

Uppgjord - Prepared	Datum - Date	Rev	Dokumentnr - Document no
ETX/U/MMK ETXAGBA	1996-11-15	B	1301-SBF 126 Uen
Godkänd - Approved	Kontr - Checked		Titel / referens - File / Reference
ETX/U/MMK (Ake Backlund)			EN/LZB 101 01/13BF1

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SCREW

Replaces 1301-SBF 126 Uen rev A SCREW

1 INFORMATION

This product specification consists of,

- a figure document 1/1301-SBF 126 Uen.
- b text document 1301-SBF 126 Uen.

2 GENERAL

This product specification includes screws type SBF 126.

3 APPLICATION

This product specification shall be applied for choice, purchase, manufacturing and inspection.

In case of difference between this product specification and the purchase order, the purchase order shall apply.

4 DESIGN

Six point socket pan head tapping screws with flat point.

- Thread: Tapping screw thread type ST-thread.
- Driving feature: TORX.
- Material: Steel.
- Heat treatment: Case-hardening.
- Surface treatment: See the headings Use, Treatment and Product list.

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5CORRESPONDING STANDARD

Design and dimensions according to Ericsson instruction.

Material according to Ericsson instruction.

Surface treatment according to Ericsson instruction.

6USE

This type of screw

- a is suitable for use in metal.
- b is not suitable for use in plastic.
- c is treated with our surface treatment MZY 302 40 zinc electroplating with yellow chromate treatment. Screws with this surface treatment shall always be selected in the first place. In the second place, you may select screws with other surface treatment.
- d is treated with our surface treatment MZY 302 41 zinc electroplating with bright chromate treatment. Screws with this surface treatment should only be used in products which are not exposed to corrosive environments in connection with transportation, storage or use.
- e is treated with our surface treatment MZY 302 43 zinc electroplating with black chromate treatment. Screws with this surface treatment may only be used for products of such a colour that black screws are needed for reasons of appearance.

7TOLERANCES

Tolerances except as stated see: 1043-171 Uen.
1055-119 Uen.
1055-132 Uen.
105 86-MZY 302 40 Uen.
105 86-MZY 302 41 Uen.
105 86-MZY 302 43 Uen.
105 86-MZY 321 60 Uen.
105 86-MZY 323 60 Uen.

Burrs: The products shall have full surfaces and edges and all burrs removed that can cause injury to person or product.

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8 MATERIAL

See 1055-119 Uen and 1055-120 Uen.

9 TECHNICAL DATA

Dimension			Thread size d				
			ST 2,9	ST 3,5	ST 4,2	ST 4,8	ST 5,5
P	Pitch of the thread		1,1	1,3	1,4	1,6	1,8
d	max		2,9	3,53	4,22	4,8	5,46
	min		2,76	3,35	4,04	4,62	5,28
D1	max		5,6	7	8	9,5	11
	min		5,3	6,64	7,64	9,14	10,57
A	max		1,1	1,3	1,4	1,6	1,8
K1	max		2,4	2,6	3,1	3,7	4,0
	min		2,15	2,35	2,8	3,4	3,7
R1	appr.		6	7	8	9,5	11
R2	min		0,2	0,25	0,3	0,4	0,45
Y			2,1	2,5	2,8	3,2	3,6
C1	ref	(4)	2,80	2,80	3,95	4,50	4,50
	max	(4)	2,84	2,84	3,96	4,56	4,56
	min	(4)	2,76	2,76	3,87	4,45	4,45
T1	min	(5)	1,10	1,10	1,40	1,60	1,60
	max	(5)	1,35	1,35	1,80	2,05	2,05
T2	max		0,13	0,13	0,25	0,25	0,25
T3	max	(6)	0,51	0,51	0,64	0,64	0,64
Driving feature TORX no			T 10	T 10	T 20	T 25	T 25

- (4) Checked with go and no-go gauge.
- (5) Penetration depth for go gauge.
- (6) Maximum penetration depth for no-go gauge.

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10TREATMENT

Treatment symbol	Prf (1)	Surface treatment	Application
24	1	MZY 302 40 A	Zinc electroplating with heat treatment and yellow chromate coating and light oil coating (7), (8), (9), (10). Standard
84	1	MZY 302 41 A	Zinc electroplating with heat treatment and bright chromate coating (7), (8), (10). Standard
86	1	MZY 302 43 A	Zinc electroplating with heat treatment and black chromate coating (7), (8), (10). Special

- (1)Preference classes: 1055-002 Uen.
- (7)See the heading Use.
- (8)Thickness of the zinc coating see 105 86-MZY 323 60 Uen.
- (9)Rust preventing oil MTM 106 01 (Mobilarma 245).
- (10)Anti-corrosion efficiency of zinc electroplated screws shall be inspected according to 1732-002 Uen.

11UNIT

Quantity shall be given in pieces.

12MOUNTING

Mounting tools see 1312-LSA 126 Uen, 1301-LSA 126 01 Uen, 1301-LSA 126 02 Uen, 1301-LSA 126 03 Uen, 1301-LSA 126 04 Uen, 1301-LSA 126 11 Uen, 1301-LSA 126 21 Uen and 1301-LSA 126 51 Uen.

The screws are best assembled using lowspeed screw-drivers. The tool speed should not exceed 1000 revolutions per minute.

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13PACKING

See 1055–108 Uen.

14INSPECTION

See 1055–120 Uen and 1732–002 Uen.

15REFERENCES

1011–386 Uen (1011–386 Ue)
Summary of rules for form defining drawings.

1042–105 Uen (1042–105)
Holes for screws with ST–threads.

1043–171 Uen (1043–171 Ue)
Tapping screw thread – ST–threads and thread ends.

1055–002 Uen
Preference classes.

1055–108 Uen (105 52–108)
Supply conditions.

1055–119 Uen
Material and strength specifications for tapping screws with threads according to ISO 1478 and manufactured by case hardening quality steel.

1055–120 Uen
Methods for inspection by material and strength requirements for tapping screws with threads according to ISO 1478 and manufactured by case hardening quality steel.

1055–132 Uen (105 52–132)
General tolerance specifications.

105 86–MZY 302 40 Uen (105 86–MZY 3024 Ue)
Zinc electroplating.

105 86–MZY 302 41 Uen (105 86–MZY 3024/1 Ue)
Zinc electroplating.

105 86–MZY 302 43 Uen (105 86–MZY 3024/3 Ue)
Zinc electroplating.

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105 86-MZY 321 60 Uen (105 86-MZY 3216)
Light oil coating.

105 86-MZY 323 60 Uen
Zinc electroplating.

1732-002 Uen (1732-002)
Anti-corrosion efficiency of zinc electroplated screws and nuts.

EN/LZB 101 01/13B3 (Binder ST 13B3)
Screws and nuts. Basic standard.

EN/LZB 101 01/13B4 (Binder ST 13B4)
Screws and nuts. Surface treatment.

ISO 1478
Tapping screws thread.

ISO 2702-1974
Heat treated steel tapping screws. Mechanical properties.

SS-ISO 1478
Tapping screws thread.

SS 3180
Tapping screws. General technical requirements.

SS 3181
Tapping screws. Testing.
Gängpressande skruvar med ST-gångor. Provning.

16PRODUCT NUMBER

The product number is designed according to the following frame:

SBF 126 ===/==

a b c

- a Type.
- b Dimension number.
- c Treatment symbol.

Example: SBF 126 283/24.

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17PRODUCT LIST

17.1ZINC ELECTROPLATED AND YELLOW CHROMATED SCREWS (7).

Product number	Thread	L	L	L	Driving	Treatment
Purchased	d		max	min	feature	(7)
SBF 126 219/24	ST 2,9	4,5	4,5	3,7	T 10	MZY 302 40 A
SBF 126 221/24	ST 2,9	6,5	6,5	5,7	T 10	MZY 302 40 A
SBF 126 225/24	ST 2,9	9,5	9,5	8,7	T 10	MZY 302 40 A
SBF 126 227/24	ST 2,9	13	13	12,2	T 10	MZY 302 40 A
SBF 126 229/24	ST 2,9	16	16	15,2	T 10	MZY 302 40 A
SBF 126 230/24	ST 2,9	19	19	18,2	T 10	MZY 302 40 A
SBF 126 275/24	ST 3,5	6,5	6,5	5,7	T 10	MZY 302 40 A
SBF 126 279/24	ST 3,5	9,5	9,5	8,7	T 10	MZY 302 40 A
SBF 126 281/24	ST 3,5	13	13	12,2	T 10	MZY 302 40 A
SBF 126 283/24	ST 3,5	16	16	15,2	T 10	MZY 302 40 A
SBF 126 284/24	ST 3,5	19	19	18,2	T 10	MZY 302 40 A
SBF 126 287/24	ST 3,5	25	25	23,7	T 10	MZY 302 40 A
SBF 126 336/24	ST 4,2	6,5	6,5	5,7	T 20	MZY 302 40 A
SBF 126 340/24	ST 4,2	9,5	9,5	8,7	T 20	MZY 302 40 A
SBF 126 342/24	ST 4,2	13	13	12,2	T 20	MZY 302 40 A
SBF 126 344/24	ST 4,2	16	16	15,2	T 20	MZY 302 40 A
SBF 126 345/24	ST 4,2	19	19	18,2	T 20	MZY 302 40 A
SBF 126 348/24	ST 4,2	25	25	23,7	T 20	MZY 302 40 A
SBF 126 350/24	ST 4,2	32	32	30,7	T 20	MZY 302 40 A
SBF 126 408/24	ST 4,8	9,5	9,5	8,7	T 25	MZY 302 40 A
SBF 126 410/24	ST 4,8	13	13	12,2	T 25	MZY 302 40 A
SBF 126 412/24	ST 4,8	16	16	15,2	T 25	MZY 302 40 A
SBF 126 413/24	ST 4,8	19	19	18,2	T 25	MZY 302 40 A
SBF 126 416/24	ST 4,8	25	25	23,7	T 25	MZY 302 40 A
SBF 126 419/24	ST 4,8	32	32	30,7	T 25	MZY 302 40 A
SBF 126 421/24	ST 4,8	38	38	36,7	T 25	MZY 302 40 A
SBF 126 448/24	ST 5,5	13	13	12,2	T 25	MZY 302 40 A
SBF 126 450/24	ST 5,5	16	16	15,2	T 25	MZY 302 40 A
SBF 126 451/24	ST 5,5	19	19	18,2	T 25	MZY 302 40 A
SBF 126 454/24	ST 5,5	25	25	23,7	T 25	MZY 302 40 A
SBF 126 457/24	ST 5,5	32	32	30,7	T 25	MZY 302 40 A
SBF 126 459/24	ST 5,5	38	38	36,7	T 25	MZY 302 40 A

(7) See the headings Treatment and Use.
Screws with thread ST 2,2, see 1301-SBF 116 Uen.

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17.2 ZINC ELECTROPLATED AND BRIGHT CHROMATED SCREWS (7).

Product number	Thread	L	L	L	Driving	Treatment
Purchased	d		max	min	feature	(7)

SBF 126 219/84	ST 2,9	4,5	4,5	3,7	T 10	MZY 302 41 A
SBF 126 221/84	ST 2,9	6,5	6,5	5,7	T 10	MZY 302 41 A
SBF 126 225/84	ST 2,9	9,5	9,5	8,7	T 10	MZY 302 41 A
SBF 126 227/84	ST 2,9	13	13	12,2	T 10	MZY 302 41 A
SBF 126 229/84	ST 2,9	16	16	15,2	T 10	MZY 302 41 A
SBF 126 230/84	ST 2,9	19	19	18,2	T 10	MZY 302 41 A
SBF 126 275/84	ST 3,5	6,5	6,5	5,7	T 10	MZY 302 41 A
SBF 126 279/84	ST 3,5	9,5	9,5	8,7	T 10	MZY 302 41 A
SBF 126 281/84	ST 3,5	13	13	12,2	T 10	MZY 302 41 A
SBF 126 283/84	ST 3,5	16	16	15,2	T 10	MZY 302 41 A
SBF 126 284/84	ST 3,5	19	19	18,2	T 10	MZY 302 41 A
SBF 126 287/84	ST 3,5	25	25	23,7	T 10	MZY 302 41 A
SBF 126 336/84	ST 4,2	6,5	6,5	5,7	T 20	MZY 302 41 A
SBF 126 340/84	ST 4,2	9,5	9,5	8,7	T 20	MZY 302 41 A
SBF 126 342/84	ST 4,2	13	13	12,2	T 20	MZY 302 41 A
SBF 126 344/84	ST 4,2	16	16	15,2	T 20	MZY 302 41 A
SBF 126 345/84	ST 4,2	19	19	18,2	T 20	MZY 302 41 A
SBF 126 348/84	ST 4,2	25	25	23,7	T 20	MZY 302 41 A
SBF 126 350/84	ST 4,2	32	32	30,7	T 20	MZY 302 41 A
SBF 126 408/84	ST 4,8	9,5	9,5	8,7	T 25	MZY 302 41 A
SBF 126 410/84	ST 4,8	13	13	12,2	T 25	MZY 302 41 A
SBF 126 412/84	ST 4,8	16	16	15,2	T 25	MZY 302 41 A
SBF 126 413/84	ST 4,8	19	19	18,2	T 25	MZY 302 41 A
SBF 126 416/84	ST 4,8	25	25	23,7	T 25	MZY 302 41 A
SBF 126 419/84	ST 4,8	32	32	30,7	T 25	MZY 302 41 A
SBF 126 421/84	ST 4,8	38	38	36,7	T 25	MZY 302 41 A
SBF 126 448/84	ST 5,5	13	13	12,2	T 25	MZY 302 41 A
SBF 126 450/84	ST 5,5	16	16	15,2	T 25	MZY 302 41 A
SBF 126 451/84	ST 5,5	19	19	18,2	T 25	MZY 302 41 A
SBF 126 454/84	ST 5,5	25	25	23,7	T 25	MZY 302 41 A
SBF 126 457/84	ST 5,5	32	32	30,7	T 25	MZY 302 41 A
SBF 126 459/84	ST 5,5	38	38	36,7	T 25	MZY 302 41 A

(7) See the headings Treatment and Use.
Screws with thread ST 2,2, see 1301-SBF 116 Uen.

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17.3 ZINC ELECTROPLATED AND BLACK CHROMATED SCREWS (7).

Product number	Thread	L	L	L	Driving	Treatment
Purchased	d		max	min	feature	(7)

SBF 126 219/86	ST 2,9	4,5	4,5	3,7	T 10	MZY 302 43 A
SBF 126 221/86	ST 2,9	6,5	6,5	5,7	T 10	MZY 302 43 A
SBF 126 225/86	ST 2,9	9,5	9,5	8,7	T 10	MZY 302 43 A
SBF 126 227/86	ST 2,9	13	13	12,2	T 10	MZY 302 43 A
SBF 126 229/86	ST 2,9	16	16	15,2	T 10	MZY 302 43 A
SBF 126 230/86	ST 2,9	19	19	18,2	T 10	MZY 302 43 A
SBF 126 275/86	ST 3,5	6,5	6,5	5,7	T 10	MZY 302 43 A
SBF 126 279/86	ST 3,5	9,5	9,5	8,7	T 10	MZY 302 43 A
SBF 126 281/86	ST 3,5	13	13	12,2	T 10	MZY 302 43 A
SBF 126 283/86	ST 3,5	16	16	15,2	T 10	MZY 302 43 A
SBF 126 284/86	ST 3,5	19	19	18,2	T 10	MZY 302 43 A
SBF 126 287/86	ST 3,5	25	25	23,7	T 10	MZY 302 43 A
SBF 126 336/86	ST 4,2	6,5	6,5	5,7	T 20	MZY 302 43 A
SBF 126 340/86	ST 4,2	9,5	9,5	8,7	T 20	MZY 302 43 A
SBF 126 342/86	ST 4,2	13	13	12,2	T 20	MZY 302 43 A
SBF 126 344/86	ST 4,2	16	16	15,2	T 20	MZY 302 43 A
SBF 126 345/86	ST 4,2	19	19	18,2	T 20	MZY 302 43 A
SBF 126 348/86	ST 4,2	25	25	23,7	T 20	MZY 302 43 A
SBF 126 350/86	ST 4,2	32	32	30,7	T 20	MZY 302 43 A
SBF 126 408/86	ST 4,8	9,5	9,5	8,7	T 25	MZY 302 43 A
SBF 126 410/86	ST 4,8	13	13	12,2	T 25	MZY 302 43 A
SBF 126 412/86	ST 4,8	16	16	15,2	T 25	MZY 302 43 A
SBF 126 413/86	ST 4,8	19	19	18,2	T 25	MZY 302 43 A
SBF 126 416/86	ST 4,8	25	25	23,7	T 25	MZY 302 43 A
SBF 126 419/86	ST 4,8	32	32	30,7	T 25	MZY 302 43 A
SBF 126 421/86	ST 4,8	38	38	36,7	T 25	MZY 302 43 A
SBF 126 448/86	ST 5,5	13	13	12,2	T 25	MZY 302 43 A
SBF 126 450/86	ST 5,5	16	16	15,2	T 25	MZY 302 43 A
SBF 126 451/86	ST 5,5	19	19	18,2	T 25	MZY 302 43 A
SBF 126 454/86	ST 5,5	25	25	23,7	T 25	MZY 302 43 A
SBF 126 457/86	ST 5,5	32	32	30,7	T 25	MZY 302 43 A
SBF 126 459/86	ST 5,5	38	38	36,7	T 25	MZY 302 43 A

(7) See the headings Treatment and Use.
Screws with thread ST 2,2, see 1301-SBF 116 Uen.