

# Restraint Fittings





Best in class – allsafe provides only high quality fittings Made in Germany.

Our in-house production especially of various Tiedown Fitting products with single parts coming from certified sub suppliers in Germany makes the difference:

- highest safety level with computer controlled assembly process
- highest quality level with best corrosion protection because of e.g. high-grade stainless steel or ZnNi surface treatment; free of CrVI, REACH compliant
- 100% airworthiness and full traceability with batch tracking
- product know how and documentation state of the art; datasheet drawings and CAD models available
- short lead times, all parts made to order



**Tiedown Single Stud Fitting**



**Tiedown Triple Stud Fitting**

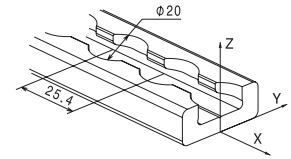


**Tiedown Double Stud Fitting with Ring**

# Restraint Fittings

Best in class: Sicherheit Made in Germany with computer controlled assembly and fulltrace ability. Different options make them custom-fit.

packaging units with 100 pcs.  
and 250 pcs. available



## Tiedown Single Stud Fitting



		Description	Material	Weight	Order code																																														
		Tiedown single stud Ultimate load: see table	Stud: ZnNi-plated Retainer: aluminium anodized Ring: stainless steel																																																
		<table border="1"> <thead> <tr> <th>D</th> <th>d</th> <th>H</th> <th>Ultimate load: *</th> <th>Remark</th> <th>Weight</th> <th>Order code</th> </tr> </thead> <tbody> <tr> <td rowspan="2">20</td> <td rowspan="2">4</td> <td rowspan="2">49.5</td> <td rowspan="2"> <math>F_x &gt; 8.9 \text{ kN} / 2000 \text{ lbf}</math>  <math>F_y &gt; 8.9 \text{ kN} / 2000 \text{ lbf}</math>  <math>F_{xz45^\circ} &gt; 8.9 \text{ kN} / 2000 \text{ lbf}</math>  <math>F_{yz45^\circ} &gt; 8.9 \text{ kN} / 2000 \text{ lbf}</math>  <math>F_z &gt; 8.9 \text{ kN} / 2000 \text{ lbf}</math> </td> <td></td> <td>36 grs.</td> <td>110500-10</td> </tr> <tr> <td>With hole for securing pin (SP)</td> <td>35 grs.</td> <td>110500-20</td> </tr> <tr> <td rowspan="2">29,5</td> <td rowspan="2">5</td> <td rowspan="2">61</td> <td rowspan="2"></td> <td></td> <td>41 grs.</td> <td>110501-10</td> </tr> <tr> <td>With hole for securing pin (SP)</td> <td>40 grs.</td> <td>110501-20</td> </tr> <tr> <td rowspan="2">35</td> <td rowspan="2">5</td> <td rowspan="2">66,5</td> <td rowspan="2"> <math>F_x &gt; 8.9 \text{ kN} / 2000 \text{ lbf}</math>  <math>F_y &gt; 8.9 \text{ kN} / 2000 \text{ lbf}</math>  <math>F_{xz45^\circ} &gt; 13.3 \text{ kN} / 3000 \text{ lbf}</math>  <math>F_{yz45^\circ} &gt; 13.3 \text{ kN} / 3000 \text{ lbf}</math>  <math>F_z &gt; 17.8 \text{ kN} / 4000 \text{ lbf}</math> </td> <td></td> <td>45 grs.</td> <td>110502-10</td> </tr> <tr> <td>With hole for securing pin (SP)</td> <td>44 grs.</td> <td>110502-20</td> </tr> <tr> <td rowspan="2">45</td> <td rowspan="2">5</td> <td rowspan="2">76,5</td> <td rowspan="2"></td> <td></td> <td>53 grs.</td> <td>110503-10</td> </tr> <tr> <td>With hole for securing pin (SP)</td> <td>52 grs.</td> <td>110503-20</td> </tr> </tbody> </table>	D	d	H	Ultimate load: *	Remark	Weight	Order code	20	4	49.5	$F_x > 8.9 \text{ kN} / 2000 \text{ lbf}$ $F_y > 8.9 \text{ kN} / 2000 \text{ lbf}$ $F_{xz45^\circ} > 8.9 \text{ kN} / 2000 \text{ lbf}$ $F_{yz45^\circ} > 8.9 \text{ kN} / 2000 \text{ lbf}$ $F_z > 8.9 \text{ kN} / 2000 \text{ lbf}$		36 grs.	110500-10	With hole for securing pin (SP)	35 grs.	110500-20	29,5	5	61			41 grs.	110501-10	With hole for securing pin (SP)	40 grs.	110501-20	35	5	66,5	$F_x > 8.9 \text{ kN} / 2000 \text{ lbf}$ $F_y > 8.9 \text{ kN} / 2000 \text{ lbf}$ $F_{xz45^\circ} > 13.3 \text{ kN} / 3000 \text{ lbf}$ $F_{yz45^\circ} > 13.3 \text{ kN} / 3000 \text{ lbf}$ $F_z > 17.8 \text{ kN} / 4000 \text{ lbf}$		45 grs.	110502-10	With hole for securing pin (SP)	44 grs.	110502-20	45	5	76,5			53 grs.	110503-10	With hole for securing pin (SP)	52 grs.	110503-20		
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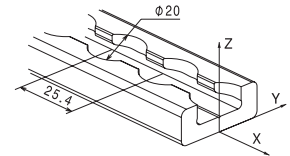
\* when installed in heavy duty track according to AS33601, loads applied individually


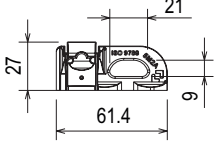

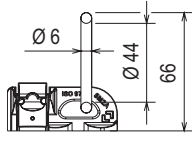

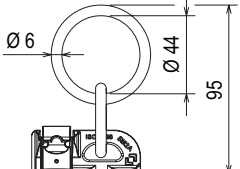

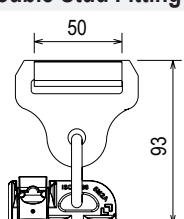

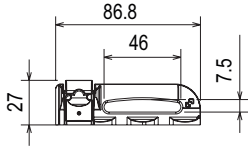


packaging units with  
100 pcs. available

# Restraint Fittings

High ultimate load meets various attachment opportunities. International standard gives you confidence in choosing the right basic design for your application. High quality with fulltrace ability.

## ► Tiedown Double and Triple Stud Fitting

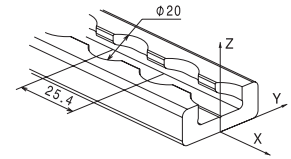


		Description	Material	Weight	Order code
		Tiedown double stud fitting ISO 9788 with hole for securing pin (SP) Ultimate load: * > 22.2 kN / 5000 lbf any direction	Steel, ZnNi-plated	102 grs.	110600-10
		Tiedown double stud fitting with ring d = 44/6.5 with hole for securing pin (SP) Ultimate load: * > 22.2 kN / 5000 lbf any direction	Steel, ZnNi-plated Ring: stainless steel	137 grs.	110601-10
		Tiedown double stud fitting with link and ring with hole for securing pin (SP) Ultimate load: * > 22.2 kN / 5000 lbf any direction	Steel, ZnNi-plated Rings: stainless steel	164 grs.	110602-10
		Tiedown double stud fitting with chain link and plate with hole for securing pin (SP) Ultimate load: * > 22.2 kN / 5000 lbf any direction	Steel, ZnNi-plated Ring: stainless steel	196 grs.	110603-10
		Tiedown triple stud fitting with hole for securing pin (SP) Ultimate load: * $F_x > 25 \text{ kN} / 5600 \text{ lbf}$ $F_y > 25 \text{ kN} / 5600 \text{ lbf}$ $F_{xz} 45^\circ > 25 \text{ kN} / 5600 \text{ lbf}$ $F_{yz} 45^\circ > 35 \text{ kN} / 7850 \text{ lbf}$ $F_z > 35 \text{ kN} / 7850 \text{ lbf}$	Steel, ZnNi-plated	139 grs.	110650-10
		<b>Splint for use as securing pin (SP)</b>			160149
		To lock retainer of single and double stud fittings ISO 1234	Stainless steel	2 grs.	
		<b>R-clip for use as securing pin (SP)</b>			160150
		To lock retainer of single and double stud fittings DIN 11024	Stainless steel	7 grs.	

\* when installed in heavy duty track according to AS33601

# Restraint Fittings

Choose hook for different applications. All made of aluminium alloy.



## Special Fittings

	Description	Material	Weight	Order code
	<b>Anti Shingle Device</b>  Anti shingle device Ultimate load: * $F_y > 22.2 \text{ kN} / 5000 \text{ lbf}$	Malleable cast iron, zinc-plated	285 grs.	110651-10

\* when installed in heavy duty track according to AS33601

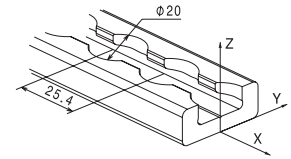
## Aluminium Hooks

	Description	Material	Weight	Order code
	<b>Hook</b>  Hook Ultimate load: ** $> 8.0 \text{ kN} / 1800 \text{ lbf}$	Aluminium, mill finish	28 grs.	75006 A
	<b>Snap Hook</b>  Snap hook Ultimate load: ** $> 11.5 \text{ kN} / 2584 \text{ lbf}$	Aluminium, mill finish	43 grs.	75008
	<b>Hook</b>  Hook $D = 8 \text{ mm}$ Ultimate load: ** $> 6.7 \text{ kN} / 1500 \text{ lbf}$	Aluminium anodized	8 grs.	75532


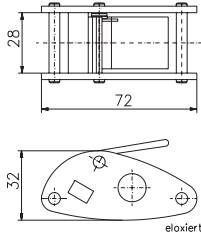

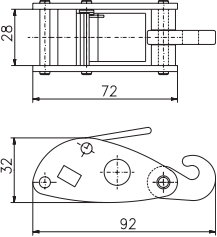

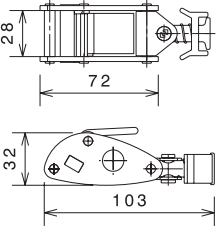
\*\* when used with appropriate webbing

# Restraint Fittings

To be sewed on a strap or directly fitted into airline track – available for all applications, strong, lightweight and easy to use.



## Cam Buckles

	Description	Material	Weight	Order code
 	<b>Cam Buckle Anodized</b>  Cam buckle anodized Ultimate load: * > 8.9 kN / 2000 lbf	Body and lever: aluminium, anodized	80 grs.	75003
 	<b>Cam Buckle with Hook</b>  Cam buckle with hook Ultimate load: * > 6.7 kN / 1500 lbf	Body, lever and hook: aluminium, anodized	92 grs.	75004
 	<b>Cam Buckle with Single Stud</b>  Cam buckle with single stud Ultimate load: * > 7.1 kN / 1600 lbf	Frame: aluminium, anodized Stud: galv. steel Retainer: aluminium	123 grs.	75005

\* when used with appropriate webbing

Seat Track Fittings