

SUPERVISING DEPT.: E. & D. – Prototypes Testing & Services

MANAGING DEPT.: E. & D. – Chassis

PURPOSE

To specify the dimensional characteristics, materials and coatings of captioned parts.

This Standard consists of 1 page and the following parts:

PART 1: Standardized parts having dimensional characteristics to be preferred.

PART 2: Parts required by Design Depts. which deviate from those included in PART 1 because of dimensional changes.

This Standard Sheet was developed without considering whether patents may or may not be involved

Change	Date	Description
===	May 29, '87	Edition 4 – Graphically revised (was 3 rd Edit. –); Standard Part No. 40828 to size M6x58 in PART 2, added. (AR)
A	July, 1988	Edition 4 – <u>PART 2</u> – No. 40835 to size M10x1,25x70 added. (AR)
B	Feb., 1990	Edition 4 – <u>PART 1</u> – Strength grade R70 SD deleted and substituted with R80 SD. Std. Part 41129 to size M5x22 added. (AR)
C	Nov., 1990	Edition 4 – <u>PART 2</u> – Std. Part 40829 to size M12x1,25x50 added. (AR)
D	March, 1991	Edition 4 – <u>PART 2</u> – Std. Part 40833 to size M12x1,25x58 added. (AR)
E	July, 1991	Edition 4 – <u>PART 1</u> – Std. Part 41120 to size M5x45 added. Material R80 SD with code /21 added. (AR)
F	03/16/06	Edition 4 – Coating Fe/Zn 7 IV replaces Fe/Zn 7 III; coating Fe/Zn 7 VII S replaces Fe/Zn 7 VI. (VM)
G	08/08/06	Edition 4 – Coating Fe/Zn 7 II (code /x8) added. Note ■ changed. Coating Fe/Zn 7 VII S (code /17) deleted. (VM)

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TPM

Code

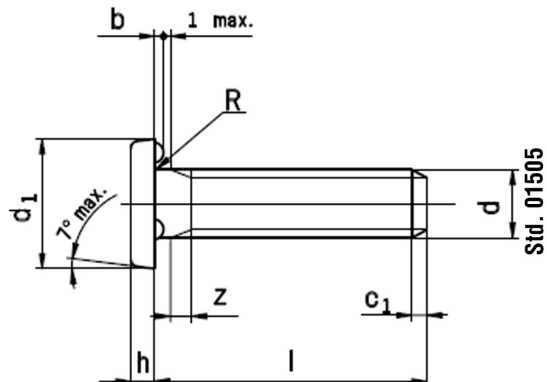
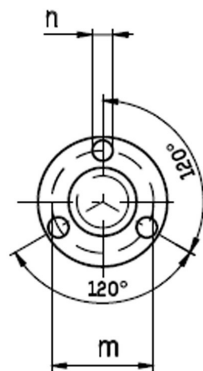
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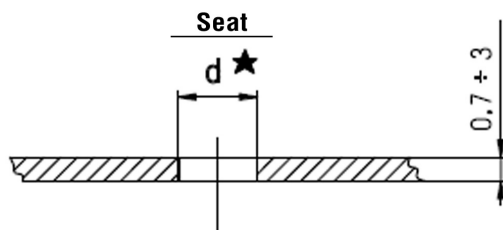
Edition

Dimensions in mm

PART 1**Example of designation:**

1/41145/10 – Std. Sh. 10453 – Spherical projection screws for projection welding M10x1,25x45 –
Mat. R50 SD Stab.

Thread d (6g) ●		M4	M5	M6	M8	M10x1,25
d ₁	nominal	12	13	14	17	19
	devtn. limit	0 -0,700				0 -0,840
h	nominal	2	2,5		3,5	
	devtn. limit	± 0,200			± 0,240	
b	+0,15 0	1			1,3	
n	+0,3 0	2,5			3	
m	min.	9	9,5	10,5	13	15
R		0,2 ÷ 0,4		0,3 ÷ 0,5		
z	max.	1,8	2	2,5	3,1	
c ₁	max.	1,3	1,5	1,8	2,2	



– For basic standard part numbers and notes see page 3.

■ Use Fe/Zn 7 II coating as replacement of Fe/Zn 7 VII S (code /17) which as been cancelled.

SERVICE CLASS 3		TEMPORARY ☐	TO BE QUALIFIED ☐	
MATERIAL	Symbol	R50 SD STAB		R 80 SD
	Type – Std.	Steel – 52605/02		
PROCUREMENT		9.52605/01		
PROTECTIVE COATING		STANDARD PART		
Symbol	Reference			
None		1/XXXXXX/10	1/XXXXXX/20	
Fe/Zn 7 IV ■	9.57405	1/XXXXXX/11	1/XXXXXX/21	
Fe/Zn 7 II	9.57405	1/XXXXXX/18	–	
		–	–	

Dimensions in mm

PART 1

Thread d (6g)			M4		M5		M6		M8		M10x1,25	
			Basic Std. Part No. – Mass g/piece									
Length l (js15)*	10	± 0,290			41135	3,95	41148	4,60	41413	9,92		
	12	± 0,350			41138	3,99	41136	4,90	41407	10,33		
	14		40826	2,81	41152	4,00	40822	5,25	41408	10,74		
	16		40824	2,96	41140	4,42	41147	5,60	41149	11,15		
	18				41139	4,81	41141	5,90	41409	11,32		
	20	± 0,420			41151	5,20	41414	6,43	41410	11,91	41144	17,61
	22				41129	5,25	41142	6,51	40810	13,02	41404	18,63
	25				41131	5,33	41415	7,06	41143	13,86	41416	20,18
	28						40820	7,60	41412	14,60	41420	21,73
	30			41130	5,46	40816	7,96	41411	15,10	41417	22,76	
	35	± 0,500					41419	8,97	41150	17,44	41137	25,36
	40						40817	9,68	40811	19,78	41418	27,95
	45				41120	5,85	40818	11,18	40812	22,12	41145	30,54
	50						40819	12,68	40813	24,46	41146	33,13
	55	± 0,600							40814	26,80	40831	35,72
	60								40815	29,14	40832	38,31
65								40809	31,48			
70								40808	33,82			

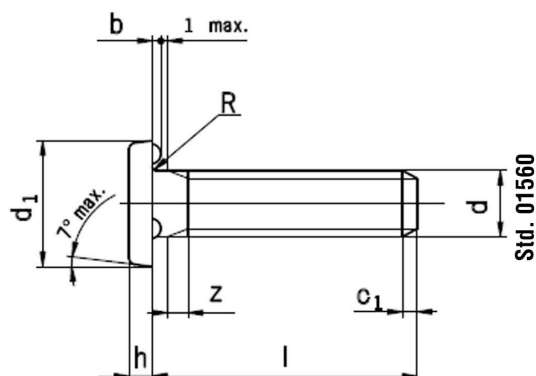
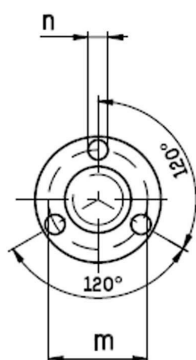
* Only the screws included between the two bold solid lines are customary production series.

★ For hole diameter tolerances see Std. 01328.

● Screws with ISO metric thread – Grade A.

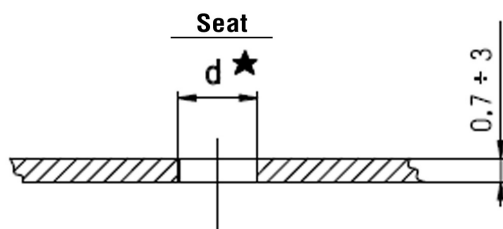
– See: Std. 01410 – ISO tolerances.
Std. 01444 – General requirements.

Dimensions in mm

PART 2**Completely threaded type****Example of designation:**

1/40806/10 – Std. Sh. 10453 – Spherical projection screws for projection welding M12x1,5x 50 –
Mat.R50 SD Stab.

Thread d (6g) ●		M6	M12x1,25	M12x1,5
d₁	nominal	14	21	
	devtn. limit	0 -0,700	0 -0,840	
h	nominal	2,5	4	
	devtn. limit	± 0,200	± 0,15	
b	+0,15 0	1	1,3	
n	+0,3 0	2,5	3	
m	min.	10,5	16,5	
R		0,3 ÷ 0,5	0,3 ÷ 0,5	
z	max.	2,5	3,1	3,8
c₁	max.	1,8	2,2	2,6



– For basic standard part numbers and notes see page 5.

SERVICE CLASS 3		TEMPORARY ☐	TO BE QUALIFIED ☐	
MATERIAL	Symbol	R50 SD STAB		
	Type – Std.	Steel – 52605/02		
PROCUREMENT		9.52605/01		
PROTECTIVE COATING		STANDARD PART		
Symbol	Reference			
None		1/XXXXXX/10		
Fe/Zn 7 IV	9.57405	1/XXXXXX/11		
Fe/Zn 7 II	9.57405	1/XXXXXX/18		
		–		

Dimensions in mm

PART 2

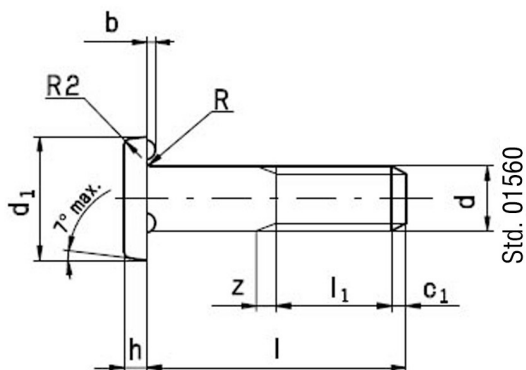
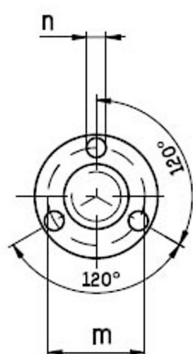
Thread d (6g)			M6		M12x1,25		M12x1,5	
			Basic Std. Part No. – Mass g/piece					
Length l	30	± 0,420	—	—	—	—	40805	32,25
	35	± 0,500	—	—	40827	37,41	40803	36,12
	45		—	—	—	—	40807	43,87
	50		—	—	40829	49,76	40806	47,74
	55	± 0,600	—	—	—	—	40804	51,63
	58		40828	15,08	40833	56,35	—	—

- ★ For hole diameter tolerances see Std. 01328.
- Screws with ISO metric thread – Grade A.
- See: Std. 01410 – ISO tolerances.
Std. 01444 – General requirements.

Dimensions in mm

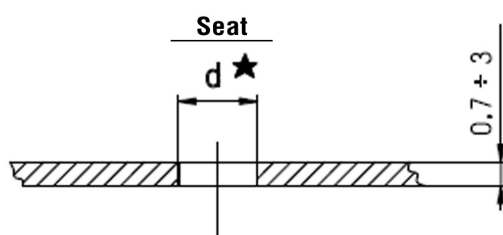
PART 2

Partially threaded type

**Example of designation:**

1/40836/10 – Std. Sh. 10453 – Spherical projection screws for projection welding M10x1,25x65 – Mat.R50 SD Stab.

Thread d (6g) ●		M8	M10x1,25	M12x1,25	M12x1,5
d ₁	nominal	17	18	21	
	devtn. limit	0 -0,700	0 -0,840		
h	nominal	3,5		4	
	devtn. limit	± 0,150			
b	+0,15 0	1,3			
n	+0,3 0	3			
m	min.	13	15	16,5	
R		0,3 ÷ 0,5			
z	max.	3,1			3,8
c ₁	max.	2,2			2,6



– For basic standard part numbers and notes see page 7.

SERVICE CLASS 3		TEMPORARY ☐	TO BE QUALIFIED ☐	
MATERIAL	Symbol	R50 SD STAB		
	Type – Std.	Steel – 52605/02		
PROCUREMENT		9.52605/01		
PROTECTIVE COATING		STANDARD PART		
Symbol	Reference			
None		1/XXXXX/10		
Fe/Zn 7 IV	9.57405	1/XXXXX/11		
Fe/Zn 7 II	9.57405	1/XXXXX/18		
		–		

Dimensions in mm

PART 2

Thread d (6g)			M8		M10x1,25		M12x1,25		M12x1,5
I ₁			20	30	20	25	25	30	40
			Basic Std. Part No. – Mass g/piece						
Length I (js15)	40	± 0,500	40796						
			19,88						
	50		40797						
			23,83						
	65	± 0,600			40836				
					42,07				
	70					40835	40837		
						43,72	69,07		
	75								40825
									70,36
	80			40798					
				34,89					
	90	± 0,700						40802	
								86,17	

- ★ For hole diameter tolerances see Std. 01328.
- Screws with ISO metric thread – Grade A.
- See: Std. 01410 – ISO tolerances.
Std. 01444 – General requirements.