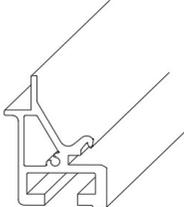


Solitaire base extrusion KS-P02-01

Systems

Technical Datasheet

The Solitaire base extrusion is the load-bearing element of System Solitaire KS-P02.

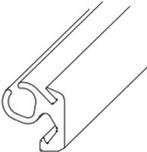


General			
Typical Properties		Units	Typical Value
Width		mm	36
Height		mm	48
Weight		Kg/m	1,3
Material			EN-AW6060
Surface Protection standard (others on demand)	anodisement E6/EV1	µm	20

Solitaire keder extrusion KS-P02-21

Technical Datasheet

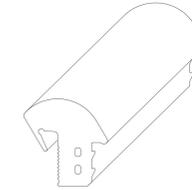
The Solitaire keder extrusion is used to fix the membrane at the System Solitaire KS-P02.



General			
Typical Properties		Units	Typical Value
Width		mm	20,4
Height		mm	23,3
Weight		Kg/m	0,47
Material			EN-AW6060
Surface Protection standard (others on demand)	anodisement E6/EV1	µm	20

Solitaire sealing rubber KS-P02-03

Systems



Technical Datasheet

The Solitaire sealing rubber is a solid rubber (sulfur cure system) with 80 ShA out of EPDM 80-S. It is used as sealing and protection between the secondary steel structure and the membrane. Following datasheet refers to the physical properties of EPDM 80-S.

Typical Properties	Test Method	Units	Typical Value
Density	DIN EN ISO 1183-1	g/cm ³	1,24
Colour			black
Hardness	DIN 53505	ShA	80 +/- 5
Tensile strength	DIN 53504	N/mm ²	10,8
Elongation at break	DIN 53504	%	190
Tear resistance	ISO 34-1	N/mm	5,0
Compression set (DVR)	DIN ISO 815	%	18
Weight		kg/m	0,4
Packaging unit		m	25

Solitaire safety screw KS-P02-04

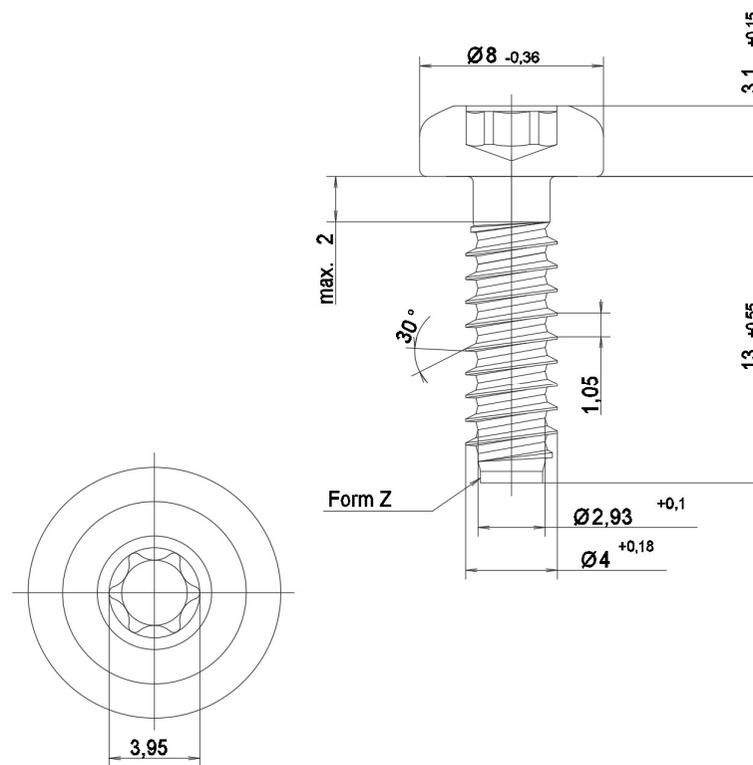
Systems

Technical Datasheet



The Solitaire safety screw is a PT Type DG screw. It is used at system Solitaire KS-P02 to connect the base extrusion with the blind extrusion.

Typical Properties	Test Method	Units	Typical Value
Material			A4
Weight		g	2,52
Dimensions			40x13-Z
Surface protection			uncoated
Drive size			TX 20



Solitaire attachment set KS-P02-05

Systems



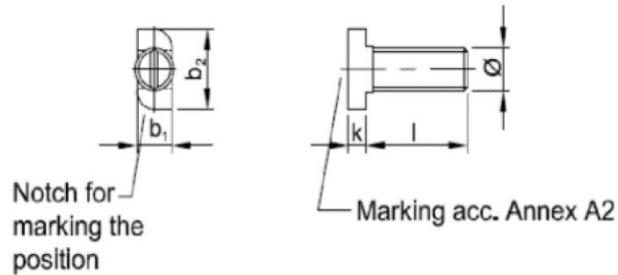
Technical Datasheet

The Solitaire attachment set includes a hammer head bolt, e.g. Halfen HS 28-15, a washer and a safety nut. It is used to attach the system Solitaire KS-P02 on the secondary structure.

Typical Properties	Standard	Material
Halfen HS 28-15	ETA-09/0339	A2-70 / A4-70
Washer	ISO 7089	A2 / A4
Safety nut	ISO 10511	A2 / A4

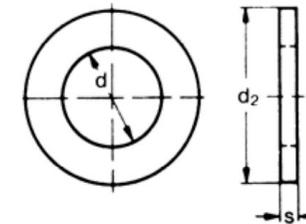
Halfen HS 28-15

HS	Thread ϕ	Width b_1 [mm]	Width b_2 [mm]	Thickness k [mm]	Length l [mm]
28/15	M10	10,1	22,73	4,5	20/25/30/35/40/45/50/ 55/60/65/70/75/80/ 100/125/150/200

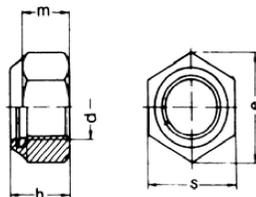


Washer

for Thread	d [mm]	d_2 [mm]	s [mm]
M10	10,5	20	2



Thread	d [mm]	s [mm]	e [mm]	m [mm]	h_{max} [mm]
M10	10	16	17,77	7	8,56

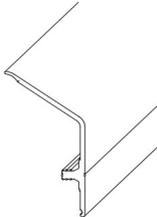


Solitaire blind extrusion KS-P02-06

Systems

Technical Datasheet

The Solitaire blind extrusion closes the System Solitaire KS-P02 on the outside.



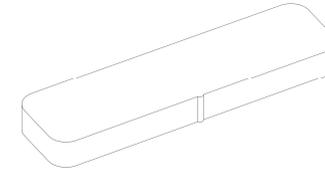
General			
Typical Properties		Units	Typical Value
Width		mm	30,1
Height		mm	57,1
Weight		Kg/m	0,42
Material			EN-AW6060
Surface Protection standard (others on demand)	anodisement E6/EV1	µm	20

Solitaire connection bar KS-P02-07

Systems

Technical Datasheet

The Solitaire connection bar avoids horizontal and vertical offsets at the straight extrusion joints of system Solitaire KS-P02.



MATERIAL : ALUMINIUM PLATES
 ALLOY : EN AW-6082
 LOT/DIMENSIONS (mm) : 70166155 - . 8X1250X2500
 . . .
 . . .
 ACCORDING TO : EN 485 - 515 - 573

TEMPER: T651

MECHANICAL PROPERTIES													1 MPa = 1 N/mm ² = 0.145 ksi = 0.102 kgf/mm ²		
1 lbs = 0.4536 kg						Rm		Rp0.2		Elong.%					
						MPa		MPa		50mm					
Specified values:						min.	max.	min.	max.	min.					
						300		255		9					
LOT / BATCH	CASE		NET WEIGHT		kg	Measured values:									
70166155 S16106070	513891		1106			307		276		12.5					
						309		282		12					
CHEMICAL COMPOSITION %															
BATCH	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	Al			
S16106070	1.03	0.47	0.065	0.64	0.94	0.15	0.009	0.036	0.014	0.01	0.02	REM. REM REM			
Acc. Standard	Min.	0.7		0.4	0.6							REM.			
	Max.	1.3	0.5	0.1	1	1.2	0.25	0.05	0.2	0.1	0.05	0.05			
Remarks:						Other- Each- Max.: 0.05			OthersTotal- Max.: 0.15						