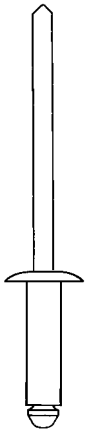


AP 11



AP11
Ø 5,0xL

Admission
DIBt

AP11
Z-31.1-56

Material

Sleeve:

AlMg5

Mandrel:

stainless steel A3

Material number 1.4541

Size

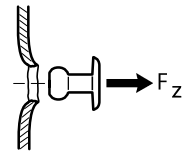
Shank:

Ø5 mm

Head:

Ø11 mm

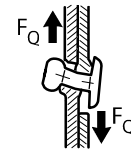
Pull-out load F_z (N)



Part II (Subconstruction)

Material	Thickness (mm)	\bar{x}	s	Pre drill-Ø (mm)
Alu (230 N/mm ²)	1,80	2340	60	5,1
St37	0,75	1230	53	
	1,20	2290	110	
	1,50	3382	43	

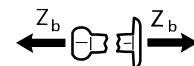
Shear load F_q (N)



Material	Thickness in mm		\bar{x}	s
	Part I	Part II		
Alu (230 N/mm ²)	12,00	1,80	2750	48
St37	12,00	0,75	2840	95

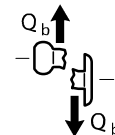
Shear load: Figures obtained with displacement of 3 mm between purlin and sheet.

Tensile breaking load Z_b (N)



\bar{x} = 3785
s = 36

Shear breaking load Q_b (N)



\bar{x} = 2384
s = 32

\bar{x} = arithmetical mean value
s = Standard deviation

All stated values are \bar{x} values, representing the arithmetical mean value from laboratory testing concluded up to now, appropriate safety margins should be applied for field conditions. Consult also your country's approval documents.