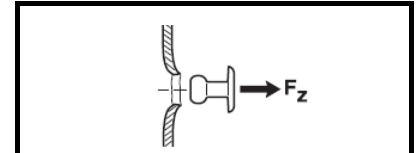


PolyGrip-ASO-D-48 PolyGrip-ATO-D-48

Rivet body $\varnothing = 4,8$ mm
Predrill $\varnothing = 4,9$ mm



Pull-out load F_z (N)



Part II (blind side)			Part I (setting side)			Test results (N)		
Material grade	$R_{m,min}$	t_{II} (mm)	Material grade	t_I (mm)	KL in mm	$F_{z,avg}$	s	R_k
Steel Sheet								
S350 GD	420 N/mm ²	0.50				846	15	660
S235	390 N/mm ²	0.75				1490	17	1196
S320 GD	390 N/mm ²	1.00				2193	32	1732
Aluminum Sheet								
AlMg3 1/4 hart	220 N/mm ²	0.60				510	17	403
AlMg3 1/4 hart	220 N/mm ²	0.70				656	20	501
PE300 1/4 hart	220 N/mm ²	0.80				1223	23	710
PE300 1/2 hart	240 N/mm ²	1.00				1288	42	980

Materials

Fastener:

Rivet body:

Aluminum EN AW-AlMg2.5

Mandrel:

Stainless steel A2

1.4541 or

steel, zinc plated

Metal sheet:

Steel & aluminum

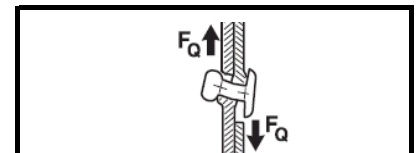
Head type:

Dome head

$\varnothing = 9,5$ mm

Shear load F_q (N)

$F_{q,avg}$ is measured between a displacement of max 3 mm



Part II (blind side)			Part I (setting side)			Test results (N)		
Material grade	$R_{m,min}$	t_{II} (mm)	Material grade	t_I (mm)	KL in mm	$F_{q,avg}$	s	R_k
Steel Sheet			Steel					
S350GD	420 N/mm ²	0.50	S355	4.00	4.50	1477	48	1117
S350GD	420 N/mm ²	0.63	S235	7.50	8.13	1575	23	1256
S320GD	390 N/mm ²	0.75	S235	7.50	8.25	1696	42	1323
S350GD	420 N/mm ²	1.00	S235	7.50	8.50	1936	60	1476
Aluminum Sheet								
AlMg3 1/4 hart	220 N/mm ²	0.50	S235	4.00	4.50	1020	25	773
AlMg3 1/4 hart	220 N/mm ²	0.60	S235	7.50	8.10	1142	21	935
PE300 1/4 hart	220 N/mm ²	0.80	S235	7.50	8.30	1696	27	990
PE300 1/4 hart	240 N/mm ²	1.00	S235	7.50	8.50	1885	37	1474

Variable description:

$R_{m,min}$ = is the minimum standard tensile strength of Part II

t = is the nominal steel thickness of Part I or II

$F_{z,avg}$ = arithmetic mean values of test result

s = is the standard deviation

R_k = is the characteristic resistance of fastenings according to the EN requirements



PolyGrip-ASO-D-48
PolyGrip-ATO-D-48

Rivet body $\varnothing = 4,8$ mm
 Predrill $\varnothing = 4,9$ mm

Materials

Fastener:

Rivet body:

Aluminum EN AW-AMg2.5

Mandrel:

Stainless steel A2

1.4541

steel, zinc plated

Metal sheet:

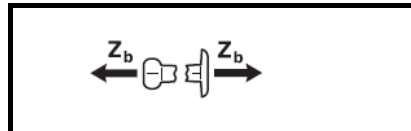
Steel & aluminum

Head type:

Dome head

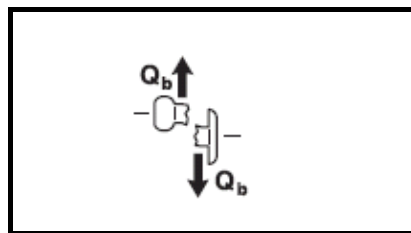
$\varnothing = 9,5$ mm

Tensile breaking load Z_b (N)



$Z_b \geq 2.300$ N

Shear breaking load Q_b (N)



$Q_b \geq 1.500$ N

All calculations, measurements, fasteners and design methods have to be verified by a responsible designer or engineer, regarding the corresponding structure and load. Please consult your national norms and approvals.