dimensions ▸ suitable for all our needs
- slim wall thickness ▸ for flexible fitting contours
- intelligent design ▸ with optimum load capacity



Standard
resilient and light

- high-strength aluminum ▸ low-weight – very high lashing capacity
- large variety of profiles ▸ right solution for all your needs
- flexibel accessories ▸ individual and very practical



Heavy-duty
high-strength

- special alloy ▸ for maximum strength
- pitch can either be 25 mm or one inch ▸ variabel for every application
- certified components ▸ safety guaranteed



Special
custom shapes

- individual shapes ▸ custom-made for your individual needs
- appropriate lashing capacity ▸ guaranteed to be safe and easy
- precise engineering ▸ driven by customer demand








Box
Box

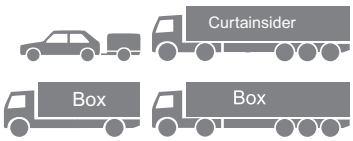





Box
Box






Curtainsider
Box
Box




HONOLD

Your customized Airline track. Compose it yourself:



Total length

Compose your ready-to-install Airline track. We manufacture the tracks to any length required.

Mounting holes and starting point



Design the tracks with the appropriate mounting holes and the pitch required. The pitch of the mounting holes depend on the required load, direction of force and vehicle construction.
The diameter and number of mounting holes should be determined by testing.

Shape of the ends



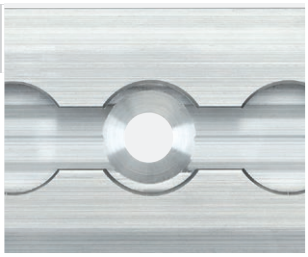
Design the end of the track to fit the interior of the vehicle.

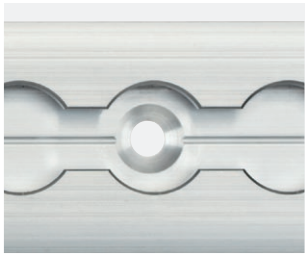
Load capacity

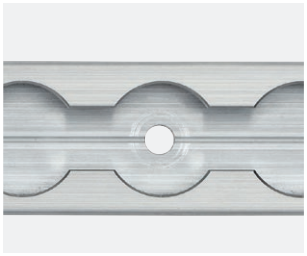
The Airline tracks can be qualified as lashing points in combination with KERLs comply with ISO 27955 (passenger vehicle), ISO 27956 (light commercial vehicle), DIN 75410-1 or EN 12640 (Intermodal loadung units and commercial vehicles) by body builders.
The maximum load capacities shown opposite can only be achieved under the following conditions:

- adequate load distribution into the vehicle structure
- mounting pitch max. 75 / 76,2 mm with the exception of Airline steel (which needs to be 50 mm), Special Airline rave track (300 mm), Special Airline track 24 mm floor (500 mm), or sufficient adhesion.
- **Light Airline tracks** must be mounted with M5 screws (quality 10.9)
- **Standard, Special Airline tracks** and **HD** must be mounted with M6 screws (quality 10.9)
- **Special Airline track outer frame** with M10 screw, property class 8.8









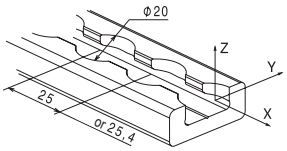






	Ultra light Airline track*		Light Airline track		Standard Airline track, HD, Special**	
Standard	**KERL 500**	**KERL 1000**	**KERL 500**	**KERL 1000**	**KERL 500**	**KERL 1000**
ISO 27955	200 daN	250 daN	350 daN	350 daN	350 daN	
ISO 27956	200 daN	250 daN	400 daN	500 daN	500 daN	800 daN
EN 12640	200 daN	250 daN	400 daN	400 daN	400 daN	1000 daN

	Ultra light Airline track*		Light Airline track		Standard Airline track, HD, Special**	
Standard	**KERL M8**	**KERL M10**	**KERL M8**	**KERL M10**	**KERL M8**	**KERL M10**
X	200 daN	400 daN	200 daN	500 daN	200 daN	500 daN
Y	200 daN	400 daN	200 daN	500 daN	200 daN	500 daN
Z	200 daN	400 daN	500 daN	800 daN	1000 daN	2000 daN



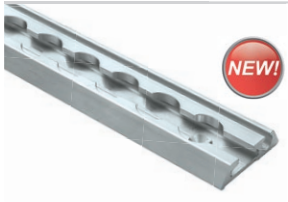
	Ultra light Airline track*		Airline track 320357, 320646, 322138, 520224, 520266, 521476, 522020, 71206, 71207, 71209, 71224	Airline track 520223, 521453, 522566, 71223
Standard			**KERL 2000**	**KERL 2000**
ISO 27956	–	–	800 daN	800 daN
EN 12640	–	–	1000 daN	2000 daN ***

** Load capacity according to ISO 27955, ISO 27956 and EN 12640*
*** except Ultra light 522914, light LED 522477, Lashing profile 71203*
**** only 520223, 521453, 522566 and 71223 mounted with an M8 screw*

Light Airline tracks

Made of aluminum – For mounting on wall / floor or recessed.

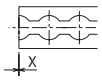
Profile and length without end caps

1 - Profile / Length*	2 - Starting dimension	3 - Mounting holes	4 - Ends	5 - End caps / Track cover	Order code
	**Light Airline tracks, rectangular**			Weight: 0.55 kg/m	71226 Light rectangular Length * xxxx mm (100 - 6000 mm)
	**Light Airline tracks, slim**			Weight: 0.46 kg/m	320643 Light slim Length * xxxx mm (100 - 6000 mm)
	**Light Airline tracks, flange**			Weight: 0.68 kg/m	520609 Light flange Length * xxxx mm (100 - 6000 mm)
	**Light Airline tracks, semicircular**			Weight: 0.53 kg/m	520624 Light semicircular Length * xxxx mm (100 - 6000 mm)
	**Light Airline tracks, recessed**			Weight: 0.69 kg/m	520623 Light recessed Length * xxxx mm (100 - 6000 mm)
	**Light Airline tracks, 10 mm floor**			Weight: 0,65 kg/m	521692 Light 10 mm floor Length xxxx mm (100 - 3000 mm)
	**Light Airline tracks, 9 mm floor**			Weight: 0,56 kg/m	522483 Light 9 mm floor Length xxxx mm (100 - 6000 mm)
	**Light Airline tracks, 8 mm piping**			Weight: 0,60 kg/m	522925 Light 8 mm piping Length xxxx mm (100 - 6000 mm)

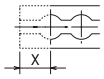
* Length without end caps

Starting point

✓	2 - Starting dimension	3 - Mounting holes	4 - Ends	5 - End caps / Track cover	Order code



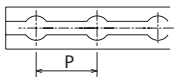
e.g.: X = 0 mm



e.g.: X = 25 mm



e.g.: P = 25 mm

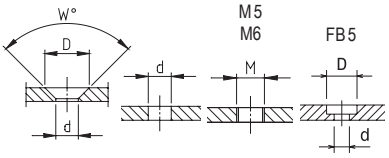


e.g.: P = 50 mm

If not indicated otherwise, the starting dimension is X = 0 mm, pitch P = 25,0 mm.

Mounting holes

✓	✓	3 - Mounting holes	4 - Ends	5 - End caps / Track cover	Order code



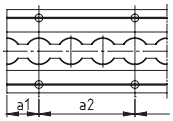
	S 4	S 5	S 6	S 8	N 4	N 5	N 6	D 5,0	D 5,5	D 6,6	D 8,5	M5	M6	FB 5
W	90°	90°	90°	90°	120°	120°	120°							
D	9	11	13	17,2	10,1	12,0	13,0							10,0
d	4,6*	5,6*	6,7*	9,1*	4,3	5,05	6,7*	5,0	5,5	6,6	8,5			5,0

Please select the type of mounting holes (S = Countersunk screw, N = Countersunk rivet, D = Cylindric hole, M = Internal thread, FB = Step drilling) — e.g.: S 5

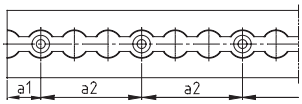
** Size d can be smaller than indicated in case of low material thickness*

Pitch of mounting holes

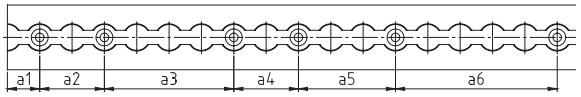
✓	✓	3 - Mounting holes	4 - Ends	5 - End caps / Track cover	Order code



(520609, 521631, 522483)



a2 = same pitch

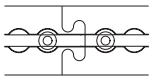


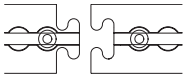
a2 - a... = individual pitch

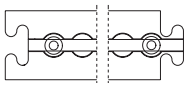
Please specify the pitch of the mounting holes a1 and a2 — Please specify the pitch of the mounting holes a1, a2, a3, a4 etc. — a1-xx / a2-xx

Two-piece tracks

✓	✓	✓	4 - Ends	5 - End caps / Track cover	Order code





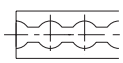


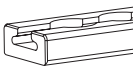
Please choose the division section: Middle — Beginning and end

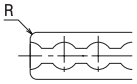
Order code: Middle; Beginning and end

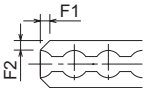
Shape of ends

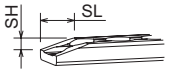
✓	✓	✓	4 - Ends	5 - End caps / Track cover	Order code











Order code: A/E–straight; A/E–burred; A/E–R-xx; A/E–F1-xx F2-xx; A/E–SH-xx SL-xx

Please select the shape of the beginning of the track (max. radius or max. F2 = half of track width in mm)

End caps / Track cover

✓	✓	✓	✓	5 - End caps / Track cover	Order code



Plastic end caps. Only in combination with straight ended tracks (not compatible with 521692, 522483) — End caps

Track cover (not compatible with 320643 and 520624) — Track cover

Sample order code

Airline Light flange - 1497* - S5 - a1-25/a2-75 - Middle - A-straight - E-straight - End caps

allsafe
Sicherheit made in Germany

Light Airline tracks

Made of aluminum

Profile and length without end caps

1 - Profile / Length	2 - Starting dimension	3 - Mounting holes	4 - Ends	5 - End caps / Track cover	Bestell-Code
Light Airline tracks, semicircular for 8 mm LED				Weight: 0,25 kg/m	522970 Light halbrund LED Length* xxxx mm (100 - 6000 mm)
Light Airline tracks, rectangular for 8 mm LED				Weight: 0,66 kg/m	522477 Light LED Length xxxx mm (100 - 6000 mm)

Ultra Light Airline tracks

Made of aluminum

Profile and length without end caps

1 - Profile / Length	2 - Starting dimension	3 - Mounting holes	4 - Ends	5 - End caps / Track cover	Bestell-Code
Airline track Ultra light, rectangular				Weight: 0,30 kg/m	522914 Ultra light rectangular Length* xxxx mm (100 - 3000 mm)

* Length without end caps

Starting dimension

✓	2 - Starting dimension	3 - Mounting holes	4 - Ends	5 - End caps / Track cover	Order code



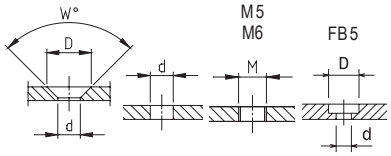
e.g.: X = 0 mm | e.g.: X = 25,4 mm | e.g.: P = 25,4 mm | e.g.: P = 50 mm

If not indicated otherwise, the starting dimension is X = 0 mm, pitch P = 25,0 mm

Order code: P-25 / P-25,4

Mounting holes

✓	✓	3 - Mounting holes	4 - Ends	5 - End caps / Track cover	Order code



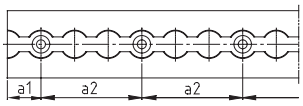
	S 4	S 5	S 6	S 8	N 4	N 5	N 6	D 5,0	D 5,5	D 6,6	D 8,5	M5	M6	FB 5
W	90°	90°	90°	90°	120°	120°	120°							
D	9	11	13	17,2	10,1	12,0	13,0							10,0
d	4,6*	5,6*	6,7*	9,1*	4,3	5,05	6,7*	5,0	5,5	6,6	8,5			5,0

Please select the type of mounting holes (S = Countersunk screw, N = Countersunk rivet, D = Cylindric hole, M = Internal thread, FB = Step drilling) — e. g.: S 5

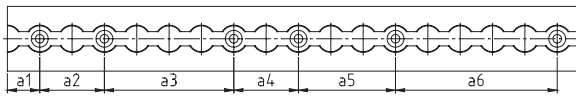
** Size d can be smaller than indicated in case of low material thickness*

Pitch of mounting holes

✓	✓	3 - Mounting holes	4 - Ends	5 - End caps / Track cover	Order code



a2 = same pitch

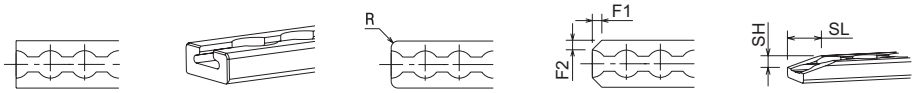


a2 - a... = individual pitch

Please specify the pitch of the mounting holes a1 and a2 | Please specify the pitch of the mounting holes a1, a2, a3, a4 etc. — Order code: a1-xx / a2-xx

Shape of ends

✓	✓	✓	4 - Ends	5 - End caps / Track cover	Order code



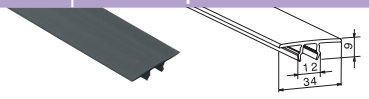
Order code: A/E–straight / A/E–burred / A/E–R-xx / A/E–F1-xx F2-xx / A/E–SH-xx SL-xx

Please select the shape of the beginning of the track (max. radius or max. F2 = half of track width in mm)

Track cover / End caps

✓	✓	✓	✓	5 - End caps / Track cover	Order code





Plastic end caps. Only in combination with straight ended tracks (not compatible with 320646 and 522566) — Order code: End caps

Track cover (not compatible with 520224) — Order code: Track cover

Sample order code

Ultra light	- 1497*	- Y-25	- D6	- a1-25/a2-75	- A-straight	- E-straight	- End caps

allsafe
Sicherheit made in Germany

Standard Airline tracks

Made of aluminum – For mounting on wall / floor or recessed.

Profile and length without end caps (100 to 6000 mm)

Box Box

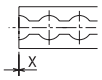
1 - Profile / Length*	2 - Starting dimension	3 - Mounting holes	4 - Ends	5 - End caps / Track cover	Order code
Airline track, rectangular				Weight: 0.90 kg/m	71206 rectangular Length * xxxx mm
Airline track, flange				Weight: 0.80 kg/m	71209 flange Length * xxxx mm
Airline track, glueable				Weight: 0.61 kg/m	320357 glueable Length xxxx mm
Airline track, with wing				Weight: 0.70 kg/m	71207 wing Length xxxx mm
Airline track, semicircular				Weight: 0.71 kg/m	71224 semicircular Length * xxxx mm
Airline track, recessed				Weight: 0.98 kg/m	71223 recessed Length * xxxx mm
Airline track, roof track				Weight: 1.10 kg/m	520377 roof track Length xxxx mm
Airline track, rubber cord				Weight: 0.65 kg/m	521476 rubber cord Length * xxxx mm

Available only with end caps

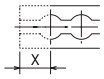
* Length without end caps

Starting point

✓	2 - Starting dimension	3 - Mounting holes	4 - Ends	5 - End caps / Track cover	Order code



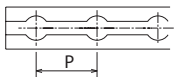
e.g.: X = 0 mm



e.g.: X = 25 mm



e.g.: P = 25 mm

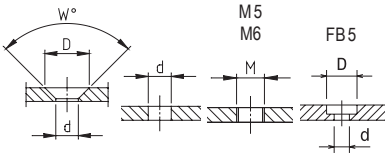


e.g.: P = 50 mm

If not indicated otherwise, the starting dimension is X = 0 mm, pitch P = 25,0 mm.

Mounting holes

✓	✓	3 - Mounting holes	4 - Ends	5 - End caps / Track cover	Order code



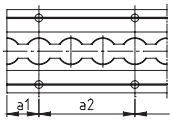
	S 4	S 5	S 6	S 8	N 4	N 5	N 6	D 5,0	D 5,5	D 6,6	D 8,5	M5	M6	FB 5
W	90°	90°	90°	90°	120°	120°	120°							
D	9	11	13	17,2	10,1	12,0	13,0							10,0
d	4,6*	5,6*	6,7*	9,1*	4,3	5,05	6,7*	5,0	5,5	6,6	8,5			5,0

Please select the type of mounting holes (S = Countersunk screw, N = Countersunk rivet, D = Cylindric hole, M = Internal thread, FB = Step drilling) — e. g.: S 5

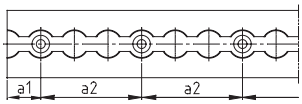
** Size d can be smaller than indicated in case of low material thickness*

Pitch of mounting holes

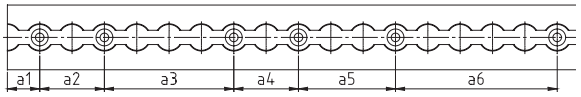
✓	✓	3 - Mounting holes	4 - Ends	5 - End caps / Track cover	Order code



(71209, 71207, 520377)



a2 = same pitch

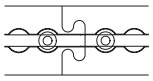


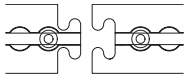
a2 - a... = individual pitch

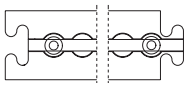
Please specify the pitch of the mounting holes a1 and a2 — Please specify the pitch of the mounting holes a1, a2, a3, a4 etc. — a1-xx / a2-xx

Two-piece tracks

✓	✓	✓	4 - Ends	5 - End caps / Track cover	Order code





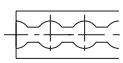


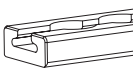
Please choose the division section: — Middle — Beginning and end

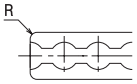
Order code: Middle / Beginning and end

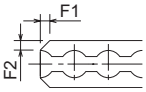
Shape of ends

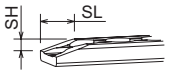
✓	✓	✓	4 - Ends	5 - End caps / Track cover	Order code











Please select the shape of the beginning of the track (max. radius or max. F2 = half of track width in mm)

Order code: A/E–straight / A/E–burred / A/E–R-xx / A/E–F1-xx F2-xx / A/E–SH-xx SL-xx

End caps / Track cover

✓	✓	✓	✓	5 - End caps / Track cover	Order code



Plastic end caps. Only in combination with straight ended tracks (not compatible with 71207 and 520377) — End caps

Track cover (not compatible with 71224, 520377 and 521476) — Track cover

Sample order code

Airline semicircular – 1497* – D 6 – a1-25/a2-75 – Middle – A-straight – E-straight – End caps

allsafe
Sicherheit made in Germany

Heavy-duty Airline tracks

Made of aluminum – For mounting on floor or recessed.

Profile and length without end caps

Box Box

1 - Profile / Length*	2 - Starting dimension	3 - Mounting holes	4 - Ends	5 - End caps / Track cover	Order code
HD Airline tracks, semicircular			Weight: 0,76 kg/m		520224 HD semicircular Length* xxxx mm (100 - 6000 mm)
HD Airline tracks, recessed			Weight: 1,00 kg/m	for seat fixation	520223 HD recessed Length* xxxx mm (100 - 6000 mm)
HD Airline tracks, floor track			Weight: 1,16 kg/m		320646 HD floor track Length xxxx mm (100 - 6000 mm)
HD Airline tracks, 34x16			Weight: 0,88 kg/m		522566 HD 34x16 Length* xxxx mm (100 - 5800 mm)

Special Airline tracks

Made of aluminum

Profil und Länge ohne Endstücke

Curtainsider Curtainsider

1 - Profil / Länge		Bestell-Code
NEW!	**Airline-Schiene Special, EXTERIOR halbrund** Gewicht: 0,86 kg/m Multi resistant anodized surface suitable for outside assembly (as per DIN EN 17611), UV resistant Legal for bodyshell assembly (ECE324 R26)	322138S EXTERIOR halbrund Länge* xxxx mm (100 - 6000 mm)

* Length without end caps

Starting dimension

✓	2 - Starting dimension	3 - Mounting holes	4 - Ends	5 - End caps / Track cover	Order code



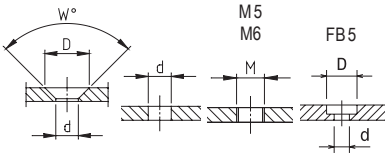
e.g.: X = 0 mm | e.g.: X = 25,4 mm | e.g.: P = 25,4 mm | e.g.: P = 50 mm

If not indicated otherwise, the starting dimension is X = 0 mm, pitch P = 25,0 mm

P-25
P-25,4

Mounting holes

✓	✓	3 - Mounting holes	4 - Ends	5 - End caps / Track cover	Order code



	S 4	S 5	S 6	S 8	N 4	N 5	N 6	D 5,0	D 5,5	D 6,6	D 8,5	M5	M6	FB 5
W	90°	90°	90°	90°	120°	120°	120°							
D	9	11	13	17,2	10,1	12,0	13,0							10,0
d	4,6*	5,6*	6,7*	9,1*	4,3	5,05	6,7*	5,0	5,5	6,6	8,5			5,0

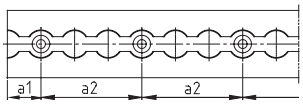
Please select the type of mounting holes (S = Countersunk screw, N = Countersunk rivet, D = Cylindric hole, M = Internal thread, FB = Step drilling)

e. g.: S 5

** Size d can be smaller than indicated in case of low material thickness*

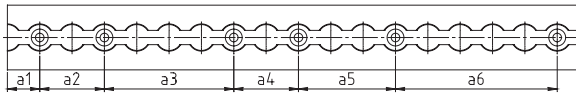
Pitch of mounting holes

✓	✓	3 - Mounting holes	4 - Ends	5 - End caps / Track cover	Order code



a2 = same pitch

Please specify the pitch of the mounting holes a1 and a2



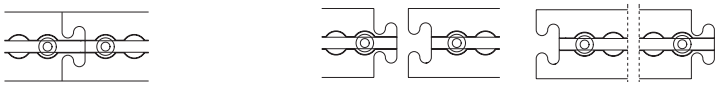
a2 - a... = individual pitch

Please specify the pitch of the mounting holes a1, a2, a3, a4 etc.

a1-xx / a2-xx

Two-piece tracks

✓	✓	✓	4 - Ends	5 - End caps / Track cover	Order code

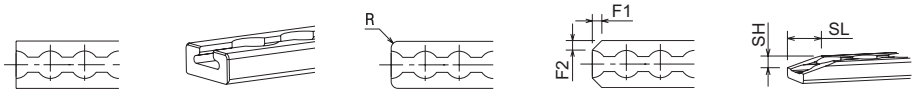


Please choose the division section: Middle | Beginning and end

Middle
Beginning and end

Shape of ends

✓	✓	✓	4 - Ends	5 - End caps / Track cover	Order code

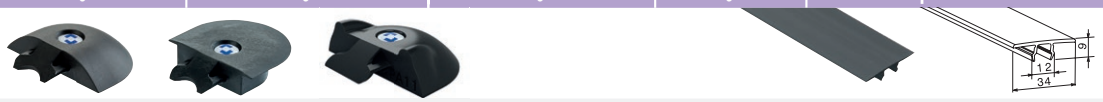


Please select the shape of the beginning of the track (max. radius or max. F2 = half of track width in mm)

A/E – straight
A/E – burred
A/E – R-xx
A/E – F1-xx F2-xx
A/E – SH-xx SL-xx

Track cover / End caps

✓	✓	✓	✓	5 - End caps / Track cover	Order code



Plastic end caps. Only in combination with straight ended tracks (not compatible with 320646 and 522566)

End caps

Track cover (not compatible with 520224)

Track cover

Sample order code

EXTERIOR semicircular - 1497* - Y-25 - D6 - a1-25/a2-75 - Middle - A-straight - E-straight - End caps

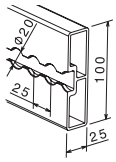
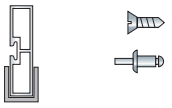
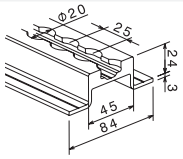
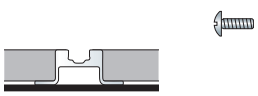
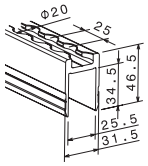
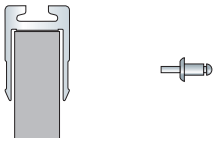
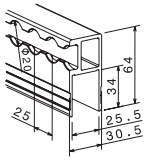
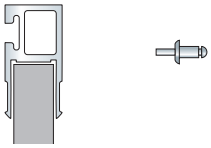
allsafe
Sicherheit made in Germany

Special Airline tracks

Made of aluminum

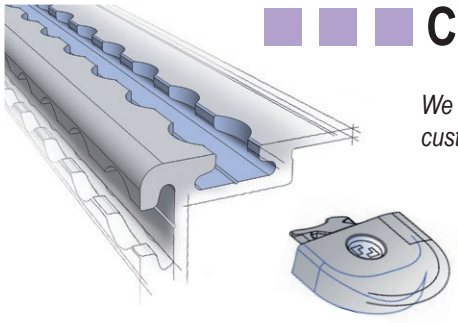
Profile and length



1 - Profile / Length		Order code
	**Special Airline track, lashing profile** Weight: 2,10 kg/m  	71203 lashing profile Length xxxx mm (100 - 7200 mm)
	**Special Airline track, 24 mm floor** Weight: 1,67 kg/m  	521453 24 mm floor Length xxxx mm (100 - 7000 mm)
	**Special Airline track, side board top** Weight: 1,10 kg/m  	71225 side board top Length xxxx mm (100 - 7200 mm)
	**Special Airline track, side board side** Weight: 1,30 kg/m  	520450 side board side Length xxxx mm (100 - 7200 mm)

Sample order code

Airline side board top	-	1278



Customized Airline track and end caps

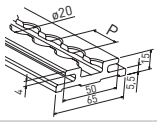
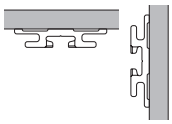
We design the Airline track and end caps you require, customized to your specifications.

Airline guide track

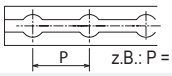
Made of aluminum

Profile and length (100 to 7000 mm)

Box Box

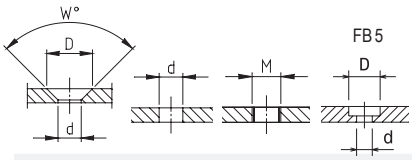
1 - Profile / Length	2 - Starting dimension	3 - Mounting holes	4 - Division & cutout	5 - Ends	Order code
	**Airline track, guide track**		Weight: 1,42 kg/m		522020 Guide track Length xxxx mm
					

Starting dimension

✓	✓	3 - Mounting holes	4 - Division & cutout	5 - Ends	Order code
 z.B.: X = 0 mm	 z.B.: X = 25 mm	 z.B.: P = 25 mm	 z.B.: P = 50 mm		
If not indicated otherwise, the starting dimension is X = 0 mm, pitch P = 25,0 mm					P-xx

Mounting holes

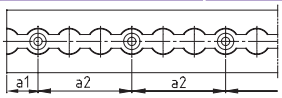
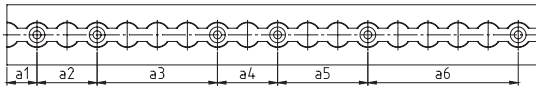
✓	✓	3 - Mounting holes	4 - Division & cutout	5 - Ends	Order code



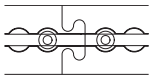
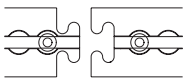
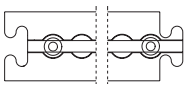
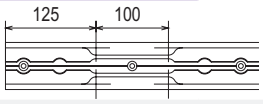
	S 5	S 6	S 8	N 4	N 5	N 6	D 5,5	D 6,6	D 8,5	M 5	M 6	FB 5
W	90°	90°	90°	120°	120°	120°						
D	11	13	17,2	10,1	12,0	13,0						10,0
d	5,6	6,7	9,1	4,3	5,05	6,7	5,5	6,6	8,5			5,0

Please select the type of mounting holes (S = Countersunk screw, N = Countersunk rivet, D = Cylindric hole, M = Internal thread, FB = Step drilling) — z. B.: S 5

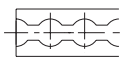
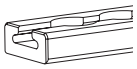
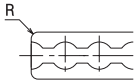
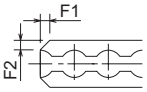
Pitch of mounting holes

✓	✓	3 - Mounting holes	4 - Division & cutout	5 - Ends	Order code
 a2 = same pitch		 a2 - a... = individual pitch			
Please specify the pitch of the mounting holes a1 and a2		Please specify the pitch of the mounting holes a1, a2, a3, a4 etc.			a1-xx / a2-xx

Two-piece tracks and JF-Cutout

✓	✓	✓	4 - Division & cutout	5 - Ends	Order code
					Middle Beginning and end
Please choose the division section: Middle		Beginning and end	JF-Cutout		JF-Out

Shape of ends

✓	✓	✓	✓	5 - Ends	Order code
					A/E – straight A/E – burred A/E – R-xx A/E – F1-xx F2-xx A/E – SH-xx SL-xx
Please select the shape of the beginning of the track (max. radius or max. F2 = half of track width in mm)					

Track cover / End caps

✓	✓	✓	✓	5 - End caps / Track cover	Order code
					End caps
Plastic end caps. Only in combination with straight ended tracks			Track cover		Track cover

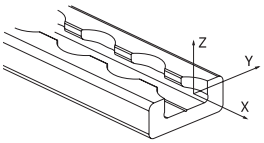
Sample order code

Airline guide track	– 6800	– N 6	– a1-25/a2-75	– Middle	– JF-Out	– A-straight	– E-straight

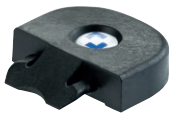
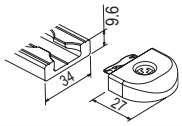
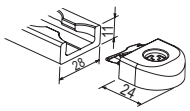
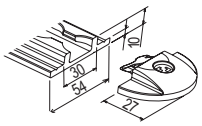
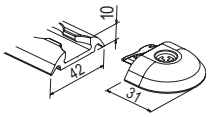
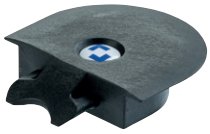
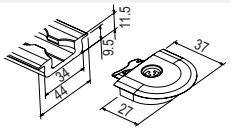
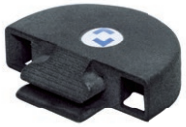
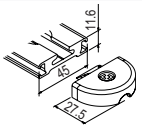
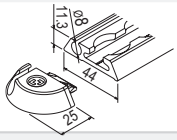
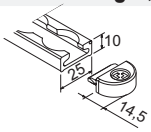
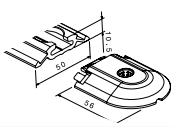
allsafe
Sicherheit made in Germany

Accessories for Airline Light tracks

End caps made of plastic

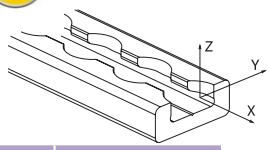


End caps

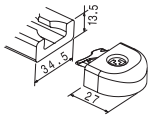
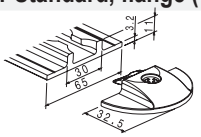
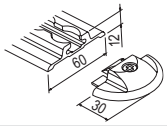
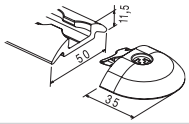
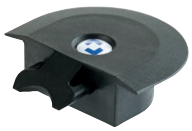
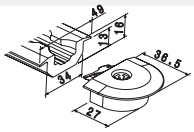
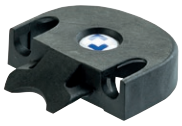
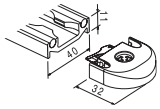
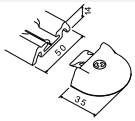
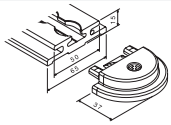
		Order code
	for Light, rectangular (71226) 	521500 Set of - 0012 pcs. - 0040 pcs. - 0080 pcs. - 0500 pcs.
	for Light, slim (320643) 	521495 Set of - 0012 pcs. - 0040 pcs. - 0080 pcs. - 0500 pcs.
	for Light, flange (520609) 	521501 Set of - 0012 pcs. - 0040 pcs. - 0080 pcs. - 0500 pcs.
	for Light, semicircular (520624) 	521494 Set of - 0012 pcs. - 0040 pcs. - 0080 pcs. - 0500 pcs.
	for Light, recessed (520623) 	521502 Set of - 0012 pcs. - 0040 pcs. - 0080 pcs. - 0500 pcs.
	for Light, LED (522477) 	522849 Set of - 0012 pcs. - 0040 pcs. - 0080 pcs. - 0500 pcs.
 NEW!	for Light, 8 mm piping left (522925) 	522936 Set of - 0012 pcs. - 0040 pcs. - 0080 pcs. - 0500 pcs.
 NEW!	for Light, 8 mm piping right (522925) 	522937 Set of - 0012 pcs. - 0040 pcs. - 0080 pcs. - 0500 pcs.
 NEW!	for Ultra Light, rectangular (522914) 	522930 Set of - 0012 pcs. - 0040 pcs. - 0080 pcs. - 0500 pcs.
 NEW!	for Light, semicircular 8 mm LED (522970) 	522954 Set of - 0012 pcs. - 0040 pcs. - 0080 pcs. - 0500 pcs.

Accessories for Airline track Standard/Heavy-duty

End caps made of plastic



End caps

		Bestell-Code
	**for Standard, rectangular (71206)** 	521496 Set of - 0012 pcs. - 0040 pcs. - 0080 pcs. - 0500 pcs.
	**for Standard, flange (71209)** 	521497 Set of - 0012 pcs. - 0040 pcs. - 0080 pcs. - 0500 pcs.
 NEW!	**for Standard, glueable (320357)** 	522863 Set of - 0012 pcs. - 0040 pcs. - 0080 pcs. - 0500 pcs.
	**for Standard semicircular (71224) / Heavy-duty semicircular (520224)** 	521499 Set of - 0012 pcs. - 0040 pcs. - 0080 pcs. - 0500 pcs.
	**for Standard recessed (71223) / Heavy-duty recessed (520223)** 	521498 Set of - 0012 pcs. - 0040 pcs. - 0080 pcs. - 0500 pcs.
	**for Standard round cord (521476)** 	521477 Set of - 0012 pcs. - 0040 pcs. - 0080 pcs. - 0500 pcs.
	**for EXTERIOR, semicircular (322138)** 	322139 VPE - 0012 pcs. - 0040 pcs. - 0080 pcs. - 0500 pcs.
 NEW!	**for Airline guide track (522020)** 	522891 VPE - 0012 pcs. - 0040 pcs. - 0080 pcs. - 0500 pcs.

Sample order code

End cap, Standard, rectangular	–	0040	–	Track cover

Track cover (100 to 3000 mm)

	Order code
	Length xxxx mm
(not compatible with 71224, 520224, 520377 and 5214760)	71380

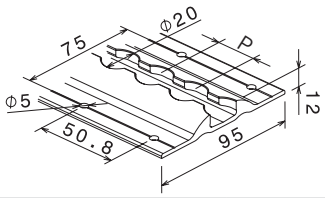
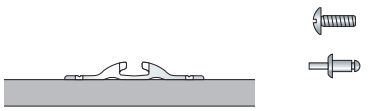
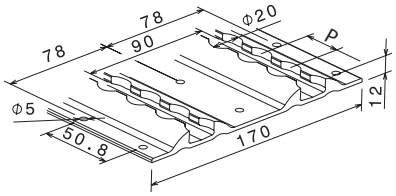
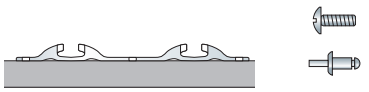
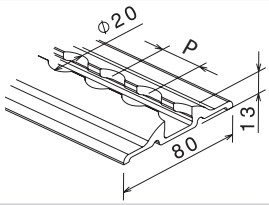
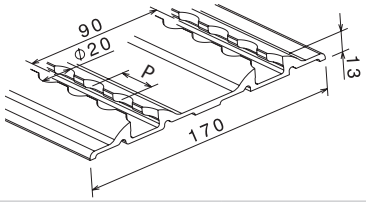
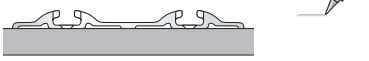
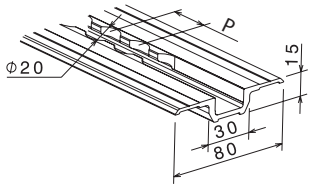
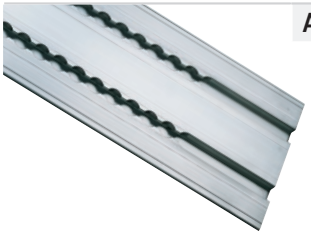
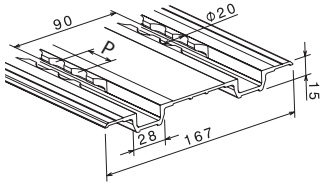
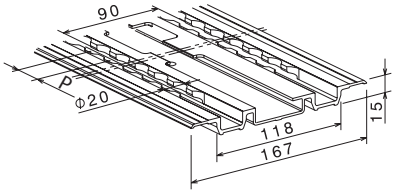
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ATD Airline tracks

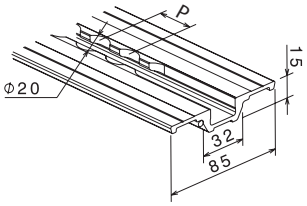
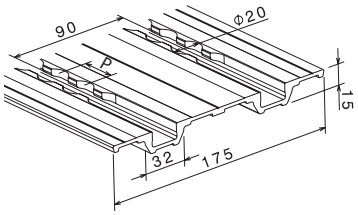
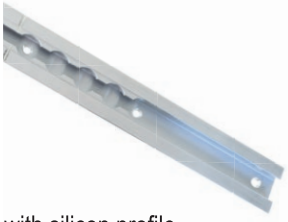
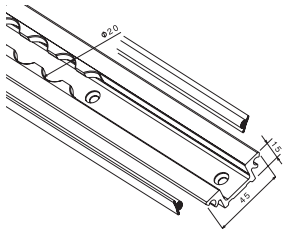
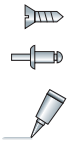
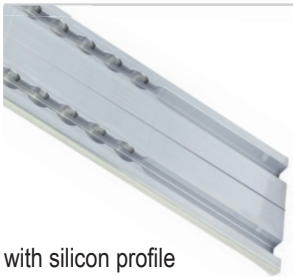
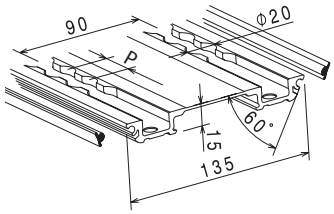
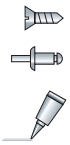
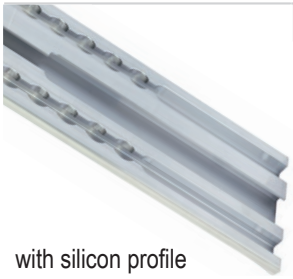
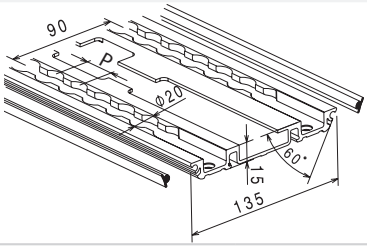
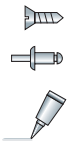
Made of aluminum – For vertical mounting with double-deck systems

Profile and length (220 to 1960 mm)

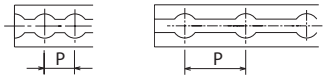
Box Box

1 - Profile / Length	2 - Pitch	Order code
	**ATD-I Airline track, single** Weight: 1,12 kg/m  	520077 ATD-I single Length xxxx mm
	**ATD-I Airline track, double** Weight: 2,09 kg/m  	520177 ATD-I double Length xxxx mm
	**ATD-I Airline track, glueable single** Weight: 1,02 kg/m   	520820 ATD-I glueable single Length xxxx mm
	**ATD-I Airline track, glueable double** Weight: 2,19 kg/m   	520821 ATD-I glueable double Length xxxx mm
	**ATD-F Airline track, single** Weight: 0,88 kg/m   	520421 ATD-F single Length xxxx mm
	**ATD-F Airline track, double** Weight: 1,83 kg/m   	520422 ATD-F double Length xxxx mm
	**ATD-F Airline track for release rod** Weight: 1,90 kg/m   	521309 ATD-F Release rod Length xxxx mm

Profile and length (220 to 1960 mm)

1 - Profile / Length	2 - Pitch	Order code
	**ATD-II Airline track, single** Weight: 1,05 kg/m   	520277 ATD-II single Length xxxx mm
	**ATD-II Airline track, double** Weight: 2,10 kg/m   	520477 ATD-II double Length xxxx mm
 with silicon profile	**ATD-II Airline track, slim, single** Weight: 0,69 kg/m   	522616 ATD-II slim single Length xxxx mm
 with silicon profile	**ATD-II Airline track, slim, double** Weight: 1,75 kg/m   	521025 ATD-II slim double Length xxxx mm
 with silicon profile	**ATD-II Airline track, slim for release rod** Weight: 1,95 kg/m   	521026 ATD-II slim Release rod Length xxxx mm

Pitch

✓	2 - Pitch	Order code
 e.g.: P = 25 mm e.g.: P = 50 mm		P-25 P-50
	If not indicated otherwise, the pitch is P = 25,0 mm.	

Sample order code

Airline ATD-II double	-	1960	-	P-25

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Pin tracks



43 mm

resilient and light

- very compact ▸ optimal for small spaces
- high lashing capacity ▸ safety guaranteed
- protection inserts ▸ the solution for fragile goods

60 mm

versatile

- 60 mm high-strength aluminum ▸ the standard for boxes
- for riveting, screwing, glueing ▸ suitable for mounting on all surfaces

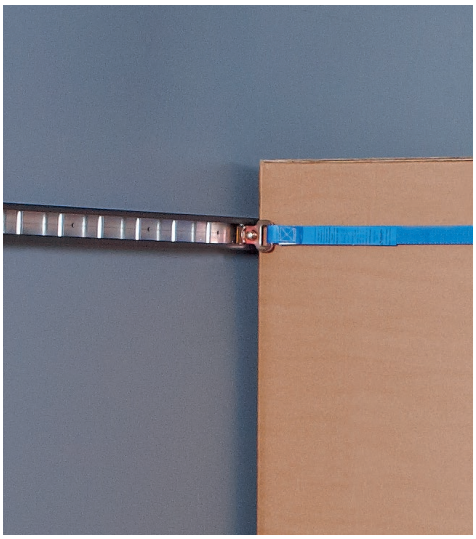
Special

customized fit

- recessed ▸ for smooth interior walls


Box






Box






Box





Your customized pin track. Compose it yourself:



Total length

Compose your ready-to-install pin track. We manufacture the tracks in any length required at no additional costs.

Pin pitch

Compose your track with the spacing you require between the pins.

Mounting holes

Choose the diameter for the mounting holes.

Mounting hole pitch

The mounting hole pitch depend on the required load, load direction force and the vehicle construction. The diameter and number of mounting holes should be determined by testing.

Protective insert

To protect your load, fit the tracks with a protective insert and appropriate end caps.

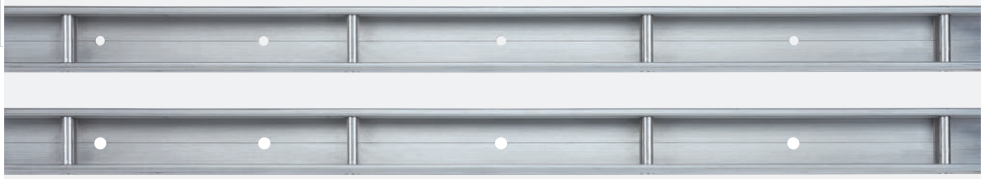
Load capacity

Pin tracks in combination with flat hooks can be qualified as an anchorage point according to ISO 27955 (passenger vehicle) or ISO 27956 (light commercial vehicle) by body builders.
The maximum load capacities shown opposite can only be achieved under the following conditions:

- adequate load distribution to the vehicle structure
- glue or screws mounted every 200 mm











	Pin track 510168, 522768, 71099	Pin track 71059	Pin track 510546, 511034
	Load capacity	**Load capacity**	**Load capacity**
Flat hook 71026, 71349	300 daN		400 daN
Flat hook 71077		300 daN	

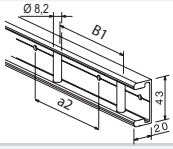
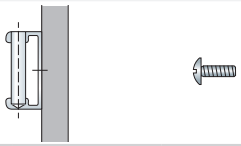
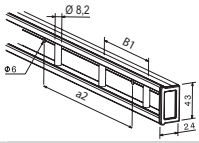
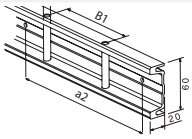
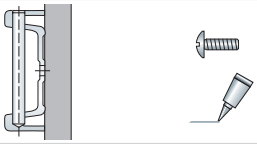
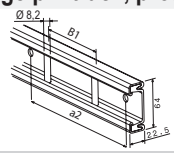
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Sicherheit made in Germany

Pin tracks

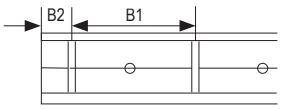
Made of aluminum – For mounting on wall.

Profile and length (220 to 6000 mm)

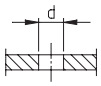
Box

1 - Profile / Length	2 - Pin pitch	3 - Mounting holes	4 - Mounting hole pitch	Order code
	**Small pin track** 	Weight: 0,69 kg/m 		510546 Pin track small Length xxxx mm
	**Small pin track, protection** 	Weight: 0,85 kg/m 		511034 Pin track small protection Length xxxx mm
	**Large pin track** 	Weight: 1,23 kg/m 		510168 Pin track large Length xxxx mm
	**Large pin track, protection** 	Weight: 1,37 kg/m 		71099 Pin track large protection Length xxxx mm

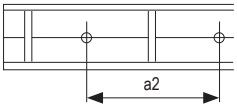
Pin pitch

✓	2 - Pin pitch	3 - Mounting holes	4 - Mounting hole pitch	Order code
	Good results have been achieved with: Pin pitch B1 = 100 mm, B2 = 50 mm B2 min. 50 mm - max. 150 mm			B1 xxx B2 xxx
Please select the pin pitch B1 and B2				

Mounting holes

✓	✓	3 - Mounting holes		4 - Mounting hole pitch	Order code
		D 5	D 6		
	d	5,0	6,0		
Please select the diameter of the mounting holes					D 5 or D 6

Mounting hole pitch

✓	✓	✓	4 - Mounting hole pitch	Order code
	Good results have been achieved with: Mounting hole pitch a2 = 200 mm a2 = B1 or multiple integrals of B1			
Please select the a2 mounting hole pitch				a2 xxx

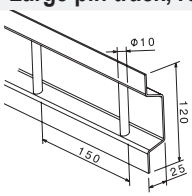
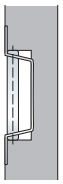
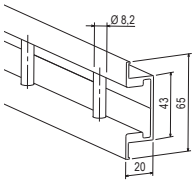
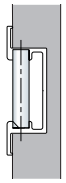
Sample order code

Pin track large	-	1270	-	D 5	-	B1-100 / B2-50 / a2-20		

Pin tracks

Made of aluminum – Recessed in side walls.

Profile and length

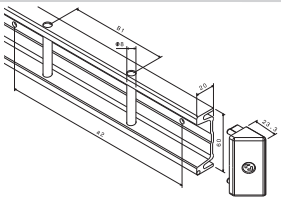
1 - Profile / Length			Order code
	**Large pin track, recessed**  	Weight: 0,89 kg/m Length up to 5000 mm 	71059 Large pin track, recessed Length xxxx mm
	**Small pin track, recessed**  	Weight: 0,77 kg/m Length up to 4500 mm 	522768 Small pin track, recessed Length xxxx mm

Sample order code

Large pin track, recessed	–	4100

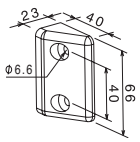
Accessories

compatible with:
510168



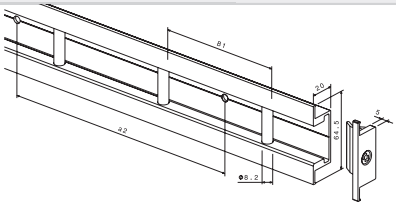
End caps 522852

compatible with:
71099



End caps 560066-10

compatible with:
522768



End caps 522850

allsafe
Sicherheit made in Germany

Combi tracks



Combi tracks

well proven for sidewalls of boxes

- with e-tracks and round holes ▸ compatible with all Faktor 4 products
- a range of materials ▸ the right track for every requirement



Round hole tracks

for boxes

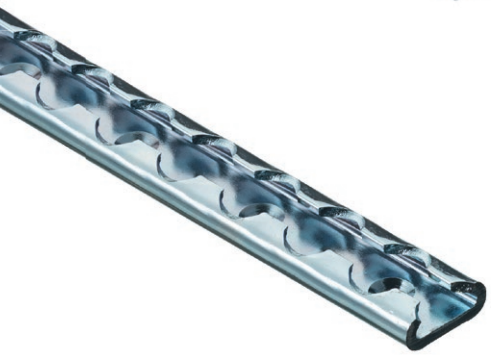
- strong hold ▸ structural element for roof and floor
- various designs ▸ compatible with Ø 19 mm and Ø 24 mm bolts



Lashing profiles

indispensible for setting up slats

- low-weight ▸ high safety level– minimal payload loss
- intelligent design ▸ solid base for KERLs and Faktor 4
- quality certified according to VDI 2700 ▸ safe driving guaranteed



Airline tracks Made of steel

Optimized dimensions with minimum wall thickness

- for welding or riveting ▸ ideal for steel construction
- Various lashing points ▸ flexibility for the user
- high-strength steel ▸ high load capacity

Box Box





Box Box

Curtainsider Curtainsider





Curtainsider Curtainsider





Box Box



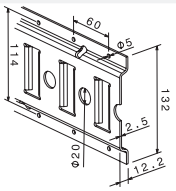
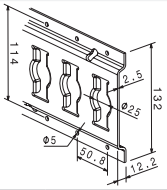
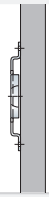
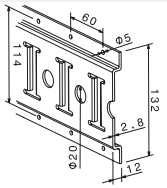
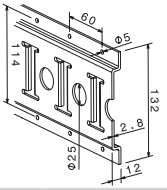
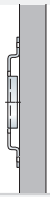
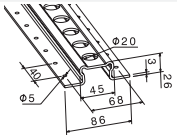
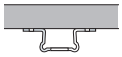
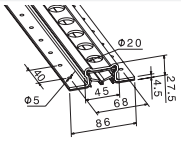
allsafe
Sicherheit made in Germany

Combi and Round hole tracks

For mounting on wall.

Profile and length

Box | Box | Curtainsider | Curtainsider

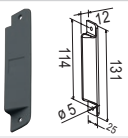
1 - Profile / Length			Order code
	**Combi track, galvanized steel, Ø 20 mm**  	Weight: 2,30 kg/m Length: 220 to 3000 mm 	71004 Combi 20 Length xxxx mm
	**Combi track, galvanized steel, Ø 25 mm**  	Weight: 2,20 kg/m Length: 220 to 3000 mm 	71219 Combi 25 Length xxxx mm
	**Combi track, aluminum, Ø 20 mm**  	Weight: 0,97 kg/m Length: 220 to 3000 mm 	71005 Combi alu 20 Length xxxx mm
	**Combi track, aluminum, Ø 25 mm**  	Weight: 0,97 kg/m Length: 220 to 3000 mm 	77225 Combi alu 25 Length xxxx mm
	**Round hole roof track, galvanized, Ø 20 mm**  	Weight: 3,00 kg/m Length: 220 to 7608 mm 	552081 Round hole roof track Length xxxx mm
	**TILLY floor track, galvanized, Ø 20 mm**  	Weight: 3,20 kg/m Length: 220 to 7608 mm 	512145 TILLY floor track Length xxxx mm

Sample order code

Combi alu 20	–	2120

Accessories

compatible with:
71004, 71005,
71219, 77225,



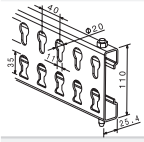
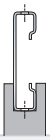
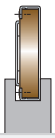
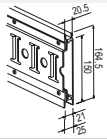
End caps 71414

Lashing profiles

For setting up roof bows.

Profile and length

Curtainsider Curtainsider

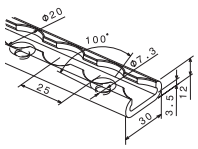
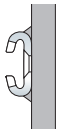
1 - Profile / Length		Order code
	**AJS lashing profile** Weight: 3,60 kg/m Length: 220 to 5000 mm     optional accessories: Fixing bolt 510927-10 AJS holder 511151-20	521127 AJS lashing profile Length xxxx mm + Fixing bolt + AJS holder
	**Lashing profile combi** Weight: 2,63 kg/m Length: 220 to 5000 mm  	79005/25 Lashing profile Combi Length mm xxxx
	**Sideboard profile combi** Weight: 3,00 kg/m Length: 220 to 5000 mm  	79005/71909 Sideboard profile combi Length mm xxxx

Airline tracks

Made of steel.

Profile and length

Box Box Curtainsider Curtainsider

1 - Profile / Length		Bestell-Code
	**Airline steel / galvanized steel** Weight: 1,21 kg/m Length: 220 to 4000 mm    	520266 Airline steel 520267 Airline steel galvanized Length xxxx mm

Sample order code

Airline galvanized steel	-	3508

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Sicherheit made in Germany

Lashing points



Recessed lashing rings

for screwing

- many designs ▸ suitable for every space
- comply with EN / ISO standards ▸ quality and safety guaranteed
- very strong ▸ tried and tested



Recessed lashing rings Lashing plates

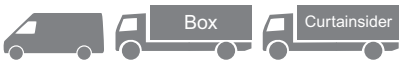
for screwing

- light-weight but high lashing capacity ▸ small dimensions, big safety
- comply with EN / ISO standards ▸ quality and safety guaranteed
- functional design ▸ very presentable


Curtainsider
Curtainsider


EUR


EUR


Box
Curtainsider




EPAL

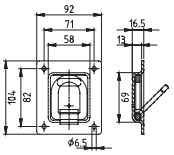
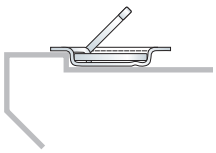
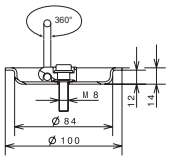
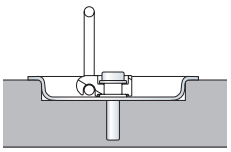
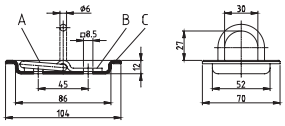
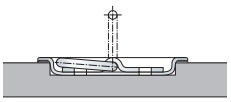
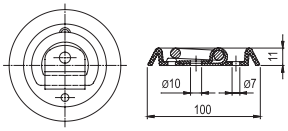
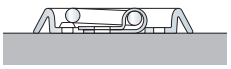



allsafe JUNGINGFALK

Recessed lashing rings

Recessed lashing rings you can depend on. When heavy weights need to be anchored, allsafe lashing rings are the first choice.
They provide customized lashing points suitable for every load capacity. Discreetly integrated into the frame of the vehicle or the vehicle floor, they are extremely effective. The recessed lashing rings comply to relevant standards.

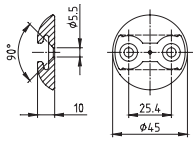
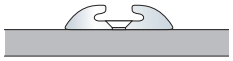
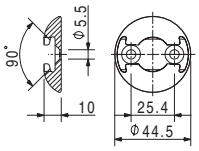
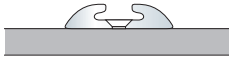
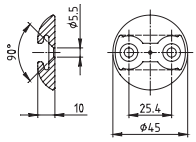
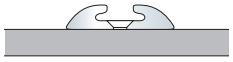
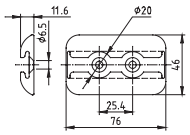
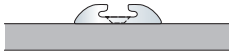
Recessed lashing rings for screwing or riveting

				Order code
	**Recessed lashing ring 1 000**  	Galvanized steel	Lashing capacity: 1000 daN 800 daN EN 12640	510024-10
	**Recessed lashing ring 500**  	Galvanized steel	Lashing capacity: 500 daN ISO 27956 600 daN EN 12640	511063-10
	**Recessed lashing ring 350**  	Galvanized steel	Lashing capacity: 350 daN ISO 27956	71100
	**Recessed lashing ring 300**  	Galvanized steel	Lashing capacity: 300 daN ISO 27956	560151-10

Sample order code

Recessed lashing ring 2500	–	71102

Lashing rings for screwing or riveting

			Order code
	**Anchor plates 500**  	Aluminum Lashing capacity: 500 daN ISO 27956 400 daN EN 12640	71106
	**Anchor plates Ø 20 mm**  	Aluminum compatible with shoring poles with end fittings 19 mm not compatible with KERL	322060
	**Anchor plates 500 black**  	Aluminum Lashing capacity: 500 daN ISO 27956	520153-21
	**Anchor plates 800**  	Aluminum Lashing capacity: 800 daN ISO 27956 800 daN EN 12640	520197-40

Sample order code

Anchor plates 500	–	71106

TRACKS

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Sicherheit made in Germany

Introduction to load restraint

Who is responsible in Germany?

The shipping agent, the vehicle owner and the driver. The shipping agent (shipping either for himself or for third parties) is responsible for roadworthy loads. The owner (the person who owns the vehicle and has control of it) is responsible for the suitability of the vehicle.
The driver is the person who knowingly operates or controls a vehicle and is responsible for roadworthy stowage of the load and making sure load platform, bodywork and any load securing equipment are in sound and serviceable condition. Everybody has responsibilities.

Duties of shipper, vehicle owner and driver in Germany

§ 22 of the German Road Traffic Act states: the load, including load restraint equipment, should be stowed and secured that it cannot slide, roll-over in any direction, wander because of vibration, fall off vehicle or make the vehicle tip over or produce avoidable noise, even during heavy braking or dangerous maneuvers. Generally accepted technical rules should be followed. § 37 (4) of the German Accident Prevention Regulations states that the load should be secured to hinder cargo from falling over and to prevent avoidable noises.

§ 412 of the German Commercial Code: Unless circumstances or common usage dictates otherwise, the dispatcher must load, stow, secure and unload the goods safely. The carrier is responsible for safe loading. § 823 of the German Civil Code define compensation. § 831 of the German Civil Code contains definitions of liability.

§ 30 of the German Road Traffic Licensing Regulations governs the requirements relating to the condition of vehicles; § 31 of the same legislation stipulates that responsibility for vehicle operation lies with the owner and driver. The vehicles must be safe to operate, for example, show no technical defects and all load restraint required for the intended journey must be available. The vehicle must also be roadworthy, which includes the vehicle operator being trained accordingly to secure the load adequately (§ 30 + § 31).

EN 12 195 Part 1 – Calculation of securing forces

Vehicles over 3.5 t total weight, use various securing methods such as blocking, lashing or a combination thereof for securing loads in road vehicles which are defined in part 1.

Information about the blocking force „BC in daN“ of shoring elements is important for the calculation (BC = blocking capacity).

Recognized technical rules in Germany – VDI 2700 ff

In addition to EN 12 195-1, VDI Guideline 2700 ff provides a summary of physical principles and specific examples for load restraint.

The guidelines make many references to the relevant statutory rules and standards. The list of specific examples of load restraint is being extended continuously. The training requirements for people responsible for the load restraint is also described.

The VDI guidelines are definitive in legal disputes in Germany.

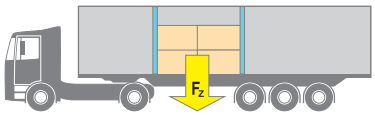
EN 12 195 Part 2 – Lashing straps

- EN 12195-2 regulates the labeling and handling of lashing straps.
- All lashing straps must be marked with a legible label.
- If label is no longer attached or if it is no longer legible, the strap can not be used.
- Straps can not be used if they show clear signs of damage, e.g. tears, cuts stitching breakage or corrosion
- It is not permitted to knot the straps.
- The driver must carry at least one set of instructions for use (supplied with the product) and be able to provide these upon request.
- There is no general expiration date for lashing straps.

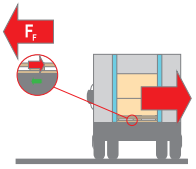
Standards for securing loads

ISO 27955	ISO 27956	EN 12 640	EN 12 641	EN 12 642	EN 283/284	EN 12 195	EN 12 195	additionally: VDI 2700 ff
Lashing points	Lashing points	Lashing points	Trailers	Trailers	Trailers	Load restraint		
Passenger vehicle, wagon, light commercial vehicle	Light commercial vehicle	Flatbed trucks - > 3.5t	Tarpaulin		Swap bodies	Section 1: Calculating securing forces	Section 2: Lashing strap made from synthetic fibers	Recognized regulations for securing loads

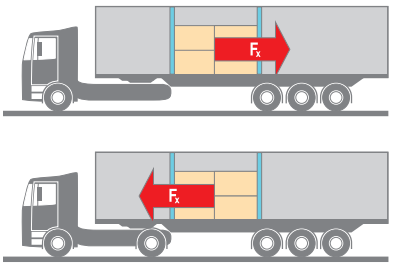
Physical principles



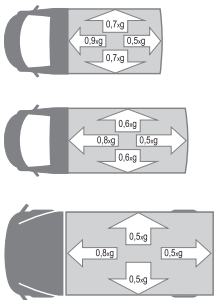
Weight = Mass x Gravity
F_Z = m x g
1 daN ~ 1 kg x 9.81 m/s²



Friction = Weight x Friction coefficient
F_F = F_Z x μ



Inertia = Mass x Acceleration coefficient x Gravity
F_{XY} = m x c_{xy} x g

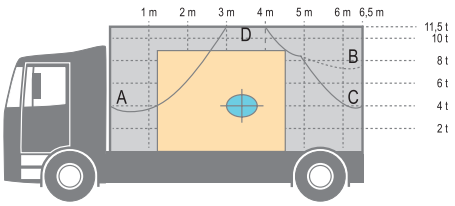


MPW > 2.0 t

MPW 2.0 - 3.5 t

MPW > 3.5 t

Acceleration value $c_{x,y}$ depending on MPW



Limited by:
A = permissible front axle load
B = permissible rear axle load
C = safe steerability
D = maximum permissible weight

Weight

The load applies a downward force on the load space of weight F_z Forces like weight are measured in Newton (N). The weight of mass of 1 kg is approximately 9,81 N which for practical purposes can be rounded off to 10 N or 1 decaNewton (daN).

The weight of 1 kg of mass is 1 daN.

Friction

Friction hinders movement of the load and helps to secure it by working against the force of inertia. Friction forces depend on the mutual cargo and truck bed surface. The rougher the surface is, the higher the friction.

Friction can be calculated by multiplying the weight F_z by μ which stands for friction coefficient.

Longitudinal and transverse force of load in relation to the maximum permissible weight (MPW)

Acceleration tends to cause the load to slide backwards.

As a result of the retarding force when braking, the load tends to slide forwards. This vehicle movement is in the direction of the longitudinal axis (x-axis).

Centrifugal forces on the vehicle and its load occur when driving around bends. This vehicle movement exerts a force in the direction of the transverse axis (y-axis).

Centrifugal forces try to tilt the vehicle and push the cargo to the outside of the curve. Movement of the load while driving around a bend can cause the vehicle to topple over.

Based on the driving dynamics of vehicles with different total masses, different longitudinal and diagonal acceleration takes place in practice, see illustration.

Starting from a standstill position, the load acts with an inertia force directed towards the rear of the vehicle equal to 0,5 times the weight of the load. When braking, the inertial force directed towards the vehicle may equal 0,8 times the weight of the load. When cornering, the lateral inertia force may reach 0,5 times the weight of the load.

These longitudinal and transverse accelerations exert longitudinal force F_x or lateral force F_y on the load.

Mass x Acceleration coefficient x gravity = Inertia

Load distribution

Guideline VDI 2700 sheet 4 requires the load to be stowed so that the center of gravity of the entire load is along the longitudinal centerline of the vehicle if possible. Even weight and load distribution for partial loads is also desirable.

Positive locking is not usually achieved with heavy weights as you cannot load from the front bulkhead to the rear due to the vehicle's axle loads.This produces gaps in the cargo and suitable load restraint equipment must therefore be used. Shoring elements can secure against large forces, especially in the direction of travel.

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Securing loads using positive locking with Faktor 4

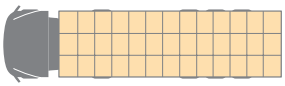


Fig. 1: Positive locking in all directions

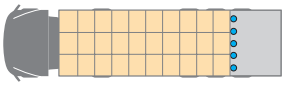


Fig. 2: Positive locking in all directions

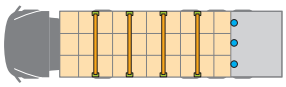


Fig. 3: Positive locking in all directions

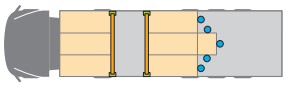


Fig. 4: Positive locking forwards, to the back and laterally

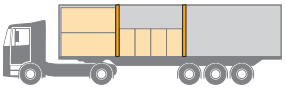


Fig. 5:

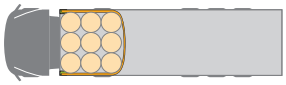


Fig. 6: Forward lashing

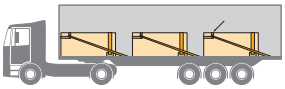


Fig. 7: Load secured using positive locking with head nooses

Load restraint by means of positive locking is where the load is tightly packed towards a part of the vehicle such as the headboard. As a result, there is no room for movement.

The simplest case is shown in Figure 1, where the load space is completely filled with stable load units.

Figure 2 shows positive locking to the front and side using the vehicle body and to the back using shoring poles.

Figure 3 shows positive locking with shoring poles to the front and to the back. This is especially desirable when large blocking forces are needed. There is no force exerted on the front wall in the direction of movement.

Figure 4 illustrates positive locking to the back using shoring poles (horizontal and vertical). The gap allows further positive locking to the front using horizontal shoring poles.

Positive locking can also be achieved with different load heights with-help of shoring poles as shown in Figure 5.

Shoring poles are usually used to secure loads with positive locking. Figures 6 and 7 show positive locking using lashing straps.

The spring lashing shown in Figure 7 can also be used to build an artificial front wall, for example with an upright pallet in front of the load, which is then strapped to the back.

The symbols used below, along with the graphics are part of the EN 12195.

F_z = Weight
m = Mass
$F_{x,y}$ = Mass force forward, rearward or laterally
$c_{x,y}$ = lateral, forwards or rearward acceleration
μ = Friction value
F_S = Securing force
F_F = Friction
BC = Blocking force shoring beams
X = Number of shoring beams

Simplified formula for calculating securing force

Rearward inertia

$F_{x,y} = c_{x,y} \cdot F_Z$
$F_{x,y}$ = 0.5 · 4000 daN = 2000 daN

Friction force

$F_F = \mu \cdot F_Z$
F_F = 0.25 · 4000 daN = 1000 daN

Required securing force

$F_S = F - F_R$
F_S = 2 000 daN - 1 000 daN = 1 000 daN

$$X = \frac{F_S}{BC} = \frac{1\,000\ daN}{1\,000\ daN} = 1 \text{ shoring beam BC } 1\,000 \text{ daN}$$

$$X = \frac{F_S}{BC} = \frac{1\,000\ daN}{500\ daN} = 2 \text{ shoring beams BC } 500 \text{ daN}$$

Calculation

In addition to the specified friction (FF = FZ · μ), the blocking capacity BC of the load restraint counteracts the inert mass. The system is balanced, i.e. the cargo does not slide, if:
$BC > (c_{x,y} - \mu)\ m \cdot g$

How to determine possible load weights

Using the blocking force of the shoring poles and beams (information on sticker), the following load weights can be secured for vehicles with maximum permissible weight (MPW) > 3.5 t: The load should be secured laterally and towards the rear with 0.5 g. With a load of 4.0 tons and a friction value of μ = 0.25, the following sample calculation is the result (gravity is rounded to 10 for simplification): with BC 1000 daN, a 4000 kg load can be secured towards the rear and laterally.

Faktor 4 shoring elements are labeled with BC (blocking force in daN) in accordance with EN 12 195-1.

Put simply, by using the formula "BC times 4= load weight" most common loads are sufficiently secured towards the sides and the back with our Faktor 4 products.

„BC times 2 = Load weight" secures loads sufficiently towards the front.

Practical examples of positive locking

KIM for horizontal and vertical use

KIM is used horizontally in box vans in the sidewall tracks. Vertically, KIM can be used in box or curtainsider vehicles. For this purpose, KIM is fitted into the floor track next to the load. With help of the pull strap, the spring-loaded end is then fitted into the roof track. The spring-loaded end should always be placed in the roof track whereas it could spring out of the floor tracks.



KIM 44 Pro is the only shoring pole that can be used vertically and horizontally in a transporter.

KIM 55 with a BC of 500 daN x 4 gives you 2000 kg rear or lateral load restraint

KAT for horizontal restraint

KAT Combi beams are locked into the Combi tracks by releasing the locking device, found at each end of the beam. To release the beam, simply unlock the locking device- on one side.
By lowering the beam on one side the opposite side unlocks and the beam can be easily removed.



KAT is also available for keyhole tracks.

KAT Combi with its BC 800 daN x 4 is able to restrain 3200 kg towards the back.

PAT the high-strength beam for curtainsiders



PAT can be attached to longitudinal laths, and drop boards. By applying slight pressure, PAT's closures tilt into the laths and create positive locking.

PAT 1000 with its BC 1000 daN x 4 is able to restrain 4000 kg towards the back.

AJS System for securing loads in curtainsiders

Loads that are difficult to secure, such as bulky packages, Big Bags, octabins etc,. can be safely secured by means of positive locking with the AJS system.

AJS lashing profiles are mounted laterally between the pillars. The load is then secured laterally with KAT AJS beams.



This system is great for loading and unloading partial loads.

KAT AJS with its BC 2000 daN x 4 is able to restrain 8000 kg towards the back.

Load restraint for LCV



For better control over the vehicle and to comply with weight distribution regulations, cargo should be loaded towards the back and in the middle of the floor surface.

Our solution is placing the load between four specially designed KIM 5x7 Profi beams which restrain the load from the front and the back. The beams are placed as close to the goods as possible. The beams are fitted vertically into roof and floor tracks which creates positive locking.



Depending on the load, KIM 44 elements are inserted between the shoring beams.
Lateral restraint is provided by lashing straps, which can be connected to the Airline track on the KIM 5x7 Profi beam.

The patented load securing system is tested and certified in compliance with VDI 2700 for vehicles up to 3.5t MPW.

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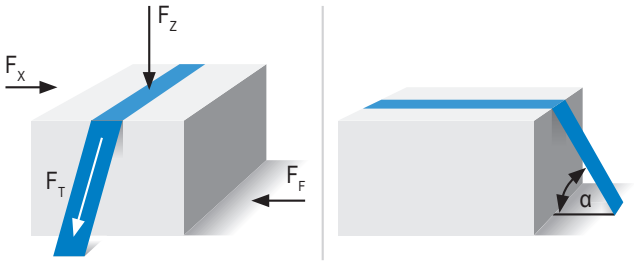
Load restraint using force locking

The symbols, units and terms used are in compliance with DIN EN 12195:

$F_{X,Y}$ = Mass force of load towards the front, back and sides
F_z = Weight (normal force)
F_T = Tension force lashing device
F_F = Friction force
$c_{X,Y}$ = Front, rear or lateral acceleration
μ = Friction coefficient
sin α = Angle
STF = Standard tension force lashing strap
mGVM = Gross vehicle mass

Friction force F_F can be increased for example by top-over lashing. The load is balanced, meaning the load can not slide if the following applies:

Sum $F_F > F_X$, with sum $F_F = (F_Z + F_T) \cdot \mu$.



Simple calculation of necessary tension force for load securing with top-over-lashing at a 90° angle:

$$\text{Standard tension force } F_T = \frac{F_Z \cdot (c_{X,Y} - \mu)}{\mu}$$

Calculation for number of straps required:

$$\text{Number of straps} = \frac{F_T}{2 \cdot STF}$$

Example: mGVM 20.000 kg, friction coefficient μ = 0.25, load weight 4000 kg, restraint in direction of travel, over-lashing at 90° angle, standard tension force STF = 500 daN:
$F_T = 4000 \cdot (0.8 - 0.25) : 0.25 = 8800$ daN
Number of straps needed = 8800 daN / (2 · 500 daN) = 9

Calculation of necessary tension force for load restraint with top-over lashing at <90° angle (α):

$$\text{Number of straps required} = \frac{F_Z \cdot (c_{X,Y} - \mu)}{F_T \cdot 2 \cdot \mu \cdot \sin \alpha}$$

Example: Friction coefficient μ = 0.25, load weight 4000 kg, restraint in direction of travel, over-lashing at 60° angle:

$$11 \text{ Straps} = \frac{4000 \cdot (0.8 - 0.25)}{500 \cdot 2 \cdot 0{,}25 \cdot \sin 60°}$$

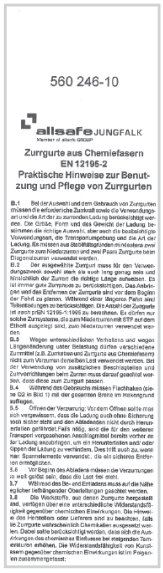
The friction coefficient between load and vehicle floor surface can be increased with force locking. The friction force can be increased with top-over-lashing or equipment that increases friction (e.g. friction mats). With stable loads this should be increased until the load is no longer able to slide, taking accelerating factors into account.

The standard tension force, not the lashing capacity of the strap, is relevant for the calculation of the number of straps needed!

To calculate the number of straps required, information about the strap itself and the load is required.

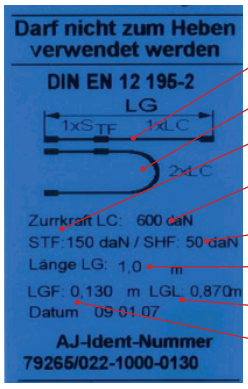
This information can be found on the label.

A standard tension force STF of 500 daN is displayed on the label of the „Ergo long-lever ratchet strap“. To achieve this 500 daN standard tension force (STF) in the ratchet, a manual force (SHF) of 50 daN has to be applied.


560 246-10
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Zurrgurte aus Chemiefasern
EN 12195-2
Praktische Hinweise zur Benutzung und Pflege von Zurrgurten

In addition to practical instructions, indications of the need to replace components can be found. Potential damage which can occur to the strap can be taken from the label. The strap can be used as long as it does not show signs of the potential damages listed.

To calculate the number of straps required, information about the strap itself and the load is required. This information is always on the label.



Direct tension symbol
Strapping symbol
STF = Standard tension force
Lashing force LC = load capacity with direct tension
SHF= manual force
Length LG
Length LGL = loose
Length LGF = fixed

Label (blue label)

Practical examples of friction restraint



Load restraint with straps

When top-over lashing is used, the load is pressed against the floor. The pressure increases the friction force. This prevents the load from sliding.

Top-over-lashing is done with a lashing strap which is stretched over the top of the load. Together with the weight of the load, the lashing strap and the forces it exerts act on the load and the floor. To prevent the load from sliding, the tension forces and the weight of the load have to be coordinated. To increase the friction coefficient, the use of friction mats is recommended.



Ergo long handle ratchets in accordance with EN 12195-2

Product benefits at a glance:

- Easier to use thanks to the ergonomic principle: pulling rather than pushing is easier on the back and delivers more tension with less effort.
- Tensioning force: 500 daN with direct tension, 750 daN with strapping.
- As a comparison, a standard ratchet (e.g. item no. 71056) provides 250 daN with direct tension or 375 daN by strapping.
- The tensioning force increases the friction resistance between the load and platform bed.

Practical applications of friction/positive locking combined



TransSAFE®net – Load restraint net for individually packaged goods

The new TSN TransSAFE® net makes restraint of individual goods a breeze. When not in use, a net lift transports the net at the start position under the roof. The net can be stretched quickly and easily over the load from front to back.

The TSN is fixed with a strap that connects the net to the lashing point in the vehicle.

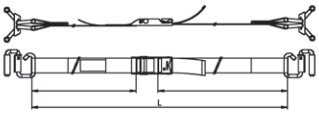
All straps can be handled from the side door or the rear door - awkward climbing around the load space is no longer necessary.

Annoying unraveling of the net is a thing of the past.









TexGrip® – Belt fitting for side walls

Product benefits at a glance:

- Secure fastening for smaller loads on 20 - 30 mm thick side rails, especially suitable for flatbed trucks.
- No anchor points or tracks needed, can be used anywhere.
- Simple handling allows for quick lashing: End fitting provides automatic restraint when locked.
- No damage to board walls thanks to rubber end fittings.
- Load capacity of the strapping 200 daN, length 3.6 m.

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Notice Regarding the Applicability of Our General Terms and Conditions of Sale

Our General Terms and Conditions of Sale, as of September 1, 2025, apply exclusively. These are available for viewing, saving, and printing at https://allsafe-group.com/en/avb. Upon request, we will provide them in writing at any time.
The version made available to the contracting party no later than the conclusion of the contract shall be decisive for the respective contract.

allsafe-group.com/en/avb

General Terms and Conditions of Sale and Delivery (GTCSS)
dated 1 September 2025

allsafe GmbH & Co. KG
Gerwigstraße
78234 Engen
Germany

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