

# BLIND RIVETS **ALU/STEEL**

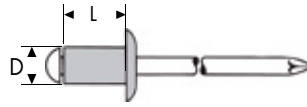
## Standard Dome head

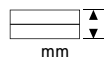







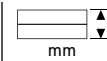





Aluminium alloy




Steel, zinc-plated



D	D x L mm	 mm	No.	
<b>2.4</b>  2.5 mm	<b>2.4 x 4</b>	0.5 - 2.0	<b>145 4019</b>	A 1,000
	<b>2.4 x 6</b>	1.5 - 3.5	<b>143 3464</b>	A 1,000
	<b>2.4 x 8</b>	4.0 - 6.0	<b>145 4020</b>	A 1,000
<b>3</b>  3.1 mm	<b>3 x 4</b>	0.5 - 1.5	<b>143 3466</b>	A 500
	<b>3 x 5</b>	1.5 - 2.5	<b>143 3467</b>	A 500
	<b>3 x 6</b>	2.5 - 3.5	<b>143 3468</b>	A 500
	<b>3 x 7</b>	3.5 - 4.5	<b>143 3469</b>	A 500
	<b>3 x 8</b>	4.5 - 5.0	<b>143 3470</b>	A 500
	<b>3 x 10</b>	5.0 - 7.0	<b>143 3471</b>	A 500
	<b>3 x 12</b>	7.0 - 9.0	<b>143 3472</b>	A 500
	<b>3 x 14</b>	9.0 - 11.0	<b>145 4022</b>	A 500
	<b>3 x 16</b>	11.0 - 13.0	<b>145 4023</b>	A 500
	<b>3 x 18</b>	13.0 - 15.0	<b>145 4024</b>	A 250
	<b>3 x 20</b>	15.0 - 17.0	<b>145 4025</b>	A 250
	<b>3 x 25</b>	17.0 - 22.0	<b>143 3473</b>	A 250
	<b>3 x 30</b>	22.0 - 26.0	<b>145 4026</b>	A 250
<b>3.2</b>  3.3 mm	<b>3.2 x 4</b>	0.5 - 1.5	<b>143 3475</b>	A 500
	<b>3.2 x 6</b>	1,5 - 3,5	<b>143 3476</b>	A 500
	<b>3.2 x 8</b>	3.5 - 5.0	<b>143 3477</b>	A 500
	<b>3.2 x 10</b>	5.0 - 7.0	<b>143 3478</b>	A 500
	<b>3.2 x 12</b>	7.0 - 9.0	<b>143 3479</b>	A 500
	<b>3.2 x 14</b>	9.0 - 11.0	<b>143 3465</b>	A 500
	<b>3.2 x 16</b>	11.0 - 13.0	<b>143 3480</b>	B 500
	<b>3.2 x 18</b>	13.0 - 15.0	<b>143 3483</b>	B 500
	<b>3.2 x 20</b>	15.0 - 17.0	<b>143 3481</b>	B 500
	<b>3.2 x 25</b>	17.0 - 22.0	<b>143 3482</b>	B 500
	<b>4</b>  4.1 mm	<b>4 x 5</b>	0.5 - 1.5	<b>143 3484</b>
<b>4 x 6</b>		1.5 - 3.0	<b>143 3485</b>	A 500
<b>4 x 7</b>		3.0 - 4.0	<b>145 4028</b>	A 500
<b>4 x 8</b>		4.0 - 5.0	<b>143 3486</b>	A 500
<b>4 x 10</b>		5.0 - 6.5	<b>143 3487</b>	A 500
<b>4 x 12</b>		6.5 - 8.5	<b>143 3488</b>	B 500
<b>4 x 14</b>		8.5 - 10.5	<b>145 4029</b>	B 500
<b>4 x 16</b>		10.5 - 12.5	<b>145 4030</b>	B 500
<b>4 x 18</b>		12.5 - 14.5	<b>145 4031</b>	B 500
<b>4 x 20</b>		14.5 - 16.5	<b>145 4032</b>	B 500
<b>4 x 25</b>		16.5 - 21.5	<b>145 4033</b>	B 500
<b>4 x 30</b>		21.5 - 26.0	<b>145 4034</b>	B 250
<b>4 x 35</b>		26.0 - 30.0	<b>145 4035</b>	B 250
<b>4 x 40</b>		30.0 - 35.0	<b>145 4036</b>	B 250

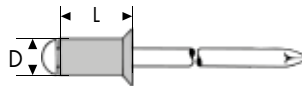
D	D x L mm	 mm	No.	
<b>4.8</b>  4.9 mm	<b>4.8 x 6</b>	2.0 - 2.5	<b>143 3493</b>	B 500
	<b>4.8 x 8</b>	2.5 - 4.5	<b>143 3494</b>	B 500
	<b>4.8 x 10</b>	4.5 - 6.0	<b>143 3495</b>	B 500
	<b>4.8 x 12</b>	6.0 - 8.0	<b>143 3496</b>	B 500
	<b>4.8 x 14</b>	8.0 - 10.0	<b>145 4043</b>	B 500
	<b>4.8 x 16</b>	10.0 - 12.0	<b>143 3497</b>	B 500
	<b>4.8 x 18</b>	12.0 - 14.0	<b>145 4044</b>	B 500
	<b>4.8 x 20</b>	14.0 - 15.0	<b>145 4045</b>	B 250
	<b>4.8 x 25</b>	15.0 - 20.0	<b>143 3498</b>	B 250
	<b>4.8 x 30</b>	20.0 - 25.0	<b>143 3499</b>	A 100
<b>5</b>   5.1 mm	<b>5 x 6</b>	2.0 - 2.5	<b>143 3500</b>	B 500
	<b>5 x 8</b>	2.5 - 4.5	<b>143 3501</b>	B 500
	<b>5 x 10</b>	4.5 - 6.0	<b>143 3502</b>	B 500
	<b>5 x 12</b>	6.0 - 8.0	<b>143 3503</b>	B 500
	<b>5 x 14</b>	8.0 - 10.0	<b>145 4048</b>	B 500
	<b>5 x 16</b>	10.0 - 12.0	<b>143 3504</b>	B 500
	<b>5 x 18</b>	12.0 - 14.0	<b>145 4049</b>	B 500
	<b>5 x 20</b>	14.0 - 15.0	<b>145 4050</b>	B 250
	<b>5 x 25</b>	15.0 - 20.0	<b>143 3505</b>	B 250
	<b>5 x 30</b>	20.0 - 25.0	<b>145 4051</b>	A 100
	<b>5 x 35</b>	25.0 - 30.0	<b>145 4052</b>	A 100
	<b>5 x 40</b>	30.0 - 35.0	<b>145 4053</b>	A 100
	<b>5 x 45</b>	35.0 - 40.0	<b>145 4054</b>	B 100
	<b>5 x 50</b>	40.0 - 45.0	<b>145 4055</b>	B 100
	<b>5 x 55</b>	45.0 - 48.0	<b>145 4056</b>	B 100
	<b>5 x 60</b>	48.0 - 52.0	<b>145 4057</b>	B 100
	<b>5 x 65</b>	52.0 - 57.0	<b>145 4058</b>	B 100
	<b>5 x 70</b>	57.0 - 62.0	<b>145 4059</b>	B 100
	<b>5 x 80</b>	62.0 - 72.0	<b>143 3506</b>	B 100
	<b>6</b>  6.1 mm	<b>6 x 8</b>	2.0 - 3.0	<b>145 4060</b>
<b>6 x 10</b>		3.0 - 5.0	<b>145 4061</b>	B 250
<b>6 x 12</b>		5.0 - 7.0	<b>145 4062</b>	B 250
<b>6 x 16</b>		7.0 - 11.0	<b>143 3507</b>	B 250
<b>6 x 18</b>		11.0 - 13.0	<b>145 4064</b>	B 250
<b>6 x 20</b>		13.0 - 15.0	<b>145 4065</b>	B 250
<b>6 x 25</b>		15.0 - 20.0	<b>145 4066</b>	B 200
<b>6 x 30</b>		20.0 - 24.0	<b>145 4067</b>	B 200
<b>6 x 35</b>		24.0 - 29.0	<b>145 4068</b>	B 100
<b>6 x 40</b>		29.0 - 34.0	<b>145 4069</b>	B 100
<b>6 x 50</b>	34.0 - 44.0	<b>143 3508</b>	B 100	





# BLIND RIVETS **ALU/STEEL**




D	D x L mm	 mm	No.	
<b>6.4</b>  6.5 mm	<b>6.4 x 12</b>	2.0 - 6.0	<b>145 4070</b>	B 250
	<b>6.4 x 16</b>	6.0 - 10.0	<b>145 4072</b>	"
	<b>6.4 x 20</b>	10.0 - 14.0	<b>145 4073</b>	B 200
	<b>6.4 x 25</b>	14.0 - 18.0	<b>145 4074</b>	"
	<b>6.4 x 30</b>	18.0 - 23.0	<b>145 4075</b>	B 100

## Countersunk (120°)

 Aluminium alloy     Steel, zinc-plated



D	D x L mm	 mm	No.	
<b>3</b>  3.1 mm	<b>3 x 6</b>	1.5 - 3.5	<b>145 4078</b>	A 500
	<b>3 x 8</b>	3.5 - 5.0	<b>143 3509</b>	"
	<b>3 x 10</b>	5.0 - 7.0	<b>143 3510</b>	"
	<b>3 x 12</b>	7.0 - 9.0	<b>145 4079</b>	"
	<b>3 x 16</b>	9.0 - 13.0	<b>145 4080</b>	"
<b>4</b>  4.1 mm	<b>4 x 6</b>	1.5 - 3.0	<b>145 4081</b>	A 500
	<b>4 x 8</b>	3.0 - 5.0	<b>143 3512</b>	"
	<b>4 x 10</b>	5.0 - 6.5	<b>145 4082</b>	"
	<b>4 x 12</b>	6.5 - 8.5	<b>143 3513</b>	B 500
	<b>4 x 16</b>	10.5 - 12.5	<b>143 3514</b>	"
<b>4 x 20</b>	14.5 - 16.5	<b>145 4083</b>	"	

D	D x L mm	 mm	No.	
<b>5</b>  5.1 mm	<b>5 x 8</b>	2.0 - 4.5	<b>143 3515</b>	B 500
	<b>5 x 10</b>	4.5 - 6.0	<b>143 3516</b>	"
	<b>5 x 12</b>	6.0 - 8.0	<b>145 4085</b>	"
	<b>5 x 16</b>	8.0 - 12.0	<b>145 4086</b>	"
	<b>5 x 18</b>	12.0 - 14.0	<b>145 4084</b>	"
	<b>5 x 20</b>	14.0 - 15.0	<b>145 4087</b>	B 250
	<b>5 x 25</b>	15.0 - 20.0	<b>143 3517</b>	"
	<b>5 x 30</b>	20.0 - 25.0	<b>145 4088</b>	A 100
	<b>5 x 35</b>	25.0 - 30.0	<b>145 4089</b>	"



The information on shear and tensile strength, rivet pin diameters and the maximum setting head diameters can be found on **page 22**.

# BLIND RIVETS **ALU/STEEL**

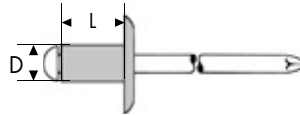
## Large flange












Aluminium alloy



Steel, zinc-plated





D	D x L mm	 mm	No.	
<b>3.2 - K 9.5</b>  3,3 mm	<b>3.2 x 8</b>	3.5 - 5.0	<b>145 4091</b>	"
	<b>3.2 x 10</b>	5.0 - 7.0	<b>145 4092</b>	"
	<b>3.2 x 12</b>	7.0 - 9.0	<b>145 4093</b>	"
	<b>3.2 x 16</b>	9.0 - 13.0	<b>145 4094</b>	B 500
<b>4 - K 12</b>  4.1 mm	<b>4 x 6</b>	1.5 - 3.0	<b>145 4095</b>	B 500
	<b>4 x 8</b>	3.0 - 5.0	<b>143 3518</b>	"
	<b>4 x 10</b>	5.0 - 6.5	<b>145 4096</b>	"
	<b>4 x 12</b>	6.5 - 8.5	<b>145 4097</b>	"
	<b>4 x 16</b>	8.5 - 12.5	<b>145 4098</b>	"
	<b>4 x 20</b>	12.5 - 16.5	<b>145 4099</b>	B 250
<b>4.8 - K 16</b>  4.9 mm	<b>4.8 x 8</b>	2.5 - 4.5	<b>145 4106</b>	B 250
	<b>4.8 x 10</b>	4.5 - 6.0	<b>145 4107</b>	"
	<b>4.8 x 12</b>	6.0 - 8.0	<b>143 3519</b>	"
	<b>4.8 x 16</b>	8.0 - 12.0	<b>145 4109</b>	"
	<b>4.8 x 20</b>	12.0 - 15.0	<b>145 4111</b>	"
	<b>4.8 x 25</b>	15.0 - 20.0	<b>143 3520</b>	"

D	D x L mm	 mm	No.	
<b>5 - K 11</b>  5.1 mm CE	<b>5 x 8</b>	2.5 - 4.5	<b>143 3521</b>	B 500
	<b>5 x 10</b>	4.5 - 6.0	<b>145 4116</b>	"
	<b>5 x 12</b>	6.0 - 8.0	<b>143 3522</b>	"
	<b>5 x 14</b>	8.0 - 10.0	<b>145 4115</b>	"
	<b>5 x 16</b>	10.0 - 12.0	<b>145 4117</b>	"
	<b>5 x 18</b>	12.0 - 14.0	<b>145 4113</b>	B 250
	<b>5 x 20</b>	14.0 - 15.0	<b>145 4118</b>	"
	<b>5 x 25</b>	15.0 - 20.0	<b>145 4119</b>	"
	<b>5 x 30</b>	20.0 - 25.0	<b>145 4120</b>	B 100
	<b>5 - K 14</b>  5.1 mm CE	<b>5 x 8</b>	2.5 - 4.5	<b>143 3523</b>
<b>5 x 10</b>		4.5 - 6.0	<b>145 4121</b>	"
<b>5 x 12</b>		6.0 - 8.0	<b>143 3524</b>	"
<b>5 x 14</b>		8.0 - 10.0	<b>145 4122</b>	"
<b>5 x 16</b>		10.0 - 12.0	<b>145 4123</b>	"
<b>5 x 18</b>		12.0 - 14.0	<b>145 4124</b>	"
<b>5 x 20</b>		14.0 - 15.0	<b>145 4125</b>	"
<b>5 x 25</b>		15.0 - 20.0	<b>145 4126</b>	"
<b>5 x 30</b>		20.0 - 25.0	<b>145 4127</b>	B 100

## SHEAR AND TENSILE STRENGTH ALU/STEEL standard, counter sunk and large flange

### STANDARD

D mm	N 	N 	d <sub>m</sub> mm	max. d <sub>k</sub> mm
2.4	350	450	1.45	5.0
3	700	900	1.8	6.5
3.2	720	950	1.95	6.5
4 x 5-25	1,400	2,000	2.1	8.0
4 x 30-40 ■	850	1,000	2.1	8.0
4.8	1,800	2,700	2.7	9.5
5 x 6 - 35	2,000	2,800	2.7	9.5
5 x 40 - 80	1,400	2,000	2.7	9.5
6	3,100	3,800	3.2	12.0
6.4	3,400	4,600	3.65	13.0

■ Rivet body: AlMgSi

Test procedure according to DIN EN ISO 14589

### COUNTER SUNK AND LARGE FLANGE

3	700	900	1.8	6.0
4	1,400	2,000	2.1	7.5
5	2,000	2,800	2.7	9.0
3.2 K 9.5 nur Alu/Stahl	720	950	1.95	9.5
4 K 12 nur Alu/Stahl	1,400	2,000	2.1	12.0
4.8 K 16 nur Alu/Stahl	1,800	2,700	2.7	16.0
5 K 11	2,000	2,800	2.7	11.0
5 K 14	2,000	2,800	2.7	14.0